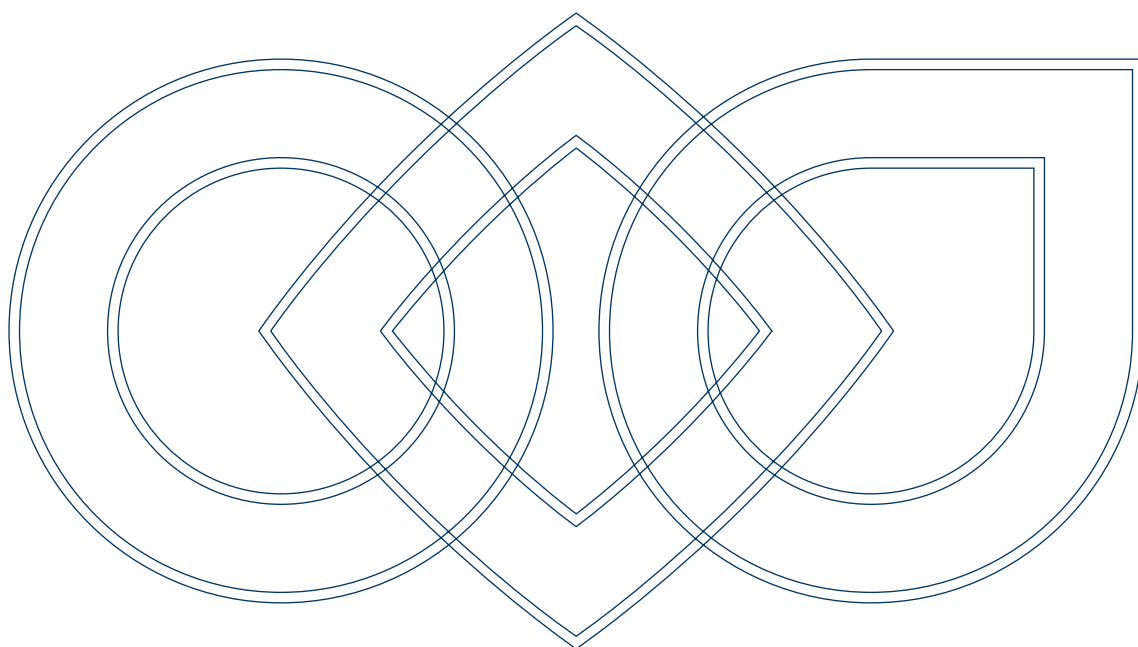


Solutions for  
**Marine and Offshore**



SECTOR



## A complete range of drives for **Marine and Offshore applications**

**Bonfiglioli offers a wide and diverse range of products for lifting, pulling and slewing machinery in marine and offshore applications like shipboard cranes, offshore cranes, deck machinery, azimuth thrusters and pipe layers.**

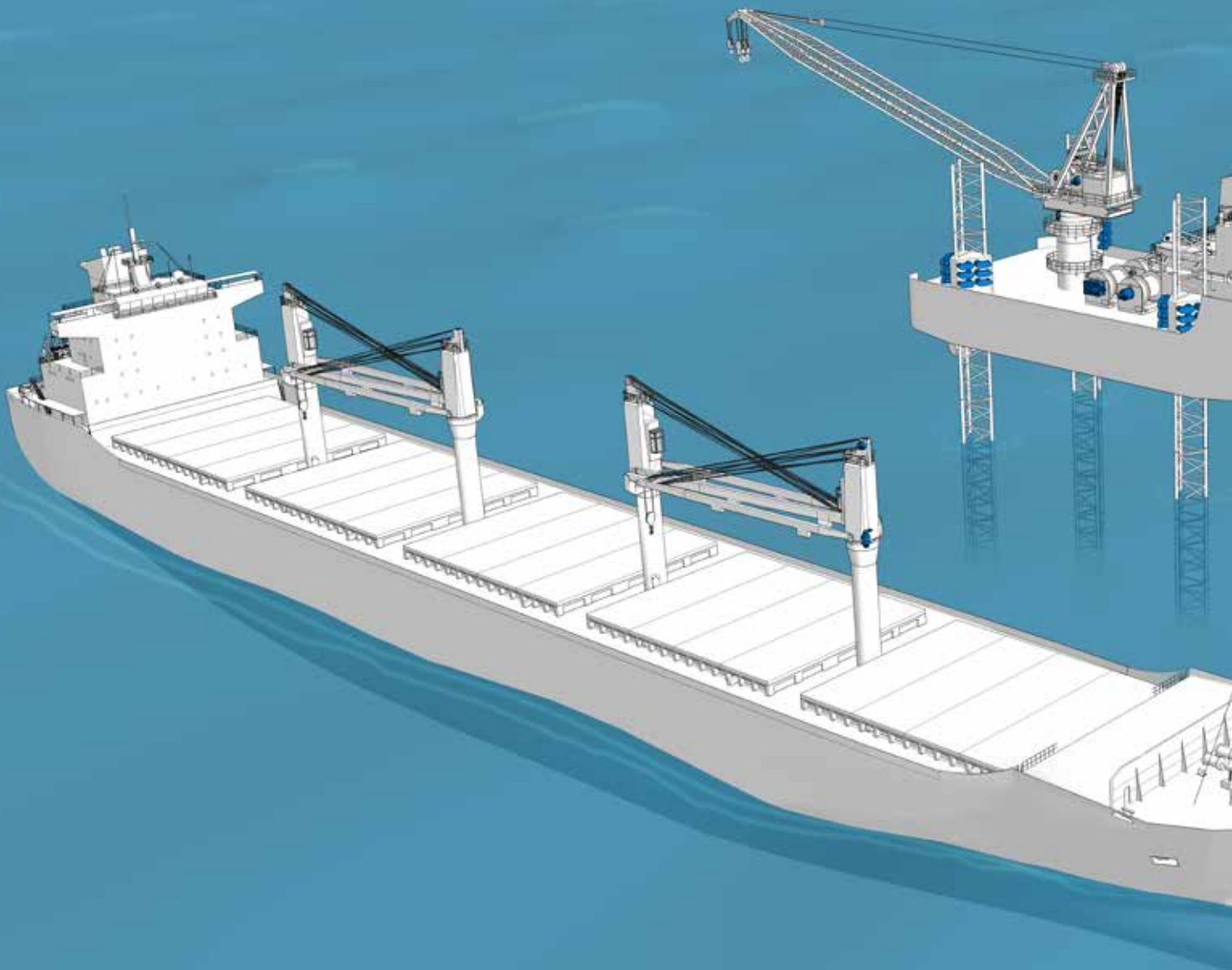
The design of several groups of products and jacking gears have been approved with the major Classification Societies like ABS, DNV GL, LR, CCS, RS, etc. These products can be delivered with 3.2 certification and full traceability of the load carrying components.

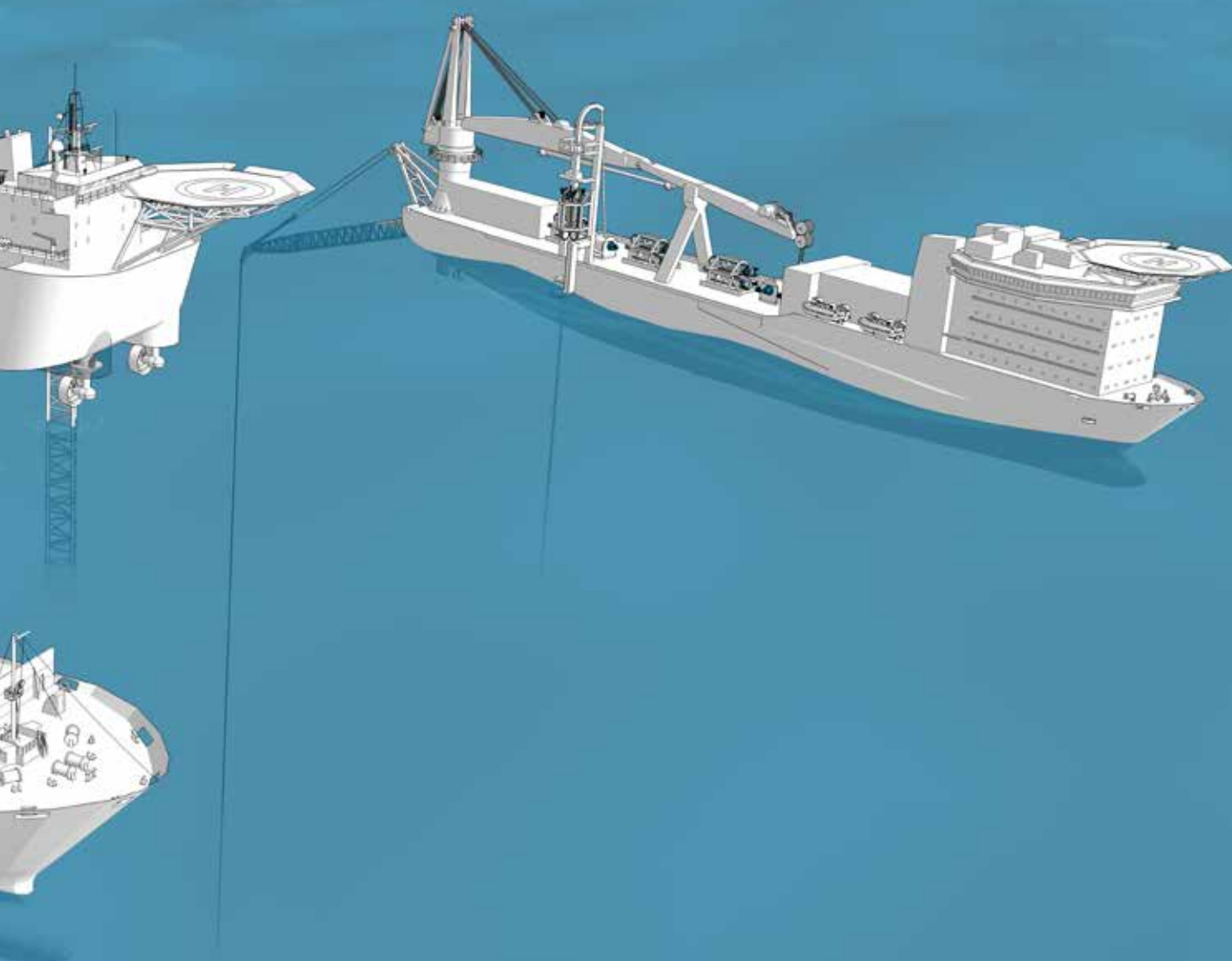
**Bonfiglioli has also developed a specific range of gearboxes for jacking machinery with rack and pinion design, intended for jack-up drilling rigs, service liftboats, accommodation and windmill installation vessels.**

Bonfiglioli and O&K range of products put together are giving us the opportunity to offer our customers the largest range of final drives in the world.



## A complete range of drives for **Marine and Offshore applications**







## Solutions for **Shipboard Cranes**

**Bonfiglioli offers dedicated solutions including winch gears and slewing gears for marine cranes such as cargo cranes, utility cranes and, horse cranes.**

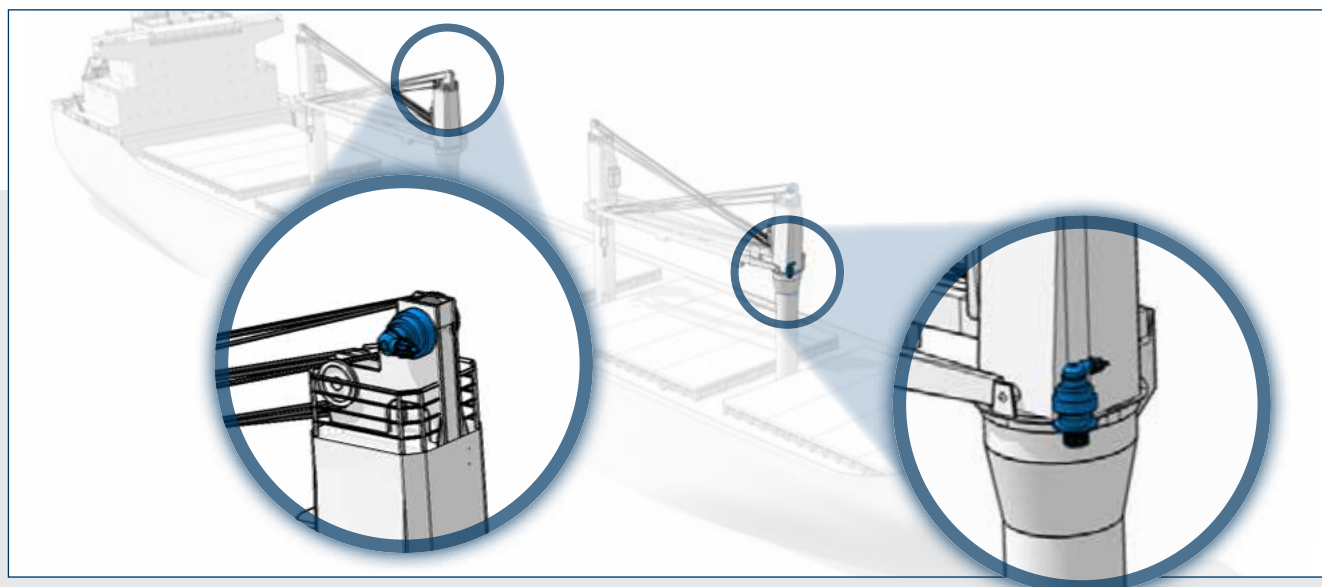
Bonfiglioli gear series 700C and FW dedicated to winch applications is offering a wide possibility of variations and options.

Thanks to a compact plug-in design, the units are integrated directly into the winch drum. The brake can be integrated inside the gearbox or mounted externally, with common lubrication of the gears.

Bonfiglioli slewing gears are developed with integrated and separated pinions. Many variations of pinions and interfaces are available.

The modular design of these two product series allows almost unlimited product configurations, one to four gear stages, and hydraulic and electric driven variations, as well as in-line or right angle configurations.





## Winch drives



### 700C series

FEM classification M5-L2-T5  
at OUTPUT SPEED 25 rpm:

Type	Torque (Nm)
703 C2	2000
705 C2	5300
706 C3	10000
707 C3	16000
709 C3	23000
710 C3	29500
711 C3	31000
713 C3	48500
715 C3	64500
716 C3	77500
717 C3	105900
718 C3	111500
720 C3	164500
722 C3	260000

### FW series

FEM classification M5-L2-T5  
at OUTPUT SPEED 25 rpm:

Type	Torque (Nm)
FW10	5400
FW13	7250
FW30	17600
FW40	20000
FW40A	20000
FW55	25400
FW55A	25400
FW55B	25400
FW80	42800
FW100	70000
FW130	100000
FW180	112500
FW220	140000
FW260	175000
FW360	210000

Bigger sizes on request

## Slew drives



### 700T series

FEM classification M5-L2-T5  
at OUTPUT SPEED 25 rpm:

Type	Torque (Nm)
705 T	4000
706 T	6600
707 T	10000
709 T	15000
710 T	20000
711 T	25000

Bigger sizes on request

### S series

FEM classification M5-L2-T5  
at OUTPUT SPEED 25 rpm:

Type	Torque (Nm)
S5	6600
S7	10700
S10	14000
S13	21000
S17	27000
S30	48000

## Solutions for **Deck Machinery**

Several applications like mooring & tugger winches, anchor handling systems, traction & storage winches, capstans and windlasses offer a bench test for the 700C and FW series in medium-light power cases, and HDP/HDO series in medium-high power cases.

The 300 series and 700T series are used for pinion ring transmission systems. The winch drum is generally supported on the opposite side of the gearbox, but strong bearings in the 700C and FW series enables it to have a console set-up as well.

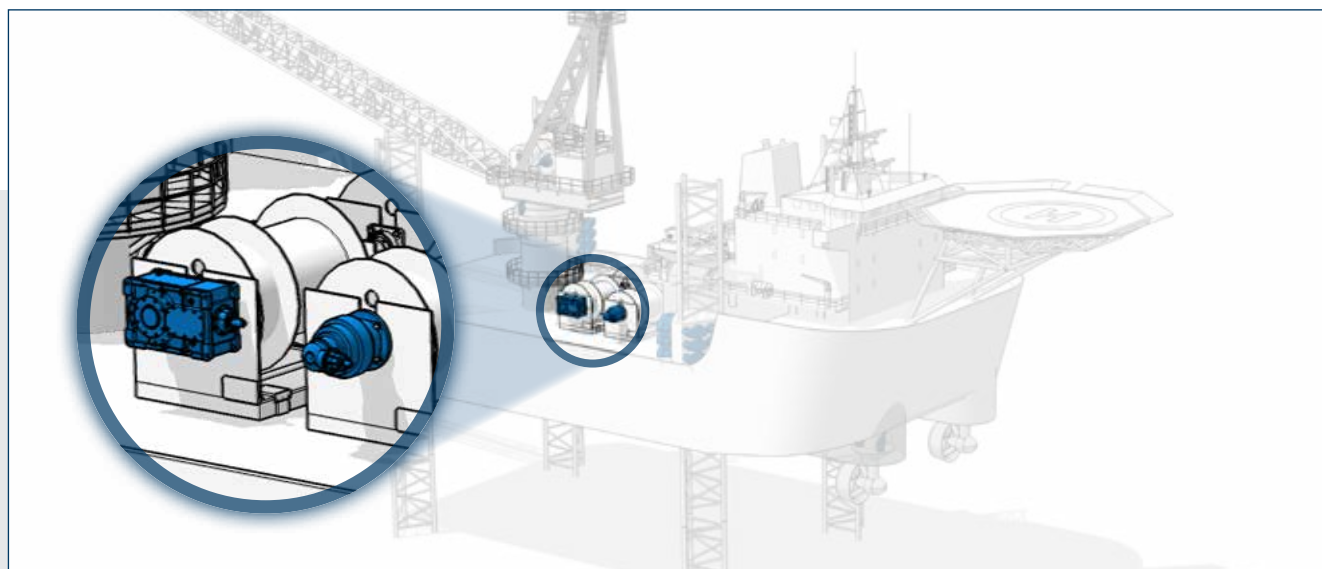
Hydraulic and electric driven variations, as well as in-line or right angled configurations, are available throughout the Bonfiglioli range.



**700C series** with hydraulic motor, with electric motor and with right angle







## Planetary drives

## Parallel shaft gear units and bevel helical

## Winch drives



### 300 series

Type	Nominal Torque (Nm)
300	1000
301	1750
303	2500
304	3600
305	5000
306	8500
307	12500
309	18000
310	25000
311	40000
313	55000
314	80000
315	100000
316	135000
317	170000
318	250000
319	350000
321	500000
323	800000
325	1100000

### HDP/HDO series

Type	Nominal Torque (Nm)
HD_60	5190
HD_70	7080
HD_80	12600
HD_90	17900
HD_100	28200
HD_110	31700
HD_120	41000
HD_125	49000
HD_130	69500
HD_140	87000
HD_150	117000
HD_160	147000
HD_170	190000
HD_180	210000

### 700C series

FEM classification M5-L2-T5  
at OUTPUT SPEED 25 rpm:

Type	Torque (Nm)
703 C2	2000
705 C2	5300
706 C3	10000
707 C3	16000
709 C3	23000
710 C3	29500
711 C3	31000
713 C3	48500
715 C3	64500
716 C3	77500
717 C3	105900
718 C3	111500
720 C3	164500
722 C3	260000

### FW series

FEM classification M5-L2-T5  
at OUTPUT SPEED 25 rpm:

Type	Torque (Nm)
FW10	5400
FW13	7250
FW30	17600
FW40	20000
FW40A	20000
FW55	25400
FW55A	25400
FW55B	25400
FW80	42800
FW100	70000
FW130	100000
FW180	112500
FW220	140000
FW260	175000
FW360	210000

Bigger sizes on request

## Solutions for Offshore Cranes & Winches

Oil & gas applications like cranes and winches for supply vessels (PSV, OSV), FPSO, drilling rigs, anchor handling systems, riser pull-in systems, turret winches, ROV winches with AHC function and A&R systems have bigger demands for power. In order to meet these specific needs of power, Bonfiglioli has created a wide range of solutions.

Products for winches are often designed with multiple pinions to drive a toothed ring fixed to the drum. With the same versatility of the shipboard cranes, the 700T and S series perfectly match the requirements.

Where power is excessive for planetary gear systems, Bonfiglioli offers heavy duty series HDP/HDO or a combination between input bevel helical units and final planetary gear stages.

Bonfiglioli has created special units for AHC winches using secondary control motors, with a flywheel integrated in the gear train. The static brake is in the same oil bath with the gears to allow better heat dissipation due to continuous duty during heavy compensating work mode. Visual oil monitoring systems are available.

Backstop wheel is an available option for preventing sudden load descend after startup.

Slewing gears are offered from the 700T, S and 300 series, for the shipboard cranes.

ATEX compliance is available for 700T, S, 300, 700C and FW series products.

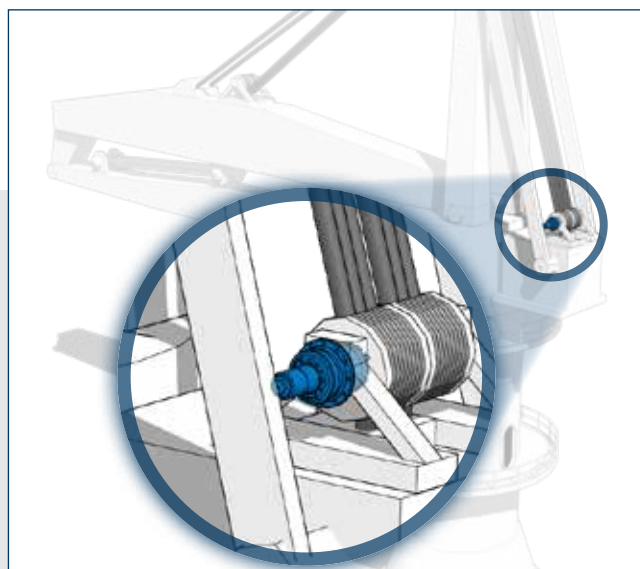
C5M coating systems are available in conformity with Norsok M501 prescriptions.

A selection of suitable products is in compliance with Class requirements and FEM classification rules.

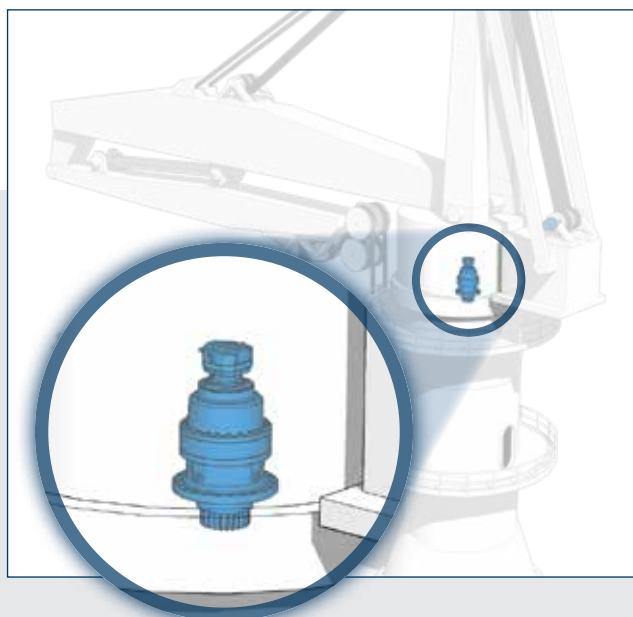


**3/HD series** with hydraulic motor,  
with electric motor





Compact winch drives



Slew drives



## 700C series

FEM classification M5-L2-T5  
at OUTPUT SPEED 25 rpm:

Type	Torque (Nm)
703 C2	2000
705 C2	5300
706 C3	10000
707 C3	16000
709 C3	23000
710 C3	29500
711 C3	31000
713 C3	48500
715 C3	64500
716 C3	77500
717 C3	105900
718 C3	111500
720 C3	164500
722 C3	260000

## FW series

FEM classification M5-L2-T5  
at OUTPUT SPEED 25 rpm:

Type	Torque (Nm)
FW10	5400
FW13	7250
FW30	17600
FW40	20000
FW40A	20000
FW55	25400
FW55A	25400
FW55B	25400
FW80	42800
FW100	70000
FW130	100000
FW180	112500
FW220	140000
FW260	175000
FW360	210000

Bigger sizes on request

## 700T series

FEM classification M5-L2-T5  
at OUTPUT SPEED 25 rpm:

Type	Torque (Nm)
705 T	4000
706 T	6600
707 T	10000
709 T	15000
710 T	20000
711 T	25000

Bigger sizes on request

## S series

FEM classification M5-L2-T5  
at OUTPUT SPEED 25 rpm:

Type	Torque (Nm)
S5	6600
S7	10700
S10	14000
S13	21000
S17	27000
S30	48000

## Solutions for **Azimuth Thrusters**

**Bonfiglioli gears are used for steering the azimuth thrusters on tug boats, drilling rigs and cruise vessels.**

Gear and bearings life is calculated based on Class requirements for both dynamic positioning mode as well as cruise mode operation.

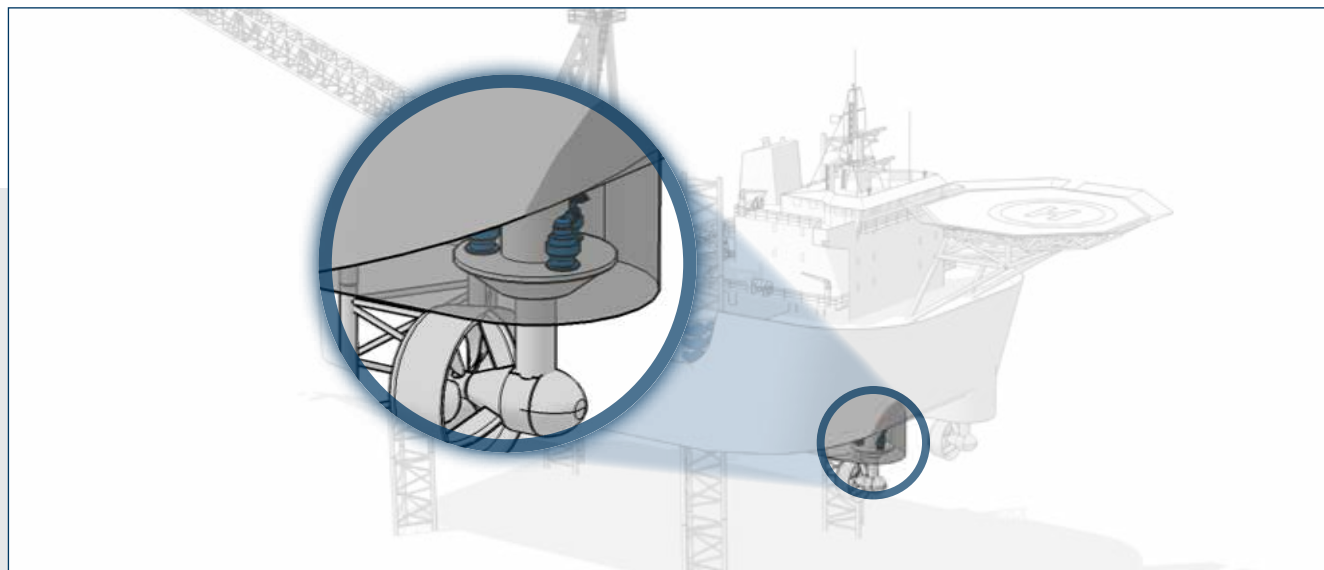
Solutions are available with integrated pinion 700T Series and 3.2 Class certified pinion and 300 series with female spline connection to the steering block.

Units are delivered under approval and certification of all major Classes.

Electric and hydraulic versions are available, with pinion eccentricity for gear play adjustment, or with eccentric ring on the gearbox body for maintaining the motor alignment in right angled configurations.

*Image courtesy of ABB Marine.*





Planetary steering gear



### 300 series

Type	Torque (Nm)
306	8500
307	12500
309	18000
310	25000
311	40000
313	55000
314	80000
315	100000
316	135000
317	170000

Steering gear with pinion



### 700T series

Type	Torque (Nm)
706 T	10000
707 T	15000
709 T	20000
710 T	30000
711 T	35000
712 T	45000
713 T	55000
714 T	65000
715 T	80000



## Solutions for **Jacking Machinery**

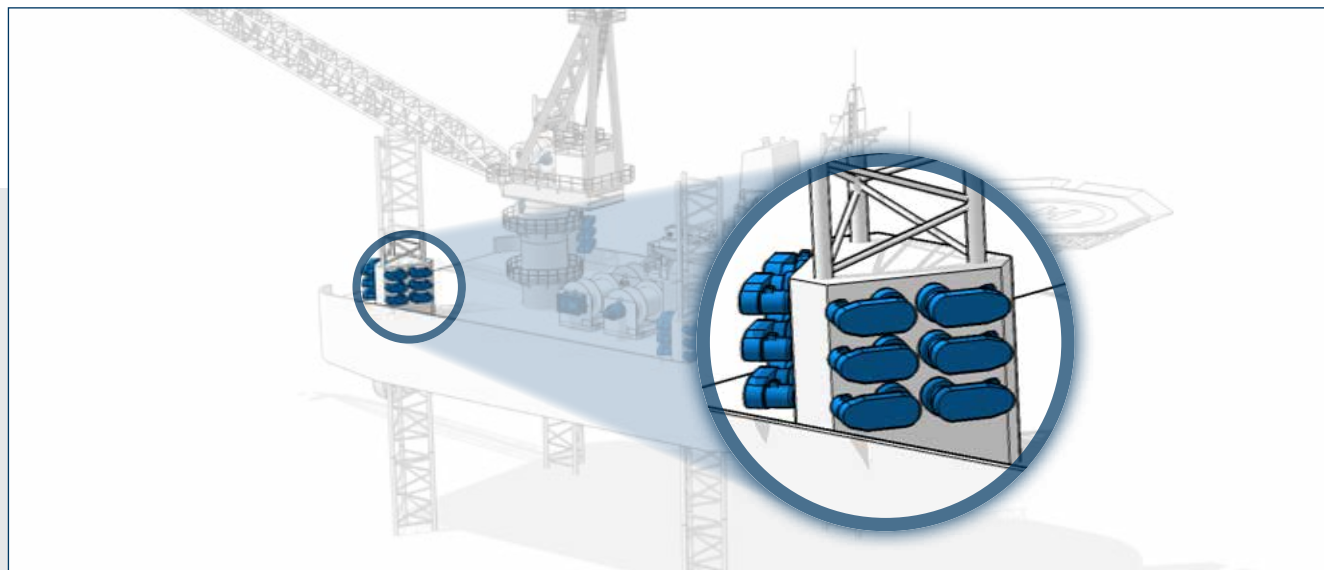
**For many years, Bonfiglioli has been developing and supplying gearboxes of jacking machinery for offshore platforms.**

Specific design of the 700T, JD2400 and 300 series have been assessed by ABS to work in lifting and lowering legs and hulls of drilling and service jack up rigs, lift boats and windmill installation vessels.

Units can be in-line design or with a drop box for offsetting the motor installation. They can be electric or hydraulic driven, with or without negative parking brake. Bonfiglioli can deliver integrated pinion from m50 to m100 and lantern piece with integrated torque arm for easy installation.

Units have class approval with ABS and DNV GL, and full 3.2 certification of the load carrying parts of the gear transmission with full traceability from raw material to final machined component.





## Jacking gears



### 700T series

Type	Kips	Max jacking (Nm)	Max holding (Nm)	Storm holding (Nm)
718 T5	200	163000	263000	350000
718 T5 FZ	250	225700	263000	394500
719 T5	300	305000	450000	649000
721 T5	400	650000	780000	1000000
723 T6	700	1150000	1430000	2050000
725 T6	800	1245000	1600000	2350000

### O&K Jack-up series

Type	Kips	Max jacking (Nm)	Max holding (Nm)	Storm holding (Nm)
JD2400	1200	1900000	2400000	2900000

## Solutions for **Pipelayers**

**For many years, Bonfiglioli is supplying dedicated solutions for pipelayers.**

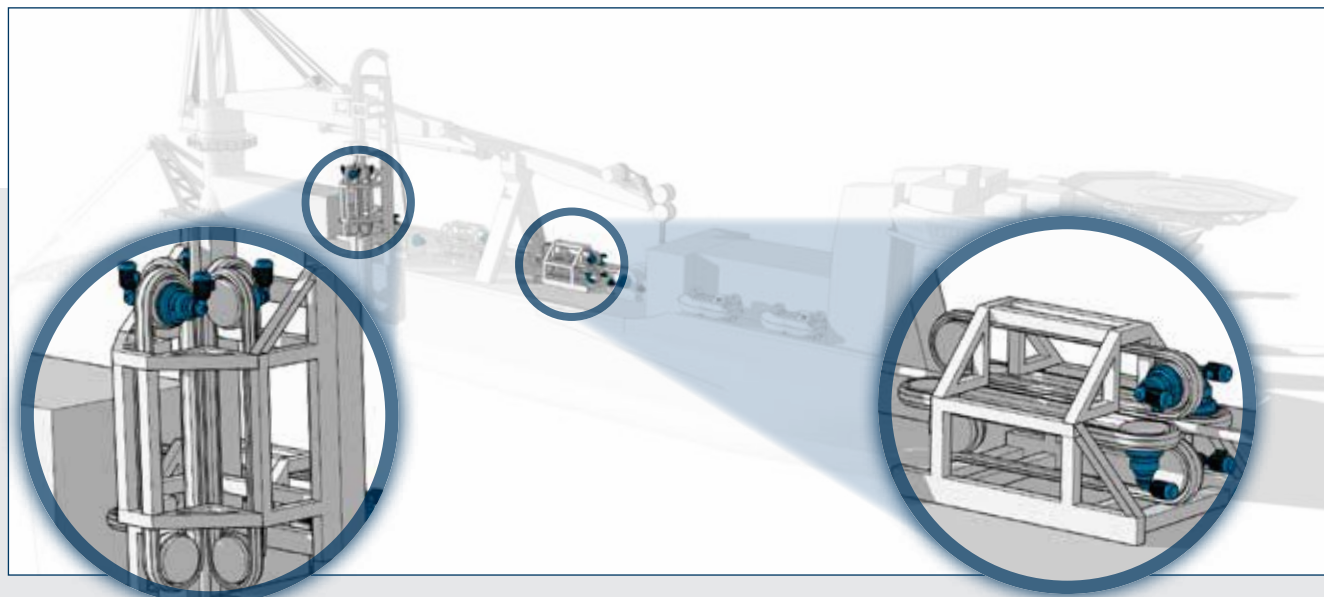
Bonfiglioli track gears of the 700C and F series represent a perfect solution for the most demanding pipe tensioners in terms of torque, life and power.

The cooling system is provided with forced lubrication of the gear train and bearings.

A torque range up to 600 kNm covers almost all known applications.

Modular gearboxes of the 300 series are capable of torque up to 2000 kNm.





Planetary drives

Track tensioner gear



### 300 series

Type	Torque (Nm)
315	100000
316	135000
317	170000
318	250000
319	350000
321	500000
323	800000
325	1100000



### 700C series

Type	Torque (Nm)
710 C3 B	36000
711 C3 B	45000
713 C3 B	60000
715 C3 B	85000
716 C3 B	100000
717 C3 H	130000
718 C3 H	180000
720 C3 H	220000
722 C3 H	330000
724 C4 H	450000
726 C4 H	625000



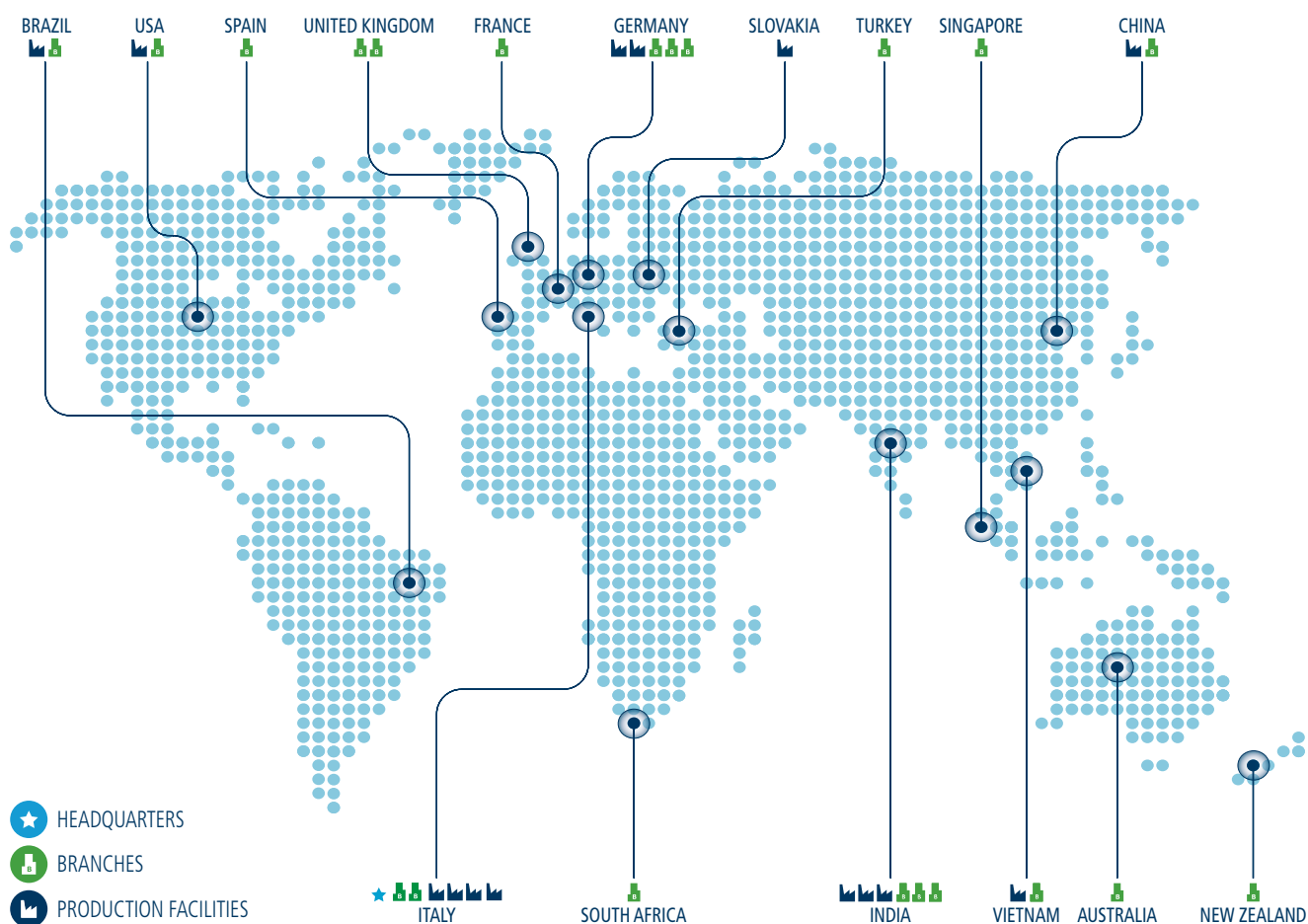
### F series

Type	Torque (Nm)
F40	40000
F40A	40000
F55	55000
F55A	55000
F55B	55000
F80	80000
F80XR	80000
F100	100000
F100XR	100000
F130	130000
F130XR	130000
F180	180000
F180XR	180000
F220	220000
F220XR	220000
F260	260000
F280	280000
F360	360000
F420	420000
F440	440000
F560	560000

## Bonfiglioli worldwide presence

Bonfiglioli is located in regions and countries around the world that enable us to provide faster sales and service to customers.

**We are around the world, and around the corner.**



### LOCAL SUPPORT

Sales, Customer Service,  
Warranty, Tech support,  
Spare parts



### 21 BRANCH OFFICES IN 15 COUNTRIES



### WORLDWIDE DISTRIBUTION NETWORK



# Bonfiglioli worldwide locations

## Australia

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## Brazil

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São Bernardo do Campo - São Paulo  
Tel. +55 11 4344 2322

## China

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### O&K Antriebstechnik

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We have a relentless commitment to excellence, innovation and sustainability. Our team creates, distributes and services world-class power transmission and drive solutions to keep the world in motion.



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