

Product Selection Guide 2018

Marine Propulsion Systems

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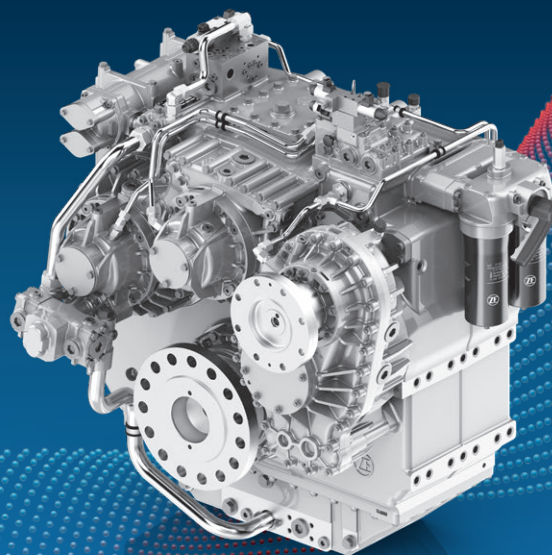
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1 Create a ticket

ZEP see. think. act.

Home Magazine Technologies

Contact

Technical Inquiries

Contact

Country

Zip Code / PO Box / City

First Name

Last Name

Phone

Email

Company

Type of Request ☐ Phone usage

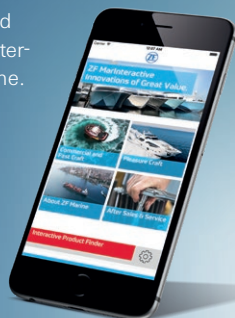
2 Look for the nearest service location

The figure consists of two side-by-side screenshots of the Google Maps interface. Both screenshots show the 'Service Network' page with the heading 'Locations close to you'. The left screenshot shows a search bar with the text 'Where are you looking for a location?' and a map of the United Kingdom. The right screenshot shows a search bar with the text 'Where are you looking for a location?' and a map of the United Kingdom. On the left side of the right screenshot, there is a list of service locations with details such as 'Service type', 'Address', 'Phone number', and 'Website'. The map on the right side of the right screenshot shows the location of the selected service location.

3 Call the technical support line

service.marine@zf.com · www.zf.com/contact

4 Use the ZF MarInteractive App



Please read the respective comments that apply to the selected product. Model numbers, ratings, text and data contained in this brochure are subject to change without notification. Detailed information including technical data sheets can be obtained from the website www.zf.com/marine

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Sales, Aftersales and Service Competence Centers

ZF utilizes a global network of factory owned locations and independent business partners to support our customers. Approximately 400 partners worldwide are dedicated to Sales, Aftersales and Service of ZF Marine products. To find your nearest ZF product support, please contact your Regional Competence Center from the list below or visit: www.zf.com and follow: Products & Services/Service Network to find a ZF partner in your country.

service.marine@zf.com
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ZF duty classification definitions

P Pleasure Duty

Highly intermittent operation with very large variations in engine speed and power.

- Average engine operation hours limit: 500 hours/year (for mechanical ("M") transmissions: 300 hours/years)
- Typical hull forms: Planing
- Applications: Private, non-commercial, non-charter, leisure activities, no racing

L Light Duty

Intermittent operation with large variations in engine speed and power.

- Average engine operation hours limit: 2500 hours/year (for hydraulic transmissions smaller than ZF 2000 series: 2000 hours/year)
- Typical hull forms: Planing and semi-displacement
- Typical applications: Private and charter, sport/leisure activities, government applications, no racing

M Medium Duty

Intermittent operation with some variations in engine speed and power.

- Average engine operation hours limit: 4000 hours/year (for transmissions smaller than ZF 2000 series and workboat ZF W2300 series: 3500 hours/year)
- Typical hull forms: Semi-displacement and displacement
- Typical applications: Charter and commercial craft (example: crew boats) sport/leisure activities, government applications

C Continuous Duty

Continuous operation with little or no variations in engine speed and power.

- Average engine operation hours limit: unlimited
- Typical hull forms: Displacement
- Typical applications: Heavy duty commercial vessels

Surface-Drive Applications

For applications with surface-drives please contact ZF Marine for product selection assistance.

Torsional Vibration and Torsional Couplings

The responsibility for ensuring complete propulsion system torsional vibration and stress analysis compatibility rests with the overall propulsion system integrator. The analysis must include excitations induced by the engine governor.

ZF cannot accept any liability for gearbox noise or for damage to the gearbox, the flexible coupling or to other parts of the drive unit caused by torsional vibrations. Contact ZF for further information and assistance.

For single engine powered boats, where loss of propulsion can result in loss of control, ZF recommends and Survey Societies normally require the use of a torsional limit stop.

It is the buyer's responsibility to specify this option. ZF cannot accept any liability for personal injury, loss of life or damage or loss of property due to the failure of the buyer to specify a torsional limit stop. ZF selects torsional couplings on the basis of nominal input torque at commonly rated engine speeds. Consult ZF for details concerning speed limits of standard offered torsional couplings, which can be below transmission limits. Special torsional couplings may be required for Survey Society requirements.

Application engineering data

Ratings

Ratings apply to marine diesel engines at the indicated speeds, unless mentioned differently (e.g. "gasoline").

At other engine speeds, the respective power capacity (kW) of the transmission can be obtained by multiplying the Power/Speed ratio by the speed.

NOTE: The maximum rated input power and maximum speed must not be exceeded. For some products max power is limited independent of speed (see columns "max. kW", "max. hp", "max. rpm").

Approximate conversion factors:

1 kW	=	1.36 metric hp
1 kW	=	1.34 U.S. hp (SAE)
1 U.S. hp	=	1.014 metric hp
1 Nm	=	0.74 lb.ft

Ratings apply to right hand turning engines, i.e. engines having counterclockwise rotating flywheels when viewing the flywheel end of the engine. These ratings allow full power through forward and reverse gear trains, unless otherwise stated. Contact your nearest ZF Sales and Service office for ratings applicable to gas turbines, as well as left hand turning engines, and marine transmissions for large horsepower capacity engines. Ratings apply to marine transmissions currently in production or in development and are subject to change without prior notice.

Safe Operation Notice

The safe operation of ZF products depends upon adherence to technical data presented in our brochures. Safe operation also depends upon proper installation, operation and routine maintenance and inspection under prevailing conditions and recommendations set forth by ZF. Damage to transmission caused by repeated or continuous emergency manoeuvres or abnormal operation is not covered under warranty. It is the responsibility of users and not ZF to provide and install guards and safety devices, which may be required by recognized safety standards of the respective country (e.g. for U.S.A. – the Occupational Safety Act of 1970 and its subsequent provisions).

Monitoring Notice

The safe operation of ZF products depends upon adherence to ZF monitoring recommendations presented in our operating manuals, etc. It is the responsibility of users and not ZF to provide and install monitoring devices and safety interlock systems as may be deemed prudent by ZF. Consult ZF for details and recommendations.

Survey Society Classification

In most cases, the maximum medium and continuous duty ratings permitted by ZF are accepted in full by major classification societies. If classification is required, contact ZF regarding proper procedures (also for yacht service and ice classification service).

Trolling Valves

Trolling valves are available as an option on most models of marine transmissions. In most cases, trolling valves are easily retrofitted. A thermostatic oil by-pass valve may be required to maintain proper operation and recommended oil temperature. Consult ZF for details and limits.

Non-Standard Ratios (+)

Where non-standard ratios are indicated (+) these are available on request and may incur additional price/longer delivery compared to standard ratios. Consult ZF for details.

Standard / Non-Reversing / U-Drive Option

Standard configurations are reversing transmissions with three shafts and parallel vertical offsets (output shaft / input shaft). In principle, all transmissions are also available as non-reversing units (for instance, for controllable pitch propeller applications). Some parallel shaft transmissions can also be supplied with input and output on the same side (U-Drive). Consult ZF for details.

Power Take-Offs (PTO'S)

All PTO'S are retrofittable except where stated otherwise. Most transmissions can be offered with clutchable or permanently driven (live) PTO'S. Consult ZF for details and limits.

Dimensions and Weights

Dimensions and weights refer to transmissions with bell housing (where appropriate) but excluding options such as: trolling valves, power take-offs, propeller shaft companion flanges, torsional couplings etc.

Key to configurations and model designations

Standard Configuration (without name extension)

- Reversing transmissions
- 3-Shaft configuration
- Vertical offset (input above output)
- Parallel offset

Other Configurations / Model Designations

NR:	Non-Reversing
NR2:	Non-Reversing, two shafts (input above output)
NR2B:	Non-Reversing, two shafts (input below output)
NR2H:	Non-Reversing, two shafts (input horizontal output)
NC:	No clutch
SG:	Spur Gear
SGDL:	Spur Gear Diagonal Left
SGDR:	Spur Gear Diagonal Right
U:	Remote U-Drive
TS:	2-Speed (power-shifting)
M:	Mechanical clutch actuation
A:	Down-Angle
IV:	Integral Vee-drive (flanged on to engine)
V:	Remote Vee-drive
D:	Diagonal
H:	Horizontal
C:	Coaxial

Shaft Rotation

These designations are not part of the model name but the required shaft rotation must be specified when ordering the transmissions. This is particularly important for non-reversing (NR) transmissions.

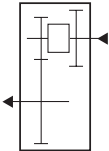
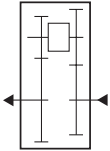
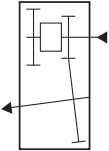
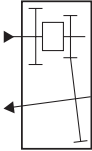
- Engine-wise (EW): output-shaft rotates in same direction as input shaft, or
- Counter Engine-wise (CEW): output-shaft rotates in opposite direction to input shaft

For standard reversing transmissions full power can be transmitted through either the forward or the reverse gear trains, unless stated otherwise.

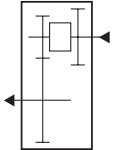
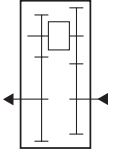
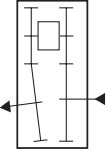
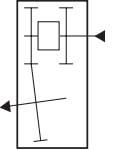
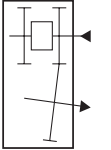
Transmission configuration and type

	Parallel offset	Offset down-angle	Integral V-drive	Remote V-drive
TRANSMISSION FAMILY (2 Speed)				
ZF 90	ZF 90 TS	ZF 90 ATS	ZF 90 IVTS	
ZF 115		ZF 115 ATS	ZF 115 IVTS	
ZF 325	ZF 325 TS	ZF 325 ATS	ZF 325 IVTS	
ZF 550	ZF 550-1 TS	ZF 550-1 ATS		
ZF 665	ZF 665 TS	ZF 665 ATS		

Transmission configuration and type

	Parallel offset	Coaxial	Down-angle	V-drive
TRANSMISSION FAMILY				
ZF M	ZF 12 M, ZF 15 M, ZF 25 M, ZF 30 M		ZF 15 MA ZF 25 MA	ZF 15 MIV
ZF 25	ZF 25		ZF 25 A	
ZF 45	ZF 45-1	ZF 45 C	ZF 45 A	ZF 45 IV ZF 45-1 IV ZF 48 IV
ZF 63	ZF 63	ZF 63 C	ZF 63 A	ZF 63 IV ZF 68 IV
ZF 85			ZF 85 A	ZF 85 IV

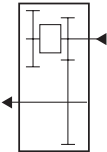
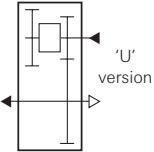
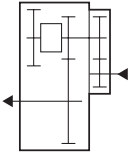
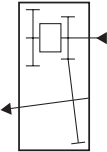
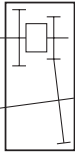
Transmission configuration and type

	Parallel offset	Coaxial or near coaxial parallel	Near coax. down-angle	Down-angle	V-drive
TRANSMISSION FAMILY					
ZF 220	ZF 220, ZF W220			ZF 220 A	
ZF 280 ZF 286	ZF 280-1 ZF 286			ZF 280-1 A ZF 286 A	ZF 280 IV ZF 286 IV
ZF 301 ZF 305	ZF 305-3	ZF 301-1 C	ZF 301-1 A	ZF 305-3 A	
ZF 320 ZF 325	ZF 325-1 ZF W320 ZF W325			ZF 325-1 A	ZF 325 IV
ZF 335				ZF 335 A	ZF 335 IV
ZF 350	ZF W350-1				
ZF 360 ZF 370	ZF 360			ZF 360 A	ZF 360 IV ZF 370 V
ZF 500 ZF 510 ZF 550	ZF 500 ZF 550-1			ZF 500-1 A ZF 510-1 A ZF 550-1 A	ZF 500-1 IV ZF 510 V ZF 550-1 V
ZF 665 ZF W650	ZF 665 ZF W650			ZF 665 A	ZF 665 V

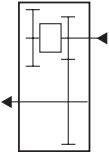
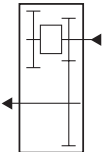
Transmission configuration and type

	Parallel offset	Extended parallel offset	Down-angle	V-drive
TRANSMISSION FAMILY				
ZF 2000	ZF 20xx ZF 21xx	ZF 22xx, ZF 23xx, ZF 24xx ZF W23xx, ZF W24xx	ZF 20xx A ZF 21xx A	ZF 20xx V ZF 21xx V
ZF 3000	ZF 30xx	ZF 33xx, ZF 37xx ZF W33xx, ZF W37xx	ZF 30xx A ZF 31xx A	ZF 30xx V ZF 31xx V
ZF 5000	ZF 50xx ZF 50xx NR2H	ZF 53xx ZF W53xx	ZF 50xx A	ZF 50xx V

Transmission configuration and type

	Parallel offset	Extended parallel offset	Coaxial or near coax. parallel	Down-angle	V-drive
TRANSMISSION FAMILY					
ZF 7600	ZF 7600, ZF 7650 ZF 7600 NR2, ZF 7650 NR2 ZF 7600 NR2B, ZF 7650 NR2B ZF 7600 NR2H, ZF 7650 NR2H	ZF 7640, ZF 7641 ZF 7645, ZF 7646 ZF W7610, ZF W7615 ZF W7640, ZF W7645 ZF 7661, ZF 7666		ZF 76xx A	ZF 76xx V
ZF 9000	ZF 90xx ZF 90xx NR2 ZF 90xx NR2B ZF 90xx NR2H	ZF 93xx		ZF 90xx A	ZF 90xx V
ZF 23500			ZF 23560 C, ZF 23860 C		
ZF 24000	ZF 24060 D ZF 24060 NR2 ZF 24060 NR2B ZF 24060 NR2H	ZF 24360 D	ZF 24060 SGC ZF 24360 SG ZF 24360 SGDL/DR		
ZF 30000	ZF 30050 NR2 ZF 30050 NR2B ZF 30050 NR2H		ZF 30050 SGC ZF 30350 SG ZF 30350 SGDL/DR		
ZF 40000	ZF 40060 NR2 ZF 40060 NR2B ZF 40060 NR2H		ZF 40060 SGC ZF 40360 SG ZF 40360 SGDL/DR		
ZF 53000	ZF 53000 NR2B, ZF 53000 NR2H ZF 53500 NR2B, ZF 53500 NR2H ZF 53800 NR2B, ZF 53800 NR2H				
ZF 60000	ZF 60000 NR2H				
ZF 83000	ZF 837xx NR2H				

Transmission configuration and type

	Parallel offset	Extended parallel offset
TRANSMISSION FAMILY		
ZF W10000	ZF W100x0, ZF W100x0 NR/NC	ZF W101x0, ZF W101x0 NR/NC ZF W102x0, ZF W102x0 NR/NC ZF 108x0, ZF 108x0 NR/NC
ZF W11000	ZF W110x0, ZF W110x0 NR/NC	ZF W111x0, ZF W111x0 NR/NC ZF W112x0, ZF W112x0 NR/NC ZF 118x0, ZF 118x0 NR/NC
ZF W17000	ZF W170x0, ZF W170x0 NR/NC	ZF W171x0, ZF W171x0 NR/NC ZF W172x0, ZF W172x0 NR/NC
ZF W33000		ZF W33100 NR2/NC2
ZF W43000	ZF W43000 NR2/NC2 ZF 43600 NR2/NC2	ZF W43100 NR2/NC2 ZF 43700 NR2/NC2
ZF W63000	ZF W63000 NR2/NC2 ZF 53600 NR2/NR2H	
ZF W83000	ZF W83000 NR2/NC2	ZF W83100 NR2/NC2
ZF W93000		ZF W93300 NC2
ZF W103000		ZF W103100 NC2

P

Transmissions
Pleasure Duty

Pleasure Duty
Single Speed

P

PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	'A' Pos	'B' Pos	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					2800 rpm		3000 rpm		3600 rpm							
ZF 12 M ¹²	2.136	1.955	0.0131	0.0176	37	49	39	53	47	63	55	73	5000	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	2.632	1.955	0.0111	0.0149	31	42	33	45	40	54	55	73	5000			
					3000 rpm		3600 rpm		3800 rpm							
ZF 15 M ¹²	1.556	1.955	0.0152	0.0204	46	61	55	73	55	73	55	73	5000	13	29	SAE 4, 5, 6, B/W, Yanmar JH Ratio 1.556 'B' Pos max torque 120 Nm. Ratio 1.875 'B' Pos max torque 120 Nm.
	1.875	1.955														
ZF 15 MA ¹² 8 degrees	1.875	1.955	0.0152	0.0204	46	61	55	73	55	73	55	73	5000	14	30	SAE 4, 5, 6, B/W, Yanmar JH Ratio 1.875 'B' Pos max torque 120 Nm. Ratio 2.136 'B' Pos max torque 120 Nm.
	2.136	1.955	0.0131	0.0176	39	53	47	63	50	67	55	73	5000			
	2.632	1.955	0.0111	0.0149	33	45	40	54	42	57	55	73	5000			
ZF 15 MIV ¹² 15 degrees	2.134	2.224	0.0152	0.0204	46	61	55	73	55	73	55	73	5000	20	44	SAE 4, 5, B/W, Yanmar JH Ratio 2.134 'B' Pos max torque 120 Nm.
	2.718	2.224	0.0111	0.0149	33	45	40	54	42	57	55	73	5000			
	2.995	2.224														
ZF 25	1.969	1.969	0.0325	0.0436	98	131	117	157	124	166	179	240	5500	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	2.800	2.800	0.0251	0.0337	75	101	90	121	95	128	138	185	5500			
ZF 25 A 8 degrees	1.548	1.548	0.0325	0.0436	98	131	117	157	124	166	179	240	5500	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	1.926	1.926														
	2.480*	2.480*	0.0277	0.0371	83	111	100	134	105	141	152	204	5500			
	2.292	2.292	0.0262	0.0351	79	105	94	126	100	133	144	193	5500			
	2.714	2.714	0.0251	0.0337	75	101	90	121	95	128	138	185	5500			
ZF 25 M ¹²	1.880	2.095	0.0262	0.0351	79	105	80	107	80	107	80	107	5000	19	41	SAE 4, 5, B/W, Yanmar JH Ratio 1.880 'B' Pos max torque 230 Nm.
	2.273	2.095	0.0215	0.0288	65	86	77	104	80	107	80	107	5000			
	2.737	2.722	0.0177	0.0237	53	71	64	85	67	90	80	107	5000			
ZF 25 MA ¹² 8 degrees	2.227	2.737	0.0215	0.0288	65	86	77	104	80	107	80	107	5000	21	46	SAE 4, 5, B/W, Yanmar JH Ratio 2.227 'B' Pos max torque 169 Nm.
	2.737	2.737	0.0177	0.0237	53	71	64	85	67	90	80	107	5000			
ZF 30 M ¹²	2.148	2.636	0.0241	0.0323	72	97	87	116	92	123	95	128	5000	23	51	4 & 5 Yanmar JH Ratio 2.148 'B' Pos max torque 185 Nm. Ratio 2.696 'B' Pos max torque 185 Nm.
	2.696	2.636														

* Special Order Ratio.
¹² Reduced power capacity by the following shock factors: 1 cylinder engine ÷ 1.25, 2 cylinder engine ÷ 1.20, 3 cylinder engine ÷ 1.15

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	'A' Pos	'B' Pos	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					2800 rpm		3300 rpm		3800 rpm							
ZF 45 A 8 degrees	1.256	1.256	0.0471	0.0632	132	177	155	209	179	240	259	348	5500	28	62	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.514	1.514														
	2.034	2.034														
	2.435	2.435	0.0440	0.0590	123	165	145	195	167	224	242	325	5500			
ZF 45 C ¹	1.000	1.031	0.0555	0.0744	155	208	183	246	211	283	305	409	5500	31	68	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
ZF 45 IV ¹ 20 degrees	1.207	1.244	0.0555	0.0744	155	208	183	246	211	283	305	409	5500	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.462	1.507														
ZF 45-1	2.200	2.200	0.0471	0.0632	132	177	155	209	179	240	259	348	5500	60	132	SAE 2, 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	2.512	2.512														
	3.031	3.031														
	3.741	3.741														
ZF 45-1 IV ¹ 20 degrees	1.207	1.244	0.0646	0.0866	181	242	213	286	245	329	355	476	5500	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.462	1.507														
ZF 48 IV ¹ 20 degrees	1.207	1.244	0.0712	0.0955	199	267	235	315	271	363	392	525	5500	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.462	1.507														
	1.727	1.780														
	1.950	2.010	0.0636	0.0853	178	239	210	281	242	324	350	469	5500			

¹ For ZF 45 C, ZF 45 IV, ZF 45-1 IV, ZF 48 IV and ZF 63 C
– full power in 'A' POS only, 'B' POS for docking and low speed.

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	'A' Pos	'B' Pos	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					2800 rpm		3300 rpm		3800 rpm							
ZF 63	1.256	1.250	0.0712	0.0955	199	267	235	315	271	363	392	525	5500	46	101	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.514	1.521														
	1.750*	1.770														
	1.933	1.973														
	2.480	2.476	0.0591	0.0793	165	222	195	262	225	301	325	436	5500			
	2.783	2.799														
ZF 63 A 8 degrees	1.216	1.215	0.0712	0.0955	199	267	235	315	271	363	392	525	5500	44	97	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.563	1.583														
	2.037	2.017														
	2.522	2.536	0.0623	0.0835	174	234	206	276	237	317	343	459	5500			
	2.682	2.709														
ZF 63 C ¹	1.000	1.031	0.0712	0.0955	199	267	235	315	271	363	392	525	5500	32	71	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
ZF 63 IV 12 degrees	1.294	1.288	0.0712	0.0955	199	267	235	315	271	363	392	525	5500	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567														
	1.992	2.033														
	2.477	2.528	0.0659	0.0884	185	248	217	292	250	336	362	486	5500			
ZF 68 IV 12 degrees	1.294	1.288	0.0712	0.0955	199	267	235	315	271	363	427	573	6000	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567														
	1.746	1.749														
	1.992	2.033														
	2.477	2.528	0.0659	0.0884	185	248	217	292	250	336	395	530	6000			
					2800 rpm		3000 rpm		3300 rpm							
ZF 85 A 8 degrees	1.567	1.567	0.1114	0.1494	312	418	334	448	368	493	501	672	4500	69	152	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	1.750	1.750														
	1.962	1.962														
	2.500	2.500														
ZF 85 IV 12 degrees	1.644	1.638	0.1114	0.1494	312	418	334	448	368	493	390	523	3500	86	190	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	2.008	1.996														
	2.493	2.468														

¹ For ZF 45 C, ZF 45 IV, ZF 45-1 IV, ZF 48 IV and ZF 63 C
– full power in 'A' POS only, 'B' POS for docking and low speed.

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2300 rpm		2800 rpm		3200 rpm							
ZF 220	1.000, 1.128*, 1.237*, 1.400*, 1.500*, 1.963, 2.478	0.0985	0.1321	227	304	276	370	315	423	443	594	4500	63	139	SAE 2, 3, 3 CAT
	3.000	0.0855	0.1147	197	264	239	321	274	367	385	516	4500			
ZF 220 A 10 degrees	1.235*, 1.533, 1.750*, 2.040	0.0932	0.1250	214	288	261	350	298	400	419	563	4500	50	110	SAE 2, 3, 3 CAT, B/W
	2.455*	0.0855	0.1147	197	264	239	321	274	367	385	516	4500			
				2500 rpm		2800 rpm		3300 rpm							
ZF 280 IV 14 degrees	1.252*, 1.561*, 1.772*, 2.063	0.1398	0.1875	350	469	391	525	461	619	503	675	3600	106	234	SAE 2, 3, 3 CAT
	2.276, 2.556*	0.1205	0.1616	301	404	337	452	398	533	434	582	3600			
	3.094*	0.1016	0.1362	254	340	284	381	335	449	366	490	3600			
ZF 280-1	0.814*, 1.000, 1.056*, 1.139*, 1.214*, 1.300, 1.514*, 2.000	0.1398	0.1875	350	469	391	525	461	619	503	675	3600	73	161	SAE 1, 2, 3, 3 CAT
	2.478	0.1205	0.1616	301	404	337	452	398	533	434	582	3600			
	3.000	0.1142	0.1531	286	383	320	429	377	505	411	551	3600			
ZF 280-1 A 7 degrees	1.118*, 1.483, 1.769, 2.000, 2.227	0.1398	0.1875	350	469	391	525	461	619	503	675	3600	73	161	SAE 1, 2, 3, 3 CAT
	2.476*	0.1205	0.1616	301	404	337	452	398	533	434	582	3600			
ZF 286	1.237*, 1.400*, 1.500, 1.966	0.1715	0.2300	429	575	480	644	566	759	617	828	3600	86	190	SAE 1, 2, 3, 3 CAT
	0.923*, 1.000*, 2.269	0.1641	0.2201	410	550	459	616	542	726	591	792	3600			
	2.481*	0.1506	0.2020	377	505	422	566	497	667	542	727	3600			
	2.917	0.1297	0.1739	324	435	363	487	428	574	467	626	3600			
ZF 286 A 7 degrees	1.200*, 1.484*, 1.750, 1.962	0.1715	0.2300	429	575	480	644	566	759	617	828	3600	77	170	SAE 1, 2, 3, 3 CAT
	2.208	0.1506	0.2020	377	505	422	566	497	667	542	727	3600			
	2.391	0.1471	0.1973	368	493	412	552	485	651	530	710	3600			
	2.500	0.1377	0.1847	344	462	386	517	454	610	496	665	3600			
ZF 286 IV 14 degrees	1.266*, 1.535, 2.011	0.1715	0.2300	429	575	480	644	566	759	617	828	3600	130	287	SAE 1, 2, 3, 3 CAT
	2.322*	0.1620	0.2172	405	543	454	608	535	717	583	782	3600			
	2.539	0.1491	0.1999	373	500	417	560	492	660	537	720	3600			
				2300 rpm		2500 rpm		2800 rpm							
ZF 301-1 A 10 degrees	1.190*, 1.516*, 2.005, 2.551*, 2.901*	0.1285	0.1723	296	396	321	431	360	482	386	517	3000	87	192	SAE 1, 2, 3, 3 CAT
ZF 301-1 C	1.236*, 1.408*, 1.862, 2.694	0.1446	0.1939	333	446	362	485	405	543	434	582	3000	87	192	SAE 1, 2, 3, 3 CAT
	1.004*	0.1116	0.1497	257	344	279	374	312	419	335	449	3000			

* Special Order Ratio.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2300 rpm		2500 rpm							
ZF 305-3	1.220, 1.486*, 1.968	0.2192	0.2940	460	617	504	676	548	735	658	882	3000	98	216	SAE 1, 2, 3
	0.884*, 1.000*	0.2143	0.2874	450	604	493	661	536	719	643	862	3000			
	2.250*	0.1946	0.2610	409	548	448	600	487	653	584	783	3000			
	2.500	0.1783	0.2391	374	502	410	550	446	598	535	717	3000			
	2.917	0.1556	0.2087	327	438	358	480	389	522	467	626	3000			
ZF 305-3 A 7 degrees	1.200*, 1.514, 1.733, 2.037	0.2192	0.2940	460	617	504	676	548	735	658	882	3000	97	214	SAE 1, 2, 3
	2.179	0.1864	0.2500	391	525	429	575	466	625	559	750	3000			
	2.423	0.1718	0.2304	361	484	395	530	430	576	515	691	3000			
ZF 325 IV 14 degrees	1.216, 1.485*, 1.733, 2.037	0.2595	0.3480	545	731	597	800	649	870	779	1044	3000	185	408	SAE 1, 2
	2.417	0.2334	0.3130	490	657	537	720	584	783	700	939	3000			
ZF 325-1	1.167*, 1.225*, 1.459*, 1.727, 2.033	0.2594	0.3479	545	731	597	800	649	870	778	1044	3000	130	287	SAE 1
	1.000	0.2432	0.3261	511	685	559	750	608	815	730	978	3000			
	2.500	0.2334	0.3130	490	657	537	720	584	783	700	939	3000			
	2.957	0.2043	0.2740	429	575	470	630	511	685	613	822	3000			
ZF 325-1 A 7 degrees	1.216*, 1.485, 1.733, 2.037, 2.240*	0.2595	0.3480	545	731	597	800	649	870	779	1044	3000	130	287	SAE 1
	2.417	0.2334	0.3130	490	657	537	720	584	783	700	939	3000			
ZF 335 A 7 degrees	1.441*, 1.594*, 1.767, 1.964, 2.192*	0.2917	0.3912	613	822	671	900	729	978	875	1174	3000	159	351	SAE 1
	2.458	0.2675	0.3587	562	753	615	825	669	897	803	1076	3000			
ZF 335 IV 14 degrees	1.441*, 1.964*, 2.192*	0.2917	0.3912	613	822	671	900	729	978	875	1174	3000	215	474	SAE 1, 2
	2.458	0.2675	0.3587	562	753	615	825	669	897	803	1076	3000			
ZF 360	0.925*, 1.045*, 1.125*, 1.237*, 1.500, 1.774, 1.966, 2.185, 2.480, 2.625	0.2917	0.3912	613	822	671	900	729	978	875	1174	3000	185	408	SAE 0, 1
	2.917	0.2512	0.3369	528	707	578	775	628	842	754	1011	3000			
ZF 360 A 7 degrees	1.216*, 1.485, 1.767, 1.964, 2.192, 2.478, 2.609	0.2917	0.3912	613	822	671	900	729	978	875	1174	3000	187	412	SAE 0, 1
ZF 360 IV 14 degrees	1.216, 1.767, 1.964*, 2.478*	0.2917	0.3912	613	822	671	900	729	978	875	1174	3000	230	507	SAE 1
				2100 rpm		2300 rpm		2450 rpm							
ZF 370 V 10 degrees	1.125*, 1.774*, 2.000, 2.222*, 2.480	0.2917	0.3912	613	822	671	900	715	958	875	1174	3000	194	428	

* Special Order Ratio.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2300 rpm		2450 rpm							
ZF 500	1.000*, 1.125, 1.237*, 1.500, 1.774*, 1.966	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	3000	185	408	SAE 0, 1
	0.925*, 2.185*	0.3654	0.4900	767	1029	840	1127	895	1201	1096	1470	3000			
	2.480*	0.3404	0.4565	715	959	783	1050	834	1118	1021	1370	3000			
	2.625*	0.3242	0.4348	681	913	746	1000	794	1065	973	1304	3000			
	2.917*	0.2675	0.3587	562	753	615	825	655	879	803	1076	3000			
ZF 500-1 A 7 degrees	1.216*, 1.485*, 1.767, 1.964	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	3000	192	423	SAE 0, 1
	2.192	0.3683	0.4939	773	1037	847	1136	902	1210	1105	1482	3000			
	2.478*	0.3242	0.4348	681	913	746	1000	794	1065	973	1304	3000			
	2.609*	0.3080	0.4130	647	867	708	950	755	1012	924	1239	3000			
ZF 500-1 IV 14 degrees	1.216*, 1.767*, 1.964	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	3000	230	507	SAE 1
	2.200	0.3837	0.5146	806	1081	883	1184	940	1261	1151	1544	3000			
	2.478*	0.3518	0.4718	739	991	809	1085	862	1156	1055	1415	3000			
	3.000*	0.2917	0.3912	613	822	671	900	715	958	875	1174	3000			
ZF 510 V 10 degrees	1.125*, 1.774*, 2.000, 2.222*	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	3000	200	441	
ZF 510-1 A 10 degrees	1.125*, 1.774, 2.000, 2.222	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	3000	193	425	SAE 0, 1
	2.480*	0.3654	0.4900	767	1029	840	1127	895	1201	1096	1470	3000			
ZF 550-1	1.111, 1.182*, 1.262*, 1.833*, 2.000	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	3000	242	534	SAE 0, 1
	2.233*, 2.593	0.3729	0.5001	783	1050	858	1150	914	1225	1119	1500	3000			
	3.042*	0.3059	0.4102	642	861	704	943	749	1005	918	1231	3000			
ZF 550-1 A 10 degrees	1.525*, 1.971, 2.226, 2.448	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	3000	256	564	SAE 0, 1
	2.517	0.3729	0.5001	783	1050	858	1150	914	1225	1119	1500	3000			
	2.960*	0.3246	0.4353	682	914	747	1001	795	1066	974	1306	3000			
ZF 550-1 V 10 degrees	1.525*, 1.971, 2.226, 2.448	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	3000	260	573	
	2.960*	0.3246	0.4353	682	914	747	1001	795	1066	974	1306	3000			
ZF 665	1.111, 1.182*, 1.262, 1.400*, 1.500*, 1.743, 2.000, 2.233*	0.4476	0.6002	940	1260	1029	1380	1097	1470	1343	1801	3000	248	547	SAE 0, 1
	2.593	0.3997	0.5360	839	1126	919	1233	979	1313	1199	1608	3000			
	3.042*	0.3518	0.4718	739	991	809	1085	862	1156	1055	1415	3000			
ZF 665 A 10 degrees	1.525*, 1.971, 2.226	0.4476	0.6002	940	1260	1029	1380	1097	1470	1343	1801	3000	253	558	SAE 0, 1
	2.517	0.3890	0.5217	817	1096	895	1200	953	1278	1167	1565	3000			
	2.960*	0.3524	0.4726	740	992	811	1087	863	1158	1057	1418	3000			
ZF 665 V 10 degrees	1.525*, 1.757, 1.971*, 2.226*	0.4476	0.6002	940	1260	1029	1380	1097	1470	1343	1801	3000	252	556	
	2.517	0.3890	0.5217	817	1096	895	1200	953	1278	1167	1565	3000			
	2.960*	0.3524	0.4726	740	992	811	1087	863	1158	1057	1418	3000			

* Special Order Ratio.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2300 rpm		2450 rpm							
ZF 2000	1.086*, 1.191*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519, 2.760*, 2.958	0.4580	0.6142	962	1290	1053	1413	1122	1504	1122	1504	2600	340	750	SAE 0, 1
ZF 2000 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*, 2.920	0.4580	0.6142	962	1290	1053	1413	1122	1504	1122	1504	2600	348	767	SAE 0, 1
	3.250*	0.3243	0.4349	681	913	746	1000	794	1064	794	1064	2600			
ZF 2000 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*, 2.920	0.4580	0.6142	962	1290	1053	1413	1122	1504	1122	1504	2600	352	776	
	3.250*	0.3243	0.4349	681	913	746	1000	794	1064	794	1064	2600			
ZF 2050	1.086*, 1.191*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.5028	0.6743	1056	1416	1156	1551	1231	1650	1231	1650	2600	342	754	SAE 0, 1
ZF 2050 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5028	0.6743	1056	1416	1156	1551	1231	1650	1231	1650	2600	350	772	SAE 0, 1
ZF 2050 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5028	0.6743	1056	1416	1156	1551	1231	1650	1231	1650	2600	354	780	
ZF 2060	1.086*, 1.191*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.5511	0.7390	1157	1552	1268	1700	1350	1811	1350	1811	2450	342	754	SAE 0, 1
ZF 2060 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5511	0.7390	1157	1552	1268	1700	1350	1811	1350	1811	2450	350	772	SAE 0, 1
ZF 2060 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5511	0.7390	1157	1552	1268	1700	1350	1811	1350	1811	2450	354	780	
				2000 rpm		2100 rpm		2300 rpm							
ZF 2070 ²	1.086*, 1.191*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.5844	0.7837	1169	1567	1227	1646	1344	1803	1344	1803	2300	342	754	SAE 0
ZF 2070 A ² 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5844	0.7837	1169	1567	1227	1646	1344	1803	1344	1803	2300	350	772	SAE 0
ZF 2070 V ² 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5844	0.7837	1169	1567	1227	1646	1344	1803	1344	1803	2300	354	780	
				2100 rpm		2300 rpm		2450 rpm							
ZF 2075 ²	1.086*, 1.191*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.5850	0.7845	1229	1647	1346	1804	1433	1922	1433	1922	2450	342	754	SAE 0
ZF 2075 A ² 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5850	0.7845	1229	1647	1346	1804	1433	1922	1433	1922	2450	350	772	SAE 0
ZF 2075 V ² 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5850	0.7845	1229	1647	1346	1804	1433	1922	1433	1922	2450	354	780	

² The ZF 2070 and ZF 2075 are not suitable for Surface-Drive applications.

* Special Order Ratio.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2300 rpm		2450 rpm							
ZF 2150	2.760*	0.5028	0.6743	1056	1416	1156	1551	1231	1650	1231	1650	2600	344	758	SAE 0, 1
	2.958	0.4802	0.6440	1008	1352	1104	1481	1176	1577	1176	1577	2600			
ZF 2150 A 10 degrees	2.714*, 2.920	0.5028	0.6743	1056	1416	1156	1551	1231	1650	1231	1650	2600	352	776	SAE 0, 1
	3.250*	0.4057	0.5441	852	1143	933	1251	993	1331	993	1331	2600			
ZF 2150 V 10 degrees	2.714*, 2.920	0.5028	0.6743	1056	1416	1156	1551	1231	1650	1231	1650	2600	356	785	
	3.250*	0.4057	0.5441	852	1143	933	1251	993	1331	993	1331	2600			
ZF 2200 ¹³	3.000, 3.519*	0.4580	0.6142	962	1290	1053	1413	1122	1504	1122	1504	2600	404	891	SAE 0, 1
ZF 2250 ¹³	3.000, 3.519*	0.5029	0.6744	1056	1416	1157	1551	1232	1652	1232	1652	2600	406	895	SAE 0, 1
ZF 2260 ¹³	3.000, 3.519*	0.5511	0.7390	1157	1552	1268	1700	1350	1811	1350	1811	2450	406	895	SAE 0, 1
				2000 rpm		2100 rpm		2300 rpm							
ZF 2270 ¹³	3.000	0.5840	0.7832	1168	1566	1226	1645	1343	1801	1343	1801	2300	406	895	SAE 0
				2100 rpm		2300 rpm		2450 rpm							
ZF 2275 ¹³	3.000	0.5850	0.7845	1229	1647	1346	1804	1433	1922	1433	1922	2450	406	895	SAE 0
ZF 2300 ⁸	4.000, 4.444	0.4580	0.6142	962	1290	1053	1413	1122	1504	1122	1504	2600	434	957	SAE 0, 1
ZF 2350 ⁸	4.000, 4.444	0.5029	0.6744	1056	1416	1157	1551	1232	1652	1232	1652	2600	436	961	SAE 0, 1
	4.760*	0.4802	0.6440	1008	1352	1104	1481	1176	1577	1176	1577	2600			
ZF 2360 ⁸	4.000, 4.444	0.5511	0.7390	1157	1552	1268	1700	1350	1811	1350	1811	2450	436	961	SAE 0, 1
				2000 rpm		2100 rpm		2300 rpm							
ZF 2370 ⁸	4.000, 4.444	0.5840	0.7832	1168	1566	1226	1645	1343	1801	1343	1801	2300	436	961	SAE 0
				2100 rpm		2300 rpm		2450 rpm							
ZF 2375 ⁸	4.000, 4.444	0.5850	0.7845	1229	1647	1346	1804	1433	1922	1433	1922	2450	436	961	SAE 0
ZF 3050	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.6165	0.8267	1295	1736	1418	1901	1510	2024	1510	2024	2600	482	1063	SAE 00, 0, 1
ZF 3050 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.6165	0.8267	1295	1736	1418	1901	1510	2024	1510	2024	2600	485	1069	SAE 0, 1
	3.280*	0.5354	0.7180	1124	1508	1231	1651	1311	1758	1311	1758	2600			

⁸ U-drive version also available.

¹³ No classification available.

* Special Order Ratio.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2300 rpm		2450 rpm							
ZF 3050 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.6165	0.8267	1295	1736	1418	1901	1510	2024	1510	2024	2600	482	1063	
ZF 3050 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.6165	0.8267	1295	1736	1418	1901	1510	2024	1510	2024	2600	500	1102	
	3.280*	0.5354	0.7180	1124	1508	1231	1651	1311	1758	1311	1758	2600			
ZF 3055	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.6489	0.8702	1363	1827	1492	2001	1589	2130	1589	2130	2600	487	1074	SAE 00, 0, 1
ZF 3055 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.6489	0.8702	1363	1827	1492	2001	1589	2130	1589	2130	2600	490	1080	SAE 0, 1
	3.280*	0.5841	0.7833	1227	1645	1343	1802	1431	1919	1431	1919	2600			
ZF 3055 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.6489	0.8702	1363	1827	1492	2001	1589	2130	1589	2130	2600	482	1063	
ZF 3055 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.6489	0.8702	1363	1827	1492	2001	1589	2130	1589	2130	2600	505	1113	
	3.280*	0.5841	0.7833	1227	1645	1343	1802	1431	1919	1431	1919	2600			
ZF 3060	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.7313	0.9807	1536	2059	1682	2256	1792	2403	1792	2403	2450	487	1074	SAE 00, 0, 1
ZF 3060 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.7313	0.9807	1536	2059	1682	2256	1792	2403	1792	2403	2450	490	1080	SAE 0, 1
	3.280*	0.6489	0.8702	1363	1827	1492	2001	1590	2132	1590	2132	2450			
ZF 3060 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.7313	0.9807	1536	2059	1682	2256	1792	2403	1792	2403	2450	482	1063	
ZF 3060 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.7313	0.9807	1536	2059	1682	2256	1792	2403	1792	2403	2450	505	1113	
	3.280*	0.6489	0.8702	1363	1827	1492	2001	1590	2132	1590	2132	2450			

³ “D” transmissions only for use in counter engine wise (CEW) condition. Engine wise (EW) operation only for waterjet flushing.
⁹ Left and Right version available.

* Special Order Ratio.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2300 rpm		2450 rpm							
ZF 3070	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*	0.7920	1.0621	1663	2230	1822	2443	1940	2602	1940	2602	2450	487	1074	SAE 00, 0, 1
ZF 3070 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*	0.7920	1.0621	1663	2230	1822	2443	1940	2602	1940	2602	2450	490	1080	SAE 0, 1
ZF 3070 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*	0.7920	1.0621	1663	2230	1822	2443	1940	2602	1940	2602	2450	505	1113	
ZF 3150 A ¹³ 10 degrees	1.257*, 1.500*, 1.759*, 1.963, 2.240, 2.478*	0.6165	0.8267	1295	1736	1418	1901	1510	2024	1510	2024	2600	470	1036	SAE 0, 1
ZF 3160 A ¹³ 10 degrees	1.257*, 1.500*, 1.759*, 1.963, 2.240, 2.478*	0.7313	0.9807	1536	2059	1682	2256	1792	2403	1792	2403	2450	470	1036	SAE 0, 1
ZF 3170 A ¹³ 10 degrees	1.257*, 1.500*, 1.759*, 1.963, 2.240	0.7923	1.0625	1664	2231	1822	2444	1941	2603	1941	2603	2450	470	1036	SAE 0, 1
ZF 3350 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.6165	0.8267	1295	1736	1418	1901	1510	2024	1510	2024	2600	665	1466	SAE 00, 0, 1
ZF 3355 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.6489	0.8702	1363	1827	1492	2001	1589	2130	1589	2130	2600	670	1477	SAE 00, 0, 1
ZF 3360 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.7313	0.9807	1536	2059	1682	2256	1792	2403	1792	2403	2450	670	1477	SAE 00, 0, 1
ZF 3370 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478	0.7920	1.0621	1663	2230	1822	2443	1940	2602	1940	2602	2450	670	1477	SAE 00, 0, 1
ZF 5000	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.8440	1.1318	1772	2377	1941	2603	2067	2771	2067	2771	2600	740	1631	SAE 00, 0
ZF 5000 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.8440	1.1318	1772	2377	1941	2603	2067	2771	2067	2771	2600	750	1653	SAE 00, 0
ZF 5000 D ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.8440	1.1318	1772	2377	1941	2603	2067	2771	2067	2771	2600	765	1687	
ZF 5000 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.8440	1.1318	1772	2377	1941	2603	2067	2771	2067	2771	2600	615	1356	
ZF 5000 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.8440	1.1318	1772	2377	1941	2603	2067	2771	2067	2771	2600	768	1693	
ZF 5050	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.9435	1.2653	1981	2657	2170	2910	2311	3099	2311	3099	2600	740	1631	SAE 00, 0
	2.963	0.9031	1.2111	1897	2543	2077	2786	2212	2966	2212	2966	2600			
ZF 5050 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.9435	1.2653	1981	2657	2170	2910	2311	3099	2311	3099	2600	750	1653	SAE 00, 0
	3.222*	0.8586	1.1514	1803	2418	1975	2648	2103	2820	2103	2820	2600			
	3.429*	0.7920	1.0621	1663	2230	1822	2443	1940	2601	1940	2601	2600			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹³ No classification available.

* Special Order Ratio.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2300 rpm		2450 rpm							
ZF 5050 D ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.9435	1.2653	1981	2657	2170	2910	2311	3099	2311	3099	2600	765	1687	
	2.963	0.9031	1.2111	1897	2543	2077	2786	2212	2966	2212	2966	2600			
ZF 5050 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.9435	1.2653	1981	2657	2170	2910	2311	3099	2311	3099	2600	615	1356	
	2.963	0.9031	1.2111	1897	2543	2077	2786	2212	2966	2212	2966	2600			
ZF 5050 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.9435	1.2653	1981	2657	2170	2910	2311	3099	2311	3099	2600	768	1693	
	3.222*	0.8586	1.1514	1803	2418	1975	2648	2103	2820	2103	2820	2600			
	3.429*	0.7920	1.0621	1663	2230	1822	2443	1940	2601	1940	2601	2600			
ZF 5060	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	1.0052	1.3480	2111	2831	2312	3100	2462	3301	2462	3301	2600	740	1631	SAE 00, 0
	2.963	0.9435	1.2653	1981	2657	2170	2910	2311	3099	2311	3099	2600			
ZF 5060 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	1.0052	1.3480	2111	2831	2312	3100	2462	3301	2462	3301	2600	750	1653	SAE 00, 0
	3.222*	0.9435	1.2653	1981	2657	2170	2910	2311	3099	2311	3099	2600			
	3.429*	0.9143	1.2261	1920	2575	2103	2820	2240	3003	2240	3003	2600			
ZF 5060 D ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	1.0052	1.3480	2111	2831	2312	3100	2462	3301	2462	3301	2600	765	1687	
	2.963	0.9435	1.2653	1981	2657	2170	2910	2311	3099	2311	3099	2600			
ZF 5060 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	1.0052	1.3480	2111	2831	2312	3100	2462	3301	2462	3301	2600	615	1356	
	2.963	0.9435	1.2653	1981	2657	2170	2910	2311	3099	2311	3099	2600			
ZF 5060 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	1.0052	1.3480	2111	2831	2312	3100	2462	3301	2462	3301	2600	768	1693	
	3.222*	0.9435	1.2653	1981	2657	2170	2910	2311	3099	2311	3099	2600			
	3.429*	0.9143	1.2261	1920	2575	2103	2820	2240	3003	2240	3003	2600			
ZF 5300 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.8440	1.1318	1772	2377	1941	2603	2067	2771	2067	2771	2600	950	2094	SAE 00, 0
ZF 5350 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.9435	1.2653	1981	2657	2170	2910	2311	3099	2311	3099	2600	950	2094	SAE 00, 0
ZF 5360 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	1.0052	1.3480	2111	2831	2312	3100	2462	3301	2462	3301	2600	950	2094	SAE 00, 0
	5.500	0.9110	1.2217	1913	2566	2095	2810	2231	2991	2231	2991	2600			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2000 rpm		2100 rpm							
ZF 7600	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3717	1.8395	2469	3311	2743	3679	2880	3862	2880	3862	2300	970	2138	SAE 00
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3647	2720	3647	2300			
ZF 7600 A 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.3717	1.8395	2469	3311	2743	3679	2880	3862	2880	3862	2300	1125	2480	SAE 00
	3.286*	1.3183	1.7679	2373	3182	2637	3536	2768	3711	2768	3711	2300			
	3.450*	1.2954	1.7372	2332	3127	2591	3474	2720	3647	2720	3647	2300			
ZF 7600 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3717	1.8395	2469	3311	2743	3679	2880	3862	2880	3862	2300	705	1554	
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3647	2720	3647	2300			
ZF 7600 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3717	1.8395	2469	3311	2743	3679	2880	3862	2880	3862	2300	705	1554	
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3647	2720	3647	2300			
ZF 7600 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3717	1.8395	2469	3311	2743	3679	2880	3862	2880	3862	2300	705	1554	
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3647	2720	3647	2300			
ZF 7600 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.3717	1.8395	2469	3311	2743	3679	2880	3862	2880	3862	2300	1125	2480	
	3.286*	1.3183	1.7679	2373	3182	2637	3536	2768	3711	2768	3711	2300			
	3.450*	1.2954	1.7372	2332	3127	2591	3474	2720	3647	2720	3647	2300			
ZF 7640	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.3717	1.8395	2469	3311	2743	3679	2880	3862	2880	3862	2300	1325	2921	SAE 00
ZF 7645	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	1325	2921	SAE 00
ZF 7650	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	970	2138	SAE 00
	3.174*	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300			
ZF 7650 A	1.486*, 2.033, 2.250*, 2.538, 2.957, 3.286*	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	1125	2480	SAE 00
	3.450*	1.3613	1.8255	2450	3286	2723	3651	2858	3832	2858	3832	2300			
ZF 7650 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	705	1554	
	3.174*	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300			
ZF 7650 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	720	1587	
	3.174*	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300			
ZF 7650 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	705	1554	
	3.174*	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300			

⁹ Left and Right version available.

* Special Order Ratio.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2000 rpm		2100 rpm							
ZF 7650 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957, 3.286*	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	1125	2480	
	3.450*	1.3613	1.8255	2450	3286	2723	3651	2858	3832	2858	3832	2300			
ZF 9055	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7595	2.3595	3167	4247	3519	4719	3694	4953	3694	4953	2300	1400	3086	SAE 00
	3.250*	1.6571	2.2222	2983	4000	3314	4444	3479	4665	3479	4665	2300			
	3.360*	1.6190	2.1711	2914	3908	3238	4342	3399	4558	3399	4558	2300			
	3.448*	1.5833	2.1232	2850	3822	3167	4246	3324	4457	3324	4457	2300			
ZF 9055 A 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.7595	2.3595	3167	4247	3519	4719	3694	4953	3694	4953	2300	1380	3042	SAE 00
	3.208*	1.6571	2.2222	2983	4000	3314	4444	3479	4665	3479	4665	2300			
	3.462*	1.5833	2.1232	2850	3822	3167	4246	3324	4457	3324	4457	2300			
ZF 9055 NR2	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7595	2.3595	3167	4247	3519	4719	3694	4953	3694	4953	2300	1040	2293	
	3.250*	1.6571	2.2222	2983	4000	3314	4444	3479	4665	3479	4665	2300			
	3.360*	1.6190	2.1711	2914	3908	3238	4342	3399	4558	3399	4558	2300			
	3.448*	1.5833	2.1232	2850	3822	3167	4246	3324	4457	3324	4457	2300			
ZF 9055 NR2B	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7595	2.3595	3167	4247	3519	4719	3694	4953	3694	4953	2300	1040	2293	
	3.250*	1.6571	2.2222	2983	4000	3314	4444	3479	4665	3479	4665	2300			
	3.360*	1.6190	2.1711	2914	3908	3238	4342	3399	4558	3399	4558	2300			
	3.448*	1.5833	2.1232	2850	3822	3167	4246	3324	4457	3324	4457	2300			
ZF 9055 NR2H ⁹	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7595	2.3595	3167	4247	3519	4719	3694	4953	3694	4953	2300	1040	2293	
	3.250*	1.6571	2.2222	2983	4000	3314	4444	3479	4665	3479	4665	2300			
	3.360*	1.6190	2.1711	2914	3908	3238	4342	3399	4558	3399	4558	2300			
	3.448*	1.5833	2.1232	2850	3822	3167	4246	3324	4457	3324	4457	2300			
ZF 9055 V 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.7595	2.3595	3167	4247	3519	4719	3694	4953	3694	4953	2300	1400	3086	
	3.208*	1.6571	2.2222	2983	4000	3314	4444	3479	4665	3479	4665	2300			
	3.462*	1.5833	2.1232	2850	3822	3167	4246	3324	4457	3324	4457	2300			

⁹ Left and Right version available.

* Special Order Ratio.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2000 rpm		2100 rpm							
ZF 9060	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1400	3086	SAE 00
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300			
	3.360*	1.6810	2.2543	3026	4058	3362	4509	3530	4733	3530	4733	2300			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 9060 A 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1380	3042	SAE 00
	3.208*	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300			
	3.462*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 9060 NR2	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1040	2293	
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300			
	3.360*	1.6810	2.2543	3026	4058	3362	4509	3530	4733	3530	4733	2300			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 9060 NR2B	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1040	2293	
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300			
	3.360*	1.6810	2.2543	3026	4058	3362	4509	3530	4733	3530	4733	2300			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 9060 NR2H ⁹	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1040	2293	
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300			
	3.360*	1.6810	2.2543	3026	4058	3362	4509	3530	4733	3530	4733	2300			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 9060 V 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1400	3086	
	3.208*	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300			
	3.462*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			

⁹ Left and Right version available.

* Special Order Ratio.

Pleasure Duty
Single Speed

P

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2000 rpm		2100 rpm							
ZF 9355 ^{8, 14}	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.7595	2.3595	3167	4247	3519	4719	3694	4953	3694	4953	2300	1910	4211	SAE 00
	4.783*	1.6571	2.2222	2983	4000	3314	4444	3480	4666	3480	4666	2300			
	4.958*	1.5833	2.1232	2850	3822	3167	4246	3324	4457	3324	4457	2300			
	5.185*	1.5119	2.0275	2721	3649	3024	4055	3174	4256	3174	4256	2300			
ZF 9356 ⁸	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.7595	2.3595	3167	4247	3519	4719	3694	4953	3694	4953	2300	2430	5357	SAE 00
	4.783*	1.6571	2.2222	2983	4000	3314	4444	3480	4666	3480	4666	2300			
	4.958*	1.5833	2.1232	2850	3822	3167	4246	3324	4457	3324	4457	2300			
	5.185*	1.5119	2.0275	2721	3649	3024	4055	3174	4256	3174	4256	2300			
ZF 9360 ^{8, 14}	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1910	4211	SAE 00
	4.783*	1.7595	2.3595	3167	4247	3519	4719	3695	4955	3695	4955	2300			
	4.958*	1.7048	2.2862	3069	4115	3410	4572	3580	4800	3580	4800	2300			
	5.185*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 9361 ⁸	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	2430	5357	SAE 00
	4.783*	1.7595	2.3595	3167	4247	3519	4719	3695	4955	3695	4955	2300			
	4.958*	1.7048	2.2862	3069	4115	3410	4572	3580	4800	3580	4800	2300			
	5.185*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			

⁸ U-drive version also available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

Pleasure Duty
Single Speed Gasoline

P

PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	'A' Pos	'B' Pos	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					3000 rpm		3600 rpm		3800 rpm							
ZF 25	1.969	1.969	0.0325	0.0436	98	131	117	157	124	166	179	240	5500	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	2.800	2.800	0.0251	0.0337	75	101	90	121	95	128	138	185	5500			
ZF 25 A 8 degrees	1.548	1.548	0.0325	0.0436	98	131	117	157	124	166	179	240	5500	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	1.926	1.926														
	2.480*	2.480*	0.0277	0.0371	83	111	100	134	105	141	152	204	5500			
	2.292	2.292	0.0262	0.0351	79	105	94	126	100	133	144	193	5500			
	2.714	2.714	0.0251	0.0337	75	101	90	121	95	128	138	185	5500			
					2800 rpm		3300 rpm		3800 rpm							
ZF 45 A 8 degrees	1.256	1.256	0.0471	0.0632	132	177	155	209	179	240	259	348	5500	28	62	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.514	1.514														
	2.034	2.034														
	2.435	2.435	0.0440	0.0590	123	165	145	195	167	224	242	325	5500			
ZF 45 C ¹	1.000	1.031	0.0555	0.0744	155	208	183	246	211	283	305	409	5500	31	68	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
ZF 45 IV ¹ 20 degrees	1.207	1.244	0.0555	0.0744	155	208	183	246	211	283	305	409	5500	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.462	1.507														
ZF 45-1 IV ¹ 20 degrees	1.207	1.244	0.0646	0.0866	181	242	213	286	245	329	355	476	5500	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.462	1.507														
ZF 48 IV ¹ 20 degrees	1.207	1.244	0.0712	0.0955	199	267	235	315	271	363	392	525	5500	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.462	1.507														
	1.727	1.780														
	1.950	2.010	0.0636	0.0853	178	239	210	281	242	324	350	469	5500			

¹ For ZF 45 C, ZF 45 IV, ZF 45-1 IV, ZF 48 IV and ZF 63 C
– full power in 'A' POS only, 'B' POS for docking and low speed.

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

Pleasure Duty
Single Speed Gasoline

P

PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	'A' Pos	'B' Pos	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					2800 rpm		3300 rpm		3800 rpm							
ZF 63	1.256	1.250	0.0712	0.0955	199	267	235	315	271	363	392	525	5500	46	101	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.514	1.521														
	1.750*	1.770														
	1.933	1.973	0.0591	0.0793	165	222	195	262	225	301	325	436	5500			
	2.480	2.476														
	2.783	2.799														
ZF 63 A 8 degrees	1.216	1.215	0.0712	0.0955	199	267	235	315	271	363	392	525	5500	44	97	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.563	1.583														
	2.037	2.017														
	2.522	2.536	0.0623	0.0835	174	234	206	276	237	317	343	459	5500			
	2.682	2.709														
ZF 63 C ¹	1.000	1.031	0.0712	0.0955	199	267	235	315	271	363	392	525	5500	32	71	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
ZF 63 IV 12 degrees	1.294	1.288	0.0712	0.0955	199	267	235	315	271	363	392	525	5500	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567														
	1.992	2.033														
	2.477	2.528	0.0659	0.0884	185	248	217	292	250	336	362	486	5500			
ZF 68 IV 12 degrees	1.294	1.288	0.0712	0.0955	199	267	235	315	271	363	427	573	6000	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567														
	1.746	1.749														
	1.992	2.033														
	2.477	2.528	0.0659	0.0884	185	248	217	292	250	336	395	530	6000			
					2800 rpm		3000 rpm		3300 rpm							
ZF 85 A 8 degrees	1.567	1.567	0.1114	0.1494	312	418	334	448	368	493	501	672	4500	69	152	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	1.750	1.750														
	1.962	1.962														
	2.500	2.500														

¹ For ZF 45 C, ZF 45 IV, ZF 45-1 IV, ZF 48 IV and ZF 63 C
– full power in 'A' POS only, 'B' POS for docking and low speed.

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

Pleasure Duty
2 Speed

P

PRODUCT	Ratios				Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	1st 'A'	1st 'B'	2nd 'A'	2nd 'B'	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
							2800 rpm		3300 rpm		3800 rpm							
ZF 90 ATS 8 degrees	1.216	1.215	0.946	0.945	0.0848	0.1137	237	318	280	375	322	432	466	625	5500	64	141	SAE 3, 3 CAT, B/W, Yanmar 4LH
	1.563	1.583	1.216	1.231														
	2.037	2.017	1.584	1.569														
ZF 90 IVTS 12 degrees	1.294	1.288	1.006	1.002	0.0848	0.1137	237	318	280	375	322	432	466	625	5500	82	181	SAE 3, 3 CAT, B/W, Yanmar 4LH
	1.560	1.567	1.213	1.219														
	1.992	2.033	1.549	1.581														
	2.477	2.528	1.927	1.967	0.0747	0.1002	209	281	247	331	284	381	411	551	5500			
ZF 90 TS	1.256	1.250	0.977	0.972	0.0848	0.1137	237	318	280	375	322	432	466	625	5500	67	148	SAE 3, 3 CAT, B/W, Yanmar 4LH
	1.514	1.521	1.178	1.183														
	1.933	1.973	1.503	1.535														
	2.480	2.476	1.929	1.926	0.0658	0.0882	184	247	217	291	250	335	362	485	5500			
	2.783	2.799	2.165	2.177														
							2600 rpm		2800 rpm		3300 rpm							
ZF 115 ATS 8 degrees	1.567	1.567	1.219	1.219	0.1114	0.1494	290	388	312	418	368	493	368	493	3300	82	181	SAE 2, 3, 3 CAT, B/W
	1.750	1.750	1.361	1.361														
	1.962	1.962	1.526	1.526														
	2.500	2.500	1.945	1.945														
ZF 115 IVTS 12 degrees	1.644	1.638	1.279	1.274	0.1114	0.1494	290	388	312	418	368	493	368	493	3300	107	236	SAE 2, 3, 3 CAT, B/W
	2.008	1.996	1.562	1.553														
	2.493	2.468	1.939	1.920														

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PRODUCT	Ratios		Power factor		Input power capacity						Max.	Max.	Max.	Weight		Bell hsgs. & notes
	1st	2nd	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp	kW	hp	rpm	kg	lb	
					1800 rpm		2100 rpm		2300 rpm							
ZF 325 ATS 7 degrees	1.216	0.968, 1.011, 1.062, 1.087, 1.113	0.2594	0.3479	467	626	545	731	597	800	649	870	2500	180	397	SAE 1
	1.485	1.182, 1.235, 1.297, 1.327, 1.359														
	1.733	1.380, 1.441, 1.514, 1.549, 1.586														
	2.037	1.622, 1.694, 1.779, 1.821, 1.864														
	2.240*	1.783, 1.862, 1.956, 2.002, 2.050														
	2.417	1.924, 2.009, 2.111, 2.160, 2.212	0.2334	0.3130	420	563	490	657	537	720	584	783	2500			
ZF 325 IVTS 14 degrees	1.216	0.968, 1.011, 1.062, 1.087, 1.113	0.2594	0.3479	467	626	545	731	597	800	649	870	2500	235	518	SAE 1
	1.485	1.182, 1.235, 1.297, 1.327, 1.359														
	1.733	1.380, 1.441, 1.514, 1.549, 1.586														
	1.793*	1.427, 1.490, 1.565, 1.603, 1.641														
	2.037	1.622, 1.694, 1.779, 1.821, 1.864														
	2.417	1.924, 2.009, 2.111, 2.160, 2.212	0.2334	0.3130	420	563	490	657	537	720	584	783	2500			
ZF 325 TS	1.000	0.796, 0.831, 0.873, 0.894, 0.915	0.2594	0.3479	467	626	545	731	597	800	649	870	2500	180	397	SAE 1
	1.167*	0.929, 0.970, 1.019, 1.043, 1.068														
	1.225*	0.975, 1.019, 1.070, 1.095, 1.121														
	1.459	1.162, 1.213, 1.275, 1.305, 1.336														
	1.727	1.375, 1.436, 1.509, 1.544, 1.581														
	2.033	1.619, 1.691, 1.776, 1.818, 1.861														
	2.250*	1.791, 1.871, 1.965, 2.011, 2.059														
	2.500	1.990, 2.079, 2.184, 2.235, 2.288	0.2334	0.3130	420	563	490	657	537	720	584	783	2500			
	2.957	2.354, 2.458, 2.582, 2.643, 2.706	0.2043	0.2740	368	493	429	575	470	630	511	685	2500			

* Special Order Ratio.

PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	1st	2nd	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					2100 rpm		2300 rpm		2450 rpm							
ZF 550-1 ATS 10 degrees	1.525	1.225, 1.277, 1.325, 1.363, 1.401	0.3602	0.4830	756	1014	828	1111	882	1183	901	1208	2500	356	785	SAE 1
	1.757*	1.411, 1.471, 1.526, 1.571, 1.613														
	1.971	1.583, 1.650, 1.712, 1.762, 1.810														
	2.517	2.022, 2.107, 2.187, 2.251, 2.312														
	2.960	2.377, 2.478, 2.572, 2.646, 2.718	0.3246	0.4353	682	914	747	1001	795	1066	812	1088	2500			
ZF 550-1 TS	1.111	0.892, 0.930, 0.965, 0.993, 1.020	0.3602	0.4830	756	1014	828	1111	882	1183	901	1208	2500	344	758	SAE 1
	1.182*	0.949, 0.989, 1.027, 1.057, 1.085														
	1.262*	1.013, 1.056, 1.096, 1.128, 1.159														
	1.400*	1.124, 1.172, 1.216, 1.252, 1.286														
	1.500	1.205, 1.256, 1.303, 1.341, 1.378														
	1.743	1.400, 1.459, 1.514, 1.558, 1.601														
	2.000	1.606, 1.674, 1.738, 1.788, 1.837														
	2.233	1.794, 1.870, 1.941, 1.997, 2.051														
	2.593	2.082, 2.171, 2.253, 2.318, 2.381														
	3.042	2.443, 2.547, 2.643, 2.719, 2.793	0.3058	0.4101	642	861	703	943	749	1005	765	1025	2500			

* Special Order Ratio.

PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	1st	2nd	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					2100 rpm		2300 rpm		2450 rpm							
ZF 665 ATS 10 degrees	1.525	1.225, 1.277, 1.325, 1.363, 1.401	0.4348	0.5831	913	1225	1000	1341	1065	1429	1087	1458	2500	353	778	SAE 1
	1.757	1.411, 1.471, 1.526, 1.571, 1.613														
	1.971	1.583, 1.650, 1.712, 1.762, 1.810														
	2.226	1.788, 1.863, 1.934, 1.990, 2.044														
	2.448	1.966, 2.050, 2.127, 2.189, 2.248	0.4156	0.5573	873	1170	956	1282	1018	1365	1039	1393	2500			
	2.517	2.022, 2.107, 2.187, 2.251, 2.312	0.3890	0.5217	817	1096	895	1200	953	1278	973	1304	2500			
	2.960	2.377, 2.478, 2.572, 2.646, 2.718	0.3524	0.4726	740	992	811	1087	863	1158	881	1182	2500			
ZF 665 TS	1.111	0.892, 0.930, 0.965, 0.993, 1.020	0.4348	0.5831	913	1225	1000	1341	1065	1429	1087	1458	2500	344	758	SAE 1
	1.182	0.949, 0.989, 1.027, 1.057, 1.085														
	1.262	1.013, 1.056, 1.096, 1.128, 1.159														
	1.400	1.124, 1.172, 1.216, 1.252, 1.286														
	1.500	1.205, 1.256, 1.303, 1.341, 1.378														
	1.743	1.400, 1.459, 1.514, 1.558, 1.601														
	2.000	1.606, 1.674, 1.738, 1.788, 1.837														
	2.233	1.794, 1.870, 1.941, 1.997, 2.051														
	2.593	2.082, 2.171, 2.253, 2.318, 2.381	0.3997	0.5360	839	1126	919	1233	979	1313	999	1340	2500			
	3.042	2.443, 2.547, 2.643, 2.719, 2.793	0.3518	0.4718	739	991	809	1085	862	1156	880	1180	2500			



Transmissions Light Duty

PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & hotes
	'A' Pos	'B' Pos	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					2800 rpm		3000 rpm		3600 rpm							
ZF 12 M ¹²	2.136	1.955	0.0118	0.0158	33	44	35	47	42	57	50	67	5000	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	2.632	1.955	0.0099	0.0133	28	37	30	40	36	48	50	67	5000			
ZF 15 M ¹²	1.556	1.955	0.0137	0.0184	38	52	41	55	49	66	50	67	5000	13	29	SAE 4, 5, 6, B/W, Yanmar JH Ratio 1.556 'B' Pos max torque 120 Nm. Ratio 1.875 'B' Pos max torque 120 Nm.
	1.875	1.955														
ZF 15 MA ¹² 8 degrees	1.875	1.955	0.0137	0.0184	38	52	41	55	49	66	50	67	5000	14	30	SAE 4, 5, 6, B/W, Yanmar JH Ratio 1.875 'B' Pos max torque 120 Nm.
	2.136	1.955	0.0118	0.0158	33	44	35	47	42	57	50	67	5000			
	2.632	1.955	0.0099	0.0133	28	37	30	40	36	48	50	67	5000			
ZF 15 MIV ¹² 15 degrees	2.134	2.224	0.0137	0.0184	38	52	41	55	49	66	50	67	5000	20	44	SAE 4, 5, B/W, Yanmar JH Ratio 2.134 'B' Pos max torque 120 Nm.
	2.718	2.224	0.0099	0.0133	28	37	30	40	36	48	50	67	5000			
	2.995	2.224														
					2100 rpm		2500 rpm		2800 rpm							
ZF 25	1.969	1.969	0.0249	0.0334	52	70	62	84	70	94	137	184	5500	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	2.800	2.800	0.0239	0.0321	50	67	60	80	67	90	131	177	5500			
ZF 25 A 8 degrees	1.548	1.548	0.0249	0.0334	52	70	62	84	70	94	137	184	5500	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	1.926	1.926														
	2.292	2.292														
	2.480*	2.480*														
	2.714	2.714	0.0239	0.0321	50	67	60	80	67	90	131	177	5500			
					2800 rpm		3000 rpm		3600 rpm							
ZF 25 M ¹²	1.880	2.095	0.0236	0.0316	66	88	71	95	72	96	72	96	5000	19	41	SAE 4, 5, B/W, Yanmar JH
	2.273	2.095	0.0194	0.0260	54	73	58	78	70	94	72	96	5000			
	2.737	2.722	0.0159	0.0213	45	60	48	64	57	77	72	96	5000			
ZF 25 MA ¹² 8 degrees	2.227	2.737	0.0194	0.0260	54	73	58	78	70	94	72	96	5000	21	46	SAE 4, 5, B/W, Yanmar JH Ratio 2.227 'B' Pos max torque 169 Nm.
	2.737	2.737	0.0159	0.0213	45	60	48	64	57	77	72	96	5000			
ZF 30 M ¹²	2.148	2.636	0.0216	0.0290	60	81	65	87	78	104	86	115	5000	23	51	4 & 5 Yanmar JH Ratio 2.148 'B' Pos max torque 185 Nm. Ratio 2.696 'B' Pos max torque 185 Nm.
	2.696	2.636														

¹² Reduced power capacity by the following shock factors: 1 cylinder engine ÷ 1.25, 2 cylinder engine ÷ 1.20, 3 cylinder engine ÷ 1.15

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

Light Duty Single Speed



PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & hotes
	'A' Pos	'B' Pos	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					2100 rpm		2500 rpm		2800 rpm							
ZF 45 A 8 degrees	1.256	1.256	0.0450	0.0603	95	127	113	151	126	169	248	332	5500	28	62	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.514	1.514														
	2.034	2.034														
	2.435	2.435	0.0418	0.0561	88	118	104	140	117	157	230	309	5500			
ZF 45 C ¹	1.000	1.031	0.0414	0.0555	87	117	104	139	116	155	228	305	5500	31	68	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
					2800 rpm		3300 rpm		3800 rpm							
ZF 45 IV ¹ 20 degrees	1.207	1.244	0.0414	0.0555	116	155	137	183	157	211	228	305	5500	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.462	1.507														
					2100 rpm		2500 rpm		2800 rpm							
ZF 45-1	2.200	2.200	0.0455	0.0610	96	128	114	153	127	171	250	336	5500	60	132	SAE 2, 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	2.512	2.512														
	3.031	3.031														
	3.741	3.741														
					2800 rpm		3300 rpm		3800 rpm							
ZF 45-1 IV ¹ 20 degrees	1.207	1.244	0.0482	0.0646	135	181	159	213	183	245	265	355	5500	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.462	1.507														
ZF 48 IV ¹ 20 degrees	1.207	1.244	0.0482	0.0646	135	181	159	213	183	245	265	355	5500	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.462	1.507														
	1.727	1.780														
	1.950	2.010														

¹ For ZF 45 C, ZF 45 IV, ZF 45-1 IV, ZF 48 IV and ZF 63 C
– full power in 'A' POS only, 'B' POS for docking and low speed.

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

Light Duty
Single Speed



PRODUCT	Ratios		Power factor		Input power capacity						Max.	Max.	Max.	Weight		Bell hsgs. & notes
	'A' Pos	'B' Pos	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp	kW	hp	rpm	kg	lb	
					2100 rpm		2500 rpm		2800 rpm							ZF 63
					142	191	170	227	190	255	373	500	5500	46	101	
					142	191	169	227	190	254	372	499	5500			
					118	159	141	189	158	211	310	415	5500			
																ZF 63 A 8 degrees
					143	191	170	228	190	255	373	501	5500	44	97	
					117	157	139	187	156	209	306	411	5500			
																ZF 63 C ¹
					105	141	125	168	140	188	275	369	5500	32	71	
																ZF 63 IV 12 degrees
					142	191	170	227	190	255	373	500	5500	62	137	
					132	177	157	211	176	236	345	463	5500			ZF 68 IV 12 degrees
					142	191	170	227	190	255	407	545	6000	62	137	
					132	177	157	211	176	236	377	505	6000			ZF 85 A 8 degrees
					219	294	261	350	292	392	469	630	4500	69	152	
					219	294	261	350	292	392	365	490	3500	86	190	ZF 85 IV 12 degrees

¹ For ZF 45 C, ZF 45 IV, ZF 45-1 IV, ZF 48 IV and ZF 63 C
– full power in 'A' POS only, 'B' POS for docking and low speed.

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2500 rpm		2800 rpm							
ZF 220	1.000, 1.128*, 1.237*, 1.400*, 1.500*, 1.963, 2.478	0.0887	0.1189	186	250	222	297	248	333	399	535	4500	63	139	SAE 2, 3, 3 CAT
	3.000	0.0769	0.1031	161	217	192	258	215	289	346	464	4500			
ZF 220 A 10 degrees	1.235*, 1.533, 1.750*, 2.040	0.0877	0.1176	184	247	219	294	246	329	395	529	4500	50	110	SAE 2, 3, 3 CAT, B/W
	2.455*	0.0789	0.1058	166	222	197	265	221	296	355	476	4500			
ZF 280 IV 14 degrees	1.252*, 1.561*, 1.772*, 2.063	0.1162	0.1558	244	327	291	390	325	436	418	561	3600	106	234	SAE 2, 3, 3 CAT
	2.276, 2.556*	0.1085	0.1455	228	306	271	364	304	407	391	524	3600			
	3.094*	0.0914	0.1226	192	257	229	307	256	343	329	441	3600			
ZF 280-1	0.814*, 1.000, 1.056*, 1.139*, 1.214*, 1.300, 1.514*, 2.000	0.1162	0.1558	244	327	291	390	325	436	418	561	3600	73	161	SAE 1, 2, 3, 3 CAT
	2.478	0.1085	0.1455	228	306	271	364	304	407	391	524	3600			
	3.000	0.1026	0.1376	215	289	257	344	287	385	369	495	3600			
ZF 280-1 A 7 degrees	1.118*, 1.483, 1.769, 2.000	0.1162	0.1558	244	327	291	390	325	436	418	561	3600	73	161	SAE 1, 2, 3, 3 CAT
	2.227, 2.476*	0.1085	0.1455	228	306	271	364	304	407	391	524	3600			
ZF 286	1.237*, 1.400*, 1.500, 1.966, 2.269	0.1545	0.2072	324	435	386	518	433	580	556	746	3600	86	190	SAE 1, 2, 3, 3 CAT
	0.923*, 1.000*	0.1491	0.1999	313	420	373	500	417	560	537	720	3600			
	2.481*	0.1372	0.1840	288	386	343	460	384	515	494	662	3600			
	2.917	0.1193	0.1600	251	336	298	400	334	448	429	576	3600			
ZF 286 A 7 degrees	1.200*, 1.484*, 1.750, 1.962	0.1545	0.2072	324	435	386	518	433	580	556	746	3600	77	170	SAE 1, 2, 3, 3 CAT
	2.208	0.1417	0.1900	298	399	354	475	397	532	510	684	3600			
	2.391	0.1343	0.1801	282	378	336	450	376	504	483	648	3600			
	2.500	0.1268	0.1700	266	357	317	425	355	476	456	612	3600			
ZF 286 IV 14 degrees	1.266*, 1.535, 2.011	0.1545	0.2072	324	435	386	518	433	580	556	746	3600	130	287	SAE 1, 2, 3, 3 CAT
	2.322*	0.1417	0.1900	298	399	354	475	397	532	510	684	3600			
	2.539	0.1372	0.1840	288	386	343	460	384	515	494	662	3600			
ZF 301-1 A 10 degrees	1.190*, 1.516*, 2.005, 2.551*, 2.901*	0.1157	0.1552	243	326	289	388	324	435	347	466	3000	87	192	SAE 1, 2, 3, 3 CAT
ZF 301-1 C	1.236*, 1.408*, 1.862, 2.694	0.1285	0.1723	270	362	321	431	360	482	386	517	3000	87	192	SAE 1, 2, 3, 3 CAT
	1.004*	0.0997	0.1337	209	281	249	334	279	374	299	401	3000			
				2100 rpm		2300 rpm		2500 rpm							
ZF 305-3	0.884*, 1.000*, 1.220, 1.486*, 1.968	0.1864	0.2500	391	525	429	575	466	625	559	750	3000	98	216	SAE 1, 2, 3
	2.250*	0.1755	0.2353	369	494	404	541	439	588	527	706	3000			
	2.500	0.1632	0.2189	343	460	375	503	408	547	490	657	3000			
	2.917	0.1461	0.1959	307	411	336	451	365	490	438	588	3000			

* Special Order Ratio.
B/W = Borg Warner adaptor.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2300 rpm		2500 rpm							
ZF 305-3 A 7 degrees	1.200*, 1.514, 1.733, 2.037	0.1864	0.2500	391	525	429	575	466	625	559	750	3000	97	214	SAE 1, 2, 3
	2.179	0.1755	0.2353	369	494	404	541	439	588	527	706	3000			
	2.423	0.1632	0.2189	343	460	375	503	408	547	490	657	3000			
ZF 325 IV 14 degrees	1.216, 1.485*, 1.733, 2.037	0.2340	0.3138	491	659	538	722	585	785	702	941	3000	185	408	SAE 1, 2
	2.417	0.2108	0.2827	443	594	485	650	527	707	632	848	3000			
ZF 325-1	1.000, 1.167*, 1.225*, 1.459*, 1.727, 2.033	0.2340	0.3138	491	659	538	722	585	785	702	941	3000	130	287	SAE 1
	2.500	0.2107	0.2826	442	593	485	650	527	707	632	848	3000			
	2.957	0.1881	0.2522	395	530	433	580	470	631	564	757	3000			
ZF 325-1 A 7 degrees	1.216*, 1.485, 1.733, 2.037, 2.240*	0.2340	0.3138	491	659	538	722	585	785	702	941	3000	130	287	SAE 1
	2.417	0.2108	0.2827	443	594	485	650	527	707	632	848	3000			
ZF 335 A 7 degrees	1.441*, 1.594*, 1.767, 1.964	0.2660	0.3567	559	749	612	820	665	892	798	1070	3000	159	351	SAE 1
	2.192*	0.2594	0.3479	545	731	597	800	649	870	778	1044	3000			
	2.458	0.2432	0.3261	511	685	559	750	608	815	730	978	3000			
ZF 335 IV 14 degrees	1.441*, 1.964*	0.2660	0.3567	559	749	612	820	665	892	798	1070	3000	215	474	SAE 1, 2
	2.192*	0.2594	0.3479	545	731	597	800	649	870	778	1044	3000			
	2.458	0.2432	0.3261	511	685	559	750	608	815	730	978	3000			
ZF 360	0.925*, 1.045*, 1.125*, 1.237*, 1.500, 1.774, 1.966, 2.185, 2.480, 2.625	0.2660	0.3567	559	749	612	820	665	892	798	1070	3000	185	408	SAE 0, 1
	2.917	0.2351	0.3153	494	662	541	725	588	788	705	946	3000			
ZF 360 A 7 degrees	1.216*, 1.485, 1.767, 1.964, 2.192, 2.478, 2.609	0.2660	0.3567	559	749	612	820	665	892	798	1070	3000	187	412	SAE 0, 1
ZF 360 IV 14 degrees	1.216, 1.767, 1.964*, 2.478*	0.2660	0.3567	559	749	612	820	665	892	798	1070	3000	230	507	SAE 1
				2100 rpm		2300 rpm		2450 rpm							
ZF 370 V 10 degrees	1.125*, 1.774*, 2.000, 2.222*, 2.480	0.2660	0.3567	559	749	612	820	652	874	798	1070	3000	194	428	
ZF 500	1.000*, 1.125, 1.237*, 1.500, 1.774*, 1.966	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435	3000	185	408	SAE 0, 1
	0.925*, 2.185*	0.3242	0.4348	681	913	746	1000	794	1065	973	1304	3000			
	2.480*	0.3080	0.4130	647	867	708	950	755	1012	924	1239	3000			
	2.625*	0.2917	0.3912	613	822	671	900	715	958	875	1174	3000			
	2.917*	0.2594	0.3479	545	731	597	800	636	852	778	1044	3000			

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes	
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb		
				2100 rpm		2300 rpm		2450 rpm								
ZF 500-1 A 7 degrees	1.216*, 1.485*, 1.767, 1.964	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435	3000	192	423	SAE 0, 1	
	2.192	0.3242	0.4348	681	913	746	1000	794	1065	973	1304	3000				
	2.478*	0.3080	0.4130	647	867	708	950	755	1012	924	1239	3000				
	2.609*	0.2917	0.3912	613	822	671	900	715	958	875	1174	3000				
ZF 500-1 IV 14 degrees	1.216*, 1.767*, 1.964	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435	3000	230	507	SAE 1	
	2.200	0.3242	0.4348	681	913	746	1000	794	1065	973	1304	3000				
	2.478*	0.3080	0.4130	647	867	708	950	755	1012	924	1239	3000				
	3.000*	0.2756	0.3696	579	776	634	850	675	906	827	1109	3000				
ZF 510 V 10 degrees	1.125*, 1.774*, 2.000	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435	3000	200	441		
	2.222*	0.3404	0.4565	715	959	783	1050	834	1118	1021	1370	3000				
ZF 510-1 A 10 degrees	1.125*, 1.774, 2.000	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435	3000	193	425	SAE 0, 1	
	2.222	0.3404	0.4565	715	959	783	1050	834	1118	1021	1370	3000				
	2.480*	0.3242	0.4348	681	913	746	1000	794	1065	973	1304	3000				
ZF 550-1	1.111, 1.182*, 1.262*, 1.833*, 2.000, 2.233*, 2.593	0.3246	0.4353	682	914	747	1001	795	1066	974	1306	3000	242	534	SAE 0, 1	
	3.042*	0.2759	0.3700	579	777	635	851	676	907	828	1110	3000				
ZF 550-1 A 10 degrees	1.525*, 1.971, 2.226, 2.448, 2.517	0.3246	0.4353	682	914	747	1001	795	1066	974	1306	3000	256	564	SAE 0, 1	
	2.960*	0.2759	0.3700	579	777	635	851	676	907	828	1110	3000				
ZF 550-1 V 10 degrees	1.525*, 1.971, 2.226, 2.448	0.3246	0.4353	682	914	747	1001	795	1066	974	1306	3000	260	573		
	2.960*	0.2759	0.3700	579	777	635	851	676	907	828	1110	3000				
ZF 665	1.111, 1.182*, 1.262, 1.400*, 1.500*, 1.743, 2.000	0.3729	0.5001	783	1050	858	1150	914	1225	1119	1500	3000	248	547	SAE 0, 1	
	2.233*, 2.593	0.3654	0.4900	767	1029	840	1127	895	1201	1096	1470	3000				
	3.042*	0.2917	0.3912	613	822	671	900	715	958	875	1174	3000				
ZF 665 A 10 degrees	1.525*, 1.971	0.3729	0.5001	783	1050	858	1150	914	1225	1119	1500	3000	253	558	SAE 0, 1	
	2.226	0.3654	0.4900	767	1029	840	1127	895	1201	1096	1470	3000				
	2.517	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435	3000				
	2.960*	0.2917	0.3912	613	822	671	900	715	958	875	1174	3000				
ZF 665 V 10 degrees	1.525*, 1.757, 1.971*	0.3729	0.5001	783	1050	858	1150	914	1225	1119	1500	3000	252	556		
	2.226*	0.3654	0.4900	767	1029	840	1127	895	1201	1096	1470	3000				
	2.517	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435	3000				
	2.960*	0.2917	0.3912	613	822	671	900	715	958	875	1174	3000				

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2300 rpm		2450 rpm							
ZF 2000	1.086*, 1.191*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519, 2.760*	0.4061	0.5446	853	1144	934	1253	994	1332	994	1332	2600	340	750	SAE 0, 1
	2.958	0.3758	0.5040	789	1058	864	1159	920	1233	920	1233	2600			
ZF 2000 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*, 2.920	0.4061	0.5446	853	1144	934	1253	994	1332	994	1332	2600	348	767	SAE 0, 1
	3.250*	0.2926	0.3924	614	824	673	903	716	960	716	960	2600			
ZF 2000 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*, 2.920	0.4061	0.5446	853	1144	934	1253	994	1332	994	1332	2600	352	776	
	3.250*	0.2926	0.3924	614	824	673	903	716	960	716	960	2600			
ZF 2050	1.086*, 1.191*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.4382	0.5876	920	1234	1008	1351	1073	1438	1073	1438	2600	342	754	SAE 0, 1
ZF 2050 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.4382	0.5876	920	1234	1008	1351	1073	1438	1073	1438	2600	350	772	SAE 0, 1
ZF 2050 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.4382	0.5876	920	1234	1008	1351	1073	1438	1073	1438	2600	354	780	
ZF 2150	2.760*	0.4382	0.5876	920	1234	1008	1351	1073	1438	1073	1438	2600	344	758	SAE 0, 1
	2.958	0.4057	0.5441	852	1143	933	1251	993	1331	993	1331	2600			
ZF 2150 A 10 degrees	2.714*, 2.920	0.4382	0.5876	920	1234	1008	1351	1073	1438	1073	1438	2600	352	776	SAE 0, 1
	3.250*	0.3717	0.4985	781	1047	855	1147	910	1220	910	1220	2600			
ZF 2150 V 10 degrees	2.714*, 2.920	0.4382	0.5876	920	1234	1008	1351	1073	1438	1073	1438	2600	356	785	
	3.250*	0.3717	0.4985	781	1047	855	1147	910	1220	910	1220	2600			
ZF 2200 ¹³	3.000, 3.519*	0.4062	0.5447	853	1144	934	1253	995	1334	995	1334	2600	404	891	SAE 0, 1
ZF 2250 ¹³	3.000, 3.519*	0.4382	0.5876	920	1234	1008	1351	1073	1438	1073	1438	2600	406	895	SAE 0, 1
ZF 2300 ⁸	4.000, 4.444	0.4062	0.5447	853	1144	934	1253	995	1334	995	1334	2600	434	957	SAE 0, 1
ZF 2350 ⁸	4.000, 4.444, 4.760*	0.4382	0.5876	920	1234	1008	1351	1073	1438	1073	1438	2600	436	961	SAE 0, 1
ZF 3000	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5062	0.6788	1063	1425	1164	1561	1240	1662	1240	1662	2600	482	1063	SAE 00, 0, 1
ZF 3000 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5062	0.6788	1063	1425	1164	1561	1240	1662	1240	1662	2600	485	1069	SAE 0, 1
	3.280*	0.4542	0.6091	954	1279	1045	1401	1112	1491	1112	1491	2600			
ZF 3000 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5062	0.6788	1063	1425	1164	1561	1240	1662	1240	1662	2600	500	1102	
	3.280*	0.4542	0.6091	954	1279	1045	1401	1112	1491	1112	1491	2600			

⁸ U-drive version also available.

¹³ No classification available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2300 rpm		2450 rpm							
ZF 3050	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5614	0.7528	1179	1581	1291	1731	1375	1843	1375	1843	2600	482	1063	SAE 00, 0, 1
ZF 3050 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5614	0.7528	1179	1581	1291	1731	1375	1843	1375	1843	2600	485	1069	SAE 0, 1
	3.280*	0.5062	0.6788	1063	1425	1164	1561	1240	1662	1240	1662	2600			
ZF 3050 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5614	0.7528	1179	1581	1291	1731	1375	1843	1375	1843	2600	482	1063	
ZF 3050 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5614	0.7528	1179	1581	1291	1731	1375	1843	1375	1843	2600	500	1102	
	3.280*	0.5062	0.6788	1063	1425	1164	1561	1240	1662	1240	1662	2600			
ZF 3055	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5847	0.7841	1228	1647	1345	1803	1432	1920	1432	1920	2600	487	1074	SAE 00, 0, 1
ZF 3055 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5847	0.7841	1228	1647	1345	1803	1432	1920	1432	1920	2600	490	1080	SAE 0, 1
	3.280*	0.5354	0.7180	1124	1508	1231	1651	1311	1758	1311	1758	2600			
ZF 3055 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5847	0.7841	1228	1647	1345	1803	1432	1920	1432	1920	2600	482	1063	
ZF 3055 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5847	0.7841	1228	1647	1345	1803	1432	1920	1432	1920	2600	505	1113	
	3.280*	0.5354	0.7180	1124	1508	1231	1651	1311	1758	1311	1758	2600			
ZF 3060	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	2450	487	1074	SAE 00, 0, 1
ZF 3060 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	2450	490	1080	SAE 0, 1
	3.280*	0.6002	0.8049	1260	1690	1380	1851	1470	1972	1470	1972	2450			

³ “D” transmissions only for use in counter engine wise (CEW) condition. Engine wise (EW) operation only for waterjet flushing.
⁹ Left and Right version available.

* Special Order Ratio.

Light Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2300 rpm		2450 rpm							
ZF 3060 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	2450	482	1063	
ZF 3060 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	2450	505	1113	
	3.280*	0.6002	0.8049	1260	1690	1380	1851	1470	1972	1470	1972	2450			
ZF 3150 A ¹³ 10 degrees	1.257*, 1.500*, 1.759*, 1.963, 2.240, 2.478*	0.5614	0.7528	1179	1581	1291	1731	1375	1843	1375	1843	2600	470	1036	SAE 0, 1
ZF 3160 A ¹³ 10 degrees	1.257*, 1.500*, 1.759*, 1.963, 2.240, 2.478*	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	2450	470	1036	SAE 0, 1
ZF 3310 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5052	0.6775	1061	1423	1162	1558	1237	1658	1237	1658	2600	665	1466	SAE 00, 0, 1
ZF 3311 ^{8, 14}	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5052	0.6775	1061	1423	1162	1558	1237	1658	1237	1658	2600	850	1874	SAE 00, 0, 1
ZF 3350 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5614	0.7528	1179	1581	1291	1731	1375	1843	1375	1843	2600	665	1466	SAE 00, 0, 1
ZF 3351 ^{8, 14}	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5614	0.7528	1179	1581	1291	1731	1375	1843	1375	1843	2600	850	1874	SAE 00, 0, 1
ZF 3355 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5847	0.7841	1228	1647	1345	1803	1432	1920	1432	1920	2600	670	1477	SAE 00, 0, 1
ZF 3356 ^{8, 14}	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5847	0.7841	1228	1647	1345	1803	1432	1920	1432	1920	2600	855	1885	SAE 00, 0, 1
ZF 3360 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	2450	670	1477	SAE 00, 0, 1
ZF 3361 ^{8, 14}	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	2450	850	1874	SAE 00, 0, 1
ZF 3711 ⁸	3.767*, 4.259*, 5.545, 5.952	0.5052	0.6775	1061	1423	1162	1558	1237	1658	1237	1658	2600	920	2028	SAE 0, 1
ZF 3751 ⁸	3.767*, 4.259*, 5.545, 5.952	0.5614	0.7528	1179	1581	1291	1731	1375	1843	1375	1843	2600	920	2028	SAE 0, 1
ZF 3756 ⁸	3.767*, 4.259*, 5.545, 5.952	0.5847	0.7841	1228	1647	1345	1803	1432	1920	1432	1920	2600	920	2028	SAE 0, 1
ZF 3761 ⁸	3.767*, 4.259*, 5.545, 5.952	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	2450	920	2028	SAE 0, 1

³ “D” transmissions only for use in counter engine wise (CEW) condition. Engine wise (EW) operation only for waterjet flushing.
⁸ U-drive version also available.
⁹ Left and Right version available.
¹³ No classification available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2100 rpm		2300 rpm							
ZF 5000	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.7508	1.0068	1351	1812	1577	2114	1726	2314	1726	2314	2600	740	1631	SAE 00, 0
ZF 5000 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7508	1.0068	1351	1812	1577	2114	1726	2314	1726	2314	2600	750	1653	SAE 00, 0
	3.222*	0.6675	0.8951	1202	1611	1402	1880	1535	2058	1535	2058	2600			
ZF 5000 D ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.7508	1.0068	1351	1812	1577	2114	1726	2314	1726	2314	2600	765	1687	
ZF 5000 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.7508	1.0068	1351	1812	1577	2114	1726	2314	1726	2314	2600	615	1356	
ZF 5000 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7508	1.0068	1351	1812	1577	2114	1726	2314	1726	2314	2600	768	1693	
	3.222*	0.6675	0.8951	1202	1611	1402	1880	1535	2058	1535	2058	2600			
ZF 5050	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2106	2824	2600	740	1631	SAE 00, 0
	2.963	0.8717	1.1690	1569	2104	1831	2455	2004	2687	2004	2687	2600			
ZF 5050 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2106	2824	2600	750	1653	SAE 00, 0
	3.222*	0.8272	1.1093	1489	1997	1737	2330	1902	2550	1902	2550	2600			
	3.429*	0.7508	1.0068	1351	1812	1577	2114	1726	2314	1726	2314	2600			
ZF 5050 D ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.9110	1.2217	1640	2199	1913	2566	2095	2809	2095	2809	2600	765	1687	
	2.963	0.8717	1.1690	1569	2104	1831	2455	2004	2687	2004	2687	2600			
ZF 5050 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2106	2824	2600	615	1356	
	2.963	0.8717	1.1690	1569	2104	1831	2455	2004	2687	2004	2687	2600			
ZF 5050 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2106	2824	2600	768	1693	
	3.222*	0.8272	1.1093	1489	1997	1737	2330	1902	2550	1902	2550	2600			
	3.429*	0.7508	1.0068	1351	1812	1577	2114	1726	2314	1726	2314	2600			
ZF 5060	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.9738	1.3059	1753	2351	2045	2742	2239	3002	2239	3002	2600	740	1631	SAE 00, 0
	2.963	0.9435	1.2653	1698	2278	1981	2657	2170	2910	2170	2910	2600			
ZF 5060 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.9738	1.3059	1753	2351	2045	2742	2239	3002	2239	3002	2600	750	1653	SAE 00, 0
	3.222*	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2106	2824	2600			
	3.429*	0.8483	1.1376	1527	2048	1781	2389	1951	2616	1951	2616	2600			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2100 rpm		2300 rpm							
ZF 5060 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.9738	1.3059	1753	2351	2045	2742	2239	3002	2239	3002	2600	615	1356	
	2.963	0.9435	1.2653	1698	2278	1981	2657	2170	2910	2170	2910	2600			
ZF 5060 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.9738	1.3059	1753	2351	2045	2742	2239	3002	2239	3002	2600	768	1693	
	3.222*	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2106	2824	2600			
	3.429*	0.8483	1.1376	1527	2048	1781	2389	1951	2616	1951	2616	2600			
ZF 5300 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.7508	1.0068	1351	1812	1577	2114	1726	2314	1726	2314	2600	950	2094	SAE 00, 0
ZF 5311 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.7508	1.0068	1351	1812	1577	2114	1726	2314	1726	2314	2600	1290	2844	SAE 00, 0
ZF 5350 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2106	2824	2600	950	2094	SAE 00, 0
ZF 5351 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2106	2824	2600	1290	2844	SAE 00, 0
ZF 5360 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464	0.9738	1.3059	1753	2351	2045	2742	2239	3002	2239	3002	2600	950	2094	SAE 00, 0
	5.040	0.9435	1.2653	1698	2278	1981	2657	2170	2910	2170	2910	2600			
	5.500	0.8717	1.1690	1569	2104	1831	2455	2004	2687	2004	2687	2600			
ZF 5361 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464	0.9738	1.3059	1753	2351	2045	2742	2239	3002	2239	3002	2600	1290	2844	SAE 00, 0
	5.040	0.9435	1.2653	1698	2278	1981	2657	2170	2910	2170	2910	2600			
	5.500	0.8717	1.1690	1569	2104	1831	2455	2004	2687	2004	2687	2600			
				1800 rpm		2000 rpm		2100 rpm							
ZF 7600	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300	970	2138	SAE 00
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3647	2720	3647	2300			
ZF 7600 A 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300	1125	2480	SAE 00
	3.286*	1.3088	1.7551	2356	3159	2618	3510	2748	3685	2748	3685	2300			
	3.450*	1.2954	1.7372	2332	3127	2591	3474	2720	3647	2720	3647	2300			
ZF 7600 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300	705	1554	
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3647	2720	3647	2300			

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2000 rpm		2100 rpm							
ZF 7600 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300	705	1554	
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3647	2720	3647	2300			
ZF 7600 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300	705	1554	
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3647	2720	3647	2300			
ZF 7600 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300	1125	2480	
	3.286*	1.3088	1.7551	2356	3159	2618	3510	2748	3685	2748	3685	2300			
	3.450*	1.2954	1.7372	2332	3127	2591	3474	2720	3647	2720	3647	2300			
ZF 7640	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300	1325	2921	SAE 00
	4.500	1.0000	1.3410	1800	2414	2000	2682	2100	2816	2100	2816	2300			
ZF 7641	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300	1750	3858	SAE 00
	4.500	1.0000	1.3410	1800	2414	2000	2682	2100	2816	2100	2816	2300			
ZF 7645	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	1325	2921	SAE 00
	4.500	1.0000	1.3410	1800	2414	2000	2682	2100	2816	2100	2816	2300			
ZF 7646	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	1750	3858	SAE 00
	4.500	1.0000	1.3410	1800	2414	2000	2682	2100	2816	2100	2816	2300			
ZF 7650	1.545*, 1.828*, 2.037	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	970	2138	SAE 00
	2.231*	1.3822	1.8536	2488	3336	2764	3707	2902	3891	2902	3891	2300			
	2.565	1.3508	1.8115	2431	3261	2702	3623	2836	3803	2836	3803	2300			
	2.773*	1.3351	1.7904	2403	3223	2670	3581	2803	3758	2803	3758	2300			
	2.905	1.3194	1.7693	2375	3185	2639	3539	2770	3714	2770	3714	2300			
	3.174*	1.2984	1.7412	2337	3134	2597	3482	2726	3655	2726	3655	2300			
ZF 7650 A 8 degrees	1.486*, 2.033	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	1125	2480	SAE 00
	2.250*	1.3822	1.8536	2488	3336	2764	3707	2902	3891	2902	3891	2300			
	2.538	1.3508	1.8115	2431	3261	2702	3623	2836	3803	2836	3803	2300			
	2.957	1.2984	1.7412	2337	3134	2597	3482	2726	3655	2726	3655	2300			
	3.286*	1.2565	1.6850	2262	3033	2513	3370	2638	3537	2638	3537	2300			
	3.450*	1.2356	1.6570	2224	2983	2471	3314	2594	3478	2594	3478	2300			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2000 rpm		2100 rpm							
ZF 7650 NR2	1.545*, 1.828*, 2.037	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	705	1554	
	2.231*	1.3822	1.8536	2488	3336	2764	3707	2902	3891	2902	3891	2300			
	2.565	1.3508	1.8115	2431	3261	2702	3623	2836	3803	2836	3803	2300			
	2.773*	1.3351	1.7904	2403	3223	2670	3581	2803	3758	2803	3758	2300			
	2.905	1.3194	1.7693	2375	3185	2639	3539	2770	3714	2770	3714	2300			
	3.174*	1.2984	1.7412	2337	3134	2597	3482	2726	3655	2726	3655	2300			
ZF 7650 NR2B	1.545*, 1.828*, 2.037	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	720	1587	
	2.231*	1.3822	1.8536	2488	3336	2764	3707	2902	3891	2902	3891	2300			
	2.565	1.3508	1.8115	2431	3261	2702	3623	2836	3803	2836	3803	2300			
	2.773*	1.3351	1.7904	2403	3223	2670	3581	2803	3758	2803	3758	2300			
	2.905	1.3194	1.7693	2375	3185	2639	3539	2770	3714	2770	3714	2300			
	3.174*	1.2984	1.7412	2337	3134	2597	3482	2726	3655	2726	3655	2300			
ZF 7650 NR2H ⁹	1.545*, 1.828*, 2.037	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	705	1554	
	2.231*	1.3822	1.8536	2488	3336	2764	3707	2902	3891	2902	3891	2300			
	2.565	1.3508	1.8115	2431	3261	2702	3623	2836	3803	2836	3803	2300			
	2.773*	1.3351	1.7904	2403	3223	2670	3581	2803	3758	2803	3758	2300			
	2.905	1.3194	1.7693	2375	3185	2639	3539	2770	3714	2770	3714	2300			
	3.174*	1.2984	1.7412	2337	3134	2597	3482	2726	3655	2726	3655	2300			
ZF 7650 V 8 degrees	1.486*, 2.033	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	1125	2480	
	2.250*	1.3822	1.8536	2488	3336	2764	3707	2902	3891	2902	3891	2300			
	2.538	1.3508	1.8115	2431	3261	2702	3623	2836	3803	2836	3803	2300			
	2.957	1.2984	1.7412	2337	3134	2597	3482	2726	3655	2726	3655	2300			
	3.286*	1.2565	1.6850	2262	3033	2513	3370	2638	3537	2638	3537	2300			
	3.450*	1.2356	1.6570	2224	2983	2471	3314	2594	3478	2594	3478	2300			
ZF 7661	4.577*, 4.760*, 5.000, 5.435, 5.952	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300	2520	5556	SAE 00
	6.250	1.2254	1.6433	2206	2958	2451	3287	2573	3450	2573	3450	2300			
	6.500*	1.2245	1.6421	2204	2956	2449	3284	2571	3447	2571	3447	2300			
	6.833*	0.9870	1.3236	1777	2382	1974	2647	2072	2778	2072	2778	2300			
ZF 7666	4.577*, 4.760*, 5.000, 5.435, 5.952	1.4031	1.8816	2526	3387	2806	3763	2946	3950	2946	3950	2300	2520	5556	SAE 00
	6.250	1.3403	1.7974	2413	3235	2681	3595	2814	3773	2814	3773	2300			
	6.500*	1.2245	1.6421	2204	2956	2449	3284	2571	3447	2571	3447	2300			
	6.833*	0.9870	1.3236	1777	2382	1974	2647	2072	2778	2072	2778	2300			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW		hp		kW					hp		
				1800 rpm		2000 rpm		2100 rpm							
ZF 9000	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3150	4224	2300	1400	3086	SAE 00
	3.250*	1.4143	1.8966	2546	3414	2829	3793	2970	3982	2970	3982	2300			
	3.360*	1.3810	1.8520	2486	3334	2762	3704	2900	3888	2900	3888	2300			
	3.448*	1.3524	1.8136	2434	3264	2705	3627	2840	3808	2840	3808	2300			
ZF 9000 A 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3150	4224	2300	1380	3042	SAE 00
	3.208*	1.4143	1.8966	2546	3414	2829	3793	2970	3982	2970	3982	2300			
	3.462*	1.3524	1.8136	2434	3264	2705	3627	2840	3808	2840	3808	2300			
ZF 9000 NR2	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3150	4224	2300	1040	2293	
	3.250*	1.4143	1.8966	2546	3414	2829	3793	2970	3982	2970	3982	2300			
	3.360*	1.3810	1.8520	2486	3334	2762	3704	2900	3888	2900	3888	2300			
	3.448*	1.3524	1.8136	2434	3264	2705	3627	2840	3808	2840	3808	2300			
ZF 9000 NR2B	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3150	4224	2300	1040	2293	
	3.250*	1.4143	1.8966	2546	3414	2829	3793	2970	3982	2970	3982	2300			
	3.360*	1.3810	1.8520	2486	3334	2762	3704	2900	3888	2900	3888	2300			
	3.448*	1.3524	1.8136	2434	3264	2705	3627	2840	3808	2840	3808	2300			
ZF 9000 NR2H ⁹	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3150	4224	2300	1040	2293	
	3.250*	1.4143	1.8966	2546	3414	2829	3793	2970	3982	2970	3982	2300			
	3.360*	1.3810	1.8520	2486	3334	2762	3704	2900	3888	2900	3888	2300			
	3.448*	1.3524	1.8136	2434	3264	2705	3627	2840	3808	2840	3808	2300			
ZF 9000 V 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3150	4224	2300	1400	3086	
	3.208*	1.4143	1.8966	2546	3414	2829	3793	2970	3982	2970	3982	2300			
	3.462*	1.3524	1.8136	2434	3264	2705	3627	2840	3808	2840	3808	2300			
ZF 9050	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300	1400	3086	SAE 00
	3.250*	1.5429	2.0691	2777	3724	3086	4138	3240	4344	3240	4344	2300			
	3.360*	1.5048	2.0180	2709	3632	3010	4036	3160	4237	3160	4237	2300			
	3.448*	1.4738	1.9764	2653	3558	2948	3953	3094	4149	3094	4149	2300			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2000 rpm		2100 rpm							
ZF 9050 A 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300	1380	3042	SAE 00
	3.208*	1.5429	2.0691	2777	3724	3086	4138	3240	4344	3240	4344	2300			
	3.462*	1.4738	1.9764	2653	3558	2948	3953	3094	4149	3094	4149	2300			
ZF 9050 NR2	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300	1040	2293	
	3.250*	1.5429	2.0691	2777	3724	3086	4138	3240	4344	3240	4344	2300			
	3.360*	1.5048	2.0180	2709	3632	3010	4036	3160	4237	3160	4237	2300			
	3.448*	1.4738	1.9764	2653	3558	2948	3953	3094	4149	3094	4149	2300			
ZF 9050 NR2B	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300	1040	2293	
	3.250*	1.5429	2.0691	2777	3724	3086	4138	3240	4344	3240	4344	2300			
	3.360*	1.5048	2.0180	2709	3632	3010	4036	3160	4237	3160	4237	2300			
	3.448*	1.4738	1.9764	2653	3558	2948	3953	3094	4149	3094	4149	2300			
ZF 9050 NR2H ⁹	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300	1040	2293	
	3.250*	1.5429	2.0691	2777	3724	3086	4138	3240	4344	3240	4344	2300			
	3.360*	1.5048	2.0180	2709	3632	3010	4036	3160	4237	3160	4237	2300			
	3.448*	1.4738	1.9764	2653	3558	2948	3953	3094	4149	3094	4149	2300			
ZF 9050 V 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300	1400	3086	
	3.208*	1.5429	2.0691	2777	3724	3086	4138	3240	4344	3240	4344	2300			
	3.462*	1.4738	1.9764	2653	3558	2948	3953	3094	4149	3094	4149	2300			
ZF 9055	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300	1400	3086	SAE 00
	3.250*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
	3.360*	1.5976	2.1424	2876	3856	3195	4285	3354	4497	3354	4497	2300			
	3.448*	1.5652	2.0990	2817	3778	3130	4198	3286	4406	3286	4406	2300			
ZF 9055 A 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300	1380	3042	SAE 00
	3.208*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
	3.462*	1.5652	2.0990	2817	3778	3130	4198	3286	4406	3286	4406	2300			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2000 rpm		2100 rpm							
ZF 9055 NR2	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300	1040	2293	
	3.250*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
	3.360*	1.5976	2.1424	2876	3856	3195	4285	3354	4497	3354	4497	2300			
	3.448*	1.5652	2.0990	2817	3778	3130	4198	3286	4406	3286	4406	2300			
ZF 9055 NR2B	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300	1040	2293	
	3.250*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
	3.360*	1.5976	2.1424	2876	3856	3195	4285	3354	4497	3354	4497	2300			
	3.448*	1.5652	2.0990	2817	3778	3130	4198	3286	4406	3286	4406	2300			
ZF 9055 NR2H ⁹	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300	1040	2293	
	3.250*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
	3.360*	1.5976	2.1424	2876	3856	3195	4285	3354	4497	3354	4497	2300			
	3.448*	1.5652	2.0990	2817	3778	3130	4198	3286	4406	3286	4406	2300			
ZF 9055 V 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300	1400	3086	
	3.208*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
	3.462*	1.5652	2.0990	2817	3778	3130	4198	3286	4406	3286	4406	2300			
ZF 9060	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1400	3086	SAE 00
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300			
	3.360*	1.6810	2.2543	3026	4058	3362	4509	3530	4733	3530	4733	2300			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 9060 A 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1380	3042	SAE 00
	3.208*	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300			
	3.462*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 9060 NR2	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1040	2293	
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300			
	3.360*	1.6810	2.2543	3026	4058	3362	4509	3530	4733	3530	4733	2300			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2000 rpm		2100 rpm							
ZF 9060 NR2B	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1040	2293	
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300			
	3.360*	1.6810	2.2543	3026	4058	3362	4509	3530	4733	3530	4733	2300			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 9060 NR2H ⁹	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1040	2293	
	2.957	1.8252	2.4476	3285	4406	3650	4895	3832	5138	3832	5138	2300			
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300			
	3.360*	1.6810	2.2543	3026	4058	3362	4509	3530	4733	3530	4733	2300			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 9060 V 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1400	3086	
	3.208*	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300			
	3.462*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 9300 ^{8, 14}	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3150	4224	2300	1910	4211	SAE 00
	4.783*	1.4143	1.8966	2546	3414	2829	3793	2970	3982	2970	3982	2300			
	4.958*	1.3524	1.8136	2434	3264	2705	3627	2840	3808	2840	3808	2300			
	5.185*	1.2952	1.7369	2331	3126	2590	3474	2719	3646	2719	3646	2300			
ZF 9311 ⁸	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3150	4224	2300	2430	5357	SAE 00
	4.783*	1.4143	1.8966	2546	3414	2829	3793	2970	3982	2970	3982	2300			
	4.958*	1.3524	1.8136	2434	3264	2705	3627	2840	3808	2840	3808	2300			
	5.185*	1.2952	1.7369	2331	3126	2590	3474	2719	3646	2719	3646	2300			
ZF 9350 ^{8, 14}	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300	1910	4211	SAE 00
	4.783*	1.5429	2.0691	2777	3724	3086	4138	3240	4344	3240	4344	2300			
	4.958*	1.4738	1.9764	2653	3558	2948	3953	3094	4149	3094	4149	2300			
	5.185*	1.4071	1.8870	2533	3397	2814	3774	2954	3961	2954	3961	2300			

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2000 rpm		2100 rpm							
ZF 9351 ⁸	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300	2430	5357	SAE 00
	4.783*	1.5429	2.0691	2777	3724	3086	4138	3240	4344	3240	4344	2300			
	4.958*	1.4738	1.9764	2653	3558	2948	3953	3094	4149	3094	4149	2300			
	5.185*	1.4071	1.8870	2533	3397	2814	3774	2954	3961	2954	3961	2300			
ZF 9355 ^{8, 14}	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300	1910	4211	SAE 00
	4.783*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
	4.958*	1.5652	2.0990	2817	3778	3130	4198	3286	4406	3286	4406	2300			
	5.185*	1.4952	2.0051	2691	3609	2990	4010	3139	4209	3139	4209	2300			
ZF 9356 ⁸	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.7381	2.3308	3129	4195	3476	4662	3650	4894	3650	4894	2300	2430	5357	SAE 00
	4.783*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
	4.958*	1.5652	2.0990	2817	3778	3130	4198	3286	4406	3286	4406	2300			
	5.185*	1.4952	2.0051	2691	3609	2990	4010	3139	4209	3139	4209	2300			
ZF 9360 ^{8, 14}	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	1910	4211	SAE 00
	4.783*	1.7595	2.3595	3167	4247	3519	4719	3695	4955	3695	4955	2300			
	4.958*	1.7048	2.2862	3069	4115	3410	4572	3580	4800	3580	4800	2300			
	5.185*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 9361 ⁸	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.8590	2.4930	3346	4487	3718	4986	3903	5234	3903	5234	2300	2430	5357	SAE 00
	4.783*	1.7595	2.3595	3167	4247	3519	4719	3695	4955	3695	4955	2300			
	4.958*	1.7048	2.2862	3069	4115	3410	4572	3580	4800	3580	4800	2300			
	5.185*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3440	4613	2300			
ZF 23560 C (IV=1.000)	1.721, 2.278, 2.839, 3.577	2.6639	3.5723	4795	6430	5328	7145	5594	7502	5594	7502	2100	2600	5732	
ZF 23560 C (IV=1.130)	4.042	2.3574	3.1613	4243	5690	4715	6323	4951	6639	4951	6639	2100	2600	5732	
ZF 23560 C (IV=1.273)	4.552*	2.0926	2.8062	3767	5051	4185	5612	4394	5893	4394	5893	2100	2600	5732	
ZF 23560 C (IV=1.432)	5.122*	1.8601	2.4944	3348	4490	3720	4989	3906	5238	3906	5238	2100	2600	5732	

⁸ U-drive version also available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW		hp		kW					hp		
				750 rpm		900 rpm		1000 rpm							
ZF 23860 C (IV=0.492)	0.697*, 0.847*, 1.121*, 1.397*, 1.760*	5.4141	7.2604	4061	5445	4873	6534	5414	7260	5414	7260	1050	2600	5732	
				1800 rpm		2000 rpm		2100 rpm							
ZF 24060 D ^{9, 14}	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	2100	2650	5842	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776	2100			
ZF 24060 NR2	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	2100	1890	4167	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776	2100			
ZF 24060 NR2B	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	2100	1890	4167	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776	2100			
ZF 24060 NR2H ⁹	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	2100	1860	4101	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776	2100			
ZF 24060 SGC ¹⁴ (IV=1.000)	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	2100	3250	7165	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776	2100			
ZF 24060 SGC ¹⁴ (IV=1.173)	4.630	2.0513	2.7508	3692	4951	4103	5502	4308	5777	4308	5777	2100	3250	7165	
ZF 24060 SGC ¹⁴ (IV=1.280)	5.052	1.8799	2.5210	3384	4538	3760	5042	3948	5294	3948	5294	2100	3250	7165	
ZF 24060 SGC ¹⁴ (IV=1.354)	5.344	1.7772	2.3833	3199	4290	3554	4767	3732	5005	3732	5005	2100	3250	7165	
ZF 24360 D ^{8, 9, 14}	4.036, 5.087, 5.950	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	2100	3870	8532	
	6.421	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776	2100			
ZF 24360 SG ^{8, 9, 14} (IV=1.000)	4.036, 5.087, 5.950	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	2100	4500	9921	
	6.421	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776	2100			
ZF 24360 SG ^{8, 9, 14} (IV=1.173)	6.980	2.2673	3.0405	4081	5473	4535	6081	4761	6385	4761	6385	2100	4500	9921	
ZF 24360 SG ^{8, 9, 14} (IV=1.280)	7.616	2.0779	2.7865	3740	5016	4156	5573	4364	5852	4364	5852	2100	4500	9921	
ZF 24360 SG ^{8, 9, 14} (IV=1.354)	8.056	1.9643	2.6342	3536	4742	3929	5268	4125	5532	4125	5532	2100	4500	9921	
	8.694	1.7772	2.3833	3199	4290	3554	4767	3732	5005	3732	5005	2100			

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1100 rpm		1200 rpm		1300 rpm							
ZF 30050 NR2	1.514*, 1.735, 1.906, 2.032, 2.207*	3.4721	4.6562	3819	5122	4167	5587	4514	6053	4514	6053	1300	1900	4189	
ZF 30050 NR2B	1.514*, 1.735, 1.906, 2.032, 2.207*	3.4721	4.6562	3819	5122	4167	5587	4514	6053	4514	6053	1300	1900	4189	
ZF 30050 NR2H ⁹	1.514*, 1.735, 1.906, 2.032, 2.207*	3.4721	4.6562	3819	5122	4167	5587	4514	6053	4514	6053	1300	1870	4123	
				1200 rpm		1400 rpm		1600 rpm							
ZF 30050 SGC ¹⁴ (IV=0.759)	1.542, 1.955, 2.483	3.5059	4.7015	4207	5642	4908	6582	5609	7522	5609	7522	1600	3250	7165	
	2.807	3.3389	4.4775	4007	5373	4674	6269	5342	7164	5342	7164	1600			
	2.994	3.1719	4.2536	3806	5104	4441	5955	5075	6806	5075	6806	1600			
ZF 30350 SG ^{8, 9, 14} (IV=0.759)	3.062, 4.514	3.5059	4.7015	4207	5642	4908	6582	5609	7522	5609	7522	1600	4575	10086	
	4.871	3.1719	4.2536	3806	5104	4441	5955	5075	6806	5075	6806	1600			
				1100 rpm		1200 rpm		1300 rpm							
ZF 40060 NR2	1.514*, 1.735, 1.906	4.5550	6.1084	5011	6719	5466	7330	5922	7941	5922	7941	1300	2010	4431	
ZF 40060 NR2B	1.514*, 1.735, 1.906	4.5550	6.1084	5011	6719	5466	7330	5922	7941	5922	7941	1300	2010	4431	
ZF 40060 NR2H ⁹	1.514*, 1.735, 1.906	4.5550	6.1084	5011	6719	5466	7330	5922	7941	5922	7941	1300	1880	4145	
				900 rpm		1000 rpm		1000 rpm							
ZF 40060 SGC ¹⁴ (IV=0.522)	1.588	5.0952	6.8328	4586	6150	5095	6833	5095	6833	5095	6833	1000	3260	7187	
				1000 rpm		1200 rpm		1300 rpm							
ZF 40060 SGC ¹⁴ (IV=0.603)	1.554, 2.097	4.5538	6.1067	4554	6107	5465	7328	5920	7939	5920	7939	1300	3260	7187	
	2.381	3.9894	5.3499	3989	5350	4787	6420	5186	6955	5186	6955	1300			
				900 rpm		1000 rpm		1100 rpm							
ZF 40360 SG ^{8, 9, 14} (IV=0.522)	2.107, 2.655, 3.106	5.0952	6.8328	4586	6150	5095	6833	5605	7516	5605	7516	1100	4625	10196	
	3.352	4.6097	6.1817	4149	5564	4610	6182	5071	6800	5071	6800	1100			
				900 rpm		1100 rpm		1300 rpm							
ZF 40360 SG ^{8, 9, 14} (IV=0.603)	2.434, 3.068, 3.589	4.5538	6.1067	4098	5496	5009	6717	5920	7939	5920	7939	1300	4625	10196	
	3.873	3.9894	5.3499	3590	4815	4388	5885	5186	6955	5186	6955	1300			

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

Light Duty
2 Speed



PRODUCT	Ratios				Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	1st 'A'	1st 'B'	2nd 'A'	2nd 'B'	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
							2100 rpm		2500 rpm		2800 rpm							
ZF 90 ATS 8 degrees	1.216	1.215	0.946	0.945	0.0753	0.1010	158	212	188	253	211	283	414	556	5500	64	141	SAE 3, 3 CAT, B/W, Yanmar 4LH
	1.563	1.583	1.216	1.231														
	2.037	2.017	1.584	1.569														
ZF 90 IVTS 12 degrees	1.294	1.288	1.006	1.002	0.0752	0.1008	158	212	188	252	211	282	414	554	5500	82	181	SAE 3, 3 CAT, B/W, Yanmar 4LH
	1.560	1.567	1.213	1.219														
	1.992	2.033	1.549	1.581														
	2.477	2.528	1.927	1.967	0.0697	0.0935	146	196	174	234	195	262	383	514	5500			
ZF 90 TS	1.256	1.250	0.977	0.972	0.0752	0.1008	158	212	188	252	211	282	414	554	5500	67	148	SAE 3, 3 CAT, B/W, Yanmar 4LH
	1.514	1.521	1.178	1.183														
	1.933	1.973	1.503	1.535														
	2.480	2.476	1.929	1.926	0.0624	0.0837	131	176	156	209	175	234	343	460	5500			
	2.783	2.799	2.165	2.177														
ZF 115 ATS 8 degrees	1.567	1.567	1.219	1.219	0.1043	0.1399	219	294	261	350	292	392	344	462	3300	82	181	SAE 2, 3, 3 CAT, B/W
	1.750	1.750	1.361	1.361														
	1.962	1.962	1.526	1.526														
	2.500	2.500	1.945	1.945														
ZF 115 IVTS 12 degrees	1.644	1.638	1.279	1.274	0.1043	0.1399	219	294	261	350	292	392	344	462	3300	107	236	SAE 2, 3, 3 CAT, B/W
	2.008	1.996	1.562	1.553														
	2.493	2.468	1.939	1.920														

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

Light Duty
2 Speed



PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	1st	2nd	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					1800 rpm		2100 rpm		2300 rpm							
ZF 325 ATS 7 degrees	1.216	0.968, 1.011, 1.062, 1.087, 1.113	0.2340	0.3138	421	565	491	659	538	722	585	785	2500	180	397	SAE 1
	1.485	1.182, 1.235, 1.297, 1.327, 1.359														
	1.733	1.380, 1.441, 1.514, 1.549, 1.586														
	2.037	1.622, 1.694, 1.779, 1.821, 1.864														
	2.240*	1.783, 1.862, 1.956, 2.002, 2.050														
	2.417	1.924, 2.009, 2.111, 2.160, 2.212	0.2107	0.2826	379	509	442	593	485	650	527	707	2500			
ZF 325 IVTS 14 degrees	1.216	0.968, 1.011, 1.062, 1.087, 1.113	0.2340	0.3138	421	565	491	659	538	722	585	785	2500	235	518	SAE 1
	1.485	1.182, 1.235, 1.297, 1.327, 1.359														
	1.733	1.380, 1.441, 1.514, 1.549, 1.586														
	1.793*	1.427, 1.490, 1.565, 1.603, 1.641														
	2.037	1.622, 1.694, 1.779, 1.821, 1.864														
	2.417	1.924, 2.009, 2.111, 2.160, 2.212	0.2107	0.2826	379	509	442	593	485	650	527	707	2500			
ZF 325 TS	1.000	0.796, 0.831, 0.873, .894, 0.915	0.2340	0.3138	421	565	491	659	538	722	585	785	2500	180	397	SAE 1
	1.167*	0.929, 0.970, 1.019, 1.043, 1.068														
	1.225*	0.975, 1.019, 1.070, 1.095, 1.121														
	1.459	1.162, 1.213, 1.275, 1.305, 1.336														
	1.727	1.375, 1.436, 1.509, 1.544, 1.581														
	2.033	1.619, 1.691, 1.776, 1.818, 1.861														
	2.250*	1.791, 1.871, 1.965, 2.011, 2.059														
	2.500	1.990, 2.079, 2.184, 2.235, 2.288	0.2107	0.2826	379	509	442	593	485	650	527	707	2500			
	2.957	2.354, 2.458, 2.582, 2.643, 2.706	0.1784	0.2392	321	431	375	502	410	550	446	598	2500			

* Special Order Ratio.

Light Duty
2 Speed



PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	1st	2nd	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					2100 rpm		2300 rpm		2450 rpm							
ZF 550-1 ATS 10 degrees	1.525	1.225, 1.277, 1.325, 1.363, 1.401	0.3246	0.4353	682	914	747	1001	795	1066	812	1088	2500	356	785	SAE 1
	1.757*	1.411, 1.471, 1.526, 1.571, 1.613														
	1.971	1.583, 1.650, 1.712, 1.762, 1.810														
	2.517	2.022, 2.107, 2.187, 2.251, 2.312														
	2.960	2.377, 2.478, 2.572, 2.646, 2.718	0.2759	0.3700	579	777	635	851	676	907	690	925	2500			
ZF 550-1 TS	1.111	0.892, 0.930, 0.965, 0.993, 1.020	0.3246	0.4353	682	914	747	1001	795	1066	812	1088	2500	344	758	SAE 1
	1.182*	0.949, 0.989, 1.027, 1.057, 1.085														
	1.262*	1.013, 1.056, 1.096, 1.128, 1.159														
	1.400*	1.124, 1.172, 1.216, 1.252, 1.286														
	1.500	1.205, 1.256, 1.303, 1.341, 1.378														
	1.743	1.400, 1.459, 1.514, 1.558, 1.601														
	2.000	1.606, 1.674, 1.738, 1.788, 1.837														
	2.233	1.794, 1.870, 1.941, 1.997, 2.051														
	2.593	2.082, 2.171, 2.253, 2.318, 2.381														
	3.042	2.443, 2.547, 2.643, 2.719, 2.793	0.2759	0.3700	579	777	635	851	676	907	690	925	2500			

* Special Order Ratio.

Light Duty
2 Speed



PRODUCT	Ratios		Power factor		Input power capacity						Max.	Max.	Max.	Weight		Bell hsgs. & notes
	1st	2nd	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp	kW	hp	rpm	kg	lb	
					2100 rpm		2300 rpm		2450 rpm							
ZF 665 ATS 10 degrees	1.525	1.225, 1.277, 1.325, 1.363, 1.401	0.3729	0.5001	783	1050	858	1150	914	1225	932	1250	2500	353	778	SAE 1
	1.757	1.411, 1.471, 1.526, 1.571, 1.613														
	1.971	1.583, 1.650, 1.712, 1.762, 1.810														
	2.226	1.788, 1.863, 1.934, 1.990, 2.044	0.3654	0.4900	767	1029	840	1127	895	1201	914	1225	2500			
	2.448	1.966, 2.050, 2.127, 2.189, 2.248														
	2.517	2.022, 2.107, 2.187, 2.251, 2.312	0.3567	0.4783	749	1004	820	1100	874	1172	892	1196	2500			
	2.960	2.377, 2.478, 2.572, 2.646, 2.718	0.2917	0.3912	613	822	671	900	715	958	729	978	2500			
ZF 665 TS	1.111	0.892, 0.930, 0.965, 0.993, 1.020	0.3729	0.5001	783	1050	858	1150	914	1225	932	1250	2500	344	758	SAE 1
	1.182	0.949, 0.989, 1.027, 1.057, 1.085														
	1.262	1.013, 1.056, 1.096, 1.128, 1.159														
	1.400	1.124, 1.172, 1.216, 1.252, 1.286														
	1.500	1.205, 1.256, 1.303, 1.341, 1.378														
	1.743	1.400, 1.459, 1.514, 1.558, 1.601														
	2.000	1.606, 1.674, 1.738, 1.788, 1.837														
	2.233	1.794, 1.870, 1.941, 1.997, 2.051	0.3654	0.4900	767	1029	840	1127	895	1201	914	1225	2500			
	2.593	2.082, 2.171, 2.253, 2.318, 2.381														
	3.042	2.443, 2.547, 2.643, 2.719, 2.793	0.2917	0.3912	613	822	671	900	715	958	729	978	2500			



Transmissions
Medium Duty

Medium Duty
Single Speed



PRODUCT	Ratios		Power factor		Input power capacity						Max.	Max.	Max.	Weight		Bell hgs. & notes
	'A' Pos	'B' Pos	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp	kW	hp	rpm	kg	lb	
					2100 rpm		2500 rpm		2800 rpm							
ZF 12 M ¹²	2.136	1.955	0.0111	0.0149	23	31	28	37	31	42	46	61	5000	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	2.632	1.955	0.0097	0.0130	20	27	24	33	27	36	46	61	5000			
ZF 15 M ¹²	1.556	1.955	0.0131	0.0176	28	37	33	44	37	49	46	61	5000	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	1.875	1.955	0.0121	0.0162	25	34	30	41	34	45	46	61	5000			
ZF 15 MA ¹² 8 degrees	1.875	1.955	0.0121	0.0162	25	34	30	41	34	45	46	61	5000	14	30	SAE 4, 5, 6, B/W, Yanmar JH
	2.136	1.955	0.0111	0.0149	23	31	28	37	31	42	46	61	5000			
	2.632	1.955	0.0097	0.0130	20	27	24	33	27	36	46	61	5000			
ZF 15 MIV ¹² 15 degrees	2.134	2.224	0.0121	0.0162	25	34	30	41	34	45	46	61	5000	20	44	SAE 4, 5, B/W, Yanmar JH
	2.718	2.224	0.0097	0.0130	20	27	24	33	27	36	46	61	5000			
	2.995	2.224														
ZF 25	1.969	1.969	0.0212	0.0284	45	60	53	71	59	80	117	156	5500	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	2.800	2.800	0.0203	0.0272	43	57	51	68	57	76	112	150	5500			
ZF 25 A 8 degrees	1.548	1.548	0.0213	0.0286	45	60	53	72	60	80	117	157	5500	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	1.926	1.926														
	2.292	2.292														
	2.480*	2.480*														
	2.714	2.714	0.0203	0.0272	43	57	51	68	57	76	112	150	5500			
ZF 25 M ¹²	1.880	2.095	0.0210	0.0282	44	59	53	71	59	79	64	85	5000	19	41	SAE 4, 5, B/W, Yanmar JH
	2.273	2.095	0.0172	0.0231	36	49	43	58	48	65	64	85	5000			
	2.737	2.722	0.0142	0.0190	30	40	36	48	40	53	64	85	5000			
ZF 25 MA ¹² 8 degrees	2.227	2.737	0.0172	0.0231	36	49	43	58	48	65	64	85	5000	21	46	SAE 4, 5, B/W, Yanmar JH
	2.737	2.737	0.0141	0.0189	30	40	35	47	39	53	64	85	5000			
ZF 30 M ¹²	2.148	2.636	0.0193	0.0259	41	54	48	65	54	73	76	102	5000	23	51	4 & 5 Yanmar JH
	2.696	2.636														
ZF 45 A 8 degrees	1.256	1.256	0.0382	0.0512	80	108	96	128	107	143	210	282	5500	28	62	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.514	1.514														
	2.034	2.034														
	2.435	2.435	0.0357	0.0479	75	101	89	120	100	134	196	263	5500			
ZF 45-1	2.200	2.200	0.0440	0.0590	92	124	110	148	123	165	242	325	5500	60	132	SAE 2, 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	2.512	2.512														
	3.031	3.031														
	3.741	3.741														

* Special Order Ratio.
¹² Reduced power capacity by the following shock factors: 1 cylinder engine ÷ 1.25, 2 cylinder engine ÷ 1.20, 3 cylinder engine ÷ 1.15

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

Medium Duty
Single Speed



PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	'A' Pos	'B' Pos	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					2100 rpm		2500 rpm		2800 rpm							
ZF 63	1.256	1.250	0.0539	0.0723	113	152	135	181	151	202	296	398	5500	46	101	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.514	1.521														
	1.750*	1.770														
	1.933	1.973														
	2.480	2.476	0.0518	0.0695	109	146	130	174	145	195	285	382	5500			
	2.783	2.799														
ZF 63 A 8 degrees	1.216	1.215	0.0578	0.0775	121	163	145	194	162	217	318	426	5500	44	97	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.563	1.583	0.0539	0.0723	113	152	135	181	151	202	296	398	5500			
	2.037	2.017	0.0475	0.0637	100	134	119	159	133	178	261	350	5500			
	2.522	2.536														
	2.682	2.709														
ZF 63 IV 12 degrees	1.294	1.288	0.0578	0.0775	121	163	145	194	162	217	318	426	5500	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567	0.0539	0.0723	113	152	135	181	151	202	296	398	5500			
	1.992	2.033	0.0518	0.0695	109	146	130	174	145	195	285	382	5500			
	2.477	2.528														
ZF 68 IV 12 degrees	1.294	1.288	0.0578	0.0775	121	163	145	194	162	217	347	465	6000	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567	0.0539	0.0723	113	152	135	181	151	202	323	434	6000			
	1.746	1.749														
	1.992	2.033														
	2.477	2.528	0.0518	0.0695	109	146	130	174	145	195	311	417	6000			
ZF 85 A 8 degrees	1.567	1.567	0.0838	0.1124	176	236	210	281	235	315	377	506	4500	69	152	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	1.750	1.750														
	1.962	1.962														
	2.500	2.500														
ZF 85 IV 12 degrees	1.644	1.638	0.0889	0.1192	187	250	222	298	249	334	311	417	3500	86	190	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	2.008	1.996	0.0838	0.1124	176	236	210	281	235	315	293	393	3500			
	2.493	2.468														

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

Medium Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				2100 rpm		2500 rpm		2800 rpm							
ZF 220	1.000, 1.128*, 1.237*, 1.400*	0.0745	0.0999	156	210	186	250	209	280	238	320	3200	63	139	SAE 2, 3, 3 CAT
	1.500*, 1.963, 2.478	0.0698	0.0936	147	197	175	234	195	262	223	300	3200			
	3.000	0.0598	0.0802	126	168	150	200	167	225	191	257	3200			
ZF W220	2.617	0.0792	0.1062	166	223	198	266	222	297	253	340	3200	105	231	SAE 2, 3, 3 CAT
	3.133	0.0768	0.1030	161	216	192	258	215	288	246	330	3200			
	3.555	0.0696	0.0933	146	196	174	233	195	261	223	299	3200			
	3.960	0.0644	0.0864	135	181	161	216	180	242	206	276	3200			
	4.636	0.0552	0.0740	116	155	138	185	155	207	177	237	3200			
ZF 220 A 10 degrees	1.235*, 1.750*	0.0745	0.0999	156	210	186	250	209	280	335	450	4500	50	110	SAE 2, 3, 3 CAT, B/W
	1.533, 2.040	0.0698	0.0936	147	197	175	234	195	262	314	421	4500			
	2.455*	0.0629	0.0844	132	177	157	211	176	236	283	380	4500			
ZF 280 IV 14 degrees	1.252*, 1.561*, 1.772*, 2.063	0.0904	0.1212	190	255	226	303	253	339	325	436	3600	106	234	SAE 2, 3, 3 CAT
	2.276, 2.556*	0.0844	0.1132	177	238	211	283	236	317	304	408	3600			
	3.094*	0.0711	0.0953	149	200	178	238	199	267	256	343	3600			
ZF 280-1	0.814*, 1.000, 1.056*, 1.139*, 1.214*, 1.300, 1.514*, 2.000	0.0904	0.1212	190	255	226	303	253	339	325	436	3600	73	161	SAE 1, 2, 3, 3 CAT
	2.478	0.0844	0.1132	177	238	211	283	236	317	304	408	3600			
	3.000	0.0806	0.1081	169	227	202	270	226	303	290	389	3600			
ZF 280-1 A 7 degrees	1.118*, 1.483, 1.769, 2.000	0.0904	0.1212	190	255	226	303	253	339	325	436	3600	73	161	SAE 1, 2, 3, 3 CAT
	2.227, 2.476*	0.0844	0.1132	177	238	211	283	236	317	304	408	3600			
ZF 286	1.237*, 1.400*, 1.500, 1.966, 2.269	0.1152	0.1545	242	324	288	386	323	433	415	556	3600	86	190	SAE 1, 2, 3, 3 CAT
	0.923*, 1.000*, 2.481*	0.1053	0.1412	221	297	263	353	295	395	379	508	3600			
	2.917	0.0959	0.1286	201	270	240	322	269	360	345	463	3600			
ZF 286 A 7 degrees	1.200*, 1.484*, 1.750, 1.962	0.1152	0.1545	242	324	288	386	323	433	415	556	3600	77	170	SAE 1, 2, 3, 3 CAT
	2.208	0.1086	0.1456	228	306	272	364	304	408	391	524	3600			
	2.391, 2.500	0.1005	0.1348	211	283	251	337	281	377	362	485	3600			
ZF 286 IV 14 degrees	1.266*, 1.535, 2.011	0.1152	0.1545	242	324	288	386	323	433	415	556	3600	130	287	SAE 1, 2, 3, 3 CAT
	2.322*	0.1086	0.1456	228	306	272	364	304	408	391	524	3600			
	2.539	0.1053	0.1412	221	297	263	353	295	395	379	508	3600			
ZF 301-1 A 10 degrees	1.190*, 1.516*, 2.005, 2.551*, 2.901*	0.0911	0.1222	191	257	228	306	255	342	273	367	3000	87	192	SAE 1, 2, 3, 3 CAT
ZF 301-1 C	1.236*, 1.408*	0.1070	0.1435	225	301	268	359	300	402	321	430	3000	87	192	SAE 1, 2, 3, 3 CAT
	1.862, 2.694	0.0963	0.1291	202	271	241	323	270	361	289	387	3000			

* Special Order Ratio.
B/W = Borg Warner adaptor.

Medium Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2100 rpm		2300 rpm							
ZF 305-3	0.884*, 1.000*, 1.220, 1.486*, 1.968	0.1423	0.1908	256	343	299	401	327	439	427	572	3000	98	216	SAE 1, 2, 3
	2.250*	0.1305	0.1750	235	315	274	368	300	403	392	525	3000			
	2.500	0.1220	0.1636	220	294	256	344	281	376	366	491	3000			
	2.917	0.1084	0.1454	195	262	228	305	249	334	325	436	3000			
ZF 305-3 A 7 degrees	1.200*, 1.514, 1.733, 2.037	0.1423	0.1908	256	343	299	401	327	439	427	572	3000	97	214	SAE 1, 2, 3
	2.179	0.1305	0.1750	235	315	274	368	300	403	392	525	3000			
	2.423	0.1220	0.1636	220	294	256	344	281	376	366	491	3000			
ZF W320	2.958	0.1775	0.2380	320	428	373	500	408	547	426	571	2400	270	595	SAE 1, 2
	4.048	0.1634	0.2191	294	394	343	460	376	504	392	526	2400			
	4.526*	0.1491	0.1999	268	360	313	420	343	460	358	480	2400			
	4.950*	0.1332	0.1786	240	321	280	375	306	411	320	429	2400			
ZF W325	2.933*, 3.407, 3.958	0.1953	0.2619	352	471	410	550	449	602	508	681	2600	315	694	SAE 1
	4.409	0.1793	0.2404	323	433	377	505	412	553	466	625	2600			
	5.167*	0.1438	0.1928	259	347	302	405	331	443	374	501	2600			
ZF 325 IV 14 degrees	1.216, 1.485*, 1.733, 2.037	0.1776	0.2382	320	429	373	500	408	548	533	715	3000	185	408	SAE 1, 2
	2.417	0.1669	0.2238	300	403	350	470	384	515	501	671	3000			
ZF 325-1	1.000, 1.167*, 1.225*, 1.459*, 1.727, 2.033	0.1775	0.2380	320	428	373	500	408	547	533	714	3000	130	287	SAE 1
	2.500	0.1669	0.2238	300	403	350	470	384	515	501	671	3000			
	2.957	0.1473	0.1975	265	356	309	415	339	454	442	593	3000			
ZF 325-1 A 7 degrees	1.216*, 1.485, 1.733, 2.037, 2.240*	0.1776	0.2382	320	429	373	500	408	548	533	715	3000	130	287	SAE 1
	2.417	0.1669	0.2238	300	403	350	470	384	515	501	671	3000			
ZF 335 A 7 degrees	1.441*, 1.594*, 1.767, 1.964	0.2130	0.2856	383	514	447	600	490	657	639	857	3000	159	351	SAE 1
	2.192*	0.1927	0.2584	347	465	405	543	443	594	578	775	3000			
	2.458	0.1781	0.2388	321	430	374	501	410	549	534	716	3000			
ZF 335 IV 14 degrees	1.441*, 1.964*	0.2130	0.2856	383	514	447	600	490	657	639	857	3000	215	474	SAE 1, 2
	2.192*	0.1927	0.2584	347	465	405	543	443	594	578	775	3000			
	2.458	0.1781	0.2388	321	430	374	501	410	549	534	716	3000			
ZF W350-1	3.026*, 3.500*, 3.968*, 4.536, 4.962, 5.955*	0.2379	0.3190	428	574	500	670	547	734	571	766	2400	500	1102	SAE 0, 1
	6.409*	0.2078	0.2787	374	502	436	585	478	641	499	669	2400			

* Special Order Ratio.

Medium Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2100 rpm		2300 rpm							
ZF 360	0.925*, 1.045*, 1.125*, 1.237*, 1.500, 1.774, 1.966, 2.185, 2.480, 2.625	0.2130	0.2856	383	514	447	600	490	657	639	857	3000	185	408	SAE 0, 1
	2.917	0.1953	0.2619	352	471	410	550	449	602	586	786	3000			
ZF 360 A 7 degrees	1.216*, 1.485, 1.767, 1.964, 2.192, 2.478, 2.609	0.2130	0.2856	383	514	447	600	490	657	639	857	3000	187	412	SAE 0, 1
ZF 360 IV 14 degrees	1.216, 1.767, 1.964*, 2.478*	0.2130	0.2856	383	514	447	600	490	657	639	857	3000	230	507	SAE 1
				1800 rpm		2100 rpm		2250 rpm							
ZF 370 V 10 degrees	1.125*, 1.774*, 2.000, 2.222*, 2.480	0.2130	0.2856	383	514	447	600	479	643	639	857	3000	194	428	
ZF 500	1.000*, 1.125, 1.237*, 1.500, 1.774*, 1.966	0.2694	0.3613	485	650	566	759	606	813	808	1084	3000	185	408	SAE 0, 1
	2.185*	0.2486	0.3334	447	600	522	700	559	750	746	1000	3000			
	0.925*, 2.480*, 2.625*	0.2279	0.3056	410	550	479	642	513	688	684	917	3000			
	2.917*	0.1989	0.2667	358	480	418	560	448	600	597	800	3000			
ZF 500-1 A 7 degrees	1.216*, 1.485*, 1.767, 1.964	0.2694	0.3613	485	650	566	759	606	813	808	1084	3000	192	423	SAE 0, 1
	2.192	0.2486	0.3334	447	600	522	700	559	750	746	1000	3000			
	2.478*	0.2279	0.3056	410	550	479	642	513	688	684	917	3000			
	2.609*	0.2130	0.2856	383	514	447	600	479	643	639	857	3000			
ZF 500-1 IV 14 degrees	1.216*, 1.767*, 1.964	0.2574	0.3452	463	621	541	725	579	777	772	1036	3000	230	507	SAE 1
	2.200	0.2486	0.3334	447	600	522	700	559	750	746	1000	3000			
	2.478*	0.2279	0.3056	410	550	479	642	513	688	684	917	3000			
	3.000*	0.2071	0.2777	373	500	435	583	466	625	621	833	3000			
ZF 510 V 10 degrees	1.125*, 1.774*, 2.000	0.2694	0.3613	485	650	566	759	606	813	808	1084	3000	200	441	
	2.222*	0.2486	0.3334	447	600	522	700	559	750	746	1000	3000			
ZF 510-1 A 10 degrees	1.125*, 1.774, 2.000	0.2694	0.3613	485	650	566	759	606	813	808	1084	3000	193	425	SAE 0, 1
	2.222, 2.480*	0.2486	0.3334	447	600	522	700	559	750	746	1000	3000			
ZF 550-1	1.111, 1.182*, 1.262*, 1.833*, 2.000, 2.233*, 2.593	0.2577	0.3456	464	622	541	726	580	778	773	1037	3000	242	534	SAE 0, 1
	3.042*	0.2347	0.3147	422	566	493	661	528	708	704	944	3000			
ZF 550-1 A 10 degrees	1.525*, 1.971, 2.226, 2.448, 2.517	0.2576	0.3454	464	622	541	725	580	777	773	1036	3000	256	564	SAE 0, 1
	2.960*	0.2346	0.3146	422	566	493	661	528	708	704	944	3000			
ZF 550-1 V 10 degrees	1.525*, 1.971, 2.226, 2.448	0.2576	0.3454	464	622	541	725	580	777	773	1036	3000	260	573	
	2.960*	0.2346	0.3146	422	566	493	661	528	708	704	944	3000			

* Special Order Ratio.

Medium Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW		hp		kW					hp		
				1800 rpm		2100 rpm		2300 rpm							
ZF W650	3.605*, 4.057, 4.531*, 5.138, 5.593	0.2576	0.3454	464	622	541	725	592	794	670	898	2600	561	1237	SAE 0, 1
	6.417*	0.2346	0.3146	422	566	493	661	540	724	610	818	2600			
				1800 rpm		2100 rpm		2250 rpm							
ZF 665	1.111, 1.182*, 1.262, 1.400*, 1.500*, 1.743, 2.000	0.3107	0.4167	559	750	652	875	699	938	932	1250	3000	248	547	SAE 0, 1
	2.233*, 2.593	0.2900	0.3889	522	700	609	817	653	875	870	1167	3000			
	3.042*	0.2382	0.3194	429	575	500	671	536	719	715	958	3000			
ZF 665 A 10 degrees	1.525*, 1.971	0.3107	0.4167	559	750	652	875	699	938	932	1250	3000	253	558	SAE 0, 1
	2.226	0.2900	0.3889	522	700	609	817	653	875	870	1167	3000			
	2.517	0.2817	0.3778	507	680	592	793	634	850	845	1133	3000			
	2.960*	0.2486	0.3334	447	600	522	700	559	750	746	1000	3000			
ZF 665 V 10 degrees	1.525*, 1.757, 1.971*	0.3107	0.4167	559	750	652	875	699	938	932	1250	3000	252	556	
	2.226*	0.2900	0.3889	522	700	609	817	653	875	870	1167	3000			
	2.517	0.2817	0.3778	507	680	592	793	634	850	845	1133	3000			
	2.960*	0.2486	0.3334	447	600	522	700	559	750	746	1000	3000			
ZF 2000	1.086*, 1.191*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.3210	0.4305	578	775	674	904	722	968	722	968	2600	340	750	SAE 0, 1
	2.760*	0.2953	0.3960	532	713	620	832	664	890	664	890	2600			
	2.958	0.2698	0.3618	486	651	567	760	607	814	607	814	2600			
ZF 2000 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*	0.3210	0.4305	578	775	674	904	722	968	722	968	2600	348	767	SAE 0, 1
	2.920	0.3072	0.4120	553	742	645	865	691	926	691	926	2600			
	3.250*	0.2860	0.3835	515	690	601	805	643	862	643	862	2600			
ZF 2000 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*	0.3210	0.4305	578	775	674	904	722	968	722	968	2600	352	776	
	2.920	0.3072	0.4120	553	742	645	865	691	926	691	926	2600			
	3.250*	0.2860	0.3835	515	690	601	805	643	862	643	862	2600			
ZF 2050	1.086*, 1.191*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.3771	0.5057	679	910	792	1062	848	1137	848	1137	2600	342	754	SAE 0, 1
ZF 2050 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.3771	0.5057	679	910	792	1062	848	1137	848	1137	2600	350	772	SAE 0, 1
ZF 2050 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.3771	0.5057	679	910	792	1062	848	1137	848	1137	2600	354	780	

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2100 rpm		2250 rpm							
ZF 2150	2.760*	0.3490	0.4680	628	842	733	983	785	1052	785	1052	2600	344	758	SAE 0, 1
	2.958	0.3210	0.4305	578	775	674	904	722	968	722	968	2600			
ZF 2150 A 10 degrees	2.714*	0.3771	0.5057	679	910	792	1062	848	1137	848	1137	2600	352	776	SAE 0, 1
	2.920	0.3581	0.4802	645	864	752	1008	805	1079	805	1079	2600			
	3.250*	0.3333	0.4470	600	805	700	939	749	1004	749	1004	2600			
ZF 2150 V 10 degrees	2.714*	0.3771	0.5057	679	910	792	1062	848	1137	848	1137	2600	356	785	
	2.920	0.3581	0.4802	645	864	752	1008	805	1079	805	1079	2600			
	3.250*	0.3333	0.4470	600	805	700	939	749	1004	749	1004	2600			
ZF 2200 ¹³	3.000, 3.519*	0.3210	0.4305	578	775	674	904	722	968	722	968	2600	404	891	SAE 0, 1
ZF 2250 ¹³	3.000, 3.519*	0.3771	0.5057	679	910	792	1062	848	1137	848	1137	2600	406	895	SAE 0, 1
ZF 2300 ⁸	4.000, 4.444	0.3210	0.4305	578	775	674	904	722	968	722	968	2600	434	957	SAE 0, 1
ZF W2300	3.028*, 3.500*, 4.000, 4.444	0.3210	0.4305	578	775	674	904	722	968	722	968	2600	590	1301	SAE 0, 1
ZF 2350 ⁸	4.000, 4.444, 4.760*	0.3771	0.5057	679	910	792	1062	848	1137	848	1137	2600	436	961	SAE 0, 1
ZF W2350	3.028*, 3.500*, 4.000, 4.444, 4.760*	0.3771	0.5057	679	910	792	1062	848	1137	848	1137	2600	590	1301	SAE 0, 1
ZF W2450	5.036	0.3771	0.5057	679	910	792	1062	792	1062	792	1062	2600	760	1676	SAE 0, 1
	5.500	0.3560	0.4774	641	859	748	1003	748	1003	748	1003	2600			
	6.042	0.3210	0.4305	578	775	674	903	674	903	674	903	2600			
	6.160	0.3109	0.4169	560	750	653	875	653	875	653	875	2600			
	6.458	0.2585	0.3467	465	624	543	728	543	728	543	728	2600			
	6.923	0.2249	0.3016	405	543	472	632	472	632	472	632	2600			
ZF 3000	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.4194	0.5624	755	1012	881	1181	943	1264	943	1264	2600	482	1063	SAE 00, 0, 1
ZF 3000 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.4194	0.5624	755	1012	881	1181	943	1264	943	1264	2600	485	1069	SAE 0, 1
	3.280*	0.3554	0.4766	640	858	746	1001	799	1071	799	1071	2600			
ZF 3000 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.4194	0.5624	755	1012	881	1181	943	1264	943	1264	2600	500	1102	
	3.280*	0.3554	0.4766	640	858	746	1001	799	1071	799	1071	2600			
ZF 3050	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5153	0.6910	928	1244	1082	1451	1159	1554	1159	1554	2600	482	1063	SAE 00, 0, 1

⁸ U-drive version also available.

¹³ No classification available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2100 rpm		2250 rpm							
ZF 3050 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5153	0.6910	928	1244	1082	1451	1159	1554	1159	1554	2600	485	1069	SAE 0, 1
	3.280*	0.4194	0.5624	755	1012	881	1181	943	1264	943	1264	2600			
ZF 3050 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5153	0.6910	928	1244	1082	1451	1159	1554	1159	1554	2600	482	1063	
ZF 3050 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5153	0.6910	928	1244	1082	1451	1159	1554	1159	1554	2600	500	1102	
	3.280*	0.4194	0.5624	755	1012	881	1181	943	1264	943	1264	2600			
ZF 3055	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*	0.5508	0.7386	991	1329	1157	1551	1239	1661	1239	1661	2600	487	1074	SAE 00, 0, 1
	2.952*	0.5331	0.7149	960	1287	1120	1501	1199	1607	1199	1607	2600			
ZF 3055 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*	0.5508	0.7386	991	1329	1157	1551	1239	1661	1239	1661	2600	490	1080	SAE 0, 1
	3.000*	0.5331	0.7149	960	1287	1120	1501	1199	1607	1199	1607	2600			
	3.280*	0.4552	0.6104	819	1099	956	1282	1024	1373	1024	1373	2600			
ZF 3055 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*	0.5508	0.7386	991	1329	1157	1551	1239	1661	1239	1661	2600	482	1063	
	2.952*	0.5331	0.7149	960	1287	1120	1501	1199	1607	1199	1607	2600			
ZF 3055 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*	0.5508	0.7386	991	1329	1157	1551	1239	1661	1239	1661	2600	505	1113	
	3.000*	0.5331	0.7149	960	1287	1120	1501	1199	1607	1199	1607	2600			
	3.280*	0.4552	0.6104	819	1099	956	1282	1024	1373	1024	1373	2600			
ZF 3150 A ¹³ 10 degrees	1.257*, 1.500*, 1.759*, 1.963, 2.240, 2.478*	0.5153	0.6910	928	1244	1082	1451	1159	1554	1159	1554	2600	470	1036	SAE 0, 1
ZF 3310 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.4194	0.5624	755	1012	881	1181	943	1264	943	1264	2600	665	1466	SAE 00, 0, 1
ZF 3311 ^{8, 14}	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.4194	0.5624	755	1012	881	1181	943	1264	943	1264	2600	850	1874	SAE 00, 0, 1

³ “D” transmissions only for use in counter engine wise (CEW) condition. Engine wise (EW) operation only for waterjet flushing.

⁸ U-drive version also available.

⁹ Left and Right version available.

¹³ No classification available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2100 rpm		2250 rpm							
ZF 3350 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5153	0.6910	928	1244	1082	1451	1159	1554	1159	1554	2600	665	1466	SAE 00, 0, 1
ZF 3351 ^{8, 14}	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5153	0.6910	928	1244	1082	1451	1159	1554	1159	1554	2600	850	1874	SAE 00, 0, 1
ZF 3355 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*	0.5508	0.7386	991	1329	1157	1551	1239	1661	1239	1661	2600	670	1477	SAE 00, 0, 1
	5.000	0.5331	0.7149	960	1287	1120	1501	1199	1607	1199	1607	2600			
ZF 3356 ^{8, 14}	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*	0.5508	0.7386	991	1329	1157	1551	1239	1661	1239	1661	2600	855	1885	SAE 00, 0, 1
	5.000	0.5331	0.7149	960	1287	1120	1501	1199	1607	1199	1607	2600			
ZF 3361 ^{8, 14}	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*	0.5800	0.7778	1044	1400	1218	1633	1305	1750	1305	1750	2450	850	1874	SAE 00, 0, 1
	5.000	0.5570	0.7469	1003	1344	1170	1568	1253	1680	1253	1680	2450			
ZF 3711 ⁸	3.767*, 4.259*, 5.545, 5.952	0.4194	0.5624	755	1012	881	1181	943	1264	943	1264	2600	920	2028	SAE 0, 1
ZF 3751 ⁸	3.767*, 4.259*, 5.545, 5.952	0.5153	0.6910	928	1244	1082	1451	1159	1554	1159	1554	2600	920	2028	SAE 0, 1
ZF 3756 ⁸	3.767*, 4.259*, 5.545, 5.952	0.5331	0.7149	960	1287	1120	1501	1199	1607	1199	1607	2600	920	2028	SAE 0, 1
ZF 3761 ⁸	3.767*, 4.259*, 5.545	0.5800	0.7778	1044	1400	1218	1633	1305	1750	1305	1750	2450	920	2028	SAE 0, 1
	5.952	0.5570	0.7469	1003	1344	1170	1568	1253	1680	1253	1680	2450			
				1800 rpm		1900 rpm		2100 rpm							
ZF 5000	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.6670	0.8945	1201	1610	1267	1700	1400	1877	1400	1877	2600	740	1631	SAE 00, 0
ZF 5000 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.6670	0.8945	1201	1610	1267	1700	1400	1877	1400	1877	2600	750	1653	SAE 00, 0
ZF 5000 D ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.6670	0.8945	1201	1610	1267	1700	1400	1877	1400	1877	2600	765	1687	
ZF 5000 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.6670	0.8945	1201	1610	1267	1700	1400	1877	1400	1877	2600	615	1356	
ZF 5000 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.6670	0.8945	1201	1610	1267	1700	1400	1877	1400	1877	2600	768	1693	
ZF 5050	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.7466	1.0012	1344	1802	1419	1902	1567	2101	1567	2101	2600	740	1631	SAE 00, 0
ZF 5050 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7466	1.0012	1344	1802	1419	1902	1567	2101	1567	2101	2600	750	1653	SAE 00, 0
	3.222*	0.7120	0.9548	1282	1719	1353	1814	1495	2004	1495	2004	2600			
	3.429*	0.6670	0.8945	1201	1610	1267	1700	1400	1877	1400	1877	2600			

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		1900 rpm		2100 rpm							
ZF 5050 D ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.7466	1.0012	1344	1802	1419	1902	1567	2101	1567	2101	2600	765	1687	
ZF 5050 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.7466	1.0012	1344	1802	1419	1902	1567	2101	1567	2101	2600	615	1356	
ZF 5050 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7466	1.0012	1344	1802	1419	1902	1567	2101	1567	2101	2600	768	1693	
	3.222*	0.7120	0.9548	1282	1719	1353	1814	1495	2004	1495	2004	2600			
	3.429*	0.6670	0.8945	1201	1610	1267	1700	1400	1877	1400	1877	2600			
ZF 5055	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.8906	1.1943	1603	2150	1692	2269	1870	2507	1870	2507	2600	740	1631	SAE 00, 0
	2.963	0.8288	1.1114	1492	2001	1575	2112	1740	2333	1740	2333	2600			
ZF 5055 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.8906	1.1943	1603	2150	1692	2269	1870	2507	1870	2507	2600	750	1653	SAE 00, 0
	3.222*	0.8063	1.0813	1451	1946	1532	2054	1693	2270	1693	2270	2600			
	3.429*	0.7225	0.9689	1301	1744	1373	1841	1517	2034	1517	2034	2600			
ZF 5055 D ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.8272	1.1093	1489	1997	1572	2108	1737	2329	1737	2329	2600	765	1687	
ZF 5055 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.8906	1.1943	1603	2150	1692	2269	1870	2507	1870	2507	2600	615	1356	
	2.963	0.8288	1.1114	1492	2001	1575	2112	1740	2333	1740	2333	2600			
ZF 5055 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.8906	1.1943	1603	2150	1692	2269	1870	2507	1870	2507	2600	768	1693	
	3.222*	0.8063	1.0813	1451	1946	1532	2054	1693	2270	1693	2270	2600			
	3.429*	0.7225	0.9689	1301	1744	1373	1841	1517	2034	1517	2034	2600			
				1800 rpm		2000 rpm		2250 rpm							
ZF 5300 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.6670	0.8945	1201	1610	1334	1789	1500	2011	1500	2011	2600	950	2094	SAE 00, 0
				1800 rpm		1900 rpm		2100 rpm							
ZF 5311 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.6670	0.8945	1201	1610	1267	1700	1400	1877	1400	1877	2600	1290	2844	SAE 00, 0
				1800 rpm		2000 rpm		2250 rpm							
ZF 5350 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.7466	1.0012	1344	1802	1493	2002	1679	2251	1679	2251	2600	950	2094	SAE 00, 0
				1800 rpm		1900 rpm		2100 rpm							
ZF 5351 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.7466	1.0012	1344	1802	1419	1902	1567	2101	1567	2101	2600	1290	2844	SAE 00, 0

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2000 rpm		2250 rpm							
ZF 5355 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464	0.8906	1.1943	1603	2150	1781	2389	2003	2686	2003	2686	2600	950	2094	SAE 00, 0
	5.040	0.8377	1.1234	1508	2022	1675	2247	1884	2526	1884	2526	2600			
	5.500	0.7447	0.9987	1340	1798	1489	1997	1675	2246	1675	2246	2600			
				1800 rpm		1900 rpm		2100 rpm							
ZF 5356 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464	0.8906	1.1943	1603	2150	1692	2269	1870	2507	1870	2507	2600	1290	2844	SAE 00, 0
	5.040	0.8377	1.1234	1508	2022	1592	2134	1759	2358	1759	2358	2600			
	5.500	0.7447	0.9987	1340	1798	1415	1898	1563	2096	1563	2096	2600			
				1600 rpm		1800 rpm		2000 rpm							
ZF 7600	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300	970	2138	SAE 00
	2.905	1.1937	1.6008	1910	2561	2149	2881	2387	3201	2387	3201	2300			
	3.174*	1.0577	1.4184	1692	2269	1904	2553	2115	2836	2115	2836	2300			
ZF 7600 A 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300	1125	2480	SAE 00
	3.286*, 3.450*	0.9958	1.3354	1593	2137	1792	2404	1991	2669	1991	2669	2300			
ZF 7600 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300	705	1554	
	2.905	1.1937	1.6008	1910	2561	2149	2881	2387	3201	2387	3201	2300			
	3.174*	1.0577	1.4184	1692	2269	1904	2553	2115	2836	2115	2836	2300			
ZF 7600 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300	705	1554	
	2.905	1.1937	1.6008	1910	2561	2149	2881	2387	3201	2387	3201	2300			
	3.174*	1.0577	1.4184	1692	2269	1904	2553	2115	2836	2115	2836	2300			
ZF 7600 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300	705	1554	
	2.905	1.1937	1.6008	1910	2561	2149	2881	2387	3201	2387	3201	2300			
	3.174*	1.0577	1.4184	1692	2269	1904	2553	2115	2836	2115	2836	2300			
ZF 7600 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300	1125	2480	
	3.286*	0.9958	1.3354	1593	2137	1792	2404	1991	2669	1991	2669	2300			
	3.450*	0.9110	1.2217	1458	1955	1640	2199	1822	2443	1822	2443	2300			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		2000 rpm							
ZF 7640	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300	1325	2921	SAE 00
	4.500	1.0000	1.3410	1600	2146	1800	2414	2000	2682	2000	2682	2300			
ZF 7641	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300	1750	3858	SAE 00
	4.500	1.0000	1.3410	1600	2146	1800	2414	2000	2682	2000	2682	2300			
ZF 7645	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.3131	1.7609	2101	2817	2364	3170	2626	3521	2626	3521	2300	1325	2921	SAE 00
	4.500	1.0000	1.3410	1600	2146	1800	2414	2000	2682	2000	2682	2300			
ZF 7646	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.3131	1.7609	2101	2817	2364	3170	2626	3521	2626	3521	2300	1750	3858	SAE 00
	4.500	1.0000	1.3410	1600	2146	1800	2414	2000	2682	2000	2682	2300			
ZF 7650	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3131	1.7609	2101	2817	2364	3170	2626	3521	2626	3521	2300	970	2138	SAE 00
	3.174*	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300			
ZF 7650 A 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.3131	1.7609	2101	2817	2364	3170	2626	3521	2626	3521	2300	1125	2480	SAE 00
	3.286*	1.2220	1.6387	1955	2622	2200	2950	2444	3277	2444	3277	2300			
	3.450*	1.1361	1.5235	1818	2438	2045	2742	2272	3046	2272	3046	2300			
ZF 7650 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.2984	1.7412	2077	2786	2337	3134	2596	3481	2596	3481	2300	705	1554	
	3.174*	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300			
ZF 7650 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.2984	1.7412	2077	2786	2337	3134	2596	3481	2596	3481	2300	720	1587	
	3.174*	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300			
ZF 7650 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.2984	1.7412	2077	2786	2337	3134	2596	3481	2596	3481	2300	705	1554	
	3.174*	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300			
ZF 7650 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.3131	1.7609	2101	2817	2364	3170	2626	3521	2626	3521	2300	1125	2480	
	3.286*	1.2220	1.6387	1955	2622	2200	2950	2444	3277	2444	3277	2300			
	3.450*	1.1361	1.5235	1818	2438	2045	2742	2272	3046	2272	3046	2300			
ZF 7661	4.577*, 4.760*, 5.000, 5.435, 5.952	1.2356	1.6570	1977	2651	2224	2983	2471	3313	2471	3313	2300	2520	5556	SAE 00
	6.250	1.1110	1.4899	1778	2384	2000	2682	2222	2979	2222	2979	2300			
	6.500*	1.0450	1.4014	1672	2242	1881	2523	2090	2802	2090	2802	2300			
	6.833*	0.9110	1.2217	1458	1955	1640	2199	1822	2443	1822	2443	2300			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		2000 rpm							
ZF 7666	4.577*, 4.760*, 5.000, 5.435, 5.952	1.3131	1.7609	2101	2817	2364	3170	2626	3521	2626	3521	2300	2520	5556	SAE 00
	6.250	1.2220	1.6387	1955	2622	2200	2950	2444	3277	2444	3277	2300			
	6.500*	1.0450	1.4014	1672	2242	1881	2523	2090	2802	2090	2802	2300			
	6.833*	0.9110	1.2217	1458	1955	1640	2199	1822	2443	1822	2443	2300			
ZF 9000	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300	1400	3086	SAE 00
	3.250*	1.3060	1.7514	2090	2802	2351	3153	2612	3502	2612	3502	2300			
	3.360*	1.2700	1.7031	2032	2725	2286	3066	2540	3406	2540	3406	2300			
	3.448*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2485	3332	2300			
ZF 9000 A 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300	1380	3042	SAE 00
	3.208*	1.3060	1.7514	2090	2802	2351	3153	2612	3502	2612	3502	2300			
	3.462*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2485	3332	2300			
ZF 9000 NR2	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300	1040	2293	
	3.250*	1.3060	1.7514	2090	2802	2351	3153	2612	3502	2612	3502	2300			
	3.360*	1.2700	1.7031	2032	2725	2286	3066	2540	3406	2540	3406	2300			
	3.448*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2485	3332	2300			
ZF 9000 NR2B	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300	1040	2293	
	3.250*	1.3060	1.7514	2090	2802	2351	3153	2612	3502	2612	3502	2300			
	3.360*	1.2700	1.7031	2032	2725	2286	3066	2540	3406	2540	3406	2300			
	3.448*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2485	3332	2300			
ZF 9000 NR2H ⁹	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300	1040	2293	
	3.250*	1.3060	1.7514	2090	2802	2351	3153	2612	3502	2612	3502	2300			
	3.360*	1.2700	1.7031	2032	2725	2286	3066	2540	3406	2540	3406	2300			
	3.448*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2485	3332	2300			
ZF 9000 V 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300	1400	3086	
	3.208*	1.3060	1.7514	2090	2802	2351	3153	2612	3502	2612	3502	2300			
	3.462*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2485	3332	2300			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		2000 rpm							
ZF 9050	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.4660	1.9659	2346	3145	2639	3539	2932	3931	2932	3931	2300	1400	3086	SAE 00
	3.250*	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300			
	3.360*	1.3500	1.8104	2160	2897	2430	3259	2700	3620	2700	3620	2300			
	3.448*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	2640	3540	2300			
ZF 9050 A 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.4660	1.9659	2346	3145	2639	3539	2932	3931	2932	3931	2300	1380	3042	SAE 00
	3.208*	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300			
	3.462*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	2640	3540	2300			
ZF 9050 NR2	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.4660	1.9659	2346	3145	2639	3539	2932	3931	2932	3931	2300	1040	2293	
	3.250*	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300			
	3.360*	1.3500	1.8104	2160	2897	2430	3259	2700	3620	2700	3620	2300			
	3.448*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	2640	3540	2300			
ZF 9050 NR2B	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.4660	1.9659	2346	3145	2639	3539	2932	3931	2932	3931	2300	1040	2293	
	3.250*	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300			
	3.360*	1.3500	1.8104	2160	2897	2430	3259	2700	3620	2700	3620	2300			
	3.448*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	2640	3540	2300			
ZF 9050 NR2H ⁹	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.4660	1.9659	2346	3145	2639	3539	2932	3931	2932	3931	2300	1040	2293	
	3.250*	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300			
	3.360*	1.3500	1.8104	2160	2897	2430	3259	2700	3620	2700	3620	2300			
	3.448*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	2640	3540	2300			
ZF 9050 V 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.4660	1.9659	2346	3145	2639	3539	2932	3931	2932	3931	2300	1400	3086	
	3.208*	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300			
	3.462*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	2640	3540	2300			
ZF 9055	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3320	4452	2300	1400	3086	SAE 00
	3.250*	1.5050	2.0182	2408	3229	2709	3633	3010	4036	3010	4036	2300			
	3.360*	1.4550	1.9512	2328	3122	2619	3512	2910	3902	2910	3902	2300			
	3.448*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	2834	3800	2300			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		2000 rpm							
ZF 9055 A 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3320	4452	2300	1380	3042	SAE 00
	3.208*	1.5050	2.0182	2408	3229	2709	3633	3010	4036	3010	4036	2300			
	3.462*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	2834	3800	2300			
ZF 9055 NR2	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3320	4452	2300	1040	2293	
	3.250*	1.5050	2.0182	2408	3229	2709	3633	3010	4036	3010	4036	2300			
	3.360*	1.4550	1.9512	2328	3122	2619	3512	2910	3902	2910	3902	2300			
	3.448*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	2834	3800	2300			
ZF 9055 NR2B	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3320	4452	2300	1040	2293	
	3.250*	1.5050	2.0182	2408	3229	2709	3633	3010	4036	3010	4036	2300			
	3.360*	1.4550	1.9512	2328	3122	2619	3512	2910	3902	2910	3902	2300			
	3.448*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	2834	3800	2300			
ZF 9055 NR2H ⁹	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3320	4452	2300	1040	2293	
	3.250*	1.5050	2.0182	2408	3229	2709	3633	3010	4036	3010	4036	2300			
	3.360*	1.4550	1.9512	2328	3122	2619	3512	2910	3902	2910	3902	2300			
	3.448*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	2834	3800	2300			
ZF 9055 V 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3320	4452	2300	1400	3086	
	3.208*	1.5050	2.0182	2408	3229	2709	3633	3010	4036	3010	4036	2300			
	3.462*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	2834	3800	2300			
ZF 9300 ^{8, 14}	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300	1910	4211	SAE 00
	4.783*	1.3060	1.7514	2090	2802	2351	3153	2612	3502	2612	3502	2300			
	4.958*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2485	3332	2300			
	5.185*	1.1850	1.5891	1896	2543	2133	2860	2370	3178	2370	3178	2300			
ZF 9311 ⁸	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300	2430	5357	SAE 00
	4.783*	1.3060	1.7514	2090	2802	2351	3153	2612	3502	2612	3502	2300			
	4.958*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2485	3332	2300			
	5.185*	1.1850	1.5891	1896	2543	2133	2860	2370	3178	2370	3178	2300			

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		2000 rpm							
ZF 9350 ^{8, 14}	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.4660	1.9659	2346	3145	2639	3539	2932	3931	2932	3931	2300	1910	4211	SAE 00
	4.783*	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300			
	4.958*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	2640	3540	2300			
	5.185*	1.2575	1.6863	2012	2698	2264	3035	2515	3372	2515	3372	2300			
ZF 9351 ⁸	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.4660	1.9659	2346	3145	2639	3539	2932	3931	2932	3931	2300	2430	5357	SAE 00
	4.783*	1.3825	1.8540	2212	2966	2489	3337	2765	3707	2765	3707	2300			
	4.958*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	2640	3540	2300			
	5.185*	1.2575	1.6863	2012	2698	2264	3035	2515	3372	2515	3372	2300			
ZF 9355 ^{8, 14}	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3320	4452	2300	1910	4211	SAE 00
	4.783*	1.5350	2.0585	2456	3294	2763	3705	3070	4116	3070	4116	2300			
	4.958*	1.4800	1.9847	2368	3176	2664	3572	2960	3969	2960	3969	2300			
	5.185*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	2834	3800	2300			
ZF 9356 ⁸	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3320	4452	2300	2430	5357	SAE 00
	4.783*	1.5350	2.0585	2456	3294	2763	3705	3070	4116	3070	4116	2300			
	4.958*	1.4800	1.9847	2368	3176	2664	3572	2960	3969	2960	3969	2300			
	5.185*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	2834	3800	2300			
ZF 10830 ¹⁴	3.341, 4.742, 5.357, 5.846, 6.417, 7.091, 7.476, 7.524	1.3130	1.7608	2101	2817	2363	3169	2626	3522	2757	3697	2100	3500	7716	
	7.900	1.2500	1.6763	2000	2682	2250	3017	2500	3353	2625	3520	2100			
	8.368	1.0800	1.4483	1728	2317	1944	2607	2160	2897	2268	3041	2100			
ZF 10830 NR ^{11, 14}	3.341, 4.742, 5.357, 5.846, 6.417, 7.091, 7.476, 7.524	1.3130	1.7608	2101	2817	2363	3169	2626	3522	2757	3697	2100	3185	7022	
	7.900	1.2500	1.6763	2000	2682	2250	3017	2500	3353	2625	3520	2100			
	8.368	1.0800	1.4483	1728	2317	1944	2607	2160	2897	2268	3041	2100			
ZF 10850 ¹⁴	3.341, 4.742, 5.357, 5.846, 6.417, 7.091, 7.476, 7.524	1.3830	1.8546	2213	2967	2489	3338	2766	3709	2800	3754	2100	3500	7716	
ZF 10850 NR ^{11, 14}	3.341, 4.742, 5.357, 5.846, 6.417, 7.091, 7.476, 7.524	1.3830	1.8546	2213	2967	2489	3338	2766	3709	2904	3894	2100	3185	7022	

⁸ U-drive version also available.

¹¹ NC version is also available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		2000 rpm							
ZF 11830 ¹⁴	3.244, 4.613, 5.000, 5.444, 5.960, 6.250, 6.565, 6.909, 7.286, 7.526	1.4660	1.9659	2346	3145	2639	3539	2932	3932	3079	4128	2100	3840	8466	
	7.700	1.4270	1.9136	2283	3062	2569	3444	2854	3827	2997	4019	2100			
	8.158	1.3250	1.7769	2120	2843	2385	3198	2650	3554	2783	3731	2100			
	8.700	1.0500	1.4081	1680	2253	1890	2535	2100	2816	2205	2956	2100			
ZF 11830 NR ^{11, 14}	3.244, 4.613, 5.000, 5.444, 5.960, 6.250, 6.565, 6.909, 7.286, 7.526	1.4660	1.9659	2346	3145	2639	3539	2932	3932	3079	4128	2100	3460	7628	
	7.700	1.4270	1.9136	2283	3062	2569	3444	2854	3827	2997	4019	2100			
	8.158	1.3250	1.7769	2120	2843	2385	3198	2650	3554	2783	3731	2100			
	8.700	1.0500	1.4081	1680	2253	1890	2535	2100	2816	2205	2956	2100			
ZF 11850 ¹⁴	3.244, 4.613, 5.000, 5.444, 5.960, 6.250, 6.565	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3320	4452	2100	3840	8466	
	6.909	1.5880	2.1295	2541	3407	2858	3833	3176	4259	3320	4452	2100			
	7.286	1.5080	2.0223	2413	3236	2714	3640	3016	4045	3167	4247	2100			
ZF 11850 NR ^{11, 14}	3.244, 4.613, 5.000, 5.444, 5.960, 6.250, 6.565	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3486	4674	2100	3460	7628	
	6.909	1.5880	2.1295	2541	3407	2858	3833	3176	4259	3335	4472	2100			
	7.286	1.5080	2.0223	2413	3236	2714	3640	3016	4045	3167	4247	2100			
				1600 rpm		1800 rpm		2050 rpm							
ZF 23560 C (IV=1.000)	1.721, 2.278, 2.839, 3.577	2.2513	3.0190	3602	4830	4052	5434	4615	6188	4615	6188	2100	2600	5732	
ZF 23560 C (IV=1.130)	4.042	1.9924	2.6719	3188	4275	3586	4809	4084	5476	4084	5476	2100	2600	5732	
ZF 23560 C (IV=1.273)	4.552*	1.7686	2.3717	2830	3795	3183	4269	3625	4861	3625	4861	2100	2600	5732	
ZF 23560 C (IV=1.432)	5.122*	1.5725	2.1088	2516	3374	2831	3796	3223	4322	3223	4322	2100	2600	5732	
				700 rpm		800 rpm		900 rpm							
ZF 23860 C (IV=0.492)	0.697*, 0.847*, 1.121*, 1.397*, 1.760*	4.5759	6.1364	3203	4295	3661	4909	4118	5522	4118	5522	1000	2600	5732	
				1600 rpm		1800 rpm		2050 rpm							
ZF 24060 D ^{9, 14}	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	2050	2650	5842	
	3.947*	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599	2050			

⁹ Left and Right version available.

¹¹ NC version is also available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		2050 rpm							
ZF 24060 NR2	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	2050	1890	4167	
	3.947*	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599	2050			
ZF 24060 NR2B	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	2050	1890	4167	
	3.947*	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599	2050			
ZF 24060 NR2H ⁹	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	2050	1860	4101	
	3.947*	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599	2050			
ZF 24060 SGC ¹⁴ (IV=1.000)	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	2050	3250	7165	
	3.947*	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599	2050			
ZF 24060 SGC ¹⁴ (IV=1.173)	4.630	1.7363	2.3284	2778	3725	3125	4191	3559	4773	3559	4773	2050	3250	7165	
ZF 24060 SGC ¹⁴ (IV=1.280)	5.052	1.5913	2.1340	2546	3414	2864	3841	3262	4375	3262	4375	2050	3250	7165	
ZF 24060 SGC ¹⁴ (IV=1.354)	5.344	1.5043	2.0173	2407	3228	2708	3631	3084	4135	3084	4135	2050	3250	7165	
ZF 24360 D ^{8, 9, 14}	4.036, 5.087, 5.950	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	2050	3870	8532	
	6.421	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599	2050			
ZF 24360 SG ^{8, 9, 14} (IV=1.000)	4.036, 5.087, 5.950	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	2050	4500	9921	
	6.421	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599	2050			
ZF 24360 SG ^{8, 9, 14} (IV=1.173)	6.980	1.9191	2.5736	3071	4118	3454	4632	3934	5276	3934	5276	2050	4500	9921	
ZF 24360 SG ^{8, 9, 14} (IV=1.280)	7.616	1.7588	2.3586	2814	3774	3166	4245	3606	4835	3606	4835	2050	4500	9921	
ZF 24360 SG ^{8, 9, 14} (IV=1.354)	8.056	1.6627	2.2297	2660	3568	2993	4013	3409	4571	3409	4571	2050	4500	9921	
	8.694	1.5043	2.0173	2407	3228	2708	3631	3084	4135	3084	4135	2050			
				1000 rpm		1150 rpm		1250 rpm							
ZF 30050 NR2	1.514*, 1.735, 1.906, 2.032, 2.207*	2.9391	3.9414	2939	3941	3380	4533	3674	4927	3674	4927	1250	1900	4189	
ZF 30050 NR2B	1.514*, 1.735, 1.906, 2.032, 2.207*	2.9391	3.9414	2939	3941	3380	4533	3674	4927	3674	4927	1250	1900	4189	
ZF 30050 NR2H ⁹	1.514*, 1.735, 1.906, 2.032, 2.207*	2.9391	3.9414	2939	3941	3380	4533	3674	4927	3674	4927	1250	1870	4123	

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1200 rpm		1400 rpm		1520 rpm							
ZF 30050 SGC ¹⁴ (IV=0.759)	1.542, 1.955, 2.483	2.9676	3.9796	3561	4776	4155	5571	4511	6049	4511	6049	1520	3250	7165	
	2.807	2.8263	3.7901	3392	4548	3957	5306	4296	5761	4296	5761	1520			
	2.994	2.6849	3.6005	3222	4321	3759	5041	4081	5473	4081	5473	1520			
ZF 30350 SG ^{8, 9, 14} (IV=0.759)	3.062, 4.514	2.9676	3.9796	3561	4776	4155	5571	4511	6049	4511	6049	1520	4575	10086	
	4.871	2.6849	3.6005	3222	4321	3759	5041	4081	5473	4081	5473	1520			
				1000 rpm		1150 rpm		1250 rpm							
ZF 40060 NR2	1.514*, 1.735, 1.906	4.2304	5.6731	4230	5673	4865	6524	5288	7091	5288	7091	1250	2010	4431	
ZF 40060 NR2B	1.514*, 1.735, 1.906	4.2304	5.6731	4230	5673	4865	6524	5288	7091	5288	7091	1250	2010	4431	
ZF 40060 NR2H ⁹	1.514*, 1.735, 1.906	4.2304	5.6731	4230	5673	4865	6524	5288	7091	5288	7091	1250	1880	4145	
				900 rpm		1000 rpm		1050 rpm							
ZF 40060 SGC ¹⁴ (IV=0.522)	1.588	4.3129	5.7837	3882	5205	4313	5784	4529	6073	4529	6073	1050	3260	7187	
				1000 rpm		1100 rpm		1230 rpm							
ZF 40060 SGC ¹⁴ (IV=0.585)	1.507, 2.032	4.2276	5.6693	4228	5669	4650	6236	5200	6973	5200	6973	1230	3260	7187	
	2.307	3.4840	4.6721	3484	4672	3832	5139	4285	5747	4285	5747	1230			
				900 rpm		1000 rpm		1050 rpm							
ZF 40360 SG ^{8, 9, 14} (IV=0.522)	2.107, 2.655, 3.106	4.3129	5.7837	3882	5205	4313	5784	4529	6073	4529	6073	1050	4625	10196	
	3.352	3.9019	5.2325	3512	4709	3902	5233	4097	5494	4097	5494	1050			
				1000 rpm		1100 rpm		1230 rpm							
ZF 40360 SG ^{8, 9, 14} (IV=0.585)	2.360, 2.974, 3.478	4.2276	5.6693	4228	5669	4650	6236	5200	6973	5200	6973	1230	4625	10196	
	3.754	3.4840	4.6721	3484	4672	3832	5139	4285	5747	4285	5747	1230			
				1000 rpm		1200 rpm		1300 rpm							
ZF 43600 NR2	2.536, 2.960, 3.667	5.2000	6.9733	5200	6973	6240	8368	6760	9065	6760	9065	1300	6400	14110	
	3.714	4.7060	6.3108	4706	6311	5647	7573	6118	8204	6118	8204	1300			
	3.950	4.3890	5.8857	4389	5886	5267	7063	5706	7651	5706	7651	1300			
	4.409	3.7710	5.0570	3771	5057	4525	6068	4902	6574	4902	6574	1300			
ZF 43700 NR2	2.516, 3.037, 3.500, 3.739, 4.400, 4.478	5.2000	6.9733	5200	6973	6240	8368	6760	9065	6760	9065	1300	9300	20503	
	4.609	5.0690	6.7976	5069	6798	6083	8157	6590	8837	6590	8837	1300			
	4.684	4.9940	6.6971	4994	6697	5993	8037	6492	8705	6492	8705	1300			
	4.952	4.7270	6.3390	4727	6339	5672	7607	6145	8240	6145	8240	1300			
	6.238	3.4450	4.6198	3445	4620	4134	5544	4479	6006	4479	6006	1300			

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

Medium Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				750 rpm		1000 rpm		1200 rpm							
ZF 53000 NR2B	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	5.6000	7.5097	4200	5632	5600	7510	6720	9011	6720	9011	1350	3900	8598	
ZF 53000 NR2H ⁹	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	5.6000	7.5097	4200	5632	5600	7510	6720	9011	6720	9011	1350	3750	8267	
ZF 53500 NR2B	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	7.3298	9.8294	5497	7372	7330	9829	8795	11794	8795	11794	1350	3980	8774	
ZF 53500 NR2H ⁹	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	7.3298	9.8294	5497	7372	7330	9829	8795	11794	8795	11794	1350	3825	8433	
				1000 rpm		1200 rpm		1300 rpm							
ZF 53600 NR2 ⁹	2.481, 2.917, 3.476, 3.700	7.2800	9.7626	7280	9763	8736	11715	9464	12691	9464	12691	1350	9200	20283	
	4.000	6.7209	9.0129	6721	9013	8065	10815	8737	11716	8737	11716	1350			
	4.500	5.7889	7.7630	5789	7763	6947	9316	7525	10091	7525	10091	1350			
ZF 53600 NR2H ⁹	2.481, 2.917, 3.476, 3.700	7.2800	9.7626	7280	9763	8736	11715	9464	12691	9464	12691	1350	9900	21826	
	4.000	6.7209	9.0129	6721	9013	8065	10815	8737	11716	8737	11716	1350			
	4.500	5.7889	7.7630	5789	7763	6947	9316	7525	10091	7525	10091	1350			
				750 rpm		1000 rpm		1200 rpm							
ZF 53800 NR2B	1.487, 1.694, 1.771, 1.853, 1.912, 2.129	8.0000	10.7282	6000	8046	8000	10728	9600	12873	9600	12873	1350	4080	8995	
ZF 53800 NR2H ⁹	1.487, 1.694, 1.771, 1.853, 1.912, 2.129	8.0000	10.7282	6000	8046	8000	10728	9600	12873	9600	12873	1350	3925	8653	
ZF 60000 NR2H ⁹	1.500, 2.125, 2.226, 2.741	9.1000	12.2033	6825	9152	9100	12203	10920	14643	10920	14643	1350	4650	10251	
ZF 60500 NR2H ⁹	1.500, 2.125, 2.226, 2.367	10.0000	13.4102	7500	10058	10000	13410	12000	16092	12000	16092	1350	4650	10251	
				1000 rpm		1150 rpm		1300 rpm							
ZF 83700 NR2H ⁹	2.867, 3.462, 4.227, 4.800	8.0000	10.7282	8000	10728	9200	12337	10400	13946	10400	13946	1350	15500	34172	
	5.042*	7.6160	10.2132	7616	10213	8758	11745	9900	13276	9900	13276	1350			
	5.591	6.7200	9.0117	6720	9012	7728	10363	8736	11715	8736	11715	1350			
				900 rpm		1000 rpm		1050 rpm							
ZF 83750 NR2H ⁹	2.867, 3.462, 4.227	10.0000	13.4102	9000	12069	10000	13410	10500	14080	10500	14080	1100	15500	34172	
	4.800	9.0800	12.1765	8172	10959	9080	12177	9534	12785	9534	12785	1100			
	5.042*	8.6860	11.6481	7817	10483	8686	11648	9120	12230	9120	12230	1100			
	5.591	7.8000	10.4600	7020	9414	7800	10460	8190	10982	8190	10982	1100			

⁹ Left and Right version available.

* Special Order Ratio.



Transmissions Continuous Duty

Continuous Duty
Single Speed



PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	'A' Pos	'B' Pos	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					1800 rpm		2300 rpm		2600 rpm							
ZF 12 M ¹²	2.136	1.955	0.0105	0.0141	19	25	24	32	27	37	40	53	5000	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	2.632	1.955	0.0094	0.0126	17	23	22	29	24	33	40	53	5000			
ZF 15 M ¹²	1.556	1.955	0.0126	0.0169	23	30	29	39	33	44	40	53	5000	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	1.875	1.955	0.0115	0.0154	21	28	26	35	30	40	40	53	5000			
ZF 15 MA ¹² 8 degrees	1.875	1.955	0.0115	0.0154	21	28	26	35	30	40	40	53	5000	14	30	SAE 4, 5, 6, B/W, Yanmar JH
	2.136	1.955	0.0103	0.0138	19	25	24	32	27	36	40	53	5000			
	2.632	1.955	0.0094	0.0126	17	23	22	29	24	33	40	53	5000			
ZF 15 MIV ¹² 15 degrees	2.134	2.224	0.0115	0.0154	21	28	26	35	30	40	40	53	5000	20	44	SAE 4, 5, B/W, Yanmar JH
	2.718	2.224	0.0094	0.0126	17	23	22	29	24	33	40	53	5000			
	2.995	2.224														
					1800 rpm		2100 rpm		2400 rpm							
ZF 25	1.969	1.969	0.0172	0.0231	31	42	36	49	41	55	55	74	3200	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	2.800	2.800	0.0166	0.0223	30	40	35	47	40	54	53	71	3200			
ZF 25 A 8 degrees	1.548	1.548	0.0172	0.0231	31	42	36	49	41	55	55	74	3200	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	1.926	1.926														
	2.292	2.292														
	2.480*	2.480*														
	2.714	2.714	0.0166	0.0223	30	40	35	47	40	54	53	71	3200			
					1800 rpm		2300 rpm		2600 rpm							
ZF 25 M ¹²	1.880	2.095	0.0189	0.0253	34	46	43	58	49	66	57	76	5000	19	41	SAE 4, 5, B/W, Yanmar JH
	2.273	2.095	0.0153	0.0205	28	37	35	47	40	53	57	76	5000			
	2.737	2.722	0.0127	0.0170	23	31	29	39	33	44	57	76	5000			
ZF 25 MA ¹² 8 degrees	2.227	2.737	0.0153	0.0205	28	37	35	47	40	53	57	76	5000	21	46	SAE 4, 5, B/W, Yanmar JH
	2.737	2.737	0.0126	0.0169	23	30	29	39	33	44	57	76	5000			
ZF 30 M ¹²	2.148	2.636	0.0173	0.0232	31	42	40	53	45	60	68	92	5000	23	51	4 & 5 Yanmar JH
	2.696	2.636														
					1800 rpm		2100 rpm		2400 rpm							
ZF 45 A 8 degrees	1.256	1.256	0.0312	0.0418	56	75	66	88	75	100	100	134	3200	28	62	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.514	1.514														
	2.034	2.034														
	2.435	2.435	0.0287	0.0385	52	69	60	81	69	92	92	123	3200			

¹² Reduced power capacity by the following shock factors: 1 cylinder engine ÷ 1.25, 2 cylinder engine ÷ 1.20, 3 cylinder engine ÷ 1.15

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

Continuous Duty
Single Speed



PRODUCT	Ratios		Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
	'A' Pos	'B' Pos	kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
					1800 rpm		2100 rpm		2400 rpm							
ZF 45-1	2.200	2.200	0.0429	0.0575	77	104	90	121	103	138	137	184	3200	60	132	SAE 2, 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	2.512	2.512														
	3.031	3.031														
	3.741	3.741														
ZF 63	1.256	1.250	0.0442	0.0593	80	107	93	125	106	142	141	190	3200	46	101	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.514	1.521														
	1.750*	1.770														
	1.933	1.973														
	2.480	2.476	0.0433	0.0581	78	105	91	122	104	139	139	186	3200			
	2.783	2.799														
ZF 63 A 8 degrees	1.216	1.215	0.0471	0.0632	85	114	99	133	113	152	151	202	3200	44	97	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.563	1.583	0.0443	0.0594	80	107	93	125	106	143	142	190	3200			
	2.037	2.017														
	2.522	2.536	0.0387	0.0519	70	93	81	109	93	125	124	166	3200			
	2.682	2.709														
ZF 63 IV 12 degrees	1.294	1.288	0.0471	0.0632	85	114	99	133	113	152	151	202	3200	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567	0.0442	0.0593	80	107	93	125	106	142	141	190	3200			
	1.992	2.033														
	2.477	2.528	0.0433	0.0581	78	105	91	122	104	139	139	186	3200			
ZF 68 IV 12 degrees	1.294	1.288	0.0471	0.0632	85	114	99	133	113	152	283	379	6000	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567	0.0442	0.0593	80	107	93	125	106	142	265	356	6000			
	1.746	1.749														
	1.992	2.033														
	2.477	2.528	0.0433	0.0581	78	105	91	122	104	139	260	349	6000			
ZF 85 A 8 degrees	1.567	1.567	0.0696	0.0933	125	168	146	196	167	224	223	299	3200	69	152	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	1.750	1.750														
	1.962	1.962														
	2.500	2.500														
ZF 85 IV 12 degrees	1.644	1.638	0.0726	0.0974	131	175	152	205	174	234	232	312	3200	86	190	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	2.008	1.996														
	2.493	2.468	0.0696	0.0933	125	168	146	196	167	224	223	299	3200			

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1800 rpm		2100 rpm		2300 rpm							
ZF 220	1.000, 1.128*, 1.237*, 1.400*	0.0603	0.0809	109	146	127	170	139	186	193	259	3200	63	139	SAE 2, 3, 3 CAT
	1.500*, 1.963, 2.478	0.0592	0.0794	107	143	124	167	136	183	189	254	3200			
	3.000	0.0513	0.0688	92	124	108	144	118	158	164	220	3200			
ZF W220	2.617	0.0666	0.0893	120	161	140	188	153	205	213	286	3200	105	231	SAE 2, 3, 3 CAT
	3.133	0.0615	0.0825	111	149	129	173	141	190	197	264	3200			
	3.555	0.0562	0.0754	101	136	118	158	129	173	180	241	3200			
	3.960	0.0510	0.0684	92	123	107	144	117	157	163	219	3200			
	4.636	0.0462	0.0620	83	112	97	130	106	143	148	198	3200			
ZF 220 A 10 degrees	1.235*, 1.750*	0.0603	0.0809	109	146	127	170	139	186	193	259	3200	50	110	SAE 2, 3, 3 CAT, B/W
	1.533, 2.040	0.0581	0.0779	105	140	122	164	134	179	186	249	3200			
	2.455*	0.0523	0.0701	94	126	110	147	120	161	167	224	3200			
ZF 280-1	0.814*, 1.000, 1.056*, 1.139*, 1.214*, 1.300, 1.514*, 2.000	0.0775	0.1039	140	187	163	218	178	239	279	374	3600	73	161	SAE 1, 2, 3, 3 CAT
	2.478	0.0724	0.0971	130	175	152	204	167	223	261	350	3600			
	3.000	0.0667	0.0894	120	161	140	188	153	206	240	322	3600			
ZF 280-1 A 7 degrees	1.118*, 1.483, 1.769, 2.000	0.0775	0.1039	140	187	163	218	178	239	279	374	3600	73	161	SAE 1, 2, 3, 3 CAT
	2.227, 2.476*	0.0724	0.0971	130	175	152	204	167	223	261	350	3600			
ZF 286	1.237*, 1.400*, 1.500, 1.966, 2.269	0.1047	0.1404	188	253	220	295	241	323	377	505	3600	86	190	SAE 1, 2, 3, 3 CAT
	0.923*, 1.000*, 2.481*	0.0959	0.1286	173	231	201	270	221	296	345	463	3600			
	2.917	0.0875	0.1173	158	211	184	246	201	270	315	422	3600			
ZF 286 A 7 degrees	1.200*, 1.484*, 1.750, 1.962	0.1047	0.1404	188	253	220	295	241	323	377	505	3600	77	170	SAE 1, 2, 3, 3 CAT
	2.208, 2.391, 2.500	0.0906	0.1215	163	219	190	255	208	279	326	437	3600			
ZF 301-1 A 10 degrees	1.190*, 1.516*, 2.005, 2.551*, 2.901*	0.0681	0.0913	123	164	143	192	157	210	204	274	3000	87	192	SAE 1, 2, 3, 3 CAT
ZF 301-1 C	1.236*, 1.408*, 1.862	0.0733	0.0983	132	177	154	206	169	226	220	295	3000	87	192	SAE 1, 2, 3, 3 CAT
	2.694	0.0716	0.0960	129	173	150	202	165	221	215	288	3000			
				1600 rpm		1800 rpm		2100 rpm							
ZF 305-3	0.884*, 1.000*, 1.220, 1.486*, 1.968	0.1296	0.1738	207	278	233	313	272	365	389	521	3000	98	216	SAE 1, 2, 3
	2.250*	0.1154	0.1548	185	248	208	279	242	325	346	464	3000			
	2.500	0.1136	0.1523	182	244	204	274	239	320	341	457	3000			
	2.917	0.1012	0.1357	162	217	182	244	213	285	304	407	3000			

* Special Order Ratio.
B/W = Borg Warner adaptor.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		2100 rpm							
ZF 305-3 A 7 degrees	1.200*, 1.514, 1.733, 2.037	0.1296	0.1738	207	278	233	313	272	365	389	521	3000	97	214	SAE 1, 2, 3
	2.179	0.1154	0.1548	185	248	208	279	242	325	346	464	3000			
	2.423	0.1136	0.1523	182	244	204	274	239	320	341	457	3000			
ZF W320	2.958	0.1491	0.1999	239	320	268	360	313	420	358	480	2400	270	595	SAE 1, 2
	4.048	0.1368	0.1835	219	294	246	330	287	385	328	440	2400			
	4.526*	0.1284	0.1722	205	276	231	310	270	362	308	413	2400			
	4.950*	0.1160	0.1556	186	249	209	280	244	327	278	373	2400			
ZF W325	2.933*, 3.407, 3.958	0.1657	0.2222	265	356	298	400	348	467	431	578	2600	315	694	SAE 1
	4.409	0.1533	0.2056	245	329	276	370	322	432	399	535	2600			
	5.167*	0.1243	0.1667	199	267	224	300	261	350	323	433	2600			
ZF 325-1	1.000, 1.167*, 1.225*, 1.459*, 1.727, 2.033	0.1556	0.2087	249	334	280	376	327	438	467	626	3000	130	287	SAE 1
	2.500	0.1450	0.1944	232	311	261	350	305	408	435	583	3000			
	2.957	0.1326	0.1778	212	284	239	320	278	373	398	533	3000			
ZF 325-1 A 7 degrees	1.216*, 1.485, 1.733, 2.037, 2.240*	0.1556	0.2087	249	334	280	376	327	438	467	626	3000	130	287	SAE 1
	2.417	0.1450	0.1944	232	311	261	350	305	408	435	583	3000			
ZF 335 A 7 degrees	1.441*, 1.594*, 1.767, 1.964, 2.192*	0.1802	0.2417	288	387	324	435	378	508	541	725	3000	159	351	SAE 1
	2.458	0.1699	0.2278	272	364	306	410	357	478	510	683	3000			
ZF W350-1	3.026*, 3.500*, 3.968*, 4.536, 4.962, 5.955*	0.2071	0.2777	331	444	373	500	435	583	497	666	2400	500	1102	SAE 0, 1
	6.409*	0.1781	0.2388	285	382	321	430	374	501	427	573	2400			
ZF 360	0.925*, 1.045*, 1.125*, 1.237*, 1.500, 1.774, 1.966, 2.185, 2.480, 2.625	0.1802	0.2417	288	387	324	435	378	508	541	725	3000	185	408	SAE 0, 1
	2.917	0.1775	0.2380	284	381	320	428	373	500	533	714	3000			
ZF 360 A 7 degrees	1.216*, 1.485, 1.767, 1.964, 2.192, 2.478, 2.609	0.1802	0.2417	288	387	324	435	378	508	541	725	3000	187	412	SAE 0, 1
ZF 370 V 10 degrees	1.125*, 1.774*, 2.000, 2.222*, 2.480	0.1802	0.2417	288	387	324	435	378	508	541	725	3000	194	428	
ZF 500	1.000*, 1.125, 1.237*, 1.500, 1.774*, 1.966	0.2486	0.3334	398	533	447	600	522	700	746	1000	3000	185	408	SAE 0, 1
	2.185*	0.2279	0.3056	365	489	410	550	479	642	684	917	3000			
	0.925*	0.2217	0.2973	355	476	399	535	466	624	665	892	3000			
	2.480*	0.2079	0.2788	333	446	374	502	437	585	624	836	3000			
	2.625*	0.1989	0.2667	318	427	358	480	418	560	597	800	3000			
	2.917*	0.1864	0.2500	298	400	336	450	391	525	559	750	3000			

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		2100 rpm							
ZF 500-1 A 7 degrees	1.216*, 1.485*, 1.767, 1.964	0.2486	0.3334	398	533	447	600	522	700	746	1000	3000	192	423	SAE 0, 1
	2.192	0.2279	0.3056	365	489	410	550	479	642	684	917	3000			
	2.478*	0.2079	0.2788	333	446	374	502	437	585	624	836	3000			
	2.609*	0.1989	0.2667	318	427	358	480	418	560	597	800	3000			
ZF 510 V 10 degrees	1.125*, 1.774*, 2.000	0.2486	0.3334	398	533	447	600	522	700	746	1000	3000	200	441	
	2.222*	0.2279	0.3056	365	489	410	550	479	642	684	917	3000			
ZF 510-1 A 10 degrees	1.125*, 1.774, 2.000	0.2486	0.3334	398	533	447	600	522	700	746	1000	3000	193	425	SAE 0, 1
	2.222, 2.480*	0.2279	0.3056	365	489	410	550	479	642	684	917	3000			
ZF 550-1	1.111, 1.182*, 1.262*, 1.833*, 2.000, 2.233*	0.2492	0.3342	399	535	449	602	523	702	748	1003	3000	242	534	SAE 0, 1
	2.593	0.2399	0.3217	384	515	432	579	504	676	720	965	3000			
	3.042*	0.1991	0.2670	319	427	358	481	418	561	597	801	3000			
ZF 550-1 A 10 degrees	1.525*, 1.971, 2.226, 2.448	0.2492	0.3342	399	535	449	602	523	702	748	1003	3000	256	564	SAE 0, 1
	2.517	0.2398	0.3216	384	515	432	579	504	675	719	965	3000			
	2.960*	0.1990	0.2669	318	427	358	480	418	560	597	801	3000			
ZF 550-1 V 10 degrees	1.525*, 1.971, 2.226, 2.448	0.2492	0.3342	399	535	449	602	523	702	748	1003	3000	260	573	
	2.960*	0.1990	0.2669	318	427	358	480	418	560	597	801	3000			
ZF W650	3.605*, 4.057, 4.531*, 5.138, 5.593	0.2487	0.3335	398	534	448	600	522	700	647	867	2600	561	1237	SAE 0, 1
	6.417*	0.2105	0.2823	337	452	379	508	442	593	547	734	2600			
ZF 665	1.111, 1.182*, 1.262, 1.400*, 1.500*, 1.743, 2.000	0.2900	0.3889	464	622	522	700	609	817	870	1167	3000	248	547	SAE 0, 1
	2.233*, 2.593	0.2692	0.3610	431	578	485	650	565	758	808	1083	3000			
	3.042*	0.2237	0.3000	358	480	403	540	470	630	671	900	3000			
ZF 665 A 10 degrees	1.525*, 1.971	0.2900	0.3889	464	622	522	700	609	817	870	1167	3000	253	558	SAE 0, 1
	2.226	0.2692	0.3610	431	578	485	650	565	758	808	1083	3000			
	2.517	0.2652	0.3556	424	569	477	640	557	747	796	1067	3000			
	2.960*	0.2382	0.3194	381	511	429	575	500	671	715	958	3000			
ZF 665 V 10 degrees	1.525*, 1.757, 1.971*	0.2900	0.3889	464	622	522	700	609	817	870	1167	3000	252	556	
	2.226*	0.2692	0.3610	431	578	485	650	565	758	808	1083	3000			
	2.517	0.2652	0.3556	424	569	477	640	557	747	796	1067	3000			
	2.960*	0.2382	0.3194	381	511	429	575	500	671	715	958	3000			

* Special Order Ratio.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		2100 rpm							
ZF 2000	1.086*, 1.191*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.2817	0.3778	451	604	507	680	592	793	592	793	2100	340	750	SAE 0, 1
	2.760*	0.2595	0.3480	415	557	467	626	545	731	545	731	2100			
	2.958	0.2454	0.3291	393	527	442	592	515	691	515	691	2100			
ZF 2000 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*	0.2817	0.3778	451	604	507	680	592	793	592	793	2100	348	767	SAE 0, 1
	2.920	0.2550	0.3420	408	547	459	616	536	718	536	718	2100			
	3.250*	0.2162	0.2899	346	464	389	522	454	609	454	609	2100			
ZF 2000 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*	0.2817	0.3778	451	604	507	680	592	793	592	793	2100	352	776	
	2.920	0.2550	0.3420	408	547	459	616	536	718	536	718	2100			
	3.250*	0.2162	0.2899	346	464	389	522	454	609	454	609	2100			
ZF 2050	1.086*, 1.191*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.3111	0.4172	498	668	560	751	653	876	653	876	2100	342	754	SAE 0, 1
ZF 2050 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.3111	0.4172	498	668	560	751	653	876	653	876	2100	350	772	SAE 0, 1
ZF 2050 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.3111	0.4172	498	668	560	751	653	876	653	876	2100	354	780	
ZF 2150	2.760*	0.2866	0.3843	459	615	516	692	602	807	602	807	2100	344	758	SAE 0, 1
	2.958	0.2711	0.3636	434	582	488	654	569	764	569	764	2100			
ZF 2150 A 10 degrees	2.714*	0.3111	0.4172	498	668	560	751	653	876	653	876	2100	352	776	SAE 0, 1
	2.920	0.2817	0.3778	451	604	507	680	592	793	592	793	2100			
	3.250*	0.2388	0.3202	382	512	430	576	501	672	501	672	2100			
ZF 2150 V 10 degrees	2.714*	0.3111	0.4172	498	668	560	751	653	876	653	876	2100	356	785	
	2.920	0.2817	0.3778	451	604	507	680	592	793	592	793	2100			
	3.250*	0.2388	0.3202	382	512	430	576	501	672	501	672	2100			
ZF 2200 ¹³	3.000, 3.519*	0.2819	0.3780	451	605	507	680	592	794	592	794	2100	404	891	SAE 0, 1
ZF 2250 ¹³	3.000, 3.519*	0.3111	0.4172	498	668	560	751	653	876	653	876	2100	406	895	SAE 0, 1
ZF 2300 ⁸	4.000, 4.444	0.2819	0.3780	451	605	507	680	592	794	592	794	2100	434	957	SAE 0, 1
ZF W2300 ⁸	3.028*, 3.500*, 4.000, 4.444, 4.760*	0.2819	0.3780	451	605	507	680	592	794	592	794	2100	590	1301	SAE 0, 1
ZF 2350 ⁸	4.000, 4.444	0.3109	0.4169	497	667	560	750	653	875	653	875	2100	436	961	SAE 0, 1
	4.760*	0.2985	0.4003	478	640	537	721	627	841	627	841	2100			
ZF W2350 ⁸	3.028*, 3.500*, 4.000, 4.444	0.3109	0.4169	497	667	560	750	653	875	653	875	2100	590	1301	SAE 0, 1
	4.760*	0.2985	0.4003	478	640	537	721	627	841	627	841	2100			

⁸ U-drive version also available.

¹³ No classification available.

* Special Order Ratio.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		2100 rpm							
ZF W2450	5.036, 5.500, 6.042, 6.160	0.3109	0.4169	497	667	560	750	560	750	560	750	2100	760	1676	SAE 0, 1
	6.458	0.2585	0.3467	414	555	465	623	465	623	465	623	2100			
	6.923	0.2249	0.3016	360	483	405	543	405	543	405	543	2100			
ZF 3000	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.3980	0.5337	637	854	716	961	836	1121	836	1121	2100	482	1063	SAE 00, 0, 1
ZF 3000 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.3980	0.5337	637	854	716	961	836	1121	836	1121	2100	485	1069	SAE 0, 1
	3.280*	0.3400	0.4559	544	729	612	821	714	957	714	957	2100			
ZF 3000 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.3980	0.5337	637	854	716	961	836	1121	836	1121	2100	500	1102	
	3.280*	0.3400	0.4559	544	729	612	821	714	957	714	957	2100			
ZF 3050	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.4664	0.6255	746	1001	840	1126	979	1314	979	1314	2100	482	1063	SAE 00, 0, 1
ZF 3050 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.4664	0.6255	746	1001	840	1126	979	1314	979	1314	2100	485	1069	SAE 0, 1
	3.280*	0.4105	0.5505	657	881	739	991	862	1156	862	1156	2100			
ZF 3050 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.594*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.4664	0.6255	746	1001	840	1126	979	1314	979	1314	2100	482	1063	
ZF 3050 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.4664	0.6255	746	1001	840	1126	979	1314	979	1314	2100	500	1102	
	3.280*	0.4105	0.5505	657	881	739	991	862	1156	862	1156	2100			
ZF 3150 A ¹³ 10 degrees	1.257*, 1.500*, 1.759*, 1.963, 2.240, 2.478*	0.4664	0.6255	746	1001	840	1126	979	1314	979	1314	2100	470	1036	SAE 0, 1
ZF 3310 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.3980	0.5337	637	854	716	961	836	1121	836	1121	2100	665	1466	SAE 00, 0, 1
ZF W3310 ¹⁴	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.3980	0.5337	637	854	716	961	836	1121	836	1121	2100	850	1874	SAE 00, 0, 1

³ “D” transmissions only for use in counter engine wise (CEW) condition. Engine wise (EW) operation only for waterjet flushing.
⁸ U-drive version also available.
⁹ Left and Right version available.
¹³ No classification available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		2100 rpm							
ZF 3350 ⁸	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.4750	0.6370	760	1019	855	1147	998	1338	998	1338	2100	665	1466	SAE 00, 0, 1
ZF W3350 ¹⁴	2.647*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.4750	0.6370	760	1019	855	1147	998	1338	998	1338	2100	850	1874	SAE 00, 0, 1
				1200 rpm		1600 rpm		1800 rpm							
ZF W3355 ¹⁴	2.647*, 3.000*, 3.519*, 4.000, 4.250*	0.5556	0.7451	667	894	889	1192	1000	1341	1000	1341	1800	855	1885	SAE 00, 0, 1
	4.478	0.5298	0.7105	636	853	848	1137	954	1279	954	1279	1800			
	4.727*	0.5089	0.6824	611	819	814	1092	916	1228	916	1228	1800			
	5.000	0.4838	0.6488	581	779	774	1038	871	1168	871	1168	1800			
				1600 rpm		1800 rpm		2100 rpm							
ZF W3710	3.767*, 4.259*, 5.545, 5.952	0.3980	0.5337	637	854	716	961	836	1121	836	1121	2100	920	2028	SAE 0, 1
ZF W3750	3.767*, 4.259*, 5.545, 5.952	0.4750	0.6370	760	1019	855	1147	998	1338	998	1338	2100	920	2028	SAE 0, 1
ZF W3755	3.767*, 4.259*, 4.538*, 5.042*	0.5556	0.7451	889	1192	1000	1341	1167	1565	1167	1565	2100	920	2028	SAE 0, 1
	5.545	0.5131	0.6881	821	1101	924	1239	1078	1445	1078	1445	2100			
	5.952	0.4838	0.6488	774	1038	871	1168	1016	1362	1016	1362	2100			
				1600 rpm		1800 rpm		1900 rpm							
ZF 5000	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.5497	0.7372	880	1180	989	1327	1044	1400	1044	1400	2000	740	1631	SAE 00, 0
ZF 5000 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.5497	0.7372	880	1180	989	1327	1044	1400	1044	1400	2000	750	1653	SAE 00, 0
ZF 5000 D ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.5497	0.7372	880	1180	989	1327	1044	1400	1044	1400	2000	765	1687	
ZF 5000 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.5497	0.7372	880	1180	989	1327	1044	1400	1044	1400	2000	615	1356	
ZF 5000 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.5497	0.7372	880	1180	989	1327	1044	1400	1044	1400	2000	768	1693	
ZF 5050	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.6319	0.8474	1011	1356	1137	1525	1200	1609	1200	1609	2000	740	1631	SAE 00, 0
ZF 5050 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.6319	0.8474	1011	1356	1137	1525	1200	1609	1200	1609	2000	750	1653	SAE 00, 0
	3.222*	0.5864	0.7864	938	1258	1056	1416	1114	1493	1114	1493	2000			
	3.429*	0.5497	0.7372	880	1180	989	1327	1044	1400	1044	1400	2000			
ZF 5050 D ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.6319	0.8474	1011	1356	1137	1525	1200	1609	1200	1609	2000	765	1687	
ZF 5050 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.6319	0.8474	1011	1356	1137	1525	1200	1609	1200	1609	2000	615	1356	

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1600 rpm		1800 rpm		1900 rpm							
ZF 5050 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.6319	0.8474	1011	1356	1137	1525	1200	1609	1200	1609	2000	768	1693	
	3.222*	0.5864	0.7864	938	1258	1056	1416	1114	1493	1114	1493	2000			
	3.429*	0.5497	0.7372	880	1180	989	1327	1044	1400	1044	1400	2000			
ZF 5055	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.7331	0.9831	1173	1573	1320	1770	1392	1866	1392	1866	2000	740	1631	SAE 00, 0
	2.963	0.6880	0.9226	1101	1476	1238	1661	1307	1752	1307	1752	2000			
ZF 5055 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7331	0.9831	1173	1573	1320	1770	1392	1866	1392	1866	2000	750	1653	SAE 00, 0
	3.222*	0.6880	0.9226	1101	1476	1238	1661	1307	1752	1307	1752	2000			
	3.429*	0.6319	0.8474	1011	1356	1137	1525	1200	1609	1200	1609	2000			
ZF 5055 D ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.7331	0.9831	1173	1573	1320	1770	1392	1866	1392	1866	2000	765	1687	
	2.963	0.6880	0.9226	1101	1476	1238	1661	1307	1752	1307	1752	2000			
ZF 5055 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.7331	0.9831	1173	1573	1320	1770	1392	1866	1392	1866	2000	615	1356	
	2.963	0.6880	0.9226	1101	1476	1238	1661	1307	1752	1307	1752	2000			
ZF 5055 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7331	0.9831	1173	1573	1320	1770	1392	1866	1392	1866	2000	768	1693	
	3.222*	0.6880	0.9226	1101	1476	1238	1661	1307	1752	1307	1752	2000			
	3.429*	0.6319	0.8474	1011	1356	1137	1525	1200	1609	1200	1609	2000			
ZF 5300 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.5497	0.7372	880	1180	989	1327	1044	1400	1044	1400	2000	950	2094	SAE 00, 0
ZF W5300 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.5497	0.7372	880	1180	989	1327	1044	1401	1044	1401	1900	1290	2844	SAE 00, 0
ZF 5350 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.6319	0.8474	1011	1356	1137	1525	1200	1609	1200	1609	2000	950	2094	SAE 00, 0
ZF W5350 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1201	1610	1900	1290	2844	SAE 00, 0
ZF 5355 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.7331	0.9831	1173	1573	1320	1770	1392	1866	1392	1866	2000	950	2094	SAE 00, 0
	5.500	0.6670	0.8945	1067	1431	1201	1610	1267	1699	1267	1699	2000			
ZF W5355 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1393	1868	1900	1290	2844	SAE 00, 0
	5.500	0.6670	0.8945	1067	1431	1201	1610	1267	1700	1267	1700	1900			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1200 rpm		1600 rpm		1800 rpm							
ZF 7600	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1800	970	2138	SAE 00
	2.905	1.0052	1.3480	1206	1618	1608	2157	1809	2426	1809	2426	1800			
	3.174*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249	1800			
ZF 7600 A 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1800	1125	2480	SAE 00
	3.286*	0.9635	1.2921	1156	1551	1542	2067	1734	2326	1734	2326	1800			
	3.450*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249	1800			
ZF 7600 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1800	705	1554	
	2.905	1.0052	1.3480	1206	1618	1608	2157	1809	2426	1809	2426	1800			
	3.174*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249	1800			
ZF 7600 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1800	705	1554	
	2.905	1.0052	1.3480	1206	1618	1608	2157	1809	2426	1809	2426	1800			
	3.174*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249	1800			
ZF 7600 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1800	705	1554	
	2.905	1.0052	1.3480	1206	1618	1608	2157	1809	2426	1809	2426	1800			
	3.174*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249	1800			
ZF 7600 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1800	1125	2480	
	3.286*	0.9635	1.2921	1156	1551	1542	2067	1734	2326	1734	2326	1800			
	3.450*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249	1800			
ZF W7610	4.577*, 5.000, 5.435, 5.952	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1800	2520	5556	SAE 00
	6.250	0.9635	1.2921	1156	1551	1542	2067	1734	2326	1734	2326	1800			
	6.500*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249	1800			
	6.833*	0.8377	1.1234	1005	1348	1340	1797	1508	2022	1508	2022	1800			
ZF W7615	4.577*, 5.000, 5.435, 5.952	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1800	2520	5556	SAE 00
	6.250	1.0695	1.4342	1283	1721	1711	2295	1925	2582	1925	2582	1800			
	6.500*	1.0344	1.3872	1241	1665	1655	2220	1862	2497	1862	2497	1800			
	6.833*	0.9298	1.2469	1116	1496	1488	1995	1674	2244	1674	2244	1800			
ZF 7640	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1800	1325	2921	SAE 00
	4.500	0.9634	1.2919	1156	1550	1541	2067	1734	2325	1734	2325	1800			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1200 rpm		1600 rpm		1800 rpm							
ZF W7640	3.440, 3.625*, 3.826*, 4.000, 4.238*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1800	1750	3858	SAE 00
	4.500	0.9634	1.2919	1156	1550	1541	2067	1734	2325	1734	2325	1800			
ZF 7641	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1800	1750	3858	SAE 00
	4.500	0.9634	1.2919	1156	1550	1541	2067	1734	2325	1734	2325	1800			
ZF 7645	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1800	1325	2921	SAE 00
	4.500	1.0000	1.3410	1200	1609	1600	2146	1800	2414	1800	2414	1800			
ZF W7645	3.440, 3.625*, 3.826*, 4.000, 4.238*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1800	1750	3858	SAE 00
	4.500	1.0000	1.3410	1200	1609	1600	2146	1800	2414	1800	2414	1800			
ZF 7646	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1800	1750	3858	SAE 00
	4.500	1.0000	1.3410	1200	1609	1600	2146	1800	2414	1800	2414	1800			
ZF 7650	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1800	970	2138	SAE 00
	2.905	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669	1800			
	3.174*	1.0157	1.3621	1219	1635	1625	2179	1828	2452	1828	2452	1800			
ZF 7650 A 8 degrees	1.486*, 2.033, 2.250*, 2.538	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1800	1125	2480	SAE 00
	2.957	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669	1800			
	3.286*	1.0597	1.4211	1272	1705	1696	2274	1907	2558	1907	2558	1800			
	3.450*	1.0157	1.3621	1219	1635	1625	2179	1828	2452	1828	2452	1800			
ZF 7650 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1800	705	1554	
	2.905	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669	1800			
	3.174*	1.0157	1.3621	1219	1635	1625	2179	1828	2452	1828	2452	1800			
ZF 7650 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1800	720	1587	
	2.905	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669	1800			
	3.174*	1.0157	1.3621	1219	1635	1625	2179	1828	2452	1828	2452	1800			
ZF 7650 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1800	705	1554	
	2.905	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669	1800			
	3.174*	1.0157	1.3621	1219	1635	1625	2179	1828	2452	1828	2452	1800			

⁹ Left and Right version available.

* Special Order Ratio.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1200 rpm		1600 rpm		1800 rpm							
ZF 7650 V 8 degrees	1.486*, 2.033, 2.250*, 2.538	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1800	1125	2480	
	2.957	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669	1800			
	3.286*	1.0597	1.4211	1272	1705	1696	2274	1907	2558	1907	2558	1800			
	3.450*	1.0157	1.3621	1219	1635	1625	2179	1828	2452	1828	2452	1800			
ZF 7661	4.577*, 4.760*, 5.000, 5.435, 5.952	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1800	2520	5556	SAE 00
	6.250	0.9635	1.2921	1156	1551	1542	2067	1734	2326	1734	2326	1800			
	6.500*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249	1800			
	6.833*	0.8377	1.1234	1005	1348	1340	1797	1508	2022	1508	2022	1800			
ZF 7666	4.577*, 4.760*, 5.000, 5.435, 5.952	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1800	2520	5556	SAE 00
	6.250	1.0695	1.4342	1283	1721	1711	2295	1925	2582	1925	2582	1800			
	6.500*	1.0344	1.3872	1241	1665	1655	2220	1862	2497	1862	2497	1800			
	6.833*	0.9298	1.2469	1116	1496	1488	1995	1674	2244	1674	2244	1800			
ZF 9000	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1800	1400	3086	SAE 00
	3.250*	1.1500	1.5422	1380	1851	1840	2468	2070	2776	2070	2776	1800			
	3.360*	1.1222	1.5049	1347	1806	1796	2408	2020	2709	2020	2709	1800			
	3.448*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655	1800			
ZF 9000 A 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1800	1380	3042	SAE 00
	3.208*	1.1500	1.5422	1380	1851	1840	2468	2070	2776	2070	2776	1800			
	3.462*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655	1800			
ZF 9000 NR2	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1800	1040	2293	
	3.250*	1.1500	1.5422	1380	1851	1840	2468	2070	2776	2070	2776	1800			
	3.360*	1.1222	1.5049	1347	1806	1796	2408	2020	2709	2020	2709	1800			
	3.448*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655	1800			
ZF 9000 NR2B	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1800	1040	2293	
	3.250*	1.1500	1.5422	1380	1851	1840	2468	2070	2776	2070	2776	1800			
	3.360*	1.1222	1.5049	1347	1806	1796	2408	2020	2709	2020	2709	1800			
	3.448*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655	1800			

* Special Order Ratio.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1200 rpm		1600 rpm		1800 rpm							
ZF 9000 NR2H ⁹	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1800	1040	2293	
	3.250*	1.1500	1.5422	1380	1851	1840	2468	2070	2776	2070	2776	1800			
	3.360*	1.1222	1.5049	1347	1806	1796	2408	2020	2709	2020	2709	1800			
	3.448*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655	1800			
ZF 9000 V 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1800	1400	3086	
	3.208*	1.1500	1.5422	1380	1851	1840	2468	2070	2776	2070	2776	1800			
	3.462*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655	1800			
ZF 9050	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1800	1400	3086	SAE 00
	3.250*	1.2556	1.6838	1507	2021	2009	2694	2260	3031	2260	3031	1800			
	3.360*	1.2250	1.6428	1470	1971	1960	2628	2205	2957	2205	2957	1800			
	3.448*	1.2000	1.6092	1440	1931	1920	2575	2160	2897	2160	2897	1800			
ZF 9050 A 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1800	1380	3042	SAE 00
	3.208*	1.2556	1.6838	1507	2021	2009	2694	2260	3031	2260	3031	1800			
	3.462*	1.2000	1.6092	1440	1931	1920	2575	2160	2897	2160	2897	1800			
ZF 9050 NR2	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1800	1040	2293	
	3.250*	1.2556	1.6838	1507	2021	2009	2694	2260	3031	2260	3031	1800			
	3.360*	1.2250	1.6428	1470	1971	1960	2628	2205	2957	2205	2957	1800			
	3.448*	1.2000	1.6092	1440	1931	1920	2575	2160	2897	2160	2897	1800			
ZF 9050 NR2B	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1800	1040	2293	
	3.250*	1.2556	1.6838	1507	2021	2009	2694	2260	3031	2260	3031	1800			
	3.360*	1.2250	1.6428	1470	1971	1960	2628	2205	2957	2205	2957	1800			
	3.448*	1.2000	1.6092	1440	1931	1920	2575	2160	2897	2160	2897	1800			
ZF 9050 NR2H ⁹	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1800	1040	2293	
	3.250*	1.2556	1.6838	1507	2021	2009	2694	2260	3031	2260	3031	1800			
	3.360*	1.2250	1.6428	1470	1971	1960	2628	2205	2957	2205	2957	1800			
	3.448*	1.2000	1.6092	1440	1931	1920	2575	2160	2897	2160	2897	1800			

⁹ Left and Right version available.

* Special Order Ratio.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1200 rpm		1600 rpm		1800 rpm							
ZF 9050 V 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1800	1400	3086	
	3.208*	1.2556	1.6838	1507	2021	2009	2694	2260	3031	2260	3031	1800			
	3.462*	1.2000	1.6092	1440	1931	1920	2575	2160	2897	2160	2897	1800			
ZF 9300 ^{8, 14}	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.2200	1.6360	1464	1963	1952	2618	2196	2944	2196	2944	1800	1910	4211	SAE 00
	4.783*	1.1500	1.5422	1380	1851	1840	2468	2070	2775	2070	2775	1800			
	4.958*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655	1800			
	5.185*	1.0500	1.4081	1260	1690	1680	2253	1890	2534	1890	2534	1800			
ZF 9311 ⁸	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.2200	1.6360	1464	1963	1952	2618	2196	2944	2196	2944	1800	2430	5357	SAE 00
	4.783*	1.1500	1.5422	1380	1851	1840	2468	2070	2775	2070	2775	1800			
	4.958*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655	1800			
	5.185*	1.0500	1.4081	1260	1690	1680	2253	1890	2534	1890	2534	1800			
ZF 9350 ^{8, 14}	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1800	1910	4211	SAE 00
	4.783*	1.2556	1.6838	1507	2021	2009	2694	2260	3030	2260	3030	1800			
	4.958*	1.2000	1.6092	1440	1931	1920	2575	2160	2896	2160	2896	1800			
	5.185*	1.1470	1.5382	1376	1846	1835	2461	2065	2769	2065	2769	1800			
ZF 9351 ⁸	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1800	2430	5357	SAE 00
	4.783*	1.2556	1.6838	1507	2021	2009	2694	2260	3030	2260	3030	1800			
	4.958*	1.2000	1.6092	1440	1931	1920	2575	2160	2896	2160	2896	1800			
	5.185*	1.1470	1.5382	1376	1846	1835	2461	2065	2769	2065	2769	1800			
				1000 rpm		1200 rpm		1600 rpm							
ZF W10020 ^{4, 14}	1.683, 2.056, 2.548, 3.074, 3.583, 4.000	1.1520	1.5449	1152	1545	1382	1854	1843	2472	2189	2935	1900	2550	5622	
	4.500	1.1400	1.5288	1140	1529	1368	1835	1824	2446	2166	2904	1900			
ZF W10020 NR ^{4, 14}	1.683, 2.056, 2.548, 3.074, 3.583, 4.000	1.1520	1.5449	1152	1545	1382	1854	1843	2472	2189	2935	1900	2550	5622	
	4.500	1.1400	1.5288	1140	1529	1368	1835	1824	2446	2166	2904	1900			
ZF W10030 ^{4, 14}	1.683, 2.056, 2.548, 3.074, 3.583, 4.000	1.2200	1.6360	1220	1636	1464	1963	1952	2618	2318	3108	1900	2550	5622	

⁴ Higher engine speeds can be evaluated on request.
⁸ U-drive version also available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1000 rpm		1200 rpm		1600 rpm							
ZF W10030 NR ^{4, 11, 14}	1.683, 2.056, 2.548, 3.074, 3.583, 4.000	1.2200	1.6360	1220	1636	1464	1963	1952	2618	2318	3108	1900	2550	5622	
ZF W10050 ^{4, 14}	1.683, 2.056, 2.548, 3.074, 3.583	1.3560	1.8184	1356	1818	1627	2182	2170	2909	2540	3406	1900	2550	5622	
	4.000	1.3350	1.7903	1335	1790	1602	2148	2136	2864	2500	3352	1900			
ZF W10050 NR ^{4, 11, 14}	1.683, 2.056, 2.548, 3.074, 3.583	1.4000	1.8774	1400	1877	1680	2253	2240	3004	2600	3486	1900	2235	4927	
	4.000	1.3350	1.7903	1335	1790	1602	2148	2136	2864	2500	3352	1900			
ZF W10120 ^{4, 14}	2.439, 4.036, 4.423, 4.875, 5.130, 5.409, 5.714	1.1520	1.5449	1152	1545	1382	1854	1843	2472	2189	2935	1900	2950	6504	
	6.050	1.1400	1.5288	1140	1529	1368	1835	1824	2446	2166	2904	1900			
ZF W10120 NR ^{4, 11, 14}	2.439, 4.036, 4.423, 4.875, 5.130, 5.409, 5.714	1.1520	1.5449	1152	1545	1382	1854	1843	2472	2189	2935	1900	2635	5809	
	6.050	1.1400	1.5288	1140	1529	1368	1835	1824	2446	2166	2904	1900			
ZF W10130 ^{4, 14}	2.439, 4.036, 4.423, 4.875, 5.130, 5.409, 5.714	1.2200	1.6360	1220	1636	1464	1963	1952	2618	2318	3108	1900	2950	6504	
ZF W10130 NR ^{4, 11, 14}	2.439, 4.036, 4.423, 4.875, 5.130, 5.409, 5.714	1.2200	1.6360	1220	1636	1464	1963	1952	2618	2318	3108	1900	2635	5809	
ZF W10150 ^{4, 14}	2.439, 4.036, 4.423, 4.875, 5.130	1.3560	1.8184	1356	1818	1627	2182	2170	2909	2540	3406	1900	2950	6504	
	5.409	1.3350	1.7903	1335	1790	1602	2148	2136	2864	2500	3352	1900			
	5.714	1.2600	1.6897	1260	1690	1512	2028	2016	2704	2375	3184	1900			
ZF W10150 NR ^{4, 11, 14}	2.439, 4.036, 4.423, 4.875, 5.130	1.4000	1.8774	1400	1877	1680	2253	2240	3004	2600	3486	1900	2635	5809	
	5.409	1.3350	1.7903	1335	1790	1602	2148	2136	2864	2500	3352	1900			
	5.714	1.2600	1.6897	1260	1690	1512	2028	2016	2704	2375	3184	1900			
ZF W10220 ^{4, 14}	3.341, 4.742, 5.357, 5.846, 6.417, 7.091, 7.476, 7.524	1.1520	1.5449	1152	1545	1382	1854	1843	2472	2189	2935	1900	3500	7716	
	7.900	1.1400	1.5288	1140	1529	1368	1835	1824	2446	2166	2904	1900			
	8.368	0.9600	1.2874	960	1287	1152	1545	1536	2060	1824	2446	1900			
ZF W10220 NR ^{4, 14}	3.341, 4.742, 5.357, 5.846, 6.417, 7.091, 7.476, 7.524	1.1520	1.5449	1152	1545	1382	1854	1843	2472	2189	2935	1900	3185	7022	
	7.900	1.1400	1.5288	1140	1529	1368	1835	1824	2446	2166	2904	1900			
	8.368	0.9600	1.2874	960	1287	1152	1545	1536	2060	1824	2446	1900			
ZF W10230 ^{4, 14}	3.341, 5.357, 5.846, 6.417, 7.091, 7.476, 7.524	1.2200	1.6360	1220	1636	1464	1963	1952	2617	1952	2617	1900	3500	7716	
ZF W10230 NR ^{4, 14}	3.341, 5.357, 5.846, 6.417, 7.091, 7.476, 7.524	1.2200	1.6360	1220	1636	1464	1963	1952	2617	1952	2617	1900	3185	7022	

⁴ Higher engine speeds can be evaluated on request.

¹¹ NC version is also available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1000 rpm		1200 rpm		1600 rpm							
ZF W10250 ^{4, 14}	3.341, 4.742, 5.357, 5.846, 6.417	1.3560	1.8184	1356	1818	1627	2182	2170	2909	2540	3406	1900	3500	7716	
	7.091	1.3350	1.7903	1335	1790	1602	2148	2136	2864	2500	3352	1900			
	7.476	1.2600	1.6897	1260	1690	1512	2028	2016	2704	2375	3184	1900			
	7.524	1.2500	1.6763	1250	1676	1500	2012	2000	2682	2375	3184	1900			
ZF W10250 NR ^{4, 11, 14}	3.341, 4.742, 5.357, 5.846, 6.417	1.4000	1.8774	1400	1877	1680	2253	2240	3004	2600	3486	1900	3185	7022	
	7.091	1.3350	1.7903	1335	1790	1602	2148	2136	2864	2500	3352	1900			
	7.476	1.2600	1.6897	1260	1690	1512	2028	2016	2704	2375	3184	1900			
	7.524	1.2500	1.6763	1250	1676	1500	2012	2000	2682	2375	3184	1900			
ZF W11010 NR ^{4, 11, 14}	1.683, 2.056, 2.548, 3.074, 3.583, 4.000	1.4900	1.9981	1490	1998	1788	2398	2384	3197	2680	3593	1900	2480	5467	
	4.500	1.3500	1.8104	1350	1810	1620	2172	2160	2897	2440	3272	1900			
ZF W11020 ^{4, 14}	1.683, 2.056, 2.548, 3.074, 3.583, 4.000	1.4000	1.8774	1400	1877	1680	2253	2240	3004	2570	3446	1900	2860	6305	
	4.500	1.3500	1.8104	1350	1810	1620	2172	2160	2897	2440	3272	1900			
ZF W11020 NR ^{4, 11, 14}	1.683, 2.056, 2.548, 3.074, 3.583	1.6000	2.1456	1600	2146	1920	2575	2560	3433	2900	3888	1900	2480	5467	
ZF W11030 ^{4, 14}	1.683, 2.056, 2.548, 3.074, 3.583, 4.000	1.4900	1.9981	1490	1998	1788	2398	2384	3197	2680	3593	1900	2860	6305	
ZF W11030 NR CEW ^{4, 7, 11, 14}	1.683, 2.056, 2.548, 3.074	1.6700	2.2395	1670	2240	2004	2687	2672	3583	3040	4076	1900	2480	5467	
ZF W11050 ^{4, 14}	1.683, 2.056, 2.548, 3.074, 3.583	1.6000	2.1456	1600	2146	1920	2575	2560	3433	2900	3888	1900	2860	6305	
ZF W11050 NR CEW ^{4, 7, 11, 14}	1.683, 2.056, 2.548, 3.074	1.7750	2.3803	1775	2380	2130	2856	2840	3808	3280	4398	1900	2480	5467	
ZF W11110 NR ^{4, 11, 14}	2.415, 3.516, 4.000, 4.600, 5.087	1.4900	1.9981	1490	1998	1788	2398	2384	3197	2680	3593	1900	2960	6526	
	5.667	1.4250	1.9110	1425	1911	1710	2293	2280	3058	2570	3446	1900			
	6.000	1.3500	1.8104	1350	1810	1620	2172	2160	2897	2440	3272	1900			
ZF W11120 ^{4, 14}	2.415, 3.516, 4.000, 4.600, 5.087, 5.667	1.4000	1.8774	1400	1877	1680	2253	2240	3004	2570	3446	1900	3340	7363	
	6.000	1.3500	1.8104	1350	1810	1620	2172	2160	2897	2440	3272	1900			
ZF W11120 NR ^{4, 11, 14}	2.415, 3.516, 4.000, 4.600	1.6000	2.1456	1600	2146	1920	2575	2560	3433	2900	3888	1900	2960	6526	
	5.087	1.5500	2.0786	1550	2079	1860	2494	2480	3326	2800	3754	1900			
ZF W11130 ^{4, 14}	2.415, 3.516, 4.000, 4.600, 5.087	1.4900	1.9981	1490	1998	1788	2398	2384	3197	2680	3593	1900	3340	7363	
	5.667	1.4250	1.9110	1425	1911	1710	2293	2280	3058	2570	3446	1900			
ZF W11130 NR CEW ^{4, 7, 11, 14}	2.415, 3.516, 4.000, 4.600	1.6700	2.2395	1670	2240	2004	2687	2672	3583	3040	4076	1900	2960	6526	

⁴ Higher engine speeds can be evaluated on request.

⁷ EW version on request.

¹¹ NC version is also available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1000 rpm		1200 rpm		1600 rpm							
ZF W11150 ^{4, 14}	2.415, 3.516, 4.000, 4.600	1.6000	2.1456	1600	2146	1920	2575	2560	3433	2900	3888	1900	3340	7363	
	5.087	1.5500	2.0786	1550	2079	1860	2494	2480	3326	2800	3754	1900			
ZF W11150 NR CEW ^{4, 7, 11, 14}	2.415, 3.516, 4.000	1.7750	2.3803	1775	2380	2130	2856	2840	3808	3280	4398	1900	2960	6526	
ZF W11210 NR ^{4, 11, 14}	3.244, 4.613, 5.000, 5.444, 5.960, 6.250, 6.565, 6.909	1.4900	1.9981	1490	1998	1788	2398	2384	3197	2680	3593	1900	3460	7628	
	7.286	1.4250	1.9110	1425	1911	1710	2293	2280	3058	2570	3446	1900			
	7.526	1.3800	1.8506	1380	1851	1656	2221	2208	2961	2500	3352	1900			
	7.700	1.3500	1.8104	1350	1810	1620	2172	2160	2897	2440	3272	1900			
	8.158	1.1000	1.4751	1100	1475	1320	1770	1760	2360	2090	2802	1900			
	8.700	0.9500	1.2740	950	1274	1140	1529	1520	2038	1805	2420	1900			
ZF W11220 ^{4, 14}	3.244, 4.613, 5.000, 5.444, 5.960, 6.250, 6.565, 6.909, 7.286	1.4000	1.8774	1400	1877	1680	2253	2240	3004	2570	3446	1900	3840	8466	
	7.526	1.3800	1.8506	1380	1851	1656	2221	2208	2961	2500	3352	1900			
	7.700	1.3500	1.8104	1350	1810	1620	2172	2160	2897	2440	3272	1900			
	8.158	1.1000	1.4751	1100	1475	1320	1770	1760	2360	2090	2802	1900			
	8.700	0.9500	1.2740	950	1274	1140	1529	1520	2038	1805	2420	1900			
ZF W11220 NR ^{4, 11, 14}	3.244, 4.613, 5.000, 5.444, 5.960, 6.250	1.6000	2.1456	1600	2146	1920	2575	2560	3433	2900	3888	1900	3460	7628	
	6.565	1.5500	2.0786	1550	2079	1860	2494	2480	3326	2800	3754	1900			
ZF W11230 ^{4, 14}	3.244, 4.613, 5.000, 5.444, 5.960, 6.250, 6.565, 6.909	1.4900	1.9981	1490	1998	1788	2398	2384	3197	2680	3593	1900	3840	8466	
	7.286	1.4250	1.9110	1425	1911	1710	2293	2280	3058	2570	3446	1900			
ZF W11230 NR CEW ^{4, 7, 11, 14}	3.244, 4.613, 5.000, 5.444, 5.960	1.6700	2.2395	1670	2240	2004	2687	2672	3583	3040	4076	1900	3460	7628	
ZF W11250 ^{4, 14}	3.244, 4.613, 5.000, 5.444, 5.960, 6.250	1.6000	2.1456	1600	2146	1920	2575	2560	3433	2900	3888	1900	3840	8466	
	6.565	1.5500	2.0786	1550	2079	1860	2494	2480	3326	2800	3754	1900			
ZF W11250 NR CEW ^{4, 7, 11, 14}	3.244, 4.613, 5.000, 5.444	1.7750	2.3803	1775	2380	2130	2856	2840	3808	3280	4398	1900	3460	7628	

⁴ Higher engine speeds can be evaluated on request.

⁷ EW version can be evaluated on request.

¹¹ NC version is also available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				750 rpm		1000 rpm		1200 rpm							
ZF W17000 ^{4, 5}	1.974, 2.548, 3.074, 3.231, 3.583, 4.000, 4.500	1.8500	2.4809	1388	1861	1850	2481	2220	2977	2220	2977	1600	4550	10031	
ZF W17000 NR ^{4, 5, 11}	1.974, 2.548, 3.074, 3.231, 3.583, 4.000	2.1300	2.8564	1598	2142	2130	2856	2556	3427	2556	3427	1600	3900	8598	
	4.500	1.8800	2.5211	1410	1891	1880	2521	2256	3025	2256	3025	1600			
ZF W17010 ^{4, 5}	1.974, 2.548, 3.074, 3.231, 3.583, 4.000	2.0000	2.6820	1500	2012	2000	2682	2400	3218	2400	3218	1600	4550	10031	
	4.500	1.8800	2.5211	1410	1891	1880	2521	2256	3025	2256	3025	1600			
ZF W17010 NR ^{4, 5, 11}	1.974, 2.548, 3.074, 3.231, 3.583, 4.000	2.2500	3.0173	1688	2263	2250	3017	2700	3620	2700	3620	1600	3900	8598	
ZF W17030 ^{4, 5}	1.974, 2.548, 3.074, 3.231, 3.583, 4.000	2.1300	2.8564	1598	2142	2130	2856	2556	3427	2556	3427	1600	4620	10185	
ZF W17030 NR CEW ^{4, 5, 7, 11}	1.974, 2.548, 3.074, 3.231, 3.583	2.4740	3.3177	1856	2488	2474	3318	2969	3981	2969	3981	1600	3940	8686	
ZF W17050 ^{4, 5}	1.974, 2.548, 3.074, 3.231, 3.583, 4.000	2.2500	3.0173	1688	2263	2250	3017	2700	3620	2700	3620	1600	4620	10185	
ZF W17050 NR CEW ^{4, 5, 7, 11}	1.974, 2.548, 3.074, 3.231	2.6670	3.5765	2000	2682	2667	3577	3200	4291	3200	4291	1600	3940	8686	
	3.583	2.5400	3.4062	1905	2555	2540	3406	3048	4087	3048	4087	1600			
ZF W17100 ^{4, 5}	2.821, 3.516, 4.185, 4.600, 5.087, 5.364, 5.667, 6.000	1.8500	2.4809	1388	1861	1850	2481	2220	2977	2220	2977	1600	5350	11795	
ZF W17100 NR ^{4, 5, 11}	2.821, 3.516, 4.185, 4.600, 5.087, 5.364	2.1300	2.8564	1598	2142	2130	2856	2556	3427	2556	3427	1600	4750	10472	
	5.667	2.0740	2.7813	1555	2086	2074	2781	2489	3337	2489	3337	1600			
	6.000	1.8800	2.5211	1410	1891	1880	2521	2256	3025	2256	3025	1600			
ZF W17110 ^{4, 5}	2.821, 3.516, 4.185, 4.600, 5.087, 5.364, 5.667	2.0000	2.6820	1500	2012	2000	2682	2400	3218	2400	3218	1600	5350	11795	
	6.000	1.8800	2.5211	1410	1891	1880	2521	2256	3025	2256	3025	1600			
ZF W17110 NR ^{4, 5, 11}	2.821, 3.516, 4.185, 4.600, 5.087, 5.364	2.2500	3.0173	1688	2263	2250	3017	2700	3620	2700	3620	1600	4750	10472	

⁴ Higher engine speeds can be evaluated on request.

⁵ Classification: on request. In most cases standard ratings are accepted by major classification bureau. Ratings are valid for application without class notation.

⁷ EW version can be evaluated on request.

¹¹ NC version is also available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW		hp		kW					hp		
				750 rpm		1000 rpm		1200 rpm							
ZF W17130 ^{4, 5}	2.821, 3.516, 4.185, 4.600, 5.087, 5.364	2.1300	2.8564	1598	2142	2130	2856	2556	3427	2556	3427	1600	5420	11949	
	5.667	2.0740	2.7813	1555	2086	2074	2781	2489	3337	2489	3337	1600			
ZF W17130 NR CEW ^{4, 5, 7, 11}	2.821, 3.516, 4.185, 4.600	2.4740	3.3177	1856	2488	2474	3318	2969	3981	2969	3981	1600	4790	10560	
	5.087	2.4010	3.2198	1801	2415	2401	3220	2881	3863	2881	3863	1600			
ZF W17150 ^{4, 5}	2.821, 3.516, 4.185, 4.600, 5.000, 5.087, 5.364	2.2500	3.0173	1688	2263	2250	3017	2700	3620	2700	3620	1600	5420	11949	
ZF W17150 NR CEW ^{4, 5, 7, 11}	2.821, 3.516, 4.185, 4.600	2.6670	3.5765	2000	2682	2667	3577	3200	4291	3200	4291	1600	4790	10560	
ZF W17200 ^{4, 5}	3.436, 4.258, 5.037, 5.520, 6.087, 6.409, 6.762, 7.150	1.8500	2.4809	1388	1861	1850	2481	2220	2977	2220	2977	1600	5800	12787	
ZF W17200 NR ^{4, 5, 11}	3.436, 4.258, 5.037, 5.520, 6.087, 6.409	2.1300	2.8564	1598	2142	2130	2856	2556	3427	2556	3427	1600	5250	11574	
	6.762	2.0740	2.7813	1555	2086	2074	2781	2489	3337	2489	3337	1600			
	7.150	1.8800	2.5211	1410	1891	1880	2521	2256	3025	2256	3025	1600			
ZF W17210 ^{4, 5}	3.436, 4.258, 5.037, 5.520, 6.087, 6.409, 6.762	2.0000	2.6820	1500	2012	2000	2682	2400	3218	2400	3218	1600	5800	12787	
	7.150	1.8800	2.5211	1410	1891	1880	2521	2256	3025	2256	3025	1600			
ZF W17210 NR ^{4, 5, 11}	3.436, 4.258, 5.037, 5.520, 6.087	2.2500	3.0173	1688	2263	2250	3017	2700	3620	2700	3620	1600	5250	11574	
	6.409	2.2500	3.0173	1688	2263	2250	3017	2700	3621	3600	4828	1600			
ZF W17230 ^{4, 5}	3.436, 4.258, 5.037, 5.520, 6.000, 6.087, 6.409	2.1300	2.8564	1598	2142	2130	2856	2556	3427	2556	3427	1600	5870	12941	
	6.762	2.0740	2.7813	1555	2086	2074	2781	2489	3337	2489	3337	1600			
ZF W17230 NR CEW ^{4, 5, 7, 11}	3.436, 4.258, 5.037, 5.520	2.4740	3.3177	1856	2488	2474	3318	2969	3981	2969	3981	1600	5290	11662	
	6.087	2.4010	3.2198	1801	2415	2401	3220	2881	3864	2969	3981	1600			
ZF W17250 ^{4, 5}	3.436, 4.258, 5.037, 5.520, 6.087, 6.409	2.2500	3.0173	1688	2263	2250	3017	2700	3620	2700	3620	1600	5870	12941	
ZF W17250 NR CEW ^{4, 5, 7, 11}	3.436, 4.258, 5.037, 5.520	2.6670	3.5765	2000	2682	2667	3577	3200	4291	3200	4291	1600	5290	11662	

⁴ Higher engine speeds can be evaluated on request.
⁵ Classification: on request. In most cases standard ratings are accepted by major classification bureau. Ratings are valid for application without class notation.
⁷ EW version can be evaluated on request.
¹¹ NC version is also available.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1200 rpm		1600 rpm		1800 rpm							
ZF 23560 C (IV=1.000)	1.721, 2.278, 2.839, 3.577	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	1800	2600	5732	
ZF 23560 C (IV=1.130)	4.042	1.5754	2.1126	1890	2535	2521	3380	2836	3803	2836	3803	1800	2600	5732	
ZF 23560 C (IV=1.273)	4.552*	1.3984	1.8753	1678	2250	2237	3000	2517	3376	2517	3376	1800	2600	5732	
ZF 23560 C (IV=1.432)	5.122*	1.2429	1.6668	1491	2000	1989	2667	2237	3000	2237	3000	1800	2600	5732	
				500 rpm		600 rpm		700 rpm							
ZF 23860 C (IV=0.492)	0.697*, 0.847*, 1.121*, 1.397*, 1.760*	3.6178	4.8515	1809	2426	2171	2911	2532	3395	2532	3395	750	2600	5732	
				1200 rpm		1600 rpm		1800 rpm							
ZF 24060 D ^{9, 14}	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	1800	2650	5842	
	3.947*	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887	1800			
ZF 24060 NR2	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	1800	1890	4167	
	3.947*	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887	1800			
ZF 24060 NR2B	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	1800	1890	4167	
	3.947*	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887	1800			
ZF 24060 NR2H ⁹	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	1800	1860	4101	
	3.947*	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887	1800			
ZF 24060 SGC ¹⁴ (IV=1.000)	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	1800	3250	7165	
	3.947*	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887	1800			
ZF 24060 SGC ¹⁴ (IV=1.173)	4.630	1.3729	1.8411	1647	2209	2197	2946	2471	3314	2471	3314	1800	3250	7165	
ZF 24060 SGC ¹⁴ (IV=1.280)	5.052	1.2582	1.6873	1510	2025	2013	2700	2265	3037	2265	3037	1800	3250	7165	
ZF 24060 SGC ¹⁴ (IV=1.354)	5.344	1.1894	1.5950	1427	1914	1903	2552	2141	2871	2141	2871	1800	3250	7165	

⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1200 rpm		1600 rpm		1800 rpm							
ZF 24360 D ^{8, 9, 14}	4.036, 5.087, 5.950	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	1800	3870	8532	
	6.421	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887	1800			
ZF 24360 SG ^{8, 9, 14} (IV=1.000)	4.036, 5.087, 5.950	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	1800	4500	9921	
	6.421	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887	1800			
ZF 24360 SG ^{8, 9, 14} (IV=1.173)	6.980	1.5176	2.0351	1821	2442	2428	3256	2732	3663	2732	3663	1800	4500	9921	
ZF 24360 SG ^{8, 9, 14} (IV=1.280)	7.616	1.3907	1.8650	1669	2238	2225	2984	2503	3357	2503	3357	1800	4500	9921	
ZF 24360 SG ^{8, 9, 14} (IV=1.354)	8.056	1.3147	1.7630	1578	2116	2104	2821	2366	3173	2366	3173	1800	4500	9921	
	8.694	1.1894	1.5950	1427	1914	1903	2552	2141	2871	2141	2871	1800			
				900 rpm		1000 rpm		1100 rpm							
ZF 30050 NR2 ¹⁰	1.514*, 1.735, 1.906, 2.032, 2.207*	2.3239	3.1164	2092	2805	2324	3116	2556	3428	2556	3428	1100	1900	4189	
ZF 30050 NR2B ¹⁰	1.514*, 1.735, 1.906, 2.032, 2.207*	2.3239	3.1164	2092	2805	2324	3116	2556	3428	2556	3428	1100	1900	4189	
ZF 30050 NR2H ^{9, 10}	1.514*, 1.735, 1.906, 2.032, 2.207*	2.3239	3.1164	2092	2805	2324	3116	2556	3428	2556	3428	1100	1870	4123	
				1000 rpm		1200 rpm		1380 rpm							
ZF 30050 SGC ¹⁴ (IV=0.759)	1.542, 1.955, 2.483	2.3465	3.1467	2347	3147	2816	3776	3238	4342	3238	4342	1380	3250	7165	
	2.807	2.2347	2.9968	2235	2997	2682	3596	3084	4136	3084	4136	1380			
	2.994	2.1229	2.8469	2123	2847	2547	3416	2930	3929	2930	3929	1380			
ZF 30350 SG ^{8, 9, 14} (IV=0.759)	3.062, 4.514	2.3465	3.1467	2347	3147	2816	3776	3238	4342	3238	4342	1380	4575	10086	
	4.871	2.1229	2.8469	2123	2847	2547	3416	2930	3929	2930	3929	1380			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁰ Intermittent operation with some variations in engine speed and power, 5000 hours/year.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				600 rpm		750 rpm		1000 rpm							
ZF W33100 NC2 ⁵	2.485	4.3620	5.8495	2617	3510	3272	4387	4362	5850	4362	5850	1000	4500	9921	
	2.966	3.9970	5.3601	2398	3216	2998	4020	3997	5360	3997	5360	1000			
	3.423	3.8000	5.0959	2280	3058	2850	3822	3800	5096	3800	5096	1000			
	3.714	3.6730	4.9256	2204	2955	2755	3694	3673	4926	3673	4926	1000			
	4.273	3.3280	4.4629	1997	2678	2496	3347	3328	4463	3328	4463	1000			
	4.524	3.1946	4.2840	1917	2570	2396	3213	3195	4284	3195	4284	1000			
	4.708	3.0880	4.1411	1853	2485	2316	3106	3088	4141	3088	4141	1000			
	4.957	2.9570	3.9654	1774	2379	2218	2974	2957	3965	2957	3965	1000			
	5.318	2.4290	3.2573	1457	1954	1822	2443	2429	3257	2429	3257	1000			
	5.900	2.0960	2.8108	1258	1686	1572	2108	2096	2811	2096	2811	1000			
ZF W33100 NR2 ⁵	2.485, 2.966, 3.423	3.8000	5.0959	2280	3058	2850	3822	3800	5096	3800	5096	1000	6080	13404	
	3.714	3.6730	4.9256	2204	2955	2755	3694	3673	4926	3673	4926	1000			
	4.273	3.3280	4.4629	1997	2678	2496	3347	3328	4463	3328	4463	1000			
	4.524	3.1946	4.2840	1917	2570	2396	3213	3195	4284	3195	4284	1000			
	4.708	3.0880	4.1411	1853	2485	2316	3106	3088	4141	3088	4141	1000			
	4.957	2.9570	3.9654	1774	2379	2218	2974	2957	3965	2957	3965	1000			
	5.318	2.4290	3.2573	1457	1954	1822	2443	2429	3257	2429	3257	1000			
	5.900	2.0960	2.8108	1258	1686	1572	2108	2096	2811	2096	2811	1000			
				900 rpm		1000 rpm		1100 rpm							
ZF 40060 NR2 ¹⁰	1.514*, 1.735, 1.906	3.0487	4.0884	2744	3680	3049	4088	3354	4497	3354	4497	1100	2010	4431	
ZF 40060 NR2B ¹⁰	1.514*, 1.735, 1.906	3.0487	4.0884	2744	3680	3049	4088	3354	4497	3354	4497	1100	2010	4431	
ZF 40060 NR2H ^{9, 10}	1.514*, 1.735, 1.906	3.0487	4.0884	2744	3680	3049	4088	3354	4497	3354	4497	1100	1880	4145	
				700 rpm		800 rpm		940 rpm							
ZF 40060 SGC ¹⁴ (IV=0.522)	1.588	3.4102	4.5732	2387	3201	2728	3659	3206	4299	3206	4299	940	3260	7187	
ZF 40360 SG ^{8, 9, 14} (IV=0.522)	2.107, 2.655, 3.106	3.4102	4.5732	2387	3201	2728	3659	3206	4299	3206	4299	940	4625	10196	
	3.352	3.0852	4.1373	2160	2896	2468	3310	2900	3889	2900	3889	940			

⁵ Classification: on request. In most cases standard ratings are accepted by major classification bureau. Ratings are valid for application without class notation.

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁰ Intermittent operation with some variations in engine speed and power, 5000 hours/year.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				600 rpm		750 rpm		1000 rpm							
ZF W43000 NC2 ⁵	2.536	5.8000	7.7779	3480	4667	4350	5833	5800	7778	5800	7778	1000	5400	11905	
	2.960	5.2000	6.9733	3120	4184	3900	5230	5200	6973	5200	6973	1000			
	3.667	4.3320	5.8093	2599	3486	3249	4357	4332	5809	4332	5809	1000			
	3.714	4.2740	5.7315	2564	3439	3206	4299	4274	5732	4274	5732	1000			
	3.950	3.9840	5.3426	2390	3206	2988	4007	3984	5343	3984	5343	1000			
	4.409	3.4200	4.5863	2052	2752	2565	3440	3420	4586	3420	4586	1000			
ZF W43000 NR2 ⁵	2.536, 2.960	5.2000	6.9733	3120	4184	3900	5230	5200	6973	5200	6973	1000	6400	14110	
	3.667	4.3320	5.8093	2599	3486	3249	4357	4332	5809	4332	5809	1000			
	3.714	4.2740	5.7315	2564	3439	3206	4299	4274	5732	4274	5732	1000			
	3.950	3.9840	5.3426	2390	3206	2988	4007	3984	5343	3984	5343	1000			
	4.409	3.4200	4.5863	2052	2752	2565	3440	3420	4586	3420	4586	1000			
ZF W43100 NC2 ⁵	2.516	6.2760	8.4163	3766	5050	4707	6312	6276	8416	6276	8416	1000	6800	14991	
	3.037	5.8170	7.8007	3490	4680	4363	5851	5817	7800	5817	7800	1000			
	3.500	5.4100	7.2549	3246	4353	4058	5441	5410	7254	5410	7254	1000			
	3.739	5.2000	6.9733	3120	4184	3900	5230	5200	6973	5200	6973	1000			
	4.400	4.6130	6.1861	2768	3712	3460	4640	4613	6186	4613	6186	1000			
	4.478	4.5490	6.1003	2729	3660	3412	4575	4549	6100	4549	6100	1000			
	4.609	4.4340	5.9461	2660	3568	3326	4460	4434	5946	4434	5946	1000			
	4.684	4.3680	5.8576	2621	3515	3276	4393	4368	5857	4368	5857	1000			
	4.952	4.1320	5.5411	2479	3325	3099	4156	4132	5541	4132	5541	1000			
	6.238	3.0000	4.0231	1800	2414	2250	3017	3000	4023	3000	4023	1000			
ZF W43100 NR2 ⁵	2.516, 3.037, 3.500, 3.739	5.2000	6.9733	3120	4184	3900	5230	5200	6973	5200	6973	1000	9300	20503	
	4.400	4.6130	6.1861	2768	3712	3460	4640	4613	6186	4613	6186	1000			
	4.478	4.5490	6.1003	2729	3660	3412	4575	4549	6100	4549	6100	1000			
	4.609	4.4340	5.9461	2660	3568	3326	4460	4434	5946	4434	5946	1000			
	4.684	4.3680	5.8576	2621	3515	3276	4393	4368	5857	4368	5857	1000			
	4.952	4.1320	5.5411	2479	3325	3099	4156	4132	5541	4132	5541	1000			
	6.238	3.0000	4.0231	1800	2414	2250	3017	3000	4023	3000	4023	1000			

⁵ Classification: on request. In most cases standard ratings are accepted by major classification bureau. Ratings are valid for application without class notation.

PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				750 rpm		900 rpm		1000 rpm							
ZF 53000 NR2B ¹⁰	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	5.6000	7.5097	4200	5632	5040	6759	5600	7509	5600	7509	1350	3900	8598	
ZF 53000 NR2H ^{9, 10}	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	5.6000	7.5097	4200	5632	5040	6759	5600	7509	5600	7509	1350	3750	8267	
ZF 53500 NR2B ¹⁰	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	7.3298	9.8294	5497	7372	6597	8846	7329	9828	7329	9828	1350	3980	8774	
ZF 53500 NR2H ^{9, 10}	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	7.3298	9.8294	5497	7372	6597	8846	7329	9828	7329	9828	1350	3825	8433	
ZF 53800 NR2B ¹⁰	1.487, 1.694, 1.771, 1.853, 1.912, 2.129	8.0000	10.7282	6000	8046	7200	9655	8000	10728	8000	10728	1350	4080	8995	
ZF 53800 NR2H ^{9, 10}	1.487, 1.694, 1.771, 1.853, 1.912, 2.129	8.0000	10.7282	6000	8046	7200	9655	8000	10728	8000	10728	1350	3925	8653	
ZF 60000 NR2H ⁹	1.500, 2.125, 2.226, 2.741	9.1000	12.2033	6825	9152	8190	10983	9100	12203	9100	12203	1350	4650	10251	
ZF 60500 NR2H ⁹	1.500, 2.125, 2.226, 2.367	10.0000	13.4102	7500	10058	9000	12069	10000	13410	10000	13410	1350	4650	10251	
				600 rpm		750 rpm		1000 rpm							
ZF W63000 NR2 ⁵	2.481	7.3600	9.8699	4416	5922	5520	7402	7360	9870	7360	9870	1000	9200	20283	
	2.917	7.3017	9.7917	4381	5875	5476	7344	7302	9792	7302	9792	1000			
	3.476	6.0247	8.0793	3615	4848	4519	6059	6025	8079	6025	8079	1000			
	4.000	4.6123	6.1852	2767	3711	3459	4639	4612	6185	4612	6185	1000			
	4.500	3.6644	4.9140	2199	2948	2748	3686	3664	4914	3664	4914	1000			
ZF W63000 NR2H ⁵	2.481	7.3600	9.8699	4416	5922	5520	7402	7360	9870	7360	9870	1000	9900	21826	
	2.917	7.3017	9.7917	4381	5875	5476	7344	7302	9792	7302	9792	1000			
	3.476	6.0247	8.0793	3615	4848	4519	6059	6025	8079	6025	8079	1000			
	4.000	4.6123	6.1852	2767	3711	3459	4639	4612	6185	4612	6185	1000			
	4.500	3.6644	4.9140	2199	2948	2748	3686	3664	4914	3664	4914	1000			

⁵ Classification: on request. In most cases standard ratings are accepted by major classification bureau.
Ratings are valid for application without class notation.

⁹ Left and Right version available.

¹⁰ Intermittent operation with some variations in engine speed and power, 5000 hours/year.

Continuous Duty
Single Speed



PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				500 rpm		600 rpm		750 rpm							
ZF W83000 NC2 ⁵	2.536	10.8500	14.5501	5425	7275	6510	8730	8138	10913	8138	10913	750	9270	20437	
	2.960	10.0000	13.4102	5000	6705	6000	8046	7500	10058	7500	10058	750			
	3.261	8.9829	12.0463	4491	6023	5390	7228	6737	9035	6737	9035	750			
	3.500	8.1766	10.9650	4088	5483	4906	6579	6132	8224	6132	8224	750			
	3.900	6.7728	9.0825	3386	4541	4064	5450	5080	6812	5080	6812	750			
	4.300	5.6203	7.5369	2810	3768	3372	4522	4215	5653	4215	5653	750			
	4.591	4.8426	6.4940	2421	3247	2906	3896	3632	4871	3632	4871	750			
ZF W83100 NC2 ⁵	2.486	11.5100	15.4352	5755	7718	6906	9261	8633	11576	8633	11576	750	14800	32628	
	3.031	10.7600	14.4294	5380	7215	6456	8658	8070	10822	8070	10822	750			
	3.300	10.2000	13.6784	5100	6839	6120	8207	7650	10259	7650	10259	750			
	3.962	9.6001	12.8739	4800	6437	5760	7724	7200	9655	7200	9655	750			
	4.333	8.9651	12.0224	4483	6011	5379	7213	6724	9017	6724	9017	750			
	4.609	8.4927	11.3889	4246	5694	5096	6833	6370	8542	6370	8542	750			
	4.818	8.1922	10.9859	4096	5493	4915	6592	6144	8239	6144	8239	750			
	5.095	7.6629	10.2761	3831	5138	4598	6166	5747	7707	5747	7707	750			
	5.450	6.8613	9.2012	3431	4601	4117	5521	5146	6901	5146	6901	750			
	5.950	5.7110	7.6586	2856	3829	3427	4595	4283	5744	4283	5744	750			
	6.364	5.1711	6.9346	2586	3467	3103	4161	3878	5201	3878	5201	750			
ZF W83100 NR2 ⁵	2.486, 3.031, 3.300	10.2000	13.6784	5100	6839	6120	8207	7650	10259	7650	10259	750	16600	36597	
	3.962	9.6001	12.8739	4800	6437	5760	7724	7200	9655	7200	9655	750			
	4.333	8.9651	12.0224	4483	6011	5379	7213	6724	9017	6724	9017	750			
	4.609	8.4927	11.3889	4246	5694	5096	6833	6370	8542	6370	8542	750			
	4.818	8.1922	10.9859	4096	5493	4915	6592	6144	8239	6144	8239	750			
	5.095	7.6629	10.2761	3831	5138	4598	6166	5747	7707	5747	7707	750			
	5.450	6.8613	9.2012	3431	4601	4117	5521	5146	6901	5146	6901	750			
	5.950	5.7110	7.6586	2856	3829	3427	4595	4283	5744	4283	5744	750			
	6.364	5.1711	6.9346	2586	3467	3103	4161	3878	5201	3878	5201	750			

⁵ Classification: on request. In most cases standard ratings are accepted by major classification bureau.

Continuous Duty
Single Speed



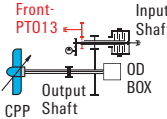
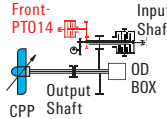
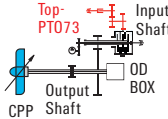
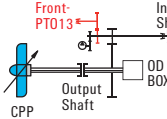
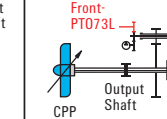
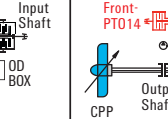
PRODUCT	Ratios	Power factor		Input power capacity						Max. kW	Max. hp	Max. rpm	Weight		Bell hsgs. & notes
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp				kg	lb	
				1000 rpm		1150 rpm		1300 rpm							
ZF 83700 NR2H ^{9, 10}	2.867, 3.462, 4.227, 4.800	8.0000	10.7282	8000	10728	9200	12337	10400	13946	10400	13946	1350	15500	34172	
	5.042*	7.6160	10.2132	7616	10213	8758	11745	9900	13276	9900	13276	1350			
	5.591	6.7200	9.0117	6720	9012	7728	10363	8736	11715	8736	11715	1350			
				900 rpm		1000 rpm		1050 rpm							
ZF 83750 NR2H ^{9, 10}	2.867, 3.462, 4.227	10.0000	13.4102	9000	12069	10000	13410	10500	14080	10500	14080	1100	15500	34172	
	4.800	9.0800	12.1765	8172	10959	9080	12177	9534	12785	9534	12785	1100			
	5.042*	8.6860	11.6481	7817	10483	8686	11648	9120	12230	9120	12230	1100			
	5.591	7.8000	10.4600	7020	9414	7800	10460	8190	10982	8190	10982	1100			
				500 rpm		550 rpm		600 rpm							
ZF W93300 NC2 ⁵	2.486	17.2778	23.1699	8639	11585	9503	12743	10367	13902	10367	13902	600	21000	46297	
	3.161	15.4000	20.6517	7700	10326	8470	11358	9240	12391	9240	12391	600			
	3.516	14.4200	19.3375	7210	9669	7931	10636	8652	11603	8652	11603	600			
	3.929	12.7700	17.1249	6385	8562	7024	9419	7662	10275	7662	10275	600			
	4.545	11.5820	15.5317	5791	7766	6370	8542	6949	9319	6949	9319	600			
	5.000	10.3230	13.8434	5162	6922	5678	7614	6194	8306	6194	8306	600			
	5.789	8.1035	10.8670	4052	5434	4457	5977	4862	6520	4862	6520	600			
				400 rpm		428 rpm		500 rpm							
ZF W103100 NC2 ⁵	2.438	24.0000	32.1845	9600	12874	10272	13775	12000	16092	12000	16092	500	27000	59525	
	3.231	22.7340	30.4868	9094	12195	9730	13048	11367	15243	11367	15243	500			
	3.583	20.8000	27.8933	8320	11157	8902	11938	10400	13947	10400	13947	500			
	4.000	19.4910	26.1379	7796	10455	8342	11187	9746	13069	9746	13069	500			
	4.238	18.2000	24.4066	7280	9763	7790	10446	9100	12203	9100	12203	500			

⁵ Classification: on request. In most cases standard ratings are accepted by major classification bureau.
Ratings are valid for application without class notation.
⁹ Left and Right version available.
¹⁰ Intermittent operation with some variations in engine speed and power, 5000 hours/year.

* Special Order Ratio.

PTO options

ZF W33100 – ZF W103100 family*

SERIES	INTEGRATED FRONT PTO		INTEGRATED TOP PTO	INTEGRATED FRONT PTO		
	Propeller driven	Propeller driven	Engine driven	Engine driven	Engine driven	Engine driven
	No Clutch	Clutch	No Clutch	No Clutch	No Clutch	Clutch
						
ZF W103100 NC2				x		x
ZF W93300 NC2				x		x
ZF W83100 NR2		x	x		x	
ZF W83100 NC2				x		x
ZF W83000 NC2				x		x
ZF W63000 NR2			x		x	
ZF W63000 NR2H			x		x	
ZF W43100 NR2			x		x	
ZF W43100 NC2				x		x
ZF W43000 NR2	x	x	x		x	
ZF W43000 NC2				x		
ZF W33100 NR2			x			
ZF W33100 NC2				x		

* For maximum combinations please contact ZF Marine representative.

PTO / PTI / shaft brake options

ZF W10000 – ZF W17000 family*

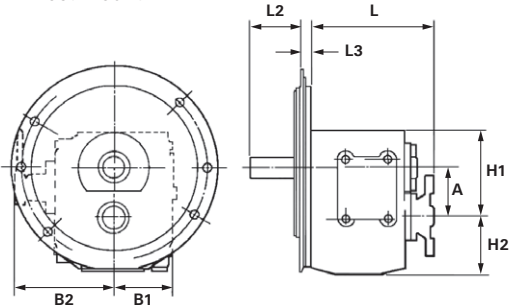
Series	FRONT PTI / PTO	FRONT PTO	INTEGRATED PROPELLER SHAFT BRAKE	TOP PTO		FRONT PTO
	Propeller driving / driven	Propeller driven		Engine driven		Engine driven
	Clutch	No Clutch		No Clutch	Clutch	Clutch
ZF W17000 ZF W17100 ZF W17200 all versions		x	x	x no Top-PTO71		x no Front-PTO83
ZF W11000 ZF W11100 ZF W11200 all versions	x	x	x	x	x	x
ZF W10000 ZF W10100 ZF W10200 all versions	x	x	x	x	x	x

* For maximum combinations please contact ZF Marine representative.

Drawings and dimensions

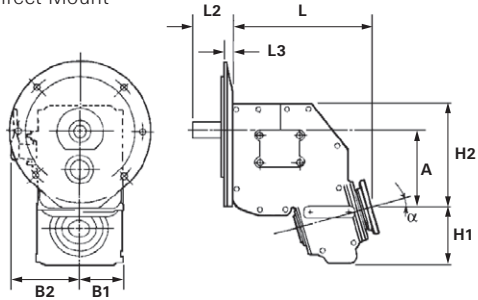
PRODUCT	A		B1		B2		H1		H2		L		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 12 M	72.0	2.83	80.0	3.15	134	5.28	122	4.80	89.0	3.50	192	7.56	60.0	2.36	33.0	1.30	4	13.0	29.0	0.600	0.640
ZF 15 M	72.0	2.83	80.0	3.15	134	5.28	122	4.80	89.0	3.50	193	7.60	60.0	2.36	33.0	1.30	4	13.0	29.0	0.600	0.640
ZF 25 M	85.0	3.35	96.0	3.78	149	5.87	139	5.47	93.0	3.66	218	8.58	65.0	2.56	33.0	1.30	4	18.5	41.0	0.750	0.800
ZF 30 M	90.0	3.54	103	4.07	149	5.87	144	5.67	94.0	3.70	254	10.0	62.5	2.46	-	-	-	23.0	51.0	1.00	1.06

Vertical Offset
Direct Mount



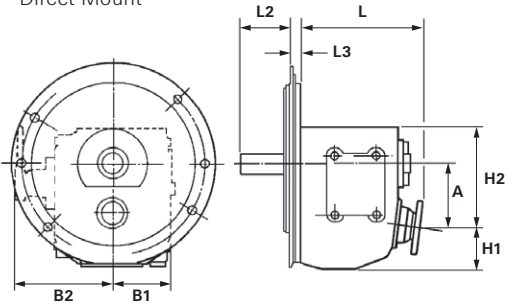
PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 15 MIV	15	147	5.79	80.0	3.15	133	5.24	106	4.17	197	7.76	265	10.4	60.0	2.36	33.0	1.30	4	20.0	44.0	1.00	1.06

V-Drive
Direct Mount



PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 15 MA	8	91.8	3.61	80.0	3.15	133	5.24	78.2	3.08	142	5.59	193	7.60	60.0	2.36	33.0	1.30	4	13.5	30.0	0.560	0.590
ZF 25 MA	8	110	4.33	96.0	3.78	149	5.87	84.3	3.32	164	6.46	223	8.78	65.0	2.56	33.0	1.30	4	21.0	46.0	0.750	0.800

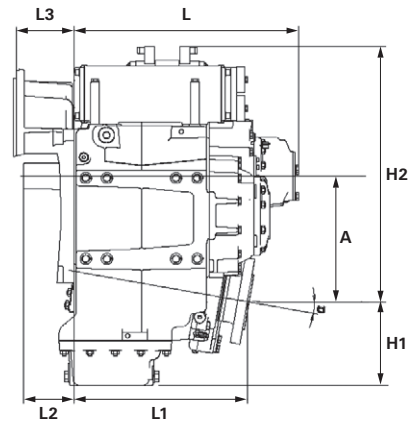
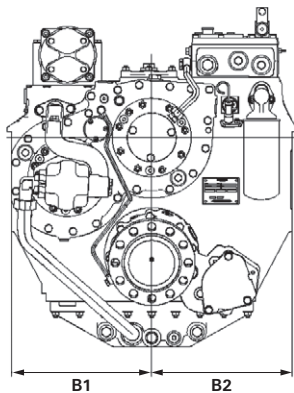
Down Angle
Direct Mount



Drawings and dimensions

PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 25 A	8	115	4.54	147	5.79	147	5.79	75.0	2.95	228	8.98	293	11.5	216	8.50	82.5	3.25	29.0	1.14	3	24.0	53.0	1.80	1.91
ZF 45 A	8	126	4.94	158	6.20	158	6.20	78.5	3.09	270	10.6	305	12.0	228	8.96	65.0	2.56	11.0	0.430	3	28.0	62.0	2.50	2.65
ZF 63 A	8	144	5.67	178	7.01	178	7.01	82.0	3.23	284	11.2	329	13.0	265	10.4	65.0	2.56	11.0	0.430	3	44.0	97.0	4.00	4.24
ZF 85 A	8	160	6.30	210	8.27	210	8.27	112	4.41	303	11.9	379	14.9	291	11.4	71.0	2.80	13.0	0.510	2	69.0	152	5.50	5.83
ZF 220 A	10	145	5.69	187	7.36	187	7.36	116	4.57	230	9.06	376	14.8	246	9.70	93.0	3.66	40.0	1.57	2	50.0	110	4.00	4.24
ZF 280-1 A	7	147	5.77	215	8.46	175	6.89	114	4.47	282	11.1	362	14.3	280	11.0	71.0	2.80	49.0	1.93	1	73.0	161	3.30	3.50
ZF 286 A	7	149	5.87	215	8.46	215	8.46	126	4.96	315	12.4	418	16.5	300	11.8	55.0	2.17	35.0	1.38	1	77.0	170	5.00	5.30
ZF 301-1 A	10	55.9	2.20	235	9.25	235	9.25	167	6.57	295	11.6	484	19.1	324	12.8	88.0	3.46	80.0	3.15	1	87.0	192	6.00	6.36
ZF 305-3 A	7	169	6.65	254	10.0	254	10.0	123	4.84	395	15.6	435	17.1	315	12.4	55.0	2.17	45.0	1.77	1	97.0	214	5.00	5.30
ZF 325-1 A	7	180	7.09	265	10.4	265	10.4	128	5.03	350	13.8	480	18.9	365	14.4	55.0	2.17	45.0	1.77	1	130	287	5.50	5.83
ZF 335 A	7	183	7.20	265	10.4	265	10.4	140	5.51	348	13.7	545	21.4	420	16.5	-	-	0.0	0.0	1	159	351	6.00	6.36
ZF 360 A	7	195	7.67	280	11.0	280	11.0	165	6.50	379	14.9	621	24.5	495	19.5	-	-	0.0	0.0	0	187	412	10.0	10.6
ZF 500-1 A	7	195	7.68	280	11.0	280	11.0	165	6.50	379	14.9	621	24.5	495	19.5	-	-	0.0	0.0	0	192	423	10.0	10.6
ZF 510-1 A	10	217	8.54	298	11.7	298	11.7	174	6.85	400	15.8	622	24.5	492	19.4	-	-	0.0	0.0	0	193	425	13.0	13.8
ZF 550-1 A	10	269	10.6	310	12.2	310	12.2	156	6.14	435	17.1	676	26.6	524	20.6	-	-	0.0	0.0	0	256	564	16.0	17.0
ZF 665 A	10	269	10.6	310	12.2	310	12.2	156	6.14	435	17.1	676	26.6	524	20.6	-	-	0.0	0.0	0	253	558	16.0	17.0
ZF 2000 A	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	595	23.4	394	15.5	115	4.53	115	4.53	0	348	767	21.0	22.3
ZF 2050 A	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	589	23.2	394	15.5	115	4.53	115	4.53	0	350	772	21.0	22.3
ZF 2060 A	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	589	23.2	394	15.5	115	4.53	115	4.53	0	350	772	21.0	22.3
ZF 2070 A	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	589	23.2	394	15.5	115	4.53	115	4.53	0	350	772	21.0	22.3
ZF 2075 A	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	589	23.2	394	15.5	115	4.53	115	4.53	0	350	772	21.0	22.3
ZF 2150 A	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	589	23.2	394	15.5	115	4.53	115	4.53	0	352	776	21.0	22.3

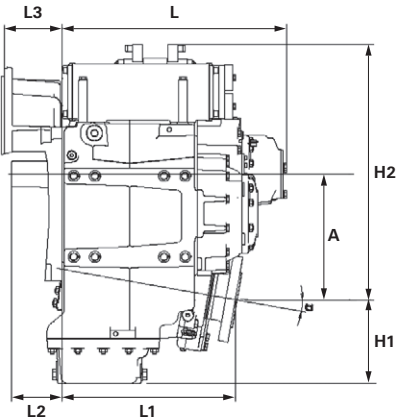
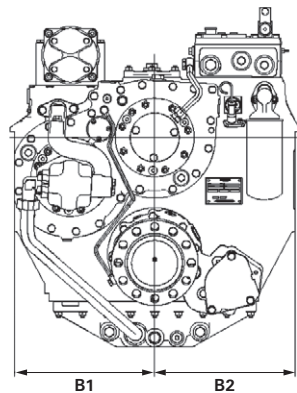
Down Angle
Direct Mount



Drawings and dimensions

PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt.
ZF 3000 A	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	668	26.3	452	17.8	132	5.20	150	5.91	0	485	1,069	31.0	32.9
ZF 3050 A	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	668	26.3	452	17.8	132	5.20	150	5.91	0	485	1,069	31.0	32.9
ZF 3055 A	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	668	26.3	452	17.8	132	5.20	150	5.91	0	490	1,080	31.0	32.9
ZF 3060 A	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	668	26.3	452	17.8	132	5.20	150	5.91	0	490	1,080	31.0	32.9
ZF 3070 A	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	668	26.3	452	17.8	132	5.20	150	5.91	0	490	1,080	31.0	32.9
ZF 3150 A	10	302	11.9	365	14.4	365	14.4	178	7.02	640	25.2	668	26.3	452	17.8	132	5.20	150	5.91	0	470	1,036	31.0	32.9
ZF 3160 A	10	302	11.9	365	14.4	365	14.4	178	7.02	640	25.2	668	26.3	452	17.8	132	5.20	150	5.91	0	470	1,036	31.0	32.9
ZF 3170 A	10	302	11.9	365	14.4	365	14.4	178	7.02	640	25.2	668	26.3	452	17.8	132	5.20	150	5.91	0	470	1,036	31.0	32.9
ZF 5000 A	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	776	30.6	539	21.2	149	5.87	180	7.09	00	750	1,653	42.0	44.5
ZF 5050 A	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	776	30.6	539	21.2	149	5.87	180	7.09	00	750	1,653	42.0	44.5
ZF 5055 A	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	776	30.6	539	21.2	149	5.87	180	7.09	00	750	1,653	42.0	44.5
ZF 5060 A	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	776	30.6	539	21.2	149	5.87	180	7.09	00	750	1,653	42.0	44.5
ZF 7600 A	8	448	17.6	500	19.7	500	19.7	263	10.4	888	34.2	760	29.9	653	25.7	138	5.42	280	11.0	00	1,125	2,480	75.0	79.5
ZF 7650 A	8	448	17.6	500	19.7	500	19.7	263	10.4	888	34.2	760	29.9	653	25.7	138	5.42	280	11.0	00	1,125	2,480	75.0	79.5
ZF 9000 A	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	897	35.3	615	24.2	164	6.46	280	11.0	00	1,380	3,042	80.0	84.8
ZF 9050 A	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	897	35.3	615	24.2	164	6.46	280	11.0	00	1,380	3,042	80.0	84.8
ZF 9055 A	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	897	35.3	615	24.2	164	6.46	280	11.0	00	1,380	3,042	80.0	84.8
ZF 9060 A	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	897	35.3	615	24.2	164	6.46	280	11.0	00	1,380	3,042	80.0	84.8

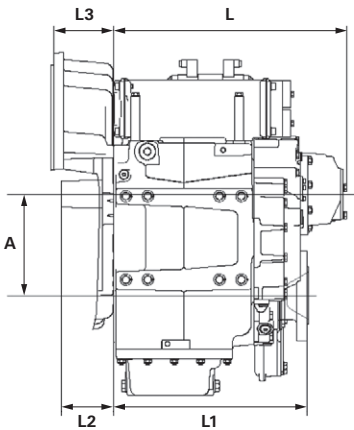
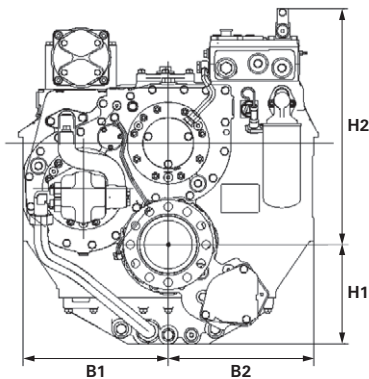
Down Angle
Direct Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 25	99.0	3.90	147	5.79	147	5.79	101	3.98	212	8.35	296	11.7	270	10.6	82.5	3.25	29.0	1.14	3	24.0	53.0	2.00	2.12
ZF 45-1	151	5.94	170	6.69	170	6.69	139	5.47	271	10.7	303	11.9	221	8.70	74.0	2.91	40.0	1.57	2	60.0	132	3.00	3.18
ZF 63	127	4.98	178	7.01	178	7.01	118	4.65	266	10.5	329	13.0	273	10.8	65.0	2.56	11.0	0.430	3	46.0	101	3.80	4.03
ZF 220	135	5.31	215	8.46	175	6.89	125	4.92	281	11.1	386	15.2	287	11.3	94.5	3.72	35.5	1.40	2	63.0	139	3.50	3.71
ZF W220	210	8.27	218	8.58	218	8.58	210	8.27	425	16.7	397	15.6	309	12.2	87.0	3.43	13.0	0.510	2	105	231	7.00	7.42
ZF 280-1	146	5.75	230	9.06	175	6.89	131	5.16	301	11.9	394	15.5	299	11.8	71.0	2.80	49.0	1.93	1	73.0	161	4.00	4.24
ZF 286	146	5.75	230	9.06	230	9.06	150	5.91	315	12.4	457	18.0	316	12.4	55.0	2.17	35.0	1.38	1	86.0	190	5.30	5.62
ZF 305-3	155	6.10	254	10.0	254	10.0	147	5.79	372	14.7	444	17.5	330	13.0	55.0	2.17	45.0	1.77	1	98.0	216	5.50	5.83
ZF W320	245	9.65	295	11.6	295	11.6	248	9.76	395	15.6	598	23.5	443	17.4	83.0	3.27	70.0	2.76	1	270	595	21.0	22.3
ZF W325	245	9.65	295	11.6	295	11.6	248	9.76	453	17.8	572	22.5	390	15.4	64.0	2.52	0.0	0.0	1	315	694	16.0	17.0
ZF 325-1	165	6.50	265	10.4	265	10.4	156	6.14	355	14.0	489	19.3	382	15.0	55.0	2.17	45.0	1.77	1	130	287	7.20	7.63
ZF W350-1	335	13.2	335	13.2	335	13.2	315	12.4	585	23.0	636	25.0	500	19.7	92.0	3.62	0.0	0.0	0	500	1,102	23.0	24.4
ZF 360	180	7.09	290	11.4	290	11.4	167	6.57	358	14.1	633	24.9	544	21.4	-	-	0.0	0.0	0	185	408	9.00	9.54
ZF 500	180	7.09	290	11.4	290	11.4	167	6.57	358	14.1	633	24.9	544	21.4	-	-	0.0	0.0	0	185	408	9.00	9.54
ZF 550-1	200	7.87	310	12.2	310	12.2	200	7.87	400	15.8	676	26.6	537	21.1	-	-	0.0	0.0	0	242	534	16.0	17.0
ZF W650	365	14.4	355	14.0	355	14.0	340	13.4	652	25.7	517	20.4	390	15.4	99.0	3.90	100	3.94	0	561	1,237	26.0	27.6
ZF 665	200	7.87	310	12.2	310	12.2	200	7.87	400	15.8	676	26.6	537	21.1	-	-	0.0	0.0	0	248	547	16.0	17.0
ZF 2000	220	8.66	320	12.6	320	12.6	203	7.99	515	20.3	589	23.2	421	16.6	115	4.53	115	4.53	0	340	750	21.0	22.3
ZF 2050	220	8.66	320	12.6	320	12.6	203	7.99	515	20.3	589	23.2	421	16.6	115	4.53	115	4.53	0	342	754	21.0	22.3
ZF 2060	220	8.66	320	12.6	320	12.6	203	7.99	515	20.3	589	23.2	421	16.6	115	4.53	115	4.53	0	342	754	21.0	22.3
ZF 2070	220	8.66	320	12.6	320	12.6	203	7.99	515	20.3	589	23.2	421	16.6	115	4.53	115	4.53	0	342	754	21.0	22.3
ZF 2075	220	8.66	320	12.6	320	12.6	203	7.99	515	20.3	589	23.2	421	16.6	115	4.53	115	4.53	0	342	754	21.0	22.3

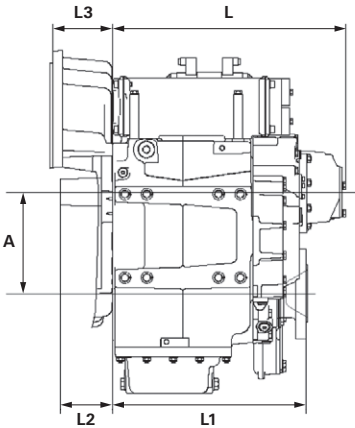
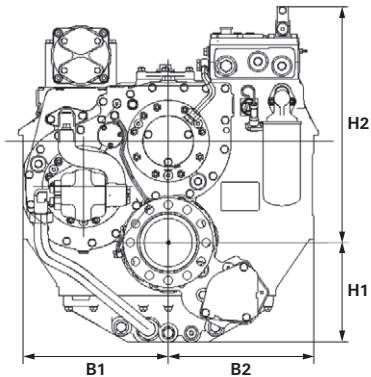
Vertical Offset
Direct Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		SAE-BELL HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 2150	220	8.66	320	12.6	320	12.6	203	7.99	515	20.3	589	23.2	421	16.6	115	4.53	115	4.53	0	344	758	21.0	22.3
ZF 2200	280	11.0	330	13.0	330	13.0	250	9.84	612	24.1	589	23.2	435	17.1	115	4.53	115	4.53	0	404	891	22.0	23.3
ZF 2250	280	11.0	330	13.0	330	13.0	250	9.84	612	24.1	589	23.2	435	17.1	115	4.53	115	4.53	0	406	895	22.0	23.3
ZF 2260	280	11.0	330	13.0	330	13.0	250	9.84	612	24.1	589	23.2	435	17.1	115	4.53	115	4.53	0	406	895	22.0	23.3
ZF 2270	280	11.0	330	13.0	330	13.0	250	9.84	612	24.1	589	23.2	435	17.1	115	4.53	115	4.53	0	406	895	22.0	23.3
ZF 2275	280	11.0	330	13.0	330	13.0	250	9.84	612	24.1	589	23.2	435	17.1	115	4.53	115	4.53	0	406	895	22.0	23.3
ZF 2300	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	434	957	27.0	28.6
ZF W2300	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	590	1,301	27.0	28.6
ZF 2350	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	436	961	27.0	28.6
ZF W2350	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	590	1,301	27.0	28.6
ZF 2360	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	436	961	27.0	28.6
ZF 2370	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	436	961	27.0	28.6
ZF 2375	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	436	961	27.0	28.6
ZF W2450	390	15.4	400	15.8	400	15.8	365	14.4	702	27.6	589	23.2	435	17.1	115	4.53	115	4.53	0	760	1,676	30.0	31.8
ZF 3000	255	10.0	365	14.4	365	14.4	250	9.84	593	23.4	668	26.3	485	19.1	132	5.20	-	-	00	482	1,063	31.0	32.9
ZF 3050	255	10.0	365	14.4	365	14.4	250	9.84	593	23.4	668	26.3	485	19.1	132	5.20	-	-	00	482	1,063	31.0	32.9
ZF 3055	255	10.0	365	14.4	365	14.4	250	9.84	593	23.4	668	26.3	485	19.1	132	5.20	-	-	00	487	1,074	31.0	32.9
ZF 3060	255	10.0	365	14.4	365	14.4	250	9.84	593	23.4	668	26.3	485	19.1	132	5.20	-	-	00	487	1,074	31.0	32.9
ZF 3070	255	10.0	365	14.4	365	14.4	250	9.84	593	23.4	668	26.3	485	19.1	132	5.20	-	-	00	487	1,074	31.0	32.9
ZF 3310	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	-	-	00	665	1,466	36.0	38.2
ZF W3310	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	-	-	00	850	1,874	36.0	38.2
ZF 3311	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	-	-	00	850	1,874	36.0	38.2

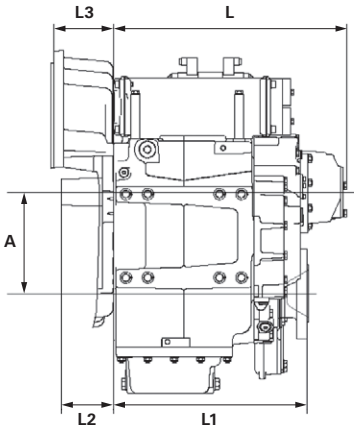
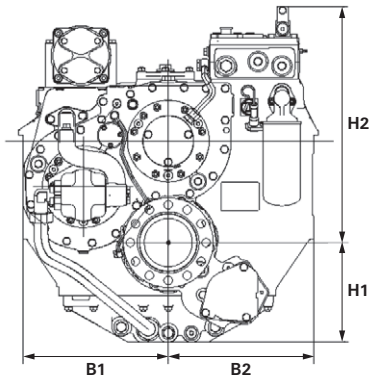
Vertical Offset
Direct Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		SAE-BELL HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 3350	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	-	-	00	665	1,466	36.0	38.2
ZF W3350	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	-	-	00	850	1,874	36.0	38.2
ZF 3351	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	-	-	00	850	1,874	36.0	38.2
ZF 3355	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	-	-	00	670	1,477	36.0	38.2
ZF W3355	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	-	-	00	855	1,885	36.0	38.2
ZF 3356	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	-	-	00	855	1,885	36.0	38.2
ZF 3360	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	-	-	00	670	1,477	36.0	38.2
ZF 3361	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	-	-	00	850	1,874	36.0	38.2
ZF 3370	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	-	-	00	670	1,477	36.0	38.2
ZF W3710	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF 3711	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF W3750	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF 3751	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF W3755	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF 3756	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF 3761	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF 5000	295	11.6	425	16.7	425	16.7	270	10.6	690	27.2	776	30.6	565	22.2	149	5.87	180	7.09	00	740	1,631	40.0	42.4
ZF 5050	295	11.6	425	16.7	425	16.7	270	10.6	690	27.2	776	30.6	565	22.2	149	5.87	180	7.09	00	740	1,631	40.0	42.4
ZF 5055	295	11.6	425	16.7	425	16.7	270	10.6	690	27.2	776	30.6	565	22.2	149	5.87	180	7.09	00	740	1,631	40.0	42.4
ZF 5060	295	11.6	425	16.7	425	16.7	270	10.6	690	27.2	776	30.6	565	22.2	149	5.87	180	7.09	00	740	1,631	40.0	42.4
ZF 5300	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	950	2,094	60.0	63.6
ZF W5300	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6

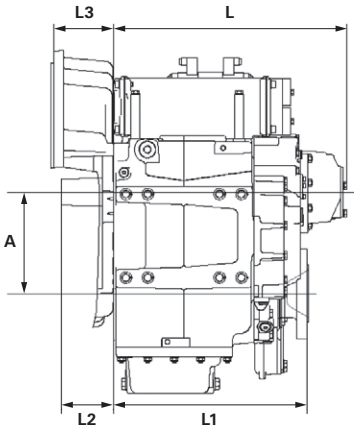
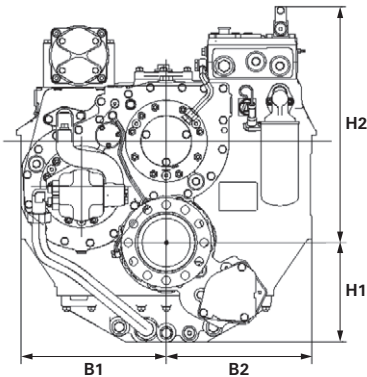
Vertical Offset
Direct Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 5311	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 5350	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	950	2,094	60.0	63.6
ZF W5350	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 5351	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 5355	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	950	2,094	60.0	63.6
ZF W5355	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 5356	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 5360	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	950	2,094	60.0	63.6
ZF 5361	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 7600	340	13.4	500	19.7	500	19.7	348	13.7	694	27.3	759	29.9	640	25.2	146	5.75	280	11.0	00	970	2,138	75.0	79.5
ZF W7610	600	23.6	630	24.8	630	24.8	560	22.1	960	37.8	761	30.0	773	30.4	146	5.75	250	9.84	00	2,520	5,556	120	127
ZF W7615	600	23.6	630	24.8	630	24.8	560	22.1	960	37.8	761	30.0	773	30.4	146	5.75	250	9.84	00	2,520	5,556	120	127
ZF 7640	450	17.7	500	19.7	500	19.7	430	16.9	806	31.7	761	30.0	657	25.9	146	5.75	250	9.84	00	1,325	2,921	80.0	84.8
ZF W7640	450	17.7	500	19.7	500	19.7	430	16.9	806	31.7	761	30.0	657	25.9	146	5.75	250	9.84	00	1,750	3,858	80.0	84.8
ZF 7641	450	17.7	500	19.7	500	19.7	430	16.9	806	31.7	761	30.0	657	25.9	146	5.75	250	9.84	00	1,750	3,858	80.0	84.8
ZF 7645	450	17.7	500	19.7	500	19.7	430	16.9	806	31.7	761	30.0	657	25.9	146	5.75	250	9.84	00	1,325	2,921	80.0	84.8
ZF W7645	450	17.7	500	19.7	500	19.7	430	16.9	806	31.7	761	30.0	657	25.9	146	5.75	250	9.84	00	1,750	3,858	80.0	84.8
ZF 7646	450	17.7	500	19.7	500	19.7	430	16.9	806	31.7	761	30.0	657	25.9	146	5.75	250	9.84	00	1,750	3,858	80.0	84.8
ZF 7650	340	13.4	500	19.7	500	19.7	348	13.7	694	27.3	759	29.9	640	25.2	146	5.75	280	11.0	00	970	2,138	75.0	79.5
ZF 7661	600	23.6	630	24.8	630	24.8	560	22.1	960	37.8	761	30.0	773	30.4	146	5.75	250	9.84	00	2,520	5,556	120	127
ZF 7666	600	23.6	630	24.8	630	24.8	560	22.1	960	37.8	761	30.0	773	30.4	146	5.75	250	9.84	00	2,520	5,556	120	127
ZF 9000	390	15.4	545	21.5	545	21.5	405	15.9	800	31.5	897	35.3	640	25.2	164	6.46	280	11.0	00	1,400	3,086	80.0	84.8

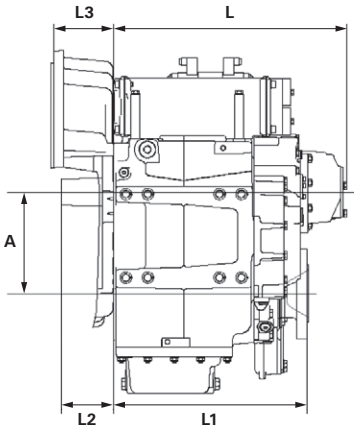
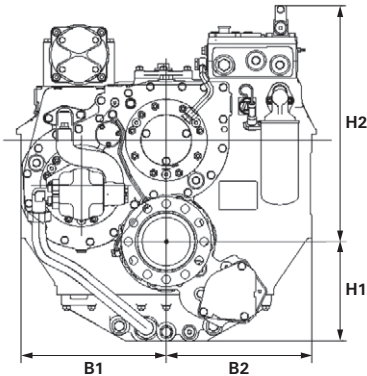
Vertical Offset
Direct Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 9050	390	15.4	545	21.5	545	21.5	405	15.9	800	31.5	897	35.3	640	25.2	164	6.46	280	11.0	00	1,400	3,086	80.0	84.8
ZF 9055	390	15.4	545	21.5	545	21.5	405	15.9	800	31.5	897	35.3	640	25.2	164	6.46	280	11.0	00	1,400	3,086	80.0	84.8
ZF 9060	390	15.4	545	21.5	545	21.5	405	15.9	800	31.5	897	35.3	640	25.2	164	6.46	280	11.0	00	1,400	3,086	80.0	84.8
ZF 9300	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	1,910	4,211	90.0	95.4
ZF 9311	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	2,430	5,357	90.0	95.4
ZF 9350	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	1,910	4,211	90.0	95.4
ZF 9351	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	2,430	5,357	90.0	95.4
ZF 9355	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	1,910	4,211	90.0	95.4
ZF 9356	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	2,430	5,357	90.0	95.4
ZF 9360	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	1,910	4,211	90.0	95.4
ZF 9361	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	2,430	5,357	90.0	95.4
ZF 9360	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	1,910	4,211	90.0	95.4
ZF 9361	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	2,430	5,357	90.0	95.4

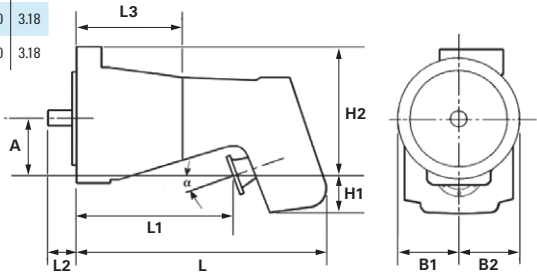
Vertical Offset
Direct Mount



Drawings and dimensions

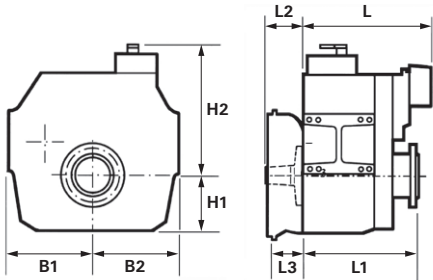
PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 45 IV	20	126	4.96	131	5.16	136	5.35	83.0	3.27	309	12.2	554	21.8	348	13.7	64.5	2.54	11.0	0.430	3	47.0	104	3.00	3.18
ZF 45-1 IV	20	126	4.96	131	5.16	136	5.35	83.0	3.27	309	12.2	554	21.8	348	13.7	64.5	2.54	11.0	0.430	3	47.0	104	3.00	3.18
ZF 48 IV	20	126	4.96	131	5.16	136	5.35	83.0	3.27	309	12.2	554	21.8	348	13.7	64.5	2.54	11.0	0.430	3	47.0	104	3.00	3.18

V-Drive
Direct Mount



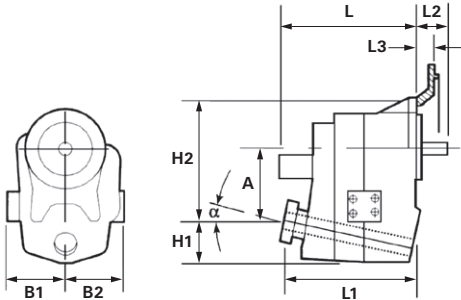
PRODUCT	B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 45 C	136	5.33	131	5.16	145	5.71	198	7.80	-	-	267	10.5	64.5	2.54	11.0	0.430	3	31.0	68.0	2.00	2.12
ZF 63 C	136	5.33	131	5.16	145	5.71	198	7.80	-	-	267	10.5	64.5	2.54	11.0	0.430	3	32.0	71.0	2.00	2.12
ZF 301-1 C	235	9.25	235	9.25	200	7.87	270	10.6	480	18.9	344	13.5	89.3	3.52	80.0	3.15	1	87.0	192	6.00	6.36

Co-Axial or
Near Co-Axial
Direct Mount



PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 63 IV	12	219	8.61	178	7.01	178	7.01	107	4.22	355	14.0	329	12.9	326	12.8	65.0	2.56	11.0	0.430	3	62.0	137	4.00	4.24
ZF 68 IV	12	219	8.61	178	7.01	178	7.01	107	4.22	355	14.0	329	12.9	326	12.8	65.0	2.56	11.0	0.430	3	62.0	137	4.00	4.24
ZF 85 IV	12	246	9.69	190	7.48	190	7.48	132	5.20	389	15.3	370	14.6	375	14.8	76.0	2.99	13.0	0.510	2	86.0	190	7.00	7.42

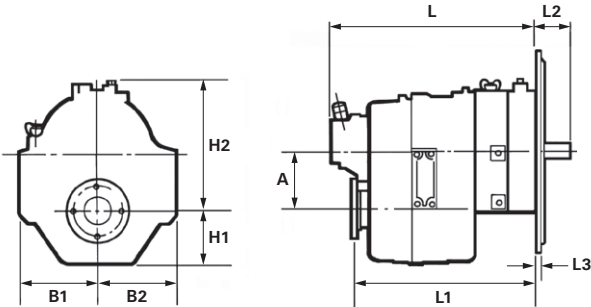
V-Drive
Direct Mount



Drawings and dimensions

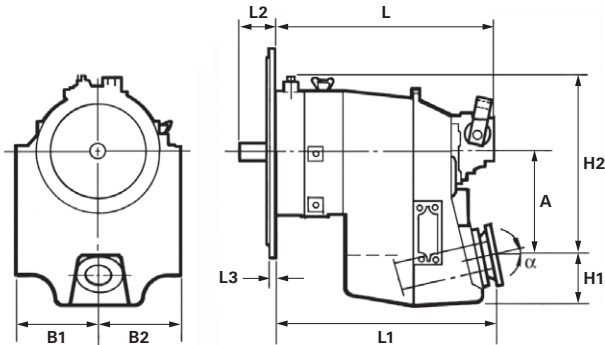
PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 90 TS	127	4.98	178	6.99	178	6.99	119	4.67	319	12.6	484	19.1	414	16.3	76.0	2.99	11.0	0.430	3	67.0	148	3.50	3.71
ZF 325 TS	165	6.50	265	10.4	265	10.4	156	6.14	424	16.7	714	28.1	607	23.9	-	-	0.0	0.0	1	180	397	6.50	6.89
ZF 550-1 TS	200	7.87	310	12.2	310	12.2	200	7.87	400	15.8	884	34.8	737	29.0	-	-	0.0	0.0	1	344	758	15.0	15.9
ZF 665 TS	200	7.87	310	12.2	310	12.2	200	7.87	400	15.8	884	34.8	737	29.0	-	-	0.0	0.0	1	344	758	15.0	15.9

2 Speed
Vertical Offset
Direct Mount



PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 90 IVTS	12	219	8.62	178	6.99	178	6.99	107	4.22	415	16.3	485	19.1	467	18.4	76.0	2.99	11.0	0.430	3	82.0	181	4.50	4.77
ZF 115 IVTS	12	246	9.69	190	7.48	190	7.48	132	5.20	445	17.5	532	20.9	516	20.3	76.0	2.99	0.0	0.0	2	107	236	7.50	7.95
ZF 325 IVTS	14	378	14.9	220	8.66	292	11.5	-	-	-	-	714	28.1	249	9.81	-	-	0.0	0.0	1	235	518	8.00	8.48

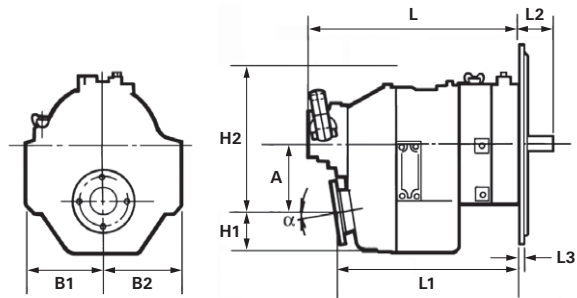
2 Speed V-Drive
Direct Mount



Drawings and dimensions

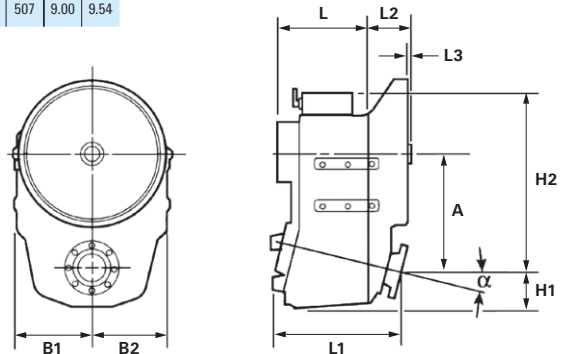
PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 90 ATS	8	144	5.67	178	6.99	178	6.99	82.0	3.23	336	13.2	484	19.1	406	16.0	76.0	2.99	11.0	0.430	3	64.0	141	3.50	3.71
ZF 115 ATS	8	160	6.30	210	8.27	210	8.27	112	4.41	356	14.0	537	21.1	432	17.0	76.0	2.99	0.0	0.0	2	82.0	181	6.00	6.36
ZF 325 ATS	7	180	7.09	265	10.4	265	10.4	128	5.04	439	17.3	703	27.7	590	23.2	-	-	0.0	0.0	1	180	397	6.50	6.89
ZF 550-1 ATS	10	269	10.6	310	12.2	310	12.2	157	6.17	592	23.3	884	34.8	724	28.5	-	-	0.0	0.0	1	356	785	15.0	15.9
ZF 665 ATS	10	269	10.6	310	12.2	310	12.2	157	6.18	592	23.3	884	34.8	724	28.5	-	-	0.0	0.0	1	353	778	15.0	15.9

2 Speed Down Angle
Direct Mount



PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 280 IV	14	331	13.0	184	7.24	184	7.24	90.1	3.55	501	19.7	395	15.6	285	11.2	59.0	2.32	35.0	1.38	2	106	234	5.00	5.30
ZF 286 IV	14	358	14.1	185	7.28	225	8.86	100	3.94	-	-	212	8.35	322	12.7	165	6.50	35.0	1.38	1	130	287	5.00	5.30
ZF 325 IV	14	378	14.9	220	8.66	242	9.53	140	5.51	655	25.8	489	19.3	357	14.1	55.0	2.17	45.0	1.77	1	185	408	8.00	8.48
ZF 335 IV	14	380	15.0	292	11.5	220	8.66	145	5.71	627	24.7	514	20.2	387	15.2	54.4	2.14	0.0	0.0	1	215	474	9.50	10.1
ZF 360 IV	14	392	15.4	292	11.5	220	8.66	145	5.71	627	24.7	358	14.1	372	14.7	280	11.0	0.0	0.0	1	230	507	9.50	10.1
ZF 500-1 IV	14	392	15.4	292	11.5	220	8.66	145	5.71	627	24.7	358	14.1	372	14.7	280	11.0	0.0	0.0	1	230	507	9.00	9.54

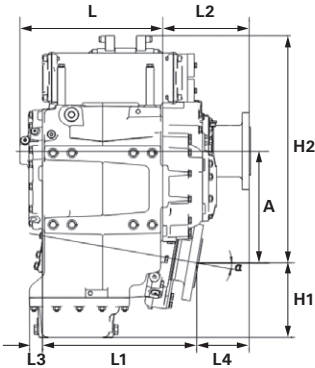
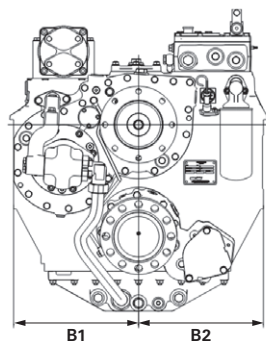
V-Drive
Direct Mount



Drawings and dimensions

PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		L4		WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 370 V	10	217	8.52	298	11.7	298	11.7	167	6.56	357	14.0	439	17.3	439	17.3	123	4.84	-	-	125	4.92	194	428	12.0	12.7
ZF 510 V	10	217	8.52	298	11.7	298	11.7	167	6.56	357	14.0	439	17.3	439	17.3	123	4.84	-	-	125	4.92	200	441	12.0	12.7
ZF 550-1 V	10	269	10.6	310	12.2	310	12.2	156	6.13	550	21.7	452	17.8	452	17.8	134	5.28	-	-	95.0	3.74	260	573	16.0	17.0
ZF 665 V	10	269	10.6	310	12.2	310	12.2	156	6.13	550	21.7	452	17.8	452	17.8	134	5.28	-	-	95.0	3.74	252	556	16.0	17.0
ZF 2000 V	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	375	14.8	394	15.5	200	7.87	50.0	1.97	111	4.37	352	776	21.0	22.3
ZF 2050 V	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	375	14.8	394	15.5	200	7.87	50.0	1.97	111	4.37	354	780	21.0	22.3
ZF 2060 V	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	375	14.8	394	15.5	200	7.87	50.0	1.97	111	4.37	354	780	21.0	22.3
ZF 2070 V	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	375	14.8	394	15.5	200	7.87	50.0	1.97	111	4.37	354	780	21.0	22.3
ZF 2075 V	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	375	14.8	394	15.5	200	7.87	50.0	1.97	111	4.37	354	780	21.0	22.3
ZF 2150 V	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	375	14.8	394	15.5	200	7.87	50.0	1.97	111	4.37	356	785	21.0	22.3
ZF 3000 V	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	418	16.5	452	17.8	253	9.96	38.5	1.52	153	6.02	500	1,102	31.0	32.9
ZF 3050 V	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	418	16.5	452	17.8	253	9.96	38.5	1.52	153	6.02	500	1,102	31.0	32.9
ZF 3055 V	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	418	16.5	452	17.8	253	9.96	38.5	1.52	153	6.02	505	1,113	31.0	32.9
ZF 3060 V	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	418	16.5	452	17.8	253	9.96	38.5	1.52	153	6.02	505	1,113	31.0	32.9
ZF 3070 V	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	418	16.5	452	17.8	253	9.96	38.5	1.52	153	6.02	505	1,113	31.0	32.9
ZF 5000 V	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	425	16.7	539	21.2	285	11.2	49.0	1.93	136	5.35	768	1,693	42.0	44.5
ZF 5050 V	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	425	16.7	539	21.2	285	11.2	49.0	1.93	136	5.35	768	1,693	42.0	44.5
ZF 5055 V	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	425	16.7	539	21.2	285	11.2	49.0	1.93	136	5.35	768	1,693	42.0	44.5
ZF 5060 V	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	425	16.7	539	21.2	285	11.2	49.0	1.93	136	5.35	768	1,693	42.0	44.5
ZF 7600 V	8	448	17.6	500	19.7	500	19.7	263	10.4	868	34.2	791	31.1	653	25.7	236	9.30	118	4.63	68.6	2.70	1,125	2,480	75.0	79.5
ZF 7650 V	8	448	17.6	500	19.7	500	19.7	263	10.4	868	34.2	791	31.1	653	25.7	236	9.30	118	4.63	68.6	2.70	1,125	2,480	75.0	79.5
ZF 9000 V	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	533	21.0	615	24.2	332	13.1	76.0	2.99	157	6.18	1,400	3,086	80.0	84.8
ZF 9050 V	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	533	21.0	615	24.2	332	13.1	76.0	2.99	157	6.18	1,400	3,086	80.0	84.8
ZF 9055 V	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	533	21.0	615	24.2	332	13.1	76.0	2.99	157	6.18	1,400	3,086	80.0	84.8
ZF 9060 V	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	533	21.0	615	24.2	332	13.1	76.0	2.99	157	6.18	1,400	3,086	80.0	84.8

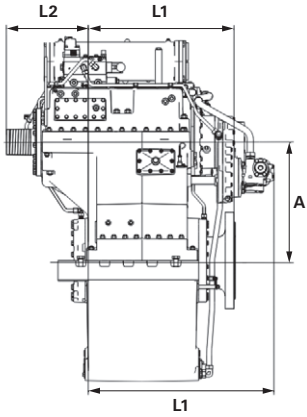
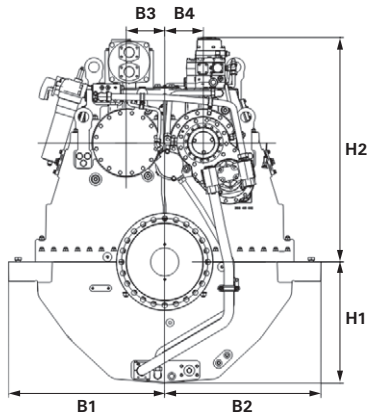
V-Drive
Remote Mount



Drawings and dimensions

PRODUCT	A		B1		B2		B3		B4		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 3050 D	140	5.52	365	14.4	365	14.4	213	8.39	213	8.39	250	9.84	593	23.4	670	26.4	485	19.1	132	5.20	482	1,063	31.0	32.9
ZF 3055 D	140	5.52	365	14.4	365	14.4	213	8.39	213	8.39	250	9.84	593	23.4	670	26.4	485	19.1	132	5.20	482	1,063	31.0	32.9
ZF 3060 D	140	5.52	365	14.4	365	14.4	213	8.39	213	8.39	250	9.84	593	23.4	670	26.4	485	19.1	132	5.20	482	1,063	31.0	32.9
ZF 5000 D	164	6.46	425	16.7	425	16.7	245	9.65	245	9.65	270	10.6	745	29.3	839	33.0	565	22.2	149	5.87	765	1,687	40.0	42.4
ZF 5050 D	164	6.46	425	16.7	425	16.7	245	9.65	245	9.65	270	10.6	745	29.3	839	33.0	565	22.2	149	5.87	765	1,687	40.0	42.4
ZF 5055 D	295	11.6	425	16.7	425	16.7	245	9.65	245	9.65	270	10.6	745	29.3	839	33.0	565	22.2	149	5.87	765	1,687	40.0	42.4
ZF 5060 D	164	6.46	425	16.7	425	16.7	245	9.65	245	9.65	270	10.6	745	29.3	839	33.0	565	22.2	149	5.87	765	1,687	40.0	42.4
ZF 24060 D	421	16.6	640	25.2	640	25.2	220	8.66	220	8.66	513	20.2	1,022	40.2	1,041	41.0	750	29.5	479	18.9	2,650	5,842	150	159
ZF 24360 D	675	26.6	890	35.0	890	35.0	220	8.66	220	8.66	690	27.2	1,289	50.8	1,072	42.2	845	33.3	448	17.6	3,870	8,532	200	212

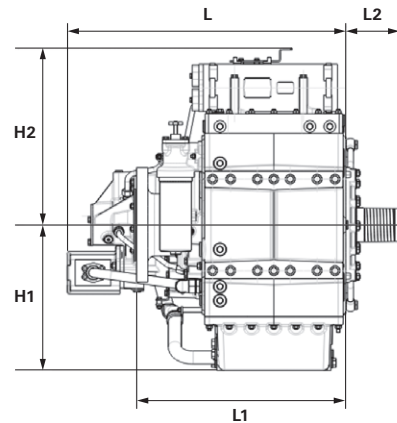
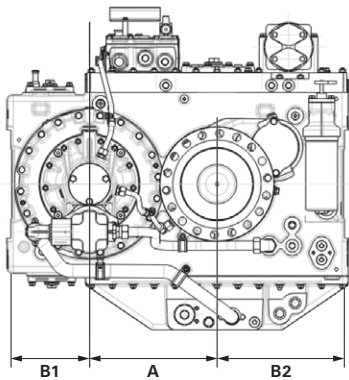
Diagonal Offset
Remote Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 5000 NR2H	295	11.6	310	12.2	195	7.68	297	11.7	452	17.8	839	33.0	565	22.2	149	5.87	615	1,356	35.0	37.1
ZF 5050 NR2H	295	11.6	310	12.2	195	7.68	297	11.7	452	17.8	839	33.0	565	22.2	149	5.87	615	1,356	35.0	37.1
ZF 5055 NR2H	295	11.6	310	12.2	195	7.68	297	11.7	452	17.8	839	33.0	565	22.2	149	5.87	615	1,356	35.0	37.1
ZF 5060 NR2H	295	11.6	310	12.2	195	7.68	297	11.7	452	17.8	839	33.0	565	22.2	149	5.87	615	1,356	35.0	37.1
ZF 7600 NR2H	340	13.4	220	8.66	320	12.6	400	15.8	519	20.4	795	31.3	638	25.1	146	5.75	705	1,554	50.0	53.0
ZF 7650 NR2H	340	13.4	220	8.66	320	12.6	400	15.8	519	20.4	795	31.3	638	25.1	146	5.75	705	1,554	50.0	53.0
ZF 9000 NR2H	390	15.4	240	9.45	390	15.4	445	17.5	540	21.3	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9050 NR2H	390	15.4	240	9.45	390	15.4	445	17.5	540	21.3	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9055 NR2H	390	15.4	240	9.45	390	15.4	445	17.5	540	21.3	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9060 NR2H	390	15.4	240	9.45	390	15.4	445	17.5	540	21.3	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 24060 NR2H	475	18.7	320	12.6	460	18.1	480	18.9	637	25.1	1,032	40.6	750	29.5	480	18.9	1,860	4,101	90.0	95.4
ZF 30050 NR2H	475	18.7	320	12.6	460	18.1	480	18.9	637	25.1	1,032	40.6	750	29.5	480	18.9	1,870	4,123	90.0	95.4
ZF 40060 NR2H	475	18.7	320	12.6	460	18.1	480	18.9	637	25.1	1,032	40.6	750	29.5	480	18.9	1,880	4,145	90.0	95.4

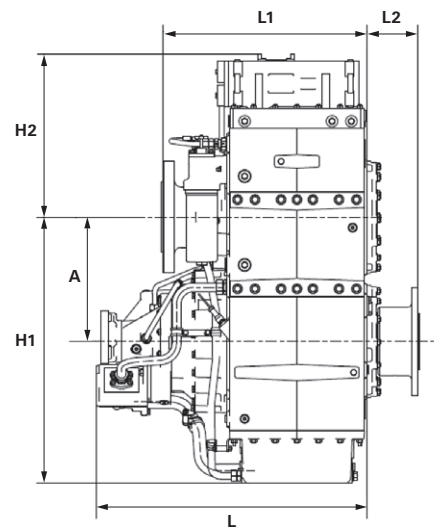
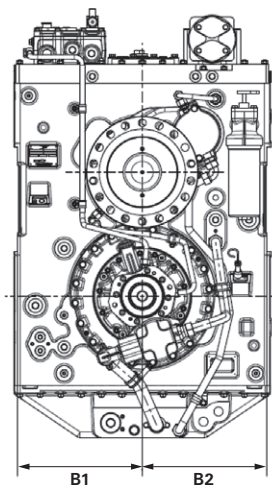
Horizontal Offset
Remote Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 7600 NR2B	340	13.4	352	13.9	352	13.9	750	29.5	520	20.5	795	31.3	638	25.1	146	5.75	705	1,554	50.0	53.0
ZF 7650 NR2B	340	13.4	352	13.9	352	13.9	750	29.5	520	20.5	795	31.3	638	25.1	146	5.75	720	1,587	50.0	53.0
ZF 9000 NR2B	390	15.4	390	15.4	390	15.4	835	32.9	503	19.8	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9050 NR2B	390	15.4	390	15.4	390	15.4	835	32.9	503	19.8	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9055 NR2B	390	15.4	390	15.4	390	15.4	835	32.9	503	19.8	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9060 NR2B	390	15.4	390	15.4	390	15.4	835	32.9	503	19.8	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 24060 NR2B	475	18.7	455	17.9	455	17.9	915	36.0	637	25.1	1,032	40.6	750	29.5	480	18.9	1,890	4,167	90.0	95.4
ZF 30050 NR2B	475	18.7	455	17.9	455	17.9	915	36.0	637	25.1	1,032	40.6	750	29.5	480	18.9	1,900	4,189	90.0	95.4
ZF 40060 NR2B	475	18.7	455	17.9	455	17.9	915	36.0	637	25.1	1,032	40.6	750	29.5	480	18.9	2,010	4,431	90.0	95.4
ZF 53000 NR2B	600	23.6	575	22.6	575	22.6	1,286	50.6	770	30.3	959	37.8	995	39.2	710	28.0	3,900	8,598	200	212
ZF 53500 NR2B	600	23.6	575	22.6	575	22.6	1,286	50.6	770	30.3	959	37.8	995	39.2	710	28.0	3,980	8,774	200	212
ZF 53800 NR2B	600	23.6	575	22.6	575	22.6	1,286	50.6	770	30.3	959	37.8	995	39.2	710	28.0	4,080	8,995	200	212

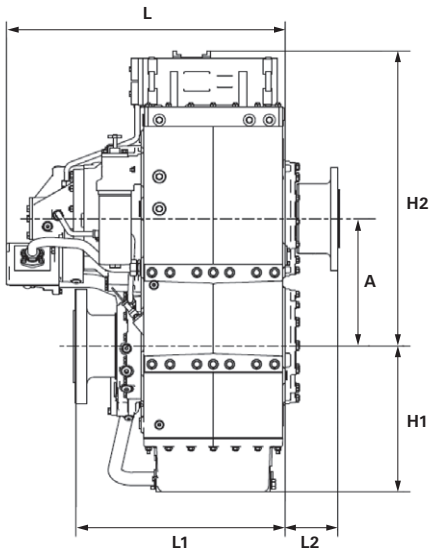
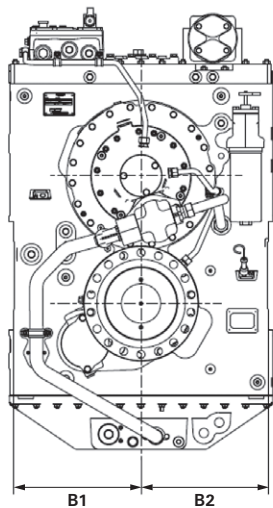
2-Shaft,
Non-Rreversing
(Input BELOW Output)
Remote Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 7600 NR2	340	13.4	352	13.9	352	13.9	400	15.8	870	34.3	795	31.3	638	25.1	146	5.75	705	1,554	50.0	53.0
ZF 7650 NR2	340	13.4	352	13.9	352	13.9	400	15.8	870	34.3	795	31.3	638	25.1	146	5.75	705	1,554	50.0	53.0
ZF 9000 NR2	390	15.4	390	15.4	390	15.4	445	17.5	893	35.2	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9050 NR2	390	15.4	390	15.4	390	15.4	445	17.5	893	35.2	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9055 NR2	390	15.4	390	15.4	390	15.4	445	17.5	893	35.2	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9060 NR2	390	15.4	390	15.4	390	15.4	445	17.5	893	35.2	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 24060 NR2	475	18.7	455	17.9	455	17.9	480	18.9	1,072	42.2	1,032	40.6	750	29.5	480	18.9	1,890	4,167	90.0	95.4
ZF 30050 NR2	475	18.7	455	17.9	455	17.9	480	18.9	1,072	42.2	1,316	51.8	750	29.5	480	18.9	1,900	4,189	90.0	95.4
ZF 40060 NR2	475	18.7	455	17.9	455	17.9	480	18.9	1,072	42.2	1,032	40.6	750	29.5	480	18.9	2,010	4,431	90.0	95.4

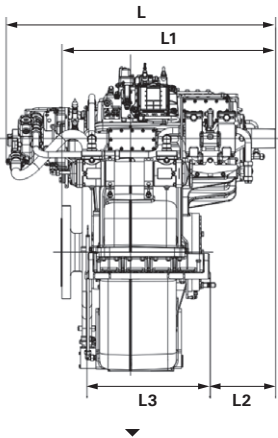
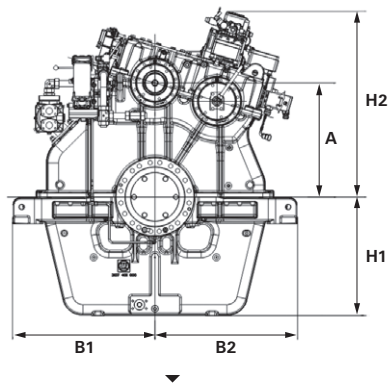
2-Shaft,
Non-Rreversing
(Input ABOVE Output)
Remote Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF W10020	390	15.4	600	23.6	600	23.6	500	19.7	720	28.4	1,540	60.6	1,192	46.9	369	14.5	714	28.1	2,550	5,622	80.0	84.8
ZF W10020 NR	390	15.4	600	23.6	600	23.6	500	19.7	720	28.4	1,540	60.6	1,192	46.9	369	14.5	714	28.1	2,550	5,622	80.0	84.8
ZF W10030	390	15.4	600	23.6	600	23.6	500	19.7	720	28.4	1,540	60.6	1,192	46.9	369	14.5	714	28.1	2,550	5,622	80.0	84.8
ZF W10030 NR	390	15.4	600	23.6	600	23.6	500	19.7	720	28.4	1,540	60.6	1,192	46.9	369	14.5	714	28.1	2,550	5,622	80.0	84.8
ZF W10050	390	15.4	600	23.6	600	23.6	500	19.7	720	28.4	1,540	60.6	1,192	46.9	369	14.5	714	28.1	2,550	5,622	80.0	84.8
ZF W10050 NR	390	15.4	600	23.6	600	23.6	500	19.7	720	28.4	1,540	60.6	1,192	46.9	369	14.5	714	28.1	2,235	4,927	80.0	84.8
ZF W10120	500	19.7	650	25.6	650	25.6	530	20.9	880	34.7	1,540	60.6	1,200	47.2	369	14.5	714	28.1	2,950	6,504	80.0	84.8
ZF W10120 NR	500	19.7	650	25.6	650	25.6	530	20.9	880	34.7	1,540	60.6	1,200	47.2	369	14.5	714	28.1	2,635	5,809	80.0	84.8
ZF W10130	500	19.7	650	25.6	650	25.6	530	20.9	880	34.7	1,540	60.6	1,200	47.2	369	14.5	714	28.1	2,950	6,504	80.0	84.8
ZF W10130 NR	500	19.7	650	25.6	650	25.6	530	20.9	880	34.7	1,540	60.6	1,200	47.2	369	14.5	714	28.1	2,635	5,809	80.0	84.8
ZF W10150	500	19.7	650	25.6	650	25.6	530	20.9	880	34.7	1,540	60.6	1,200	47.2	369	14.5	714	28.1	2,950	6,504	80.0	84.8
ZF W10150 NR	500	19.7	650	25.6	650	25.6	530	20.9	880	34.7	1,540	60.6	1,200	47.2	369	14.5	714	28.1	2,635	5,809	80.0	84.8
ZF W10220	625	24.6	795	31.3	795	31.3	660	26.0	1,035	40.8	1,540	60.6	1,212	47.7	369	14.5	714	28.1	3,500	7,716	120	127
ZF W10220 NR	625	24.6	795	31.3	795	31.3	660	26.0	1,035	40.8	1,540	60.6	1,212	47.7	369	14.5	714	28.1	3,185	7,022	120	127
ZF W10230	625	24.6	795	31.3	795	31.3	660	26.0	1,035	40.8	1,540	60.6	1,212	47.7	369	14.5	714	28.1	3,500	7,716	120	127
ZF W10230 NR	625	24.6	795	31.3	795	31.3	660	26.0	1,035	40.8	1,540	60.6	1,212	47.7	369	14.5	714	28.1	3,185	7,022	120	127
ZF W10250	625	24.6	795	31.3	795	31.3	660	26.0	1,035	40.8	1,540	60.6	1,212	47.7	369	14.5	714	28.1	3,500	7,716	120	127
ZF W10250 NR	625	24.6	795	31.3	795	31.3	660	26.0	1,035	40.8	1,540	60.6	1,212	47.7	369	14.5	714	28.1	3,185	7,022	120	127
ZF 10830	625	24.6	795	31.3	795	31.3	660	26.0	1,035	40.8	1,540	60.6	1,212	47.7	369	14.5	714	28.1	3,500	7,716	120	127
ZF 10830 NR	625	24.6	795	31.3	795	31.3	660	26.0	1,035	40.8	1,540	60.6	1,212	47.7	369	14.5	714	28.1	3,185	7,022	120	127
ZF 10850	625	24.6	795	31.3	795	31.3	660	26.0	1,035	40.8	1,540	60.6	1,212	47.7	369	14.5	714	28.1	3,500	7,716	120	127
ZF 10850 NR	625	24.6	795	31.3	795	31.3	660	26.0	1,035	40.8	1,540	60.6	1,212	47.7	369	14.5	714	28.1	3,185	7,022	120	127
ZF W11010 NR	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,480	5,467	80.0	84.8

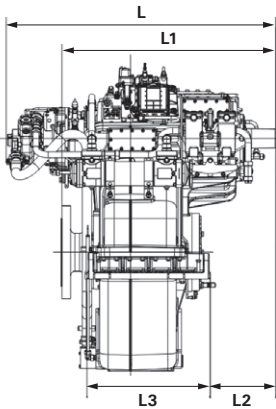
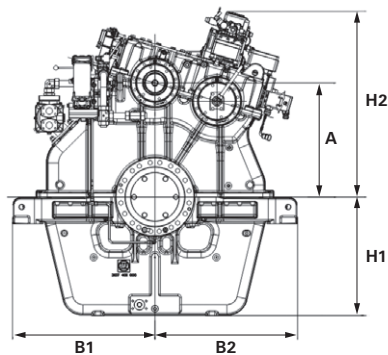
Vertical Offset
Remote Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF W11020	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,860	6,305	80.0	84.8
ZF W11020 NR	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,480	5,467	80.0	84.8
ZF W11030	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,860	6,305	80.0	84.8
ZF W11030 NR CEW	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,480	5,467	80.0	84.8
ZF W11050	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,860	6,305	80.0	84.8
ZF W11050 NR CEW	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,480	5,467	80.0	84.8
ZF W11110 NR	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	2,960	6,526	90.0	95.4
ZF W11120	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	3,340	7,363	90.0	95.4
ZF W11120 NR	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	2,960	6,526	90.0	95.4
ZF W11130	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	3,340	7,363	90.0	95.4
ZF W11130 NR CEW	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	2,960	6,526	90.0	95.4
ZF W11150	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	3,340	7,363	90.0	95.4
ZF W11150 NR CEW	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	2,960	6,526	90.0	95.4
ZF W11210 NR	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,460	7,628	145	154
ZF W11220	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,840	8,466	145	154
ZF W11220 NR	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,460	7,628	145	154
ZF W11230	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,840	8,466	145	154
ZF W11230 NR CEW	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,460	7,628	145	154
ZF W11250	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,840	8,466	145	154
ZF W11250 NR CEW	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,460	7,628	145	154
ZF 11830	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,840	8,466	145	154
ZF 11830 NR	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,460	7,628	145	154
ZF 11850	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,840	8,466	145	154
ZF 11850 NR	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,460	7,628	145	154

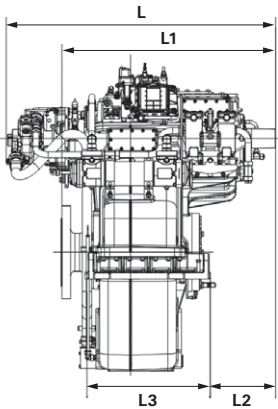
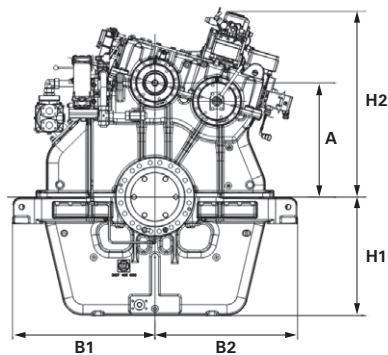
Vertical Offset
Remote Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF W17000	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	4,550	10,031	171	181
ZF W17000 NR	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	3,900	8,598	171	181
ZF W17010	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	4,550	10,031	171	181
ZF W17010 NR	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	3,900	8,598	171	181
ZF W17030	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	4,620	10,185	171	181
ZF W17030 NR CEW	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	3,940	8,686	171	181
ZF W17050	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	4,620	10,185	171	181
ZF W17050 NR CEW	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	3,940	8,686	171	181
ZF W17100	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,350	11,795	171	181
ZF W17100 NR	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	4,750	10,472	171	181
ZF W17110	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,350	11,795	171	181
ZF W17110 NR	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	4,750	10,472	171	181
ZF W17130	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,420	11,949	171	181
ZF W17130 NR CEW	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	4,790	10,560	171	181
ZF W17150	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,420	11,949	171	181
ZF W17150 NR CEW	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	4,790	10,560	171	181
ZF W17200	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,800	12,787	187	198
ZF W17200 NR	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,250	11,574	187	198
ZF W17210	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,800	12,787	187	198
ZF W17210 NR	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,250	11,574	187	198
ZF W17230	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,870	12,941	187	198
ZF W17230 NR CEW	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,290	11,662	187	198
ZF W17250	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,870	12,941	187	198
ZF W17250 NR CEW	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,290	11,662	187	198

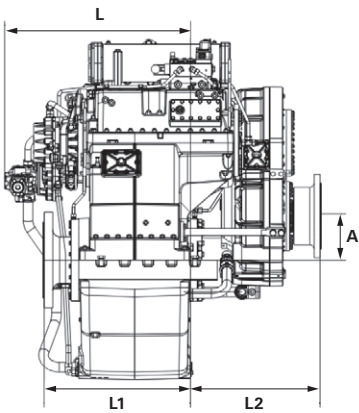
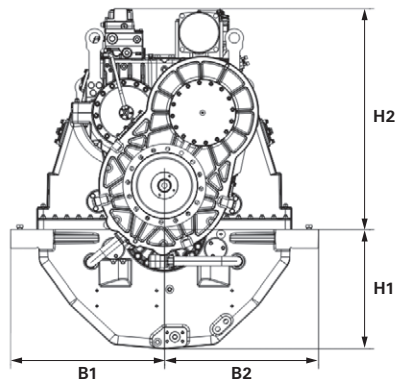
Vertical Offset
Remote Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 23560 C (IV=1.000)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 23560 C (IV=1.130)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 23560 C (IV=1.273)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 23560 C (IV=1.432)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 23860 C (IV=0.492)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 24060 SGC (IV=1.000)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 24060 SGC (IV=1.173)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 24060 SGC (IV=1.280)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 24060 SGC (IV=1.354)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 24360 SG (IV=1.000)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,500	9,921	200	212
ZF 24360 SG (IV=1.173)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,500	9,921	200	212
ZF 24360 SG (IV=1.280)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,500	9,921	200	212
ZF 24360 SG (IV=1.354)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,500	9,921	200	212
ZF 30050 SGC (IV=0.759)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 30350 SG (IV=0.759)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,575	10,086	200	212
ZF 40060 SGC (IV=0.522)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,260	7,187	150	159
ZF 40060 SGC (IV=0.585)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,260	7,187	150	159
ZF 40060 SGC (IV=0.603)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,260	7,187	150	159
ZF 40360 SG (IV=0.522)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,625	10,196	200	212
ZF 40360 SG (IV=0.585)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,625	10,196	200	212
ZF 40360 SG (IV=0.603)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,625	10,196	200	212

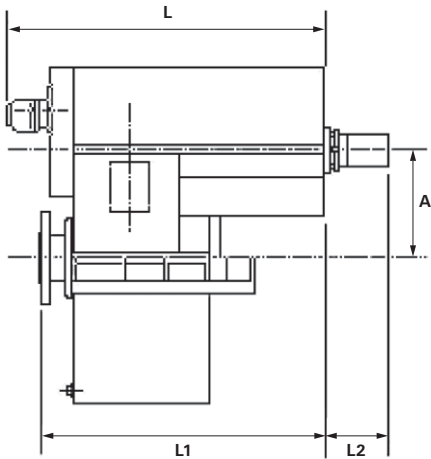
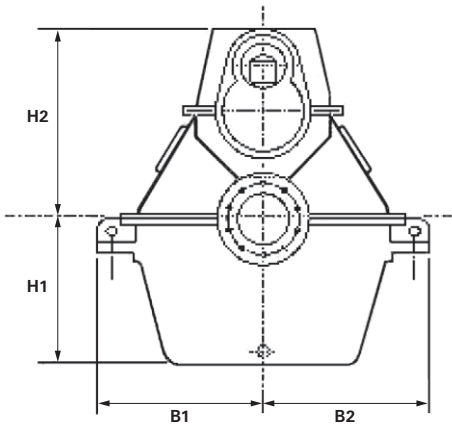
Near Co-Axial
Remote Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF W33100 NR2	700	27.6	860	33.9	860	33.9	800	31.5	1,260	49.6	1,596	62.8	1,493	58.8	301	11.9	6,080	13,404	280	297
ZF W43000 NR2	600	23.6	860	33.9	860	33.9	800	31.5	1,210	47.6	1,768	69.6	1,598	62.9	336	13.2	6,400	14,110	280	297
ZF W43100 NR2	770	30.3	995	39.2	995	39.2	900	35.4	1,380	54.3	1,768	69.6	1,653	65.1	336	13.2	9,300	20,503	370	392
ZF 43600 NR2	600	23.6	860	33.9	860	33.9	800	31.5	1,210	47.6	1,768	69.6	1,598	62.9	336	13.2	6,400	14,110	280	297
ZF 43700 NR2	770	30.3	995	39.2	995	39.2	900	35.4	1,380	54.3	1,768	69.6	1,653	65.1	336	13.2	9,300	20,503	370	392
ZF 53600 NR2	670	26.4	995	39.2	995	39.2	900	35.4	1,937	76.3	1,836	72.3	1,785	70.3	346	13.6	9,200	20,283	370	392
ZF W63000 NR2	670	26.4	995	39.2	995	39.2	900	35.4	1,367	53.8	1,836	72.3	1,785	70.3	346	13.6	9,200	20,283	370	392
ZF W83100 NR2	980	38.6	1,230	48.4	1,230	48.4	1,120	44.1	1,760	69.3	1,989	78.3	2,059	81.1	376	14.8	16,600	36,597	720	763

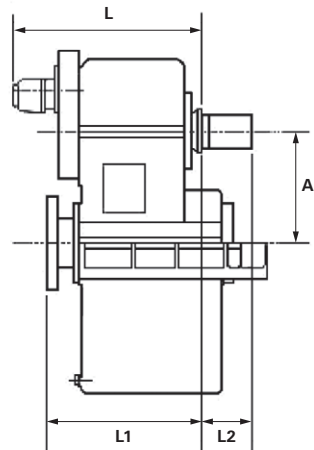
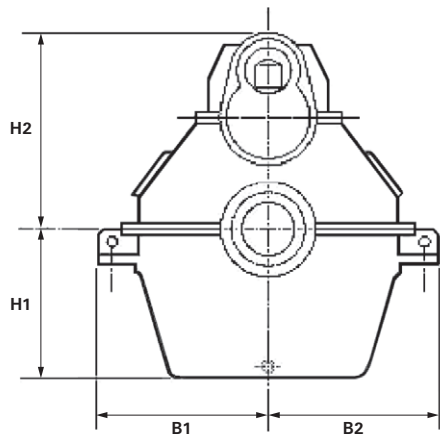
Vertical Offset
Remote Mount



Drawings and dimensions

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF W33100 NC2	700	27.6	860	33.9	860	33.9	800	31.5	1,350	53.2	1,040	40.9	880	34.7	290	11.4	4,500	9,921	280	297
ZF W43000 NC2	600	23.6	860	33.9	860	33.9	800	31.5	1,255	49.4	1,100	43.3	930	36.6	340	13.4	5,400	11,905	280	297
ZF W43100 NC2	770	30.3	995	39.2	995	39.2	900	35.4	1,432	56.4	1,100	43.3	985	38.8	340	13.4	6,800	14,991	370	392
ZF W83000 NC2	750	29.5	1,090	42.9	1,090	42.9	1,000	39.4	1,562	61.5	1,225	48.2	1,130	44.5	360	14.2	9,270	20,437	600	636
ZF W83100 NC2	980	38.6	1,230	48.4	1,230	48.4	1,120	44.1	1,792	70.6	1,225	48.2	1,210	47.6	360	14.2	14,800	32,628	720	763
ZF W93300 NC2	980	38.6	1,235	48.6	1,235	48.6	1,125	44.3	2,140	84.3	1,915	75.4	2,490	98.0	425	16.7	21,000	46,297	800	848
ZF W103100 NC2	1,120	44.1	1,375	54.1	1,375	54.1	1,340	52.8	1,810	71.3	1,840	72.4	2,190	86.2	425	16.7	27,000	59,525	1,050	1,113

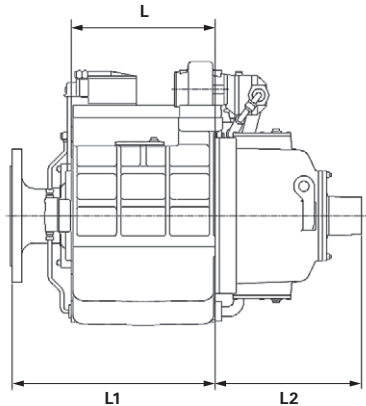
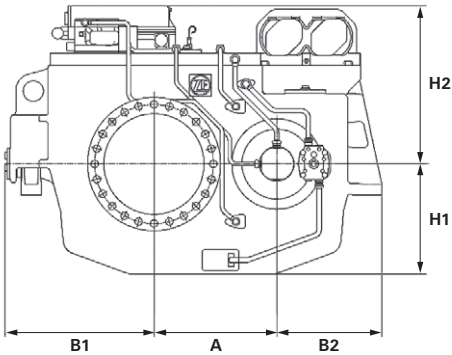
Vertical Offset
Remote Mount



Drawings and dimensions

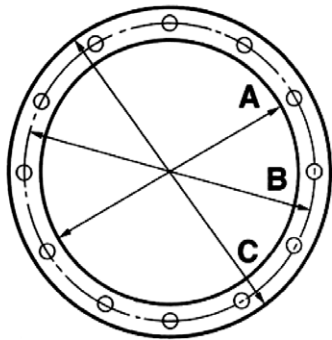
PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 53000 NR2H	600	23.6	730	28.7	515	20.3	535	21.1	770	30.3	705	27.8	995	39.2	716	28.2	3,750	8,267	200	212
ZF 53500 NR2H	600	23.6	730	28.7	515	20.3	535	21.1	770	30.3	705	27.8	995	39.2	746	29.4	3,825	8,433	200	212
ZF 53600 NR2H	670	26.4	948	37.3	772	30.4	770	30.3	1,146	45.1	759	29.9	996	39.2	1,136	44.7	9,900	21,826	300	318
ZF 53800 NR2H	600	23.6	730	28.7	515	20.3	535	21.1	770	30.3	705	27.8	995	39.2	761	30.0	3,925	8,653	200	212
ZF 60000 NR2H	665	26.2	750	29.5	590	23.2	600	23.6	819	32.2	715	28.2	1,045	41.1	817	32.2	4,650	10,251	200	212
ZF 60500 NR2H	665	26.2	750	29.5	590	23.2	600	23.6	819	32.2	715	28.2	1,045	41.1	817	32.2	4,650	10,251	200	212
ZF W63000 NR2H	670	26.4	948	37.3	772	30.4	770	30.3	1,146	45.1	1,531	60.3	1,768	69.6	364	14.3	9,900	21,826	300	318
ZF 83700 NR2H	880	34.7	1,135	44.7	825	32.5	950	37.4	1,217	47.9	910	35.8	1,229	48.4	1,147	45.2	15,500	34,172	500	530
ZF 83750 NR2H	880	34.7	1,135	44.7	825	32.5	950	37.4	1,217	47.9	910	35.8	1,229	48.4	1,147	45.2	15,500	34,172	500	530

Horizontal Offset
Remote Mount



SAE Bell housing dimensions





SAE No.	A		B		C		Bolt holes		
	mm	inch	mm	inch	mm	inch	No.	Diameter	
								mm	inch
00	787.40	31	850.90	33 1/2	882.65	34 3/4	16	13.49	17/32
0	647.70	25 1/2	679.45	26 3/4	711.20	28	16	13.49	17/32
1/2	584.20	23	619.13	24 3/8	647.70	25 1/2	12	13.49	17/32
1	511.18	20 1/8	530.23	20 7/8	552.45	21 3/4	12	11.91	15/32
2	447.68	17 5/8	466.73	18 3/8	488.95	19 1/4	12	10.32	13/32
3	409.58	16 1/8	428.63	16 7/8	450.85	17 3/4	12	10.32	13/32
4	361.95	14 1/4	381.00	15	403.23	15 7/8	12	10.32	13/32
5	314.33	12 3/8	333.38	13 1/8	355.60	14	8	10.32	13/32
6	266.70	10 1/2	285.75	11 1/4	307.98	12 1/8	8	10.32	13/32



Other Products

Content

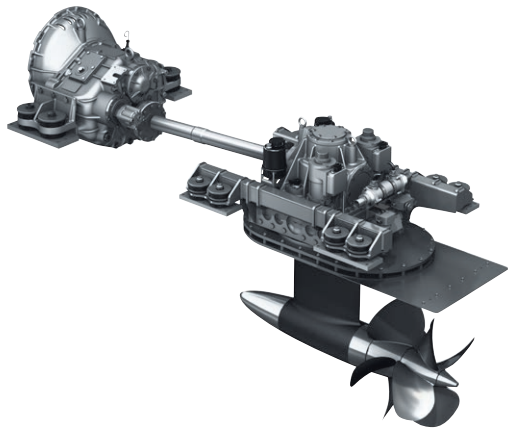
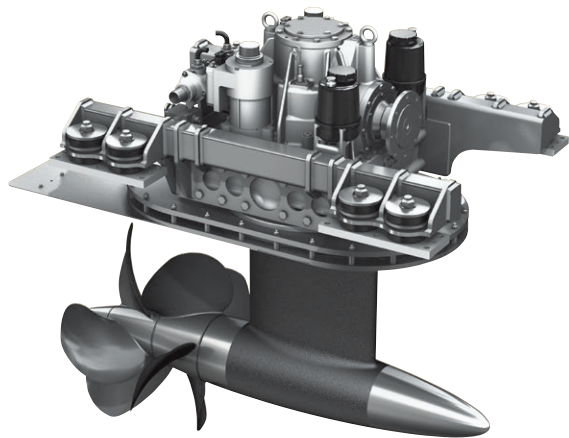
Control Systems	page	276
ZF POD 4000	page	278
Sail Drive	page	280
Surface Drive System	page	282

			Premium			
			ClearCommand	CruiseCommand	SmartCommand	MiniCommand
Actuation	Mech. Engine	x	x	x		
	Elec. Engine		x	x	x	x
	Mech. Gear	x	x	x		
	Elec. Gear		x	x	x	x
	Mech. Troll	x	x	x		
	Elec. Troll		x	x	x	x
	Up to 2 stations					x
	Up to 4 stations			x		
	Up to 5 stations	x	x	x		
	Up to 6 stations				x	
	Back up	x	x	x	x	
	Joystick Maneuvering System				x	
	SteerCommand				x	
	Dynamic Positioning Interface			x		
						
			CruiseCommand	MiniCommand	SmartCommand	JMS
						
						SteerCommand
						SmartCommand 5200
						
			MicroCommand	ClearCommand	SmartCommand One Button One Function Panel	MiniCommand 4200
						
						MC 2000-2
						
						460 Series

ZF POD 4000

MODEL	Ratios	Power/rpm			Input power capacity						Max. rpm	Weight	
		kW/rpm	hp/rpm		kW	hp		kW	hp			kW	hp
					2100 rpm		2300 rpm		2450 rpm				
ZF POD 4000	1.970	0.385	0.516		809	1083	886	1187	943	1264	2500	~1000	~2200

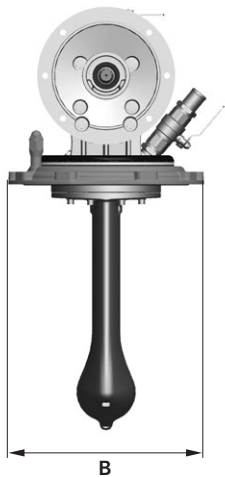
Above ratings are valid for pleasure duty only
AND NOT FOR CHARTER APPLICATIONS;
please refer to ZF Offices for other uses



Sail Drive

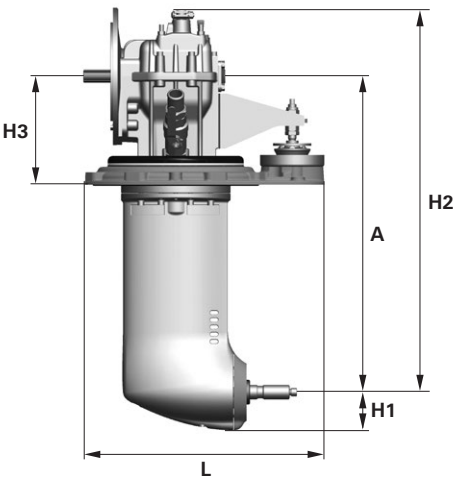
MODEL	Ratios	Power/rpm		Input power capacity				Max. kW	Max. hp	Max. rpm	Weight		A		B		H1		H2		H3		L	
		kW/rpm	hp/rpm	kW	hp	kW	hp				kg	lb	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
3200				3600																				
ZF SD 10	2.231	0.0157	0.0211	50	68	57	76	60	80	3800	40	88	611	24.1	378	14.9	74	2.9	739	29.1	210	8.3	463	18.2
	2.493	0.0157	0.0211	50	68	57	76																	
ZF SD 12	2.231	0.0188	0.0252	60	81	68	91	71	96	3800	40	88	611	24.1	378	14.9	74	2.9	739	29.1	210	8.3	463	18.2
	2.493	0.0188	0.0252	60	81	68	91																	
ZF SD 12 SPP	2.231	0.0188	0.0252	60	81	68	91	71	96	3800	113	249	760	29.9	378	14.9	74	2.9	1,018	40.1	307	12.1	463	18.2
	2.493	0.0188	0.0252	60	81	68	91																	

SPP: Steerable Propulsion Pod



Propeller downpropping is not accepted. In the need of special approval please contact ZF for official release whereas acceptable.

Above ratings are valid for pleasure duty only; please refer to ZF Offices for other uses

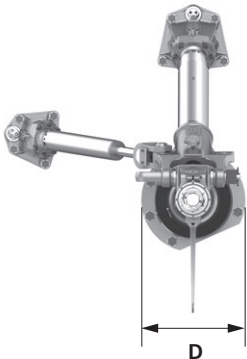
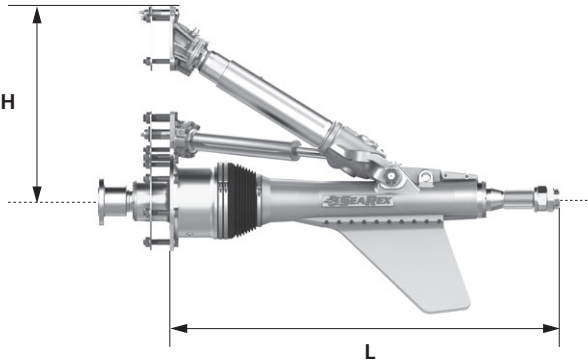


Surface Drive System

MODEL	Max. input torque		Max. input power hp at prop. rpm		Weight*		Diam. propeller shaft		Transom flange diam. – D		Mounting height – H		Overall length – L	
	Nm	ftlb	1500 rpm	1150 rpm	kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
SeaRex 120 S	9090	6705	1915	–	370	815	90	3.5	350	13.78	813	32	1617	63.7
SeaRex 130 S	10650	7855	2242	–	372	820	90	3.5	432	17	813	32	1617	63.7
SeaRex 140 S	15070	11116	3175	–	708	1559	108	4.3	540	21.25	848	33.4	1958	77.1
SeaRex 160 S	24000	17702	–	3875	990	2181	121	4.7	584	23	988	38.9	2221	87.4

Above ratings are valid for pleasure duty only;
please refer to ZF Offices for other uses.

* Weights refer to one tail assembly as per drawing below.



Content

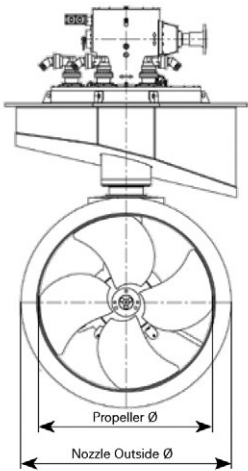
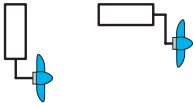
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Well Mounted
Azimuth Thrusters

MODEL	Max. power*		Typical prop. dia. open		Typical prop. dia. nozzle	
	kW	hp	mm	in	mm	in
ZF AT 2000 WM-FP	200	268	750	30	700	28
ZF AT 3000 WM-FP	300	402	1050	41	1000	39
ZF AT 400 WM-FP	440	590	1150	45	1100	43
ZF AT 4000 WM-FP	525	704	1350	53	1300	51
ZF AT 5000 WM-FP	825	1105	1700	67	1650	65
ZF AT 6000 WM-FP	1200	1608	1950	77	1900	75
ZF AT 7000 WM-FP	1650	2211	2300	91	2200	87
ZF AT 8000 WM-FP	2000	2680	2500	98	2400	94

* Rating, subject to classification and application.
Mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to
determine applicable power for each specific use.

Available as L-Drive and Z-Drive

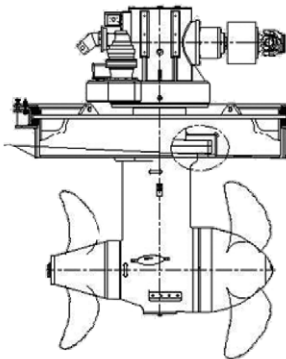
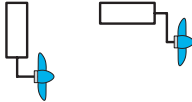


Contra Rotating Azimuth Thrusters

MODEL	Max. power*		Propeller dia. pulling propeller		Propeller dia. pushing propeller	
	kW	hp	mm	in	mm	in
ZF AT 2000 WM-CR	150	201	700	28	670	26
ZF AT 3000 WM-CR	300	402	1125	44	1000	39
ZF AT 400 WM-CR	385	516	1000	39	960	38
ZF AT 4000 WM-CR	435	583	1250	49	1150	45
ZF AT 5000 WM-CR	770	1032	1400	55	1250	49

* Rating, subject to classification and application.
Mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to determine applicable power for each specific use.

Available as L-Drive and Z-Drive

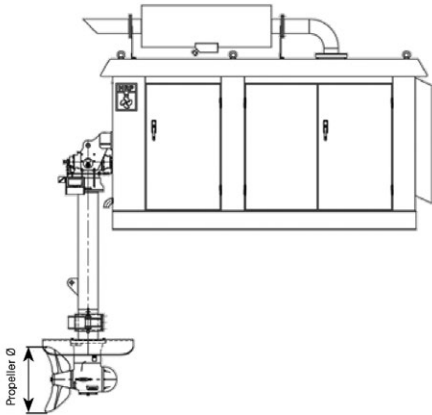


Deck Mounted Azimuth Thrusters

MODEL**	Max. power*		Typical prop. dia. open		Typical prop. dia. nozzle	
	kW	hp	mm	in	mm	in
ZF AT 2000 DM-FP	180	241	750	30	700	28
ZF AT 3000 DM-FP	300	402	1050	41	1000	39
ZF AT 400 DM-FP	440	590	1150	45	1100	43
ZF AT 4000 DM-FP	525	704	1350	53	1300	51
ZF AT 5000 DM-FP	825	1105	1700	67	1650	65
ZF AT 6000 DM-FP	1200	1608	2100	83	2050	81

* Rating, subject to classification and application.
Mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to determine applicable power for each specific use.
** Can be supplied with any type or make of diesel engine.

Available as Z-Drive

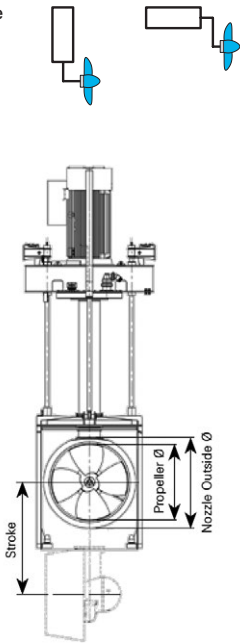


Retractable Azimuth Thrusters

MODEL	Max. power*		Typical prop. dia. nozzle	
	kW	hp	mm	in
ZF AT 2000 RT-FP	200	268	700	28
ZF AT 3000 RT-FP	300	402	1000	39
ZF AT 400 RT-FP	440	590	1150	45
ZF AT 4000 RT-FP	525	704	1300	51
ZF AT 5000 RT-FP	825	1105	1650	65
ZF AT 6000 RT-FP	1200	1608	1900	75
ZF AT 7000 RT-FP	1650	2211	2200	87
ZF AT 8000 RT-FP	2000	2680	2400	94

* Rating, subject to classification and application.
Mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to
determine applicable power for each specific use.

Available as L-Drive and Z-Drive

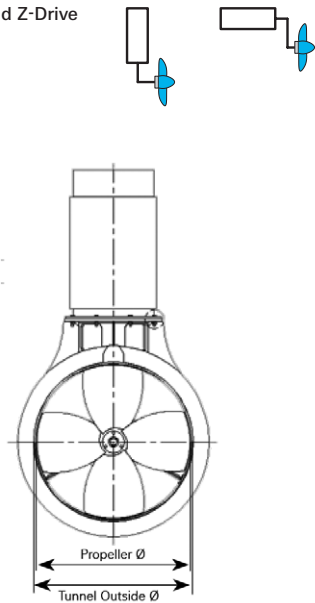


Fixed Pitch Tunnel Thrusters

MODEL	Max. power*		Typical prop. dia.		Tunnel outer dia.		Tunnel wall thickness standard		Tunnel length standard	
	kW	hp	mm	in	mm	in	mm	in	mm	in
ZF TT 1000 FP**	100	134	600	24	660	26	15	0.6	1000	39
ZF TT 2000 FP**	200	268	700	28	760	30	15	0.6	1000	39
ZF TT 3000 FP**	300	402	1050	41	1110	44	15	0.6	1000	39
ZF TT 400 FP	440	590	1150	45	1220	48	15	0.6	1000	39
ZF TT 4000 FP	525	704	1350	53	1420	60	16	0.6	1500	59
ZF TT 5000 FP	825	1105	1650	65	1730	68	18	0.7	2000	79
ZF TT 6000 FP	1200	1608	1900	75	1990	78	20	0.8	2000	79
ZF TT 7000 FP	1650	2211	2300	91	2400	94	22	0.9	2200	87
ZF TT 8000 FP	2000	2680	2450	97	2550	100	22	0.9	2550	100

* Rating, subject to classification and application.
Mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to
determine applicable power for each specific use.
** Also available in AL gearbox and tunnel.

Available as L-Drive and Z-Drive

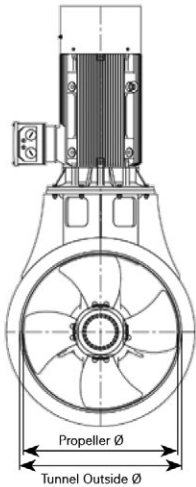
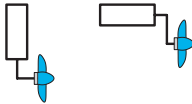


Controllable Pitch Tunnel Thrusters

MODEL	Max. power*		Typical prop. dia.		Tunnel outer dia.		Tunnel wall thickness standard		Tunnel length standard	
	kW	hp	mm	in	mm	in	mm	in	mm	in
ZF TT 4000 CP	500	670	1350	53	1420	60	16	0.6	1500	59
ZF TT 5000 CP	850	1139	1650	53	1730	70	18	0.7	2000	79

* Rating, subject to classification and application.
Mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to determine applicable power for each specific use.

Available as L-Drive and Z-Drive

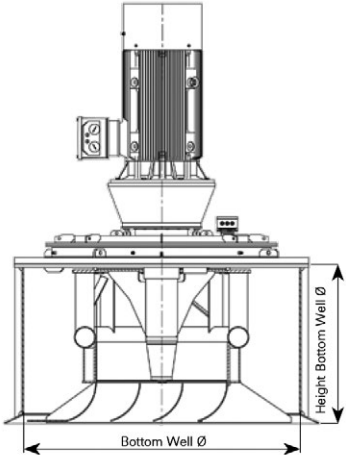
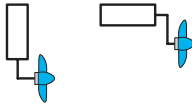


Shallow Draught Thrusters

MODEL	Max. power*		Diameter outer well approx.		Height of outer well approx.	
	kW	hp	mm	in	mm	in
ZF SDT 2000 FP	100	134	1030	41	615	24
ZF SDT 3000 FP	195	261	1460	58	867	34
ZF SDT 4000 FP	350	469	1960	77	1158	46
ZF SDT 5000 FP	575	771	2520	99	1493	59
ZF SDT 6000 FP	825	1105	3060	121	1805	71

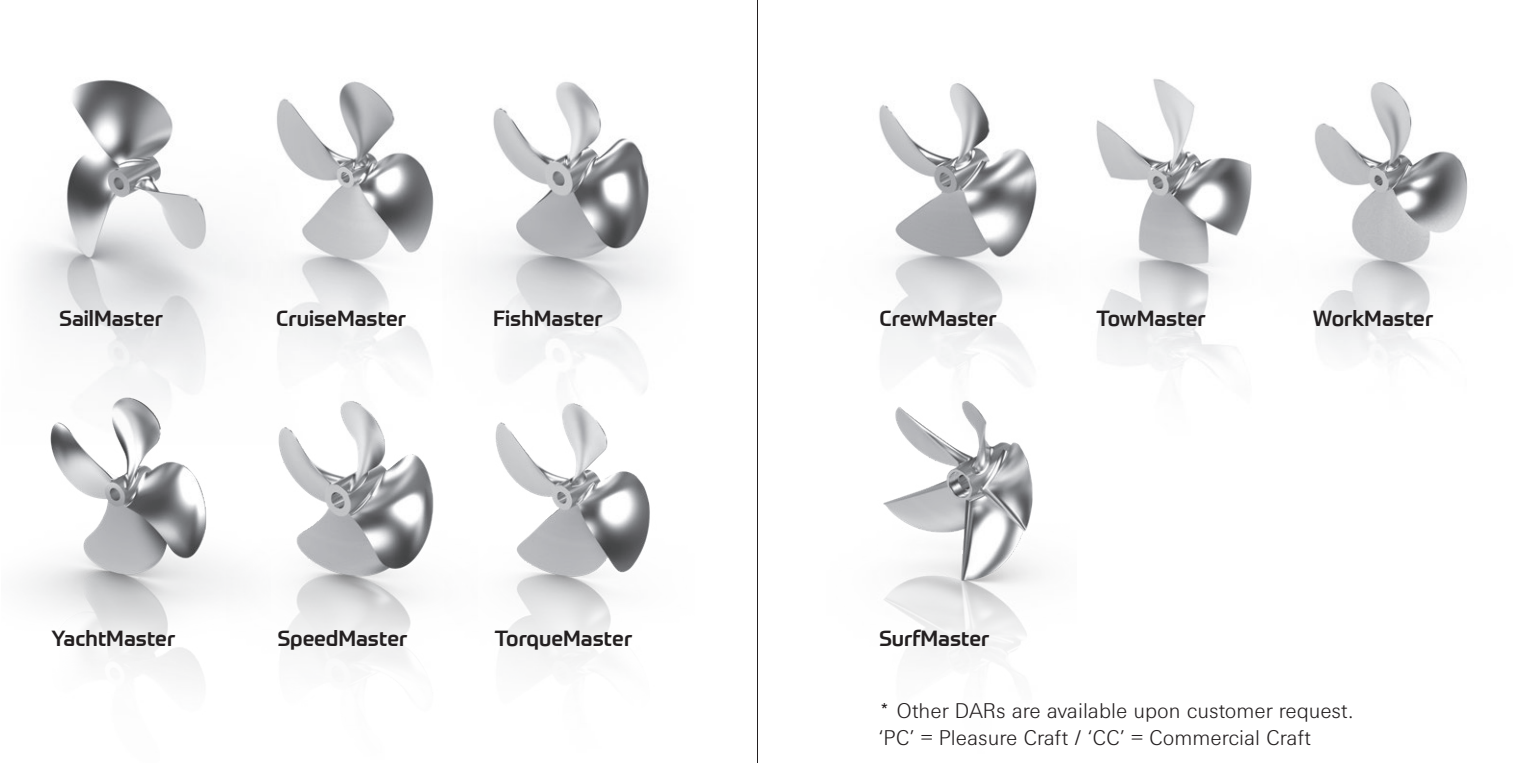
* Rating, subject to classification and application.
Mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to determine applicable power for each specific use.

Available as L-Drive and Z-Drive



Fixed Pitch Propellers

MODEL	Blades	DAR range*	Category		Application	Remarks
			PC	CC		
SailMaster	3	0.5-0.55	x		Sailing Vessels	
CruiseMaster	4, 5	0.55-0.80	x		Cruisers/Trawlers	
FishMaster	4, 5	0.8-1.20	x		Sportfish Boats (> 30 knots)	
YachtMaster	4, 5	0.55-1.20	x		Displacement Yachts	
SpeedMaster	4, 5	0.8-1.20	x	x	Planing Hulls (> 25 knots)	Progressive Pitch
TorqueMaster	4	0.6-0.9	x	x	Planing Hulls (< 25 knots)	Constant Pitch
SurfMaster	4, 6	0.8-1.20	x	x	Surface Drives	
CrewMaster	4	0.8-0.85		x	Crew Boats	
TowMaster	3, 4, 5	0.55-0.75		x	Tugs/Push Boats	Kaplan
WorkMaster	4	0.7		x	General Workboat	



* Other DARs are available upon customer request.
'PC' = Pleasure Craft / 'CC' = Commercial Craft

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MULTIPLY	BY	TO GET OR MULTIPLY	BY	TO GET
SI UNIT	CONV. FACTOR	USA NON-SI UNIT	CONV. FACTOR	SI UNIT
LENGTH				
millimeter (mm)	× 0.03937	= inch	× 25.4	= mm
(1 inch=25.4 mm exactly)				
centimeter (cm) 10 mm	× 0.3937	= inch	× 2.54	= cm
meter (m) 1000 mm	× 3.28	= foot	× 0.305	= m
kilometer (km) 1000 m	× 0.539	= nautical mile	× 1.854	= km
kilometer (km) 1000 m	× 0.62	= statute mile	× 1.61	= km
AREA				
millimeter ² (mm ²)	× 0.00155	= inch ²	× 645	= mm ²
centimeter ² (cm ²)	× 0.155	= inch ²	× 6.45	= cm ²
meter ² (m ²)	× 10.8	= foot ²	× 0.0929	= m ²
meter ² (m ²)	× 1.2	= yard ²	× 0.836	= m ²
VOLUME				
centimeter ³ (cm ³)	× 0.061	= inch ³	× 16.4	= cm ³
liter (l) dm ³	× 61	= inch ³	× 0.016	= l
milliliter (ml) (1 ml=1cm ³)	× 0.034	= oz-liq	× 29.6	= ml
liter (l) 1000 ml	× 1.06	= quart	× 0.946	= l
liter (l) dm ³	× 0.26	= gallon	× 3.79	= l
meter ³ (m ³) 1000 l	× 1.3	= yard ³	× 0.76	= m ³
MASS				
gram (g)	× 0.035	= ounce	× 28.3	= g
kilogram (kg) 1000 g	× 2.2	= pound	× 0.454	= kg
metric ton (t) 1000 kg	× 1.1	= ton (short)	× 0.907	= t
FORCE (N = kg · m/s ²)				
newton (N)	× 0.225	= pound	× 4.45	= N
kilonewton (kN)	× 225	= pound	× 0.00445	= kN
TORQUE				
newton meter (Nm)	× 8.9	= lb in.	× 0.113	= Nm
newton meter (Nm)	× 0.74	= lb ft.	× 1.36	= Nm
PRESSURE (Pa = N/m ²)				
kilopascal (kPa)	× 4.0	= in H ₂ O	× 0.249	= kPa
kilopascal (kPa)	× 0.30	= in. Hg	× 3.38	= kPa
kilopascal (kPa)	× 0.145	= psi	× 6.89	= kPa
bar	× 14.5	= psi	× 0.069	= bar
newton/mm ²	× 145.04	= psi	× 0.0069	= bar
STRESS (Pa = N/m ²)				
megapascal (MPa)	× 145	= psi	× 0.00689	= MPa
POWER (W = J/s)				
kilowatt (kW)	× 1.36	= PS (cv)	× 0.736	= kW
kilowatt (kW)	× 1.34	= HP	× 0.746	= kW
kilowatt (kW)	× 0.948	= Btu/s	× 1.055	= kW
watt (W)	× 0.74	= ft.lb/s	× 1.36	= W
ENERGY (J = N·m)				
kilojoule (kJ)	× 0.948	= Btu	× 1.055	= kJ
joule (J)	× 0.239	= calorie	× 4.19	= J
VELOCITY AND ACCELERATION				
meter per sec ² (m/s ²)	× 3.28	= ft/s ²	× 0.305	= m/s ²
meter per sec (m/s)	× 3.28	= ft/s	× 0.305	= m/s
kilometer per hour (km/h)	× 0.62	= mph	× 1.61	= km/h
HORSE POWER/TORQUE				
BHP × 5252	= Torque (lb ft)	kW × 9550	= Torque (Nm)	
RPM		RPM		
Metric HP	× 0.9863		U.S. Horsepower	
U.S. HP	× 1.014		Metric HP	
TEMPERATURE				
°C = (°F - 32) / 1.8		°F = (°C × 1.8) + 32		
FLOW RATE				
liter/min (l/min)	× 0.264	= US gal/min	× 3.785	= l/min
MILES				
Nautical Mile	× 1.15078	= Statute Mile	× 0.86897	= Naut. Mile