

Transmissions for Pleasure Craft				Control Systems for Pleasure Craft				Fixed Pitched Propellers for Pleasure Craft				Propulsion Solutions for Pleasure Craft			
ZF 10 M	ZF 63 IV	ZF 286 A		MiniCommand	SmartCommand	5200 Series	MC 2000-2	ZF FP NR	ZF FP NF	ZF FP KA			Bow Thruster	Sail Drive	
ZF 500-1 IV Hybrid	ZF 2060	ZF 550 ATS						J5000 - JMS	SteerCommand	Shaftline System	ZF FP SPP		ZF POD 2500/2800	ZF POD 4000	SeaRex

Product Overview

Transmissions for Fast Craft				Transmissions for Commercial Craft				Controllable Pitch Propeller, Fix Pitch Propeller and Controls for Commercial Craft				Thrusters for Commercial Craft			
ZF 3060 V	ZF 4650	ZF 7650	ZF 9000 NR2HL	ZF W325	ZF W350			ZF CP KS	Propulsion Package	Well Mounted Azimuth	Tunnel Thruster				
ZF 30350 SG	ZF 60000 NR2H			ZF W11200	ZF W43100 NR with PTO	ZF W103100		ZF FP DUCT	Control Panel	Deck Mounted Azimuth	Retractable Thrusters	Shallow Draught Thrusters			



ZF Marine - The Success Story

ZF was founded by Graf Zeppelin in 1915. To fulfil his dream to develop high technology airships, he needed lightweight, precision transmissions to match the high performance Daimler Benz engines. The company grew rapidly and soon diversified to supply the automotive industry.

The transmissions developed for the airships were ideally suited for installation in fast boats and in 1938 the first marinized version, the KS 25, was delivered to Daimler Benz. This very compact gearbox was close-coupled to the MB501 engine, transmitting 2500 hp at 1600 rpm.

Throughout the '50's and '60's many marine transmissions were developed including small mechanical shift gearboxes and larger models fitted with electromagnetic couplings. Finally, the latter were phased out in favor of hydraulically controlled transmissions.

During the '70's, the pleasure craft business increased and ZF introduced more transmissions to meet the

growing demands of the engine suppliers, then in 1986, the Italian company MPM (Meccanica Padana Monteverde) was acquired. (now ZF Padova s.r.l.). The ZF Padova transmissions complemented the Friedrichshafen products, extending the lower end of the product range and soon ZF Padova SpA became the headquarters of ZF's marine products division.

In 1995, ZF acquired the Hurth group of companies and the ZF Marine group was expanded with the establishment of ZF Marine Arco, Italy, a company producing small mechanically operated transmissions and hydraulic transmissions for small pleasure craft.

In 1999, ZF Marine started to market a comprehensive range of surface-drives and trim-tabs.

In 2000, controllable and fixed pitch propellers were added to the product portfolio with the acquisition of ZF-FPS (Faster Propulsion System Co. Ltd.), Kaohsiung, Taiwan. Electronic controls systems were also added with the acquisition of ZF Marine Electronics LLC at Mukilteo WA, USA and also the

world-wide Sales & Service network was expanded by founding new Sales & Service offices such as the ZF Marine Representatives Office in Shanghai, ZF Marine Middle East in Sharjah, UAE and several satellite offices in North America.

The year 2002 saw a consolidation of the ZF Marine Group, and restructuring of the organization to address specific market segments.

ZF Marine introduced the SeaRex range of trimmable surface drives augmented by the smaller MiniRex drive.

In 2005 SmartCommand, a state-of-the-art electronic controls system, was successfully introduced to the Pleasure Craft market.

Since 2002, there has been ongoing development of large transmissions suitable for commercial vessels powered by medium-speed Diesels, as well as corresponding controllable pitch propellers and associated controls.

In September 2009 ZF Marine has acquired HRP Nederland b.v. and all its subsidiaries, including production locations in the Netherlands and Indonesia as well as sales and service locations worldwide. Locations are ZF Marine Krimpen, PT ZF Marine Batam and ZF Marine Singapore. ZF Marine offers since then a wide range of steerable thrusters, which include well mounted thrusters, retractable thrusters, tunnel thrusters and controls, available in fixed pitch, CP and CRP versions.

In the year 2010 at the location of ZF Marine Zhuhai, acquired in 1998 by the ZF Marine Group, a major investment has been implemented, with completely renewed and additional facilities at the company grounds. This includes a foundry, a gear manufacturing and assembly facility to assemble complete propulsion systems with controllable pitch propellers and an area for testing these systems, including controllable pitch propellers, propeller shafts, transmissions and auxiliary equipment.

Worldwide Organisation

Sales & Service

Argentina
TRANSMISIONES MARINAS S.A.
Ing. Daniel Canoura
Hernandarias 3656
B7603GNH Mar Del Plata
ARGENTINA
Tel. +54 223 410 7975
Fax +54 223 480 7174
tm@tmgroup.com.ar

Australia
ZF Services Australia Pty Ltd
14 Lidco Street
Ardmill Park NSW 2148
AUSTRALIA
Tel. +61 2 9679 5555
Fax +61 2 9679 5500
info.zf-services.au@zf.com

Brazil
ZF DO BRASIL Ltda*
Av. Conde Zeppelin, 1935 Eden
18103-000 Sorocaba-SP
BRAZIL
Tel. +55 4009 2158
Fax +55 11 2845 2314
marine.info@zf.com

ZF MARINE RIO Ltda
Av. Rio Branco, 26 - sala 201
20090-001
Rio de Janeiro
BRAZIL
Tel. +55 21 22332602
Fax. +55 21 22332315
maria.lucca@zf.com

Belgium
See Netherlands

Benelux
See Netherlands

Chile
EQUIPAMIENTO MARINO Ltda.
Rafael Correa 1268, Santiago
Santiago de Chile
CHILE
Tel./Fax +56 2 415 8737
Mob. +56 9 997 5059
Chrogers@equipamientomarino.cl
info@equipamientomarino.cl
www.equipamientomarino.cl

China
ZF PADOVA SHANGHAI REPRESENTATIVE OFFICE
Room 1803-07,
Jiangnan Building,
No.600,Luban Road
Shanghai 200023
P.R.CHINA
Tel. +86-21-6301 4338
Fax +86-21-6301 6449
zhouqing.tang@zf.com

China
ZF PADOVA SHANGHAI REPRESENTATIVE OFFICE
Room 1803-07,
Jiangnan Building,
No.600,Luban Road
Shanghai 200023
P.R.CHINA
Tel. +86-21-6301 4338
Fax +86-21-6301 6449
zhouqing.tang@zf.com

China
ZF PADOVA SHANGHAI REPRESENTATIVE OFFICE
Room 1803-07,
Jiangnan Building,
No.600,Luban Road
Shanghai 200023
P.R.CHINA
Tel. +86-21-6301 4338
Fax +86-21-6301 6449
zhouqing.tang@zf.com

Estonia
BALTIC MARINE GROUP AS
Palljassare tee 14
10313 Tallinn
ESTONIA
Tel. +372 68 333 00
Fax +372 68 333 01
bm@bm.ee

Finland
ATOY OY
Ruukintie 7-9
02330 Espoo
FINLAND
Tel. +358 9 682 71
Fax +358 9 682 73 05
zf@atoy.fi

France
ZF FRANCE SAS
3-11, rue Henri-Poincaré
92160 Antony
FRANCE
Tel. +33 1 40 96 42 70
Fax +33 1 40 96 42 85
marieelle.dehes@zf.com

Germany
ZF MARINE GmbH*
Ehlersstr. 50
D - 88046 Friedrichshafen
GERMANY
Tel. +49 (0)7541 77 2207
Fax +49 (0)7541 77 4222
info.zfmarine@zf.com

Germany
ZF MARINE GmbH
Representative Office
Zamdorferstrasse 90
81677 München
GERMANY
Tel. +49 89 930 094 63/64
Fax +49 89 930 094 21
guenther.koepfel@zf.com

Germany
ZF MARINE GmbH
Representative Office
Zamdorferstrasse 90
81677 München
GERMANY
Tel. +49 89 930 094 63/64
Fax +49 89 930 094 21
guenther.koepfel@zf.com

Germany
ZF MARINE GmbH
Representative Office
Zamdorferstrasse 90
81677 München
GERMANY
Tel. +49 89 930 094 63/64
Fax +49 89 930 094 21
guenther.koepfel@zf.com

Greece
TEKMAR Ltd.
15 Ethn. Makariou Str.
18 547 Neofaliro, Piraeus
GREECE
Tel. +30 210 4820 814
Fax +30 210 4811 803
tekmar@hol.gr

Greece
TEKMAR Ltd.
15 Ethn. Makariou Str.
18 547 Neofaliro, Piraeus
GREECE
Tel. +30 210 4820 814
Fax +30 210 4811 803
tekmar@hol.gr

India
ZF MARINE MIDDLE EAST, Resident Representative India
Mr. K. N. S. Sodhi
J-52, Sector - 25
Noida - 201301
INDIA
Tel./Fax + 91 120 420 4480
Mob. + 91 98119 95772
kamal.sodhi@zf.com

India
ZF MARINE MIDDLE EAST, Resident Representative India
Mr. K. N. S. Sodhi
J-52, Sector - 25
Noida - 201301
INDIA
Tel./Fax + 91 120 420 4480
Mob. + 91 98119 95772
kamal.sodhi@zf.com

Indonesia
PT. TESCO INDOMARITIM
Jl. Tulodong Bawah X No. 17,
Jakarta Selatan 12190
INDONESIA
Tel. +62 21 52603 63/64/65/67
Fax +62 21 52603 69/57360 37
tesco@cbn.net.id

Indonesia
PT. TESCO INDOMARITIM
Jl. Tulodong Bawah X No. 17,
Jakarta Selatan 12190
INDONESIA
Tel. +62 21 52603 63/64/65/67
Fax +62 21 52603 69/57360 37
tesco@cbn.net.id

Indonesia
PT. TESCO INDOMARITIM
Jl. Tulodong Bawah X No. 17,
Jakarta Selatan 12190
INDONESIA
Tel. +62 21 52603 63/64/65/67
Fax +62 21 52603 69/57360 37
tesco@cbn.net.id

Italy
ZF PADOVA s.r.l.*
(ZF Marine Headquarters)
Via Penghe, 48
35030 Caselle di Selvazzano (PD)
ITALY
Tel. +39 049 8299 311
Fax +39 049 8299 550
info.zfpadova@zf.com

Italy
ZF PADOVA s.r.l.*
(ZF Marine Headquarters)
Via Penghe, 48
35030 Caselle di Selvazzano (PD)
ITALY
Tel. +39 049 8299 311
Fax +39 049 8299 550
info.zfpadova@zf.com

Italy
ZF PADOVA s.r.l.*
(ZF Marine Headquarters)
Via Penghe, 48
35030 Caselle di Selvazzano (PD)
ITALY
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ZF PADOVA s.r.l.*
(ZF Marine Headquarters)
Via Penghe, 48
35030 Caselle di Selvazzano (PD)
ITALY
Tel. +39 049 8299 311
Fax +39 049 8299 550
info.zfpadova@zf.com

Japan
ZF JAPAN Co. Ltd.
Palazzo Astec 7, 8F - 2-8-1,
Higashi Shimbashi, Minato-ku
Tokyo 105-0021
JAPAN
Tel. +81 3 4590 7700
Fax +81 3 4590 7770
mikio.sato@zf.com

Japan
ZF JAPAN Co. Ltd.
Palazzo Astec 7, 8F - 2-8-1,
Higashi Shimbashi, Minato-ku
Tokyo 105-0021
JAPAN
Tel. +81 3 4590 7700
Fax +81 3 4590 7770
mikio.sato@zf.com

Japan
ZF JAPAN Co. Ltd.
Palazzo Astec 7, 8F - 2-8-1,
Higashi Shimbashi, Minato-ku
Tokyo 105-0021
JAPAN
Tel. +81 3 4590 7700
Fax +81 3 4590 7770
mikio.sato@zf.com

Japan
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Tokyo 105-0021
JAPAN
Tel. +81 3 4590 7700
Fax +81 3 4590 7770
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JAPAN
Tel. +81 3 4590 7700
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Japan
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Japan
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Japan
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Higashi Shimbashi, Minato-ku
Tokyo 105-0021
JAPAN
Tel. +81 3 4590 7700
Fax +81 3 4590 7770
mikio.sato@zf.com

Korea (South)
ZF SERVICES KOREA Co. Ltd.
422-2 Chungchon-dong
Buyong-Gu
Incheon 403-032
Rep. of KOREA
Tel. +82 32 505 1508
Fax +82 32 505 1512
bangsoo.chun@zf.com

Korea (South)
ZF SERVICES KOREA Co. Ltd.
422-2 Chungchon-dong
Buyong-Gu
Incheon 403-032
Rep. of KOREA
Tel. +82 32 505 1508
Fax +82 32 505 1512
bangsoo.chun@zf.com

Korea (South)
ZF SERVICES KOREA Co. Ltd.
422-2 Chungchon-dong
Buyong-Gu
Incheon 403-032
Rep. of KOREA
Tel. +82 32 505 1508
Fax +82 32 505 1512
bangsoo.chun@zf.com

Korea (South)
ZF SERVICES KOREA Co. Ltd.
422-2 Chungchon-dong
Buyong-Gu
Incheon 403-032
Rep. of KOREA
Tel. +82 32 505 1508
Fax +82 32 505 1512
bangsoo.chun@zf.com

Korea (South)
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422-2 Chungchon-dong
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Incheon 403-032
Rep. of KOREA
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422-2 Chungchon-dong
Buyong-Gu
Incheon 403-032
Rep. of KOREA
Tel. +82 32 505 1508
Fax +82 32 505 1512
bangsoo.chun@zf.com

Malaysia
ZF SALES & SERVICE (MALAYSIA) SDN. BHD.
No. 12, Jalan Teknologi 3/1
Seksyen 3 Kota Damansara
47810 Petaling Jaya
Selangor Darul Ehsan
MALAYSIA
Tel. +60 3 6157 8856
Fax +60 3 6157 9648
malaysia@zf-seasia.com

Malaysia
ZF SALES & SERVICE (MALAYSIA) SDN. BHD.
No. 12, Jalan Teknologi 3/1
Seksyen 3 Kota Damansara
47810 Petaling Jaya
Selangor Darul Ehsan
MALAYSIA
Tel. +60 3 6157 8856
Fax +60 3 6157 9648
malaysia@zf-seasia.com

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Fax +60 3 6157 9648
malaysia@zf-seasia.com

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No. 12, Jalan Teknologi 3/1
Seksyen 3 Kota Damansara
47810 Petaling Jaya
Selangor Darul Ehsan
MALAYSIA
Tel. +60 3 6157 8856
Fax +60 3 6157 9648
malaysia@zf-seasia.com

Malaysia
ZF SALES & SERVICE (MALAYSIA) SDN. BHD.
No. 12, Jalan Teknologi 3/1
Seksyen 3 Kota Damansara
47810 Petaling Jaya
Selangor Darul Ehsan
MALAYSIA
Tel. +60 3 6157 8856
Fax +60 3 6157 9648
malaysia@zf-seasia.com

Malaysia
ZF SALES & SERVICE (MALAYSIA) SDN. BHD.
No. 12, Jalan Teknologi 3/1
Seksyen 3 Kota Damansara
47810 Petaling Jaya
Selangor Darul Ehsan
MALAYSIA
Tel. +60 3 6157 8856
Fax +60 3 6157 9648
malaysia@zf-seasia.com

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
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Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +47 22 72 09 02
christian.kleven@kgk.no

Norway
KGK NORGE AS
Caspar Storms vei 19
0664 Oslo
NORWAY
Tel. +47 22 88 46 80
Fax +4