

КАТАЛОГ(ПРОПУЛЬСИВНАЯ УСТАНОВКА)



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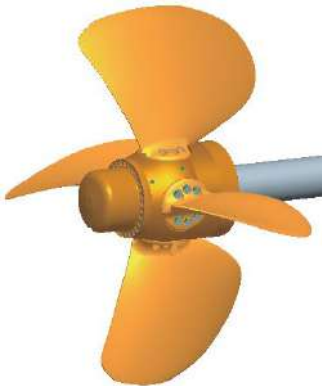
тел: +7 920 030 05 75; +7 920 010 00 68

E-mail: avponkin@yandex.ru

E-mail: tlk.sudokomlekt@yandex.ru

NCP系列可调螺旋桨
NCP Series Controllable Pitch Propeller

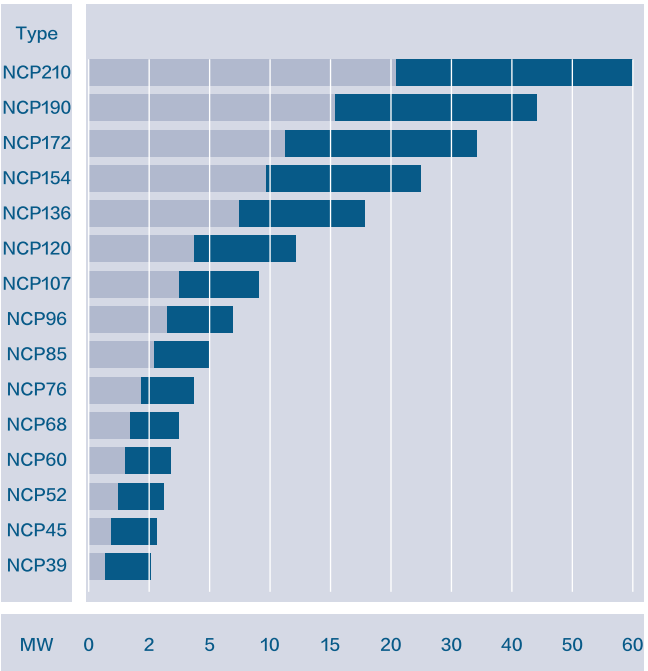
桨毂直径(Hub dia.): 390~2100mm
桨叶直径(Propeller dia.): 1100~9000mm
最大传递功率(Max transmission power): 60000kW
桨叶数目(Blade No): 4or5
配油器安装位置(OD Box Installation Location): 齿轮箱或轴系(Gearbox or shafting)



NGC Marine是国际大型可调桨推进系统供应商，近10年来已经生产了1000多套可调桨，其质量达到国际标准，并大量出口海外市场，赢得客户和合作伙伴的高度认可。目前公司已经建立了全球的销售和售后服务网络，且所选的配套件都具有全球联保服务。

NGC Marine is a large international supplier of controllable pitch propeller (CPP) propulsion systems. Over the past 10 years, the company has produced more than 1,000 sets of CPP. With quality meeting International Standard, the products from NGC have been exported to overseas markets in large quantities, winning high recognition from customers and partners. At present, NGC Marine has established a global sales and after-sales service network, and the accessories used come with global warranty service.

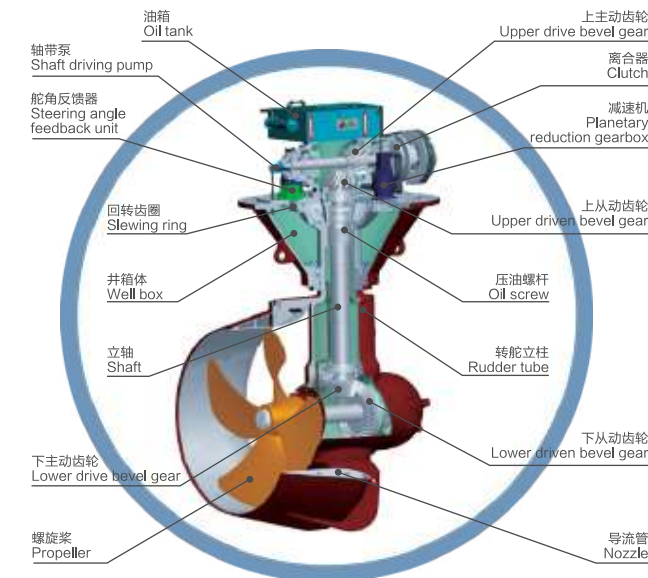
NCP系列可调桨参数表
NCP Series Controllable Pitch Propeller Diagram



可调桨车间装配调试
CPP assembly& commissioning at workshop

NRP系列全回转(FP/CP) NRP Series Azimuth Thruster (FP/CP)

输入功率(Input power): 100~12000kW
输入转速(Input speed): 600~2100rpm
桨叶直径(Propeller dia.): 600~6000mm



- ☆ 低转速、大直径的桨叶与高效导管配合，推进效率高、噪音低、振动小；
- ☆ 舵桨结构模块式设计，整体结构简捷高效，零件互换性高、易维护；
- ☆ NGC自行设计生产的螺旋伞齿轮，精度高，承载能力强，使用寿命长；
- ☆ 离合器：内置式液压（半滑差或全滑差）或气压离合器，外置含减速齿轮的液压离合器；
- ☆ 控制系统操作简单，反应灵敏，控制精确，航行可靠。
- ☆ 转舵方式：液压转舵或电机转舵；

- ☆ Low speed, large-diameter propeller paired with efficient nozzles result in high propulsion efficiency, low noise, and low vibration;
- ☆ Modular design of azimuth thruster structure, with a simple and efficient overall structure, high interchangeability of parts, and easy maintenance;
- ☆ NGC's self-designed and produced spiral bevel gears have high precision, strong load-bearing capacity, and long service life;
- ☆ Clutch: Built in hydraulic (semi slip or full slip) or pneumatic clutch, external hydraulic clutch with reduction gear;
- ☆ The control system is easy to operate, quick in respond, precise in control, and reliable in navigation.
- ☆ Steering method: hydraulic steering or motor steering;



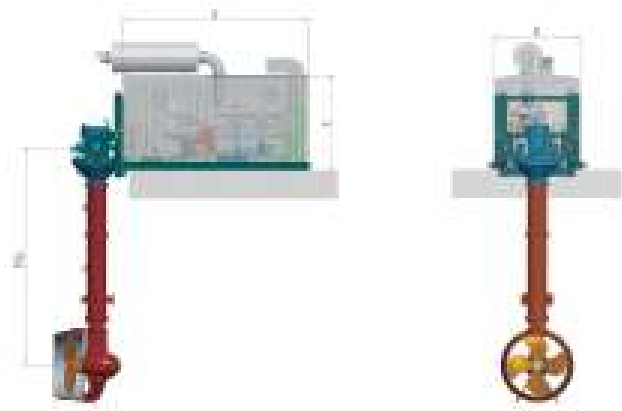
NRP系列舵桨参数表 NRP Series Azimuth Thruster Diagram

型 号 Model	额定输入功率 Rated input power		输入转速 Input speed	螺旋桨直径 Propeller dia.	PAL	A	B	C	E
	KW	PS	rpm	Φ D/mm	mm	mm	mm	mm	mm
NRP15	100	150	1000-2100	600-700	1500	750	250	1200	320
NRP20	150	200	1000-2100	700-900	1600	900	350	1500	400
NRP30	220	300	1000-2100	900-1100	1800	1000	420	1800	450
NRP50	360	500	1000-2100	1100-1200	2000	1300	500	2000	500
NRP60	441	600	1000-1800	1100-1350	2000	1450	575	2300	600
NRP80	588	800	1000-1800	1350-1500	2250	1690	575	2560	700
NRP100	736	1000	1000-1800	1400-1600	2300	1882	680	2900	610
NRP140	1030	1400	750-1500	1600-1800	2700	2290	745	2900	1130
NRP160	1200	1600	750-1500	1700-2000	2800	2300	820	3000	1250
NRP180	1324	1800	750-1500	1800-2100	2800	2480	820	3300	1250
NRP200	1471	2000	750-1500	2100-2300	2900	2550	985	3400	1300
NRP220	1618	2200	750-1500	2100-2300	2900	2600	990	3500	1300
NRP250	2000	2600	750-1500	2400-2600	3000	2864	1065	4000	1300
NRP280	2100	2800	750-1500	2400-2600	3600	3060	1150	4200	1300
NRP300	2207	3000	750-1500	2600-2800	3700	3294	1150	4500	1400
NRP320	2400	3200	600-1200	2600-2800	3700	3294	1150	4500	1400
NRP350	2600	3500	600-1200	2600-2800	3700	3294	1150	4500	1400
NRP370	2800	3700	600-1200	2750-3000	3800	3294	1150	4500	1400
NRP400	3000	4000	600-1200	3000-3300	4000	3555	1455	4500	1400
NRP450	3350	4500	600-1200	3100-3400	4100	3700	1550	4700	1517
NRP480	3550	4800	600-1200	3200-3500	4100	3780	1550	4800	1517
NRP500	3680	5000	600-1200	3200-3500	4300	3780	1550	4900	1517
NRP550	4100	5500	600-1200	3300-3600	4400	3900	1600	5000	1650
NRP600	4500	6000	600-1200	3400-3700	4500	4050	1700	5150	1780
NRP650	4800	6500	600-1200	3500-3800	4600	4100	1700	5250	1780
NRP700	5200	7000	600-1200	3600-3900	4700	4200	1700	5400	1780
NRP750	5600	7500	600-1200	3800-4000	4800	4400	1850	5550	1850
NRP800	6000	8000	600-1200	4000-4200	4900	4500	1850	5800	2100
NRP850	6250	8500	600-1200	4100-4400	5000	4750	1950	6100	2100
NRP900	6600	9000	600-1200	4200-4600	5100	4850	1950	6400	2100
NRP950	7000	9500	600-1200	4400-4800	5200	5000	1950	6700	2100
NRP1000	7350	10000	600-1200	4600-5100	5300	5350	2100	7150	2250
NRP1100	8000	11000	600-1200	5000-5500	5400	5600	2100	7700	2250
NRP1200	8800	12000	600-1200	5400-5700	5600	5850	2200	7900	2400
NRP1400	10000	14000	600-1200	5500-5800	5700	6000	2350	8100	2400
NRP1600	12000	16000	600-1200	5600-6000	5800	6350	2500	8300	2400



车间装配好的部分舵桨产品
Assembled azimuth thrusters at workshop

NDRP系列甲板组合型舵桨参数表
NDRP Series Deck Mounted Azimuth Thruster Diagram

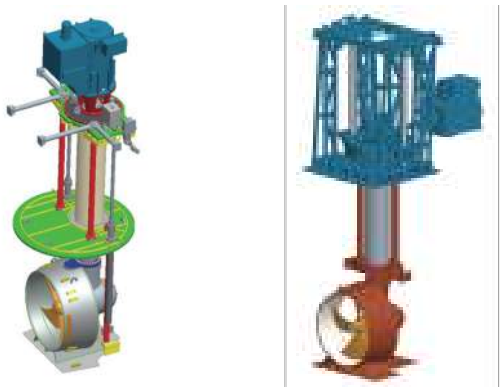


型 号 Model	最大输入功率 Max. input power (kW)	最大输入转速 Max. input speed (r/min)	螺旋桨直径 Propeller dia. (mm)	尺寸 Dimensions (mm)	最大 PAL 值 Max. PAL (mm)
NDRP20	150	1000-2100	700-900	3250×1400×1700	3300
NDRP40	300	1000-2100	900-1100	4100×1800×2000	4800
NDRP60	441	1000-1800	1100-1350	4500×1800×2300	4800
NDRP80	588	1000-1800	1350-1500	5500×2500×2700	5400
NDRP100	736	1000-1800	1400-1600	6000×2500×3000	7000
NDRP140	1030	750-1500	1600-1800	6300×3000×3400	8000
NDRP160	1200	750-1500	1700-2000	6700×3000×3600	8500
NDRP180	1324	750-1500	1800-2100	6900×3000×3800	9000
NDRP200	1471	750-1500	2100-2300	7000×3000×4000	9500
NDRP250	1920	750-1500	2400-2600	7200×3500×4200	9500
NDRP300	2207	750-1500	2600-2800	7500×3500×4200	9500
NDRP350	2574	600-1000	2600-2800	7500×3500×4200	9500
NDRP400	2942	600-1000	3000-3200	7500×3500×4200	9500
NDRP450	3310	600-1000	3200-3500	8000×3700×4300	9500
NDRP500	3678	600-1000	3500-3800	8200×4000×4500	9500

NRRP升降式舵桨
NRRP Retractable Azimuth Thruster

NRRP系列伸缩式舵桨主要用于船舶的辅助推进或DP的执行单元，具备上下升降功能。

The NRRP retractable azimuth thruster is mainly used as an auxiliary propulsion or DP execution unit for ships, which is equipped with up and down lifting function.



L型升降式舵桨
L Drive-retractable azimuth thruster

Z型升降式舵桨
Z Drive-retractable azimuth thruster

型 号 Model	额定输入功率 Rated input power (kW)	输入转速 Input speed (rpm)	螺旋桨直径 Propeller dia. φ D/mm
NRRP40	300	1000-2100	900-1100
NRRP60	441	1000-1800	1100-1350
NRRP80	588	1000-1800	1350-1500
NRRP100	736	1000-1800	1400-1600
NRRP140	1030	750-1500	1600-1800
NRRP160	1200	750-1500	1700-2000
NRRP180	1324	750-1500	1800-2100
NRRP200	1471	750-1500	2100-2300
NRRP250	1920	750-1500	2400-2600
NRRP300	2207	750-1500	2600-2800
NRRP350	2574	600-1000	2600-2800
NRRP400	2942	600-1000	3000-3200
NRRP450	3310	600-1000	3200-3500
NRRP500	3678	600-1000	3500-3800
NRRP550	4100	600-1000	3800-4200

NTRP系列双桨式舵桨推进效率高，具有良好的减震和降噪效果。桨叶直径比单桨小15%~20%，使得叶梢与船体底板之间有足够间隙，两个桨叶可以同转，也可以反转，原动机可以是柴油机，也可以是电机。

NTRP series dual-propeller azimuth thruster delivers high propulsion efficiency with excellent shock absorption and noise reduction performance. The propeller diameter is 15%-20% smaller than that of a single-propeller system, which ensures sufficient clearance between blade tips and hull's bottom plating. The twin propellers can operate in co-rotating or counter-rotating modes, and the prime mover can be either a diesel engine or an electric motor.



电机驱动
Motor drive

柴油机驱动
Diesel engine drive

型 号 Model	额定输入功率 Rated input power (kW)	输入转速 Input speed (rpm)	螺旋桨直径 Propeller dia. Φ D/mm
NTRP08	50	1000-2100	500-600
NTRP15	100	1000-2100	700-900
NTRP20	150	1000-2100	900-1000
NTRP30	220	1000-2100	900-1100
NTRP50	360	1000-2100	1100-1200
NTRP60	441	1000-1800	1100-1300
NTRP80	588	1000-1800	1300-1400
NTRP100	736	1000-1800	1400-1500
NTRP140	1030	750-1500	1500-1600
NTRP160	1200	750-1500	1550-1700
NTRP180	1324	750-1500	1600-1800
NTRP200	1471	750-1500	1800-1900
NTRP220	1618	750-1500	1900-2000
NTRP250	2000	750-1500	2000-2100
NTRP280	2100	750-1500	2100-2200
NTRP300	2207	750-1500	2100-2300
NTRP320	2400	600-1200	2100-2300
NTRP350	2600	600-1200	2100-2400
NTRP370	2800	600-1200	2200-2400
NTRP400	3000	600-1200	2200-2500
NTRP450	3350	600-1200	2300-2500
NTRP480	3550	600-1200	2400-2600
NTRP500	3680	600-1200	2500-2700
NTRP550	4100	600-1200	2600-2800
NTRP600	4500	600-1200	2700-2900
NTRP650	4800	600-1200	2800-3000
NTRP700	5200	600-1200	2900-3100
NTRP750	5600	600-1200	3000-3200
NTRP800	6000	600-1200	3100-3300
NTRP850	6250	600-1200	3200-3400
NTRP900	6600	600-1200	3300-3500
NTRP950	7000	600-1200	3400-3600
NTRP1000	7350	600-1200	3500-4400
NTRP1100	8000	600-1200	3900-4500
NTRP1200	8800	600-1200	4000-4600
NTRP1400	10000	600-1200	4300-4800
NTRP1600	12000	600-1200	4400-5000

NRPL集成式舵桨

NRPL Integrated Azimuth Thruster

NRPL集成式舵桨主要应用于新能源船舶，绿色、节能、环保，螺旋桨可以是定距桨，也可以是可调桨。

NRPL integrated azimuth thruster is mainly used in new energy vessels, featuring environmental- friendly, energy efficient and low emission performance. The propeller can be fixed pitch propeller (FPP) or controllable pitch propeller (CPP).



可倾斜的集成式舵桨
Tilttable Integrated Azimuth Thruster



拉式集成舵桨
Pull Type Integrated Azimuth Teehruster

NRP-PTI技术

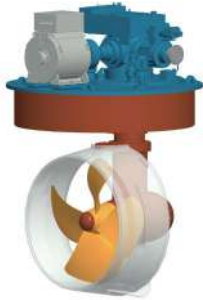
NRP-PTI technology

NRP系列舵桨可以配置PTI功能，即双动力输入，两动力可以单独工作，也可以并车工作，适应于混合动力模式。

The NRP series azimuth thruster can be configured with PTI function, which means dual power input. The two power sources can work separately or in parallel, suitable for hybrid mode.



同轴输入布置
Coaxial input arrangement



直角输入布置
Right-Angle input arrangement

PC级高冰区舵桨

PC High Ice Class Azimuth Thruster

适用于破冰船即高冰区工况下，最高冰区可以满足PC2等级，单机最大功率12000kW。

Suitable for icebreakers and high ice class operations, the system could meet PC2 standard, with a maximum single unit power of 12000kW.

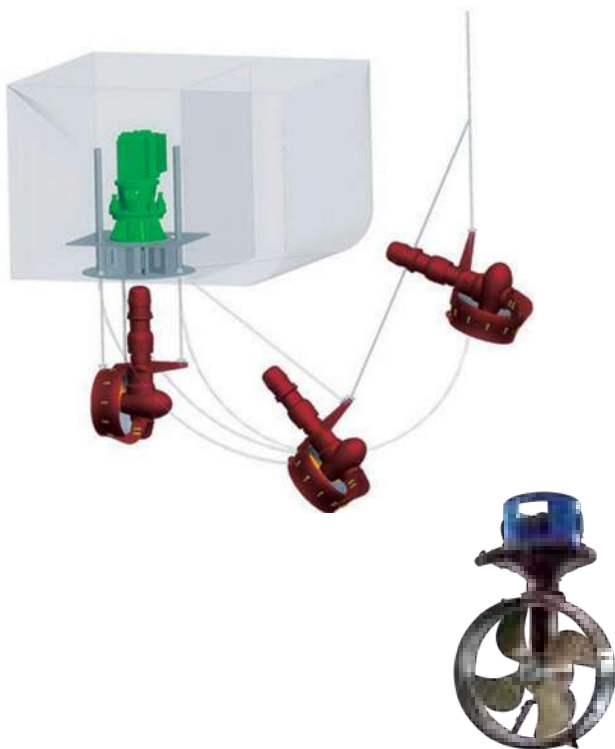


NURP水下安装型舵桨

NURP Underwater-mounted Azimuth Thruster

该产品可以在水下进行拆卸、安装，可以满足长时间不进坞和进坞困难的工况使用，最大功率6000kW。

This product supports underwater removal and mounting, enabling long-term operation without dry-docking and suitability for hard-to-dock conditions. Maximum power is 6,000 kW.

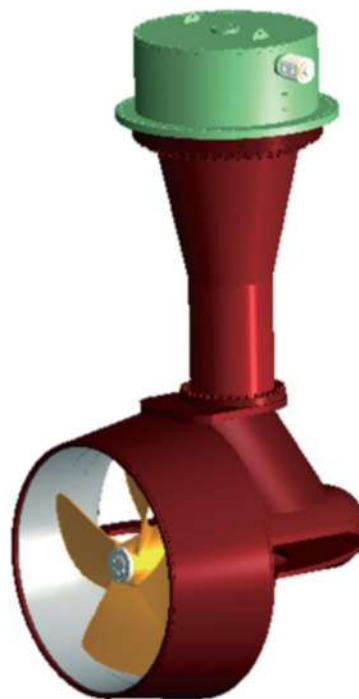


NHRP液压式舵桨

NHRP Hydraulic Azimuth Thruster

NHRP舵桨由液压马达直接驱动螺旋桨，广泛应用于平台、驳船、深水工作船等DP船上，一般悬挂在甲板上，既可以起翘，也可以折叠。

The NHRP azimuth thruster is directly driven by a hydraulic motor and is widely used on DP ships such as offshore platforms, barges, and deepwater workboats. It is usually suspended on the deck and can be lifted or folded.



遥控系统

Remote Control System

NRP6000遥控系统是基于PLC控制器的全随动推进控制系统，转舵控制和主机速度控制可以在驾控台一个联合控制手柄控制。水平转动手柄可以对舵桨进行360°的回转控制，同时前后推动手柄可用对主机转速进行调速控制。在随动系统故障的情况下，可以快速选择使用备用控制系统进行回转和主机调速控制，也可转为本地主机控制和回转控制。

NRP6000 remote control system is a fully follow-up propulsion control system based on PLC controller. Both steering control and main engine speed control can be operated via a single integrated control lever at the bridge console. Rotating the lever horizontally enables 360° steering control of the azimuth thruster, at the same time pushing the lever forward or backward could adjust the main engine speed. In case of the follow-up system failure, the backup control system can be quickly activated for steering and engine speed control, or operation can be switched to local main engine control and steering control.

主要功能 Main functions

- 1.主机、转速控制 Main engine, RPM control
- 2.舵角/螺距控制 Rudder angle/pitch control
- 3.离合器控制 Clutch control
- 4.主机负荷控制 Main engine load control
- 5.升降/起翘控制 Lifting/tilting control
- 6.监控及报警 Monitoring and alarming

控制模式 Control mode

- 1.手柄随动控制（舵角/螺距）
 - 2.按钮备用控制（舵角/螺距）
 - 3.DP模式
 - 4.恒转速模式
 - 5.消防模式
 - 6.应急控制（驾驶室/机旁）
- 1.Level follow-up control (Rudder angle/pitch)
 - 2.Button back up control (Rudder angle/pitch)
 - 3.DP mode
 - 4.Constant speed mode
 - 5.Fire-fighting mode
 - 6.Emergency control (bridge/engine room)



系统接口 System interface

- 1.DP接口 DP interface
- 2.JOYSTICK接口 JOYSTIC interface
- 3.VDR接口 VDR interface
- 4.自动舵接口 Autopilot interface
- 5.消防炮接口 Fire monitor interface
- 6.综合报警接口 General alarming interface

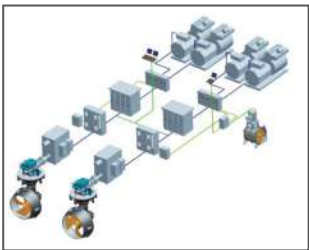


NEPod系列吊舱式电力推进系统

NEPod Series Electrical Propulsion System

NGC Marine在机械式舵桨研发和产业化成功经验的基础上，将主电机移至水下吊舱壳体中，省去了中间齿轮传动等结构，直接驱动螺旋桨，研发出NEPod系列永磁电力吊舱推进系统。

Based on successful experience in the R&D and industrialization of mechanical azimuth thruster, NGC Marine has developed NEPod series permanent magnet electric pod propulsion system by integrating the main motor into the underwater pod housing, eliminating intermediate gear transmission and other structures to directly drive the propeller with motor.



机械式舵桨推进系统机舱布置图
Layout of mechanical azimuth thruster system in engine room



吊舱式电力推进系统机舱布置图
Layout of pod electrical propulsion system in engine room

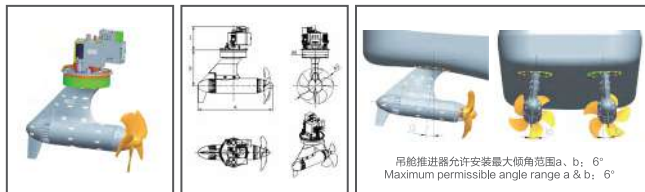
吊舱式电力推进系统比机械式舵桨电力推进系统有以下优点：

- (1) 方便整船的结构布置，增加船舱的容积,可以提高船舶设计、建造和使用的灵活性；
- (2) 可以改善和优化船体和吊舱的伴流场，使得水动力效率更好；
- (3) 无机械轴系和传动部件可以减少不必要的机械效率损失3%以上，并能有效减小推进器噪声和震动产生，能达到现代豪华邮轮舒适度等级1级设计要求；
- (4) 采用海水直接冷却或再结合空冷冷却的大长径比永磁电机效率可以达到97%以上。
- (5) 在高冰区航行时破冰效果更好。与传统的舵桨推进器相比，吊舱推进器可有效节能10%左右。

Advantages of pod electric thruster compared to traditional mechanical azimuth thruster:

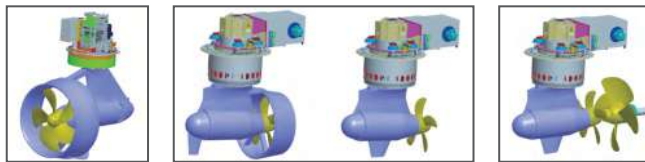
1. Simplify the structural layout of the whole ship, increase cabin capacity, and enhance the flexibility of ship design, construction and operation.
2. Improve and optimize the wake field of the hull and pod, enhancing hydrodynamic efficiency.
3. By removing the mechanical shafting and transmission components, unnecessary mechanical efficiency loss by over 3% could be avoided, and propeller noise and vibration can also be reduced effectively, meeting the design requirements for comfort level 1 of modern luxury cruisers.
4. The efficiency of high aspect-ratio permanent magnet motors with direct seawater cooling or hybrid air-water cooling can exceed 97%.
5. NEPod provides better ice-breaking efficiency and performance when navigating in high ice zones. Compared to traditional azimuth thruster system, NEPod propulsion system can reduce energy consumption by about 10%.

型号 Model	功率 Power (Kw)	桨叶最高转速 Max. Propeller speed (rpm)	桨叶直径 Propeller dia.D (mm)	A mm	B mm	C mm	E mm
NEPod420	150~220	700	900~1200	1700	930	890	520
NEPod510	200~315	700	1000~1300	1800	930	900	550
NEPod590	300~400	630	1000~1400	2000	1100	900	650
NEPod670	355~630	560	1200~1600	2400	1250	1000	800
NEPod760	560~1000	420	1500~2100	2700	1400	1000	1100
NEPod850	900~1400	360	2000~2500	3840	1950	2300	1800
NEPod960	1300~2000	320	2400~3000	4800	2445	2300	2200
NEPod1200	1800~3350	260	3000~3500	5730	3300	2300	2400
NEPod1400	3150~5000	200	3400~4000	6800	3500	2300	2520
NEPod1600	4500~7500	180	4000~4500	9000	5000	2600	5050
NEPod2800	7500~10000	150	4500~5200	10000	7000	3500	5800
NEPod3100	10000~15000	125	5200~6200	11000	8000	4000	6500
NEPod3500	15000~18000	115	6200~7500	12000	8600	4500	7000



NGC Marine可结合船型,根据整船设计要求提供不同的吊舱推进器结构形式,包括带导流管结构、高舵效结构和混合对转结构等,从而显著提升船舶的推进效率和操纵性。

NGC Marine can provide various structural configurations for pod thruster based on vessel types and overall hull design requirements, including nozzle type, high-steering efficiency type, and hybrid contra-rotating type, so as to enhance both propulsion efficiency and vessel maneuverability.



导流管结构型式
Nozzle type

高舵效的结构型式
High steering efficiency type

混合对转结构型式
Contra-rotating structure type

主要功能 Main functions

1. 主电机转速控制
Main motor RPM control
2. 舵角控制
Rudder angle control
3. 主电机负荷控制
Main motor load control
4. 滑环信号监测
Slip-ring signal monitoring
5. 监控及报警
Monitoring and alarming

控制模式 Control mode

1. 手柄随动控制（舵角/转速）
Follow-up control by control lever (rudder angle/speed)
2. 按钮非随动控制（舵角/转速）
Non-follow up control by button (rudder angle/speed)
3. DP/JOY模式
DP/JOY mode
4. 自动舵模式
Auto pilot mode
5. 联控模式
Joint control mode

系统接口 System interface

1. DP接口
DP interface
2. JOYSTICK接口
JOYSTICK interface
3. VDR接口
VDR interface
4. 自动舵接口
Auto pilot interface
5. 综合报警接口
Integrated alarm interface

NEPod6000遥控系统是基于PLC控制器的全随动推进控制系统,转舵控制和主机速度控制可以在驾驶室由一个联合控制手柄控制。水平转动手柄可以对吊舱推进器进行360°的回转控制,前后推动手柄可以对主机转速进行调速控制。在随动系统故障的情况下,可以快速选择使用备用控制系统进行回转和主机调速控制,也可转为本地主机控制和回转控制。

NEPod6000 remote control system is a fully follow-up propulsion control system based on PLC controller. The steering control and main engine speed control can be managed through a combined control lever on the bridge console.

Rotating the lever horizontally can control the azimuth thruster rotate 360°, and moving the control lever forward and backward can adjust the speed of the main engine. In case of the follow-up system failure, the backup control system can be quickly selected to control the rotation and main engine speed, or switched to local main engine control and rotation control.



NFT/NCT系列侧向推进器
NFT/NCT Series Tunnel Thruster

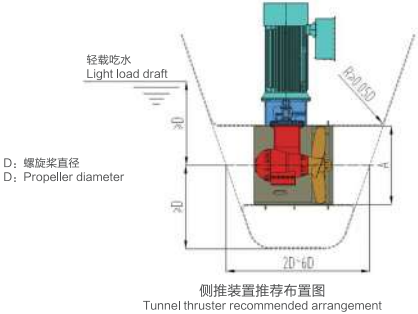
技术参数
Technology Data

NGC Marine侧向推进器包括NCT可调螺距型和NFT定螺距型，一般包括原动机，液压润滑系统，遥控系统和侧推本体单元四部分。原动机通常是电机，也可以是柴油机或液压马达，并可以按S2-30、S2-60和S1的不同工作制运行。可以提供低压(如380V/440V/690V)和中压(如1100V/3300V/6600V)的各类型电压下的变频启动、软启动、自耦降压启动以及混合启动等多种电气方案，遥控系统可以连接Joystick和DP接口。根据船舶使用的特殊要求也可以做成伸缩式、双层筒体等特殊结构。

NGC Marine Tunnel Thruster series comprises NCT controllable pitch type and NFT fixed pitch type, generally consisting of four core components: the prime mover, hydraulic lubrication system, remote control system, and tunnel thruster body unit.
The prime mover is typically electric motor, though diesel engines or hydraulic motors can also be configured. It can operate under different working conditions including S2-30, S2-60, and S1. The system supports flexible electrical starting solutions for both low-voltage (e.g., 380V/440V/690V) and medium-voltage (e.g., 1100V/3300V/6600V) applications, such as variable frequency starting, soft starting, auto-transformer starting, and hybrid starting. The remote control system features compatibility with both joystick interfaces and DP (Dynamic Positioning) interfaces.
According to special requirements of ship use, it can also be designed with special structures like retractable or double-layer tunnel structure.



NFT功率(NFT power): 37 ~ 3300 kW
桨叶直径(Propeller dia.): 500 ~ 3300mm
NCT功率(NCT power): 160 ~ 3300kW
桨叶直径(Propeller dia.): 1000 ~ 3300mm



NCT可调桨侧推系列
NCT Series (Controllable Pitch)

型号 Model	电机功率 Motor Power (kW)	频率 Frequency (Hz)	输入转速 Input Speed (rpm)	A	D
NCT100	280	50	1490	1022	1000
		60	1780		
NCT110	400	50	1490	1122	1100
		60	1780		
NCT130	500	50	1490	1326	1300
		60	1780		
NCT150	600	50	1490	1530	1500
		60	1780		
NCT165	800	50	1490	1684	1650
		60	1190		
NCT180	1000	50	1490	1834	1800
		60	1190		
NCT200	1200	50	1490/990	2038	2000
		60	1190		
NCT225	1500	50	990	2295	2250
		60	1190		
NCT240	1800	50	990	2450	2400
		60	880		
NCT260	2300	50	990	2660	2600
		60	880		
NCT275	2300	50	990	2810	2750
		60	880		
NCT285	2700	50	990	2910	2850
		60	880		
NCT300	3000	50	990/735	3060	3000
		60	880		
NCT330	3300	50	990/735	3360	3300
		60	880		

NFT定距桨侧推系列
NFT Series (Fixed Pitch)

传动形式
Drive Types

型 号 Model	电机功率 Motor Power (kW)	频率 Frequency (Hz)	输入转速 Input Speed (rpm)	A	D
NFT050	50	50	1490	514	500
		60	1780		
NFT060	100	50	1490	614	600
		60	1780		
NFT070	160	50	1490	716	700
		60	1780		
NFT080	220	50	1490	818	800
		60	1780		
NFT090	220	50	1490	918	900
		60	1780		
NFT100	280	50	1490	1022	1000
		60	1780		
NFT110	400	50	1490	1122	1100
		60	1780		
NFT130	500	50	1490	1326	1300
		60	1780		
NFT150	600	50	1490	1530	1500
		60	1780		
NFT165	800	50	1490	1684	1650
		60	1190		
NFT180	1000	50	1490	1834	1800
		60	1190		
NFT200	1200	50	1490/990	2038	2000
		60	1190		
NFT225	1500	50	990	2295	2250
		60	1190		
NFT240	1800	50	990	2450	2400
		60	880		
NFT260	2300	50	990	2660	2600
		60	880		
NFT275	2300	50	990	2810	2750
		60	880		
NFT285	2700	50	990	2910	2850
		60	880		
NFT300	3000	50	990/735	3060	3000
		60	880		
NFT330	3300	50	990/735	3360	3300
		60	880		

注：以上为电机驱动的常规选型推荐，对于DP工况、柴油机驱动、冰区加强等特殊型式，
请向NGC Marine技术部门咨询。
Note: The above is a recommended selection for conventional motor drives. For special types such as
DP working conditions, diesel engine drives, and ice class reinforcement, please consult the NGC
Marine's technical department.

L-型传动侧推 L-Drive Tunnel Thruster

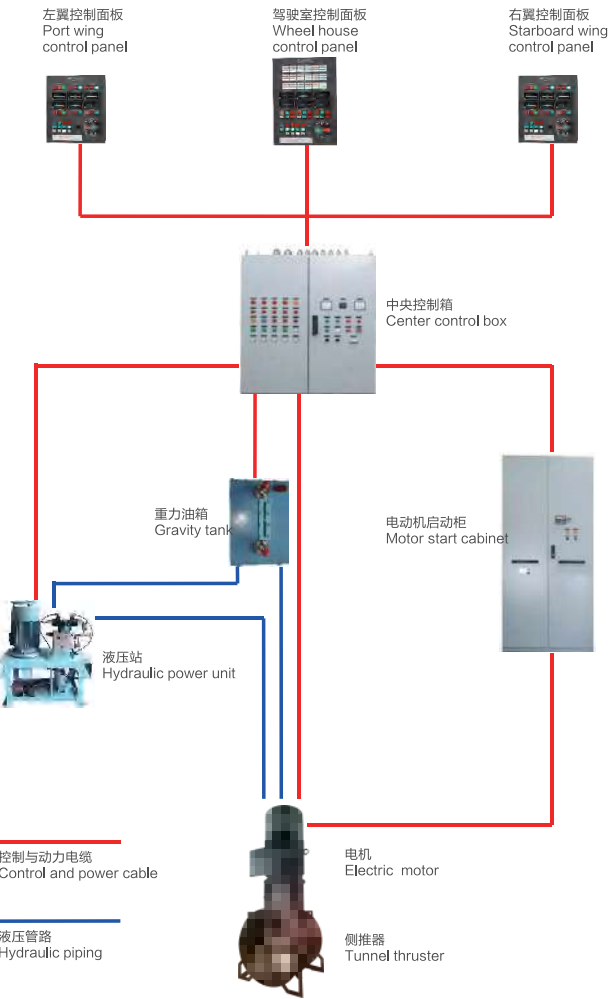


Z-型传动侧推 Z-Drive Tunnel Thruster



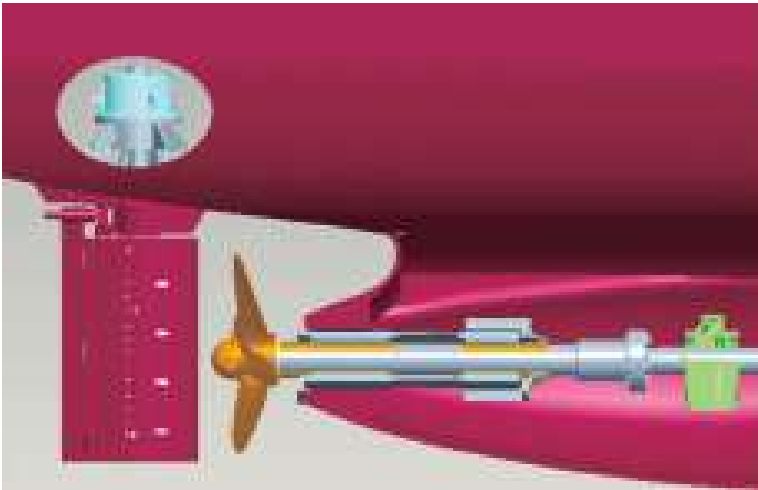
侧向推进器系统图
Tunnel Thruster System Drawing

NFP系列轴舵系
NFP Series Shaft Rudder



NGC Marine拥有专业的轴舵系设计、生产和检验团队，可以根据客户提供的船体尺寸、船体线性、船模试验数据和主机参数等信息来进行船舶推进系统方案设计及设备选型。既可以提供单个轴舵系零部件，也可以提供轴舵系打包服务，对于船舶设计和建造方来说，既可以得到专业的服务，又可以节省成本和管理时间。

With a professional team of design, manufacturing, and inspection for shaft & rudder system, NGC Marine is able to develop ship propulsion system solutions and equipment selection according to the client-provided hull dimension, hull form, ship model test data and main engine parameters, and other relevant information. NGC Marine not only offers individual shaft and rudder system components, but also packaged system solutions, enabling ship designers and builders to access specialized expertise while reducing costs and management time.



最大桨叶直径(Max propeller dia.): 11m
最大轴径(Max shaft dia.): 1.6m
轴最大长度(Max. shaft length): 16m
舵叶重量(Rudder blade weight): 80T



6

艏管

- 整体焊接式、分体式
- 由铸钢、锻钢、低碳钢制成

Stern tube

- one-piece welding type, split type
- made of casting steel, forging steel, low carbon steel



7

艏轴

- 键联接式、液压联接式、法兰联接式
- 碳钢、合金钢、不锈钢

Stern shaft

- keyed connection, hydraulic connection
- flanged connection
- carbon steel, alloy steel, stainless steel



8

液压联轴节

- 法兰式、套筒式
- 带中间套型、无中间套型

Hydraulic coupling

- flange type, sleeve type
- with middle sleeve type, without middle sleeve type



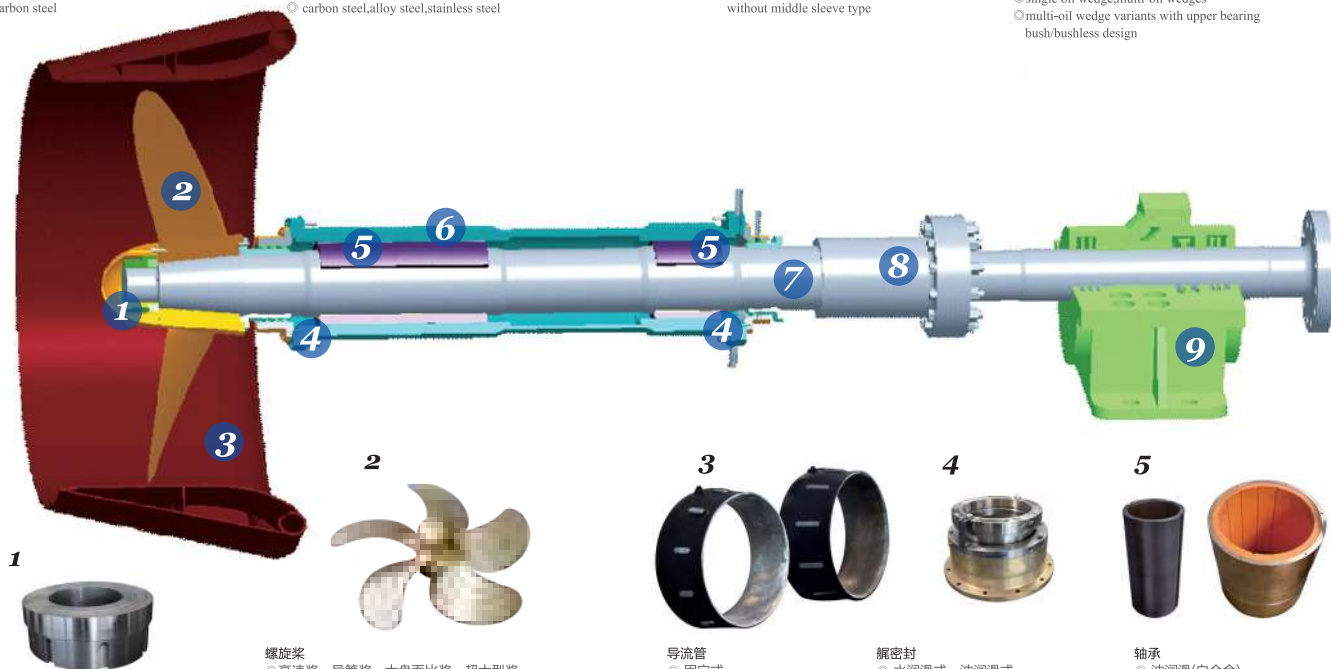
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中间轴承

- 滑动式、滚动式
- 单油楔型、多油楔型
- 多油楔型包括：带上轴瓦、无上轴瓦

Intermediate bearing

- sliding bearing, rolling bearing
- single oil wedge, multi-oil wedges
- multi-oil wedge variants with upper bearing bush/bushless design



1

液压螺母

- 方便安装及锁紧螺旋桨

Hydraulic nut

- easy to mount and lock the propeller

2

螺旋桨

- 高速桨、导管桨、大盘面比桨、超大型桨
- 液压连接式、键联接式
- 材料：Cu1、Cu2、Cu3、Cu4

Propeller

- high speed propeller, nozzle propeller, large disk-to-propeller ratio, Extra-large propeller
- hydraulic connection, keyed connection
- material: Cu1, Cu2, Cu3, Cu4

3

导流管

- 固定式、可转动式、全回转式
- 由不锈钢和钢制成

Nozzle

- fixed type, steerable type, azimuthing type
- made of stainless steel and steel.

4

艏密封

- 水润滑式、油润滑式
- 内置2、3、4道成型密封圈
- 后密封可选附件：防沙圈、挡物环、防渔网装置

Stern tube seal

- water-lubricated type and oil-lubricated type
- incorporates 2, 3 or 4 built-in molded sealing rings
- Optional accessories for the stern seal: sand exclusion ring, debris retaining ring, anti-fishing net guard

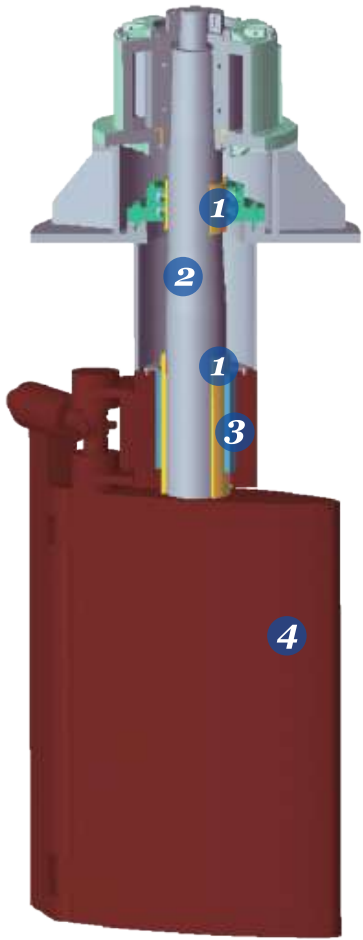
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轴承

- 油润滑(白合金)
- 水润滑(橡胶或高分子)

Bearing

- oil lubricated (white metal)
- water lubricated (rubber or high polymer)



- 主要特点:
- 结构紧凑, 占地面积小, 重量轻;
 - 舵角范围宽, 最大转舵角度可达 $2 \times 65^\circ$;
 - 内置自润滑舵承, 可用作舵杆上舵承;
 - 与舵杆采用无键液压连接, 安装方便;
 - 独特的密封结构和冗余的液压泵组保证产品的可靠性;
 - 定位精确度高, 操作维护简单。

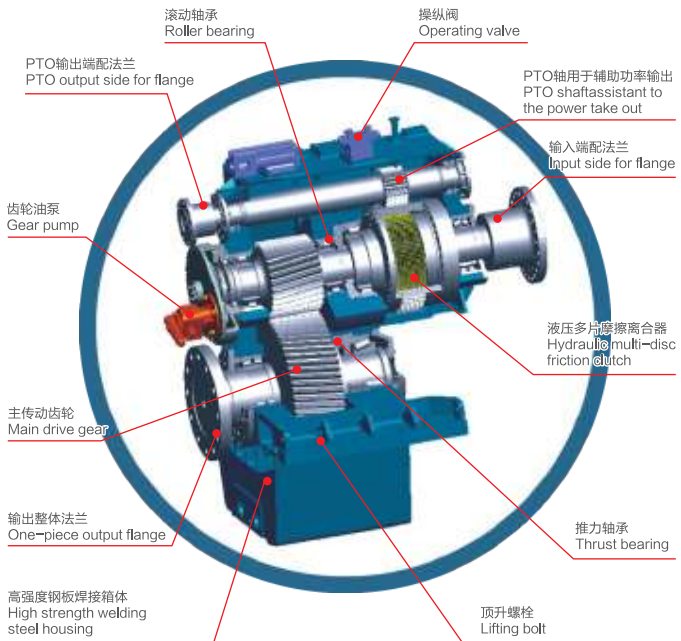
- Main characteristics :
- Compact, light, space saving;
 - wide rudder angle range, max. steering angle is up to $2 \times 65^\circ$;
 - Built-in self-oiling rudder bearing, which be used as upper rudder bearing of rudder stock;
 - Keyless hydraulic connection with the rudder stock, easy for installation;
 - Special sealing arrangement and redundant hydraulic power pack is the good warranty of the product reliability;
 - High precision of positioning, and easy to maintain.

型号 Model	工作扭矩 Working torque (KN.m)	最大舵杆直径 Max. rudder stock dia. (mm)	最大转舵角 Max. steering angle (deg)	尺寸 Dimensions (mm)		重量 Weight (kg)
				A	B	
NRV12	120	220	2×65	940	680	1650
NRV16	160	240	2×65	1050	725	2000
NRV20	200	280	2×65	1050	750	2800
NRV25	250	300	2×65	1250	925	3000
NRV32	320	320	2×45	1250	925	3200
NRV40	400	350	2×45	1250	1045	3600
NRV50	500	370	2×45	1500	835	4000
NRV63	630	390	2×45	1500	935	5000
NRV80	800	420	2×45	1500	1015	6000
NRV100	1000	450	2×45	1700	1045	8000
NRV125	1250	470	2×45	1900	1195	9200
NRV160	1600	500	2×45	1900	1620	11000

A-转舵机构最大直径(Steering actuator max dia.)
B-转舵机构高度(Steering actuator height)

CK系列可调桨齿轮箱
CK Series Non-reversible Gearbox

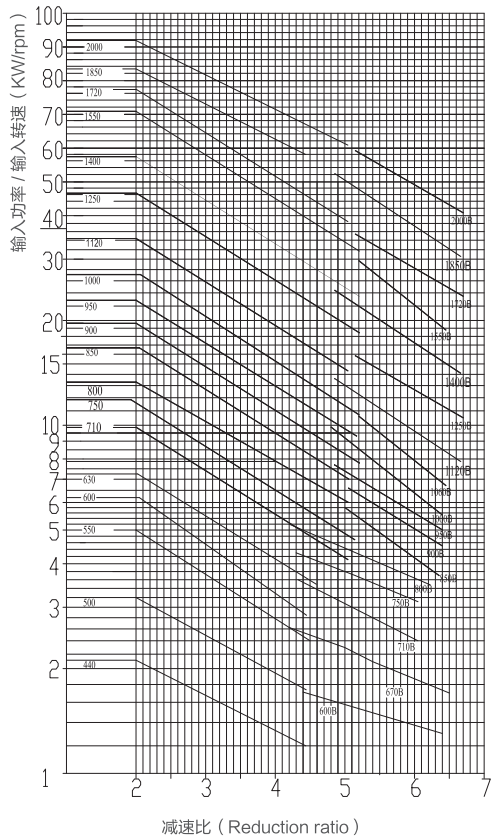
最大传递功率 (Max transmission power): 30000kW
最大传递能力 (Max transmission capacity): 166.67kW/rpm
最大推力 (Max thrust): 3150kN



主要结构形式:
CKV系列: 输入轴、输出轴垂直异心
CKH系列: 输入轴、输出轴水平异心
CKTS系列: 双机并车 (双输入单输出)

Main configurations:
CKV series: Input/output shaft vertical offset
CKH series: Input/output shaft horizontal offset
CKTS series: Paralleled twin-engine (double input single output)

CK系列可调桨齿轮箱选型图表
CK Series Non-reversible Gearbox Diagram



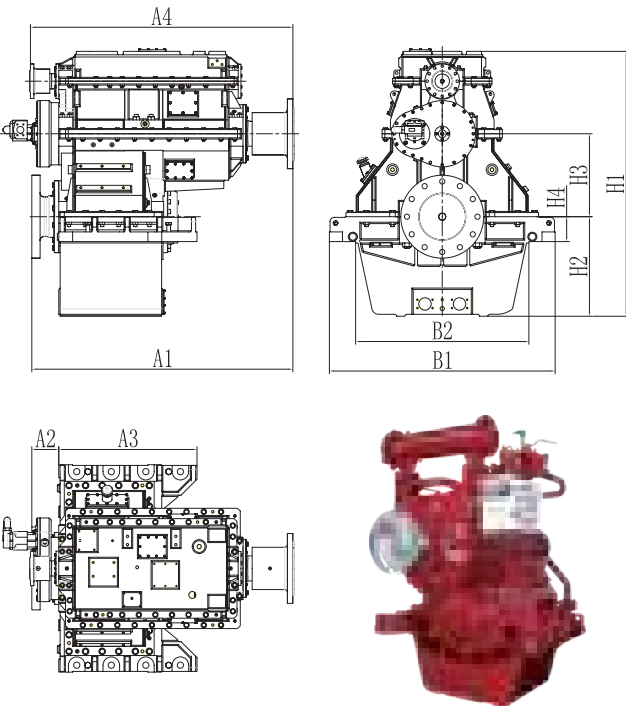
转速选择条件:
Selecting condition of input speed

齿轮箱型号 Model	最大输入转速 Max input speed (rpm)
440	1800
500~550	1200
600~750	1000
800~950	750
1000~2000	600

选型说明:
Explanation

- P: 最大持续功率—kW(公制)
- n1: 输入转速rpm
- 工况不同, 选型会有所不同, 有特殊要求请与我们联系。
- P: max. continuous power—kW(metric)
- N1: input speed rpm
- The type selection of gearbox will be changed according to different working conditions, please feel free to contact NGC Marine for special requirements.

CKV系列可调桨齿轮箱外形尺寸
CKV Series Non-reversible Gearbox Dimension



- ※ 输入端配有法兰
- ※ PTO输出端配法兰
- ※ 输出轴有内孔，用于装配油器
- ※ 滑油备用电机泵组安装在齿轮箱上
- ※ 配滑油双联过滤器，清洗时不影响工作
- ※ 操纵阀，机旁手动和远程遥控控制离合器的合脱排
- ※ 采用液压多片摩擦离合器

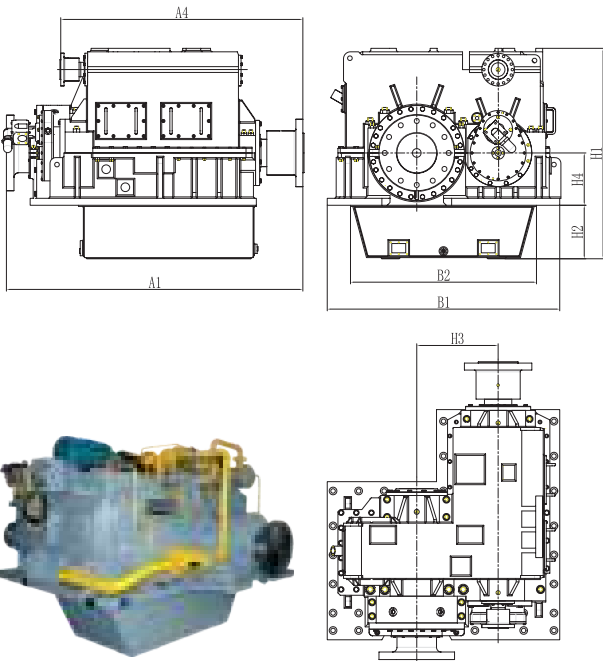
- ※ Equipped with flange at input end
- ※ Equipped with flange at PTO output end
- ※ Output shaft is machined with inner holes for installation of O.D. Box
- ※ Standby lub. oil electric motor pump is mounted on gearbox
- ※ Equipped with duplex filter, having no interference to operation during washing
- ※ Operating valve to control the clutch-in/out via manual and remote control
- ※ Equipped with hydraulic multi-disc friction clutch

CKV系列可调桨齿轮箱外形尺寸
CKV Series Non-reversible Gearbox Dimension

型号 Model	尺寸 Dimension										最大参考推力 Max thrust (KN)	重量 Weight (t)
	A1	A2	A3	A4	B1	B2	H1	H2	H3	H4		
CKV440	1500	165	800	1550	1220	900	1280	510	440	150	250	2.2~2.5
CKV500	1700	165	880	1750	1280	960	1485	580	500	160	330	2.9~3.2
CKV550	1800	195	960	1820	1410	1070	1610	650	550	170	430	3.7~4.1
CKV600	1900	225	1010	1920	1490	1120	1720	680	600	180	510	4.3~4.7
CKV630	2050	225	1050	2050	1560	1190	1800	720	630	180	540	5.2~5.6
CKV710	2415	350	1150	2200	1740	1360	2000	800	710	200	670	8.1~8.4
CKV750	2600	350	1200	2350	1860	1480	2100	840	750	200	710	8.8~9.6
CKV800	2850	350	1250	2600	1930	1550	2280	880	800	200	840	10.6~11.4
CKV850	3160	400	1300	2880	2030	1630	2340	900	850	225	890	12.3~13.3
CKV900	3200	400	1400	2950	2120	1690	2500	970	900	240	970	14.5~15.8
CKV950	3230	400	1450	2960	2160	1750	2600	1000	950	265	1050	16.5~17.8
CKV1000	3250	450	1500	3000	2300	1800	2700	1050	1000	275	1200	19.3~20.4
CKV1120	3300	450	1600	3050	2600	2070	3200	1250	1120	310	1500	25.5~27.8
CKV1250	3400	500	1700	3150	2820	2200	3600	1400	1250	350	1850	32.5~35.6
CKV1400	3480	530	1800	3250	3100	2500	4000	1550	1400	360	1950	43.5~46.8
CKV1550	3600	530	1850	3300	3500	2800	4600	1700	1550	375	2150	55~58
CKV1720	3720	600	1900	3350	3840	3200	5300	1900	1720	385	2250	66~68
CKV1850	3850	600	1950	3400	4100	3400	6000	2100	1850	400	2700	78~82
CKV2000	4000	650	2000	3450	4300	3650	6500	2250	2000	420	3150	95~99
CKV600B	1670	165	800	1550	1410	1090	1540	650	600	150	510	3.3~3.5
CKV670B	1800	195	960	1820	1650	1310	1855	780	670	170	600	5.4~5.7
CKV710B	1900	225	1010	1920	1710	1340	1950	800	710	180	670	5.9~6.2
CKV750B	2050	225	1050	2050	1810	1440	2080	870	750	180	710	6.6~6.9
CKV800B	2100	225	1060	2100	1900	1500	2150	900	800	180	840	7.1~7.5
CKV850B	2150	225	1090	2150	1970	1600	2240	950	850	180	890	7.7~8.1
CKV900B	2415	350	1170	2200	2150	1770	2360	980	900	200	970	11.6~12.0
CKV950B	2600	350	1220	2350	2310	1930	2570	1030	950	200	1050	14.0~14.3
CKV1000B	2850	350	1270	2600	2370	1990	2680	1080	1000	200	1200	16.1~16.6
CKV1060B	3160	400	135	2880	2510	2110	3710	1130	1060	225	1350	18.9~19.4
CKV1120B	3200	400	1450	2950	2660	2230	3200	1230	1120	240	1500	21.9~22.5
CKV1250B	3250	450	1550	3000	3030	2520	3500	1370	1250	275	1850	26.0~27.1
CKV1400B	3300	450	1650	3050	3230	2590	3800	1500	1400	310	2000	34.2~35.6
CKV1550B	3400	500	1750	3150	3490	2850	4200	1700	1550	350	2150	42.7~44.5
CKV1720B	3480	530	1800	3250	3840	3200	4500	1900	1720	360	2250	56.7~59.8
CKV1850B	3600	600	1850	3300	4100	3400	5000	2100	1850	375	2700	71.5~73.5
CKV2000B	3720	600	1900	3350	4300	3650	5800	2250	2000	385	3150	85.2~89.5

CKH系列可调桨齿轮箱外形尺寸

CKH Series Non-reversible Gearbox Dimension



- ※ 输入端配法兰
- ※ PTO输出端配法兰
- ※ 输出轴有内孔，用于安装配油器
- ※ 滑油备用电机泵组安装在齿轮箱上
- ※ 配滑油双联过滤器，清洗时不影响工作
- ※ 操纵阀，机旁手动和远程遥控控制离合器的合脱排
- ※ 采用液压多片摩擦离合器

- ※ Equipped with flange at input end
- ※ Equipped with flange at PTO output end
- ※ Output shaft is machined with inner holes for installation of O.D. Box
- ※ Standby lub. oil electric motor pump is mounted on gearbox
- ※ Equipped with duplex filter, having no interference to operation during washing
- ※ Operating valve to control the clutch-in/out via manual and remote control
- ※ Equipped with hydraulic multi-disc friction clutch

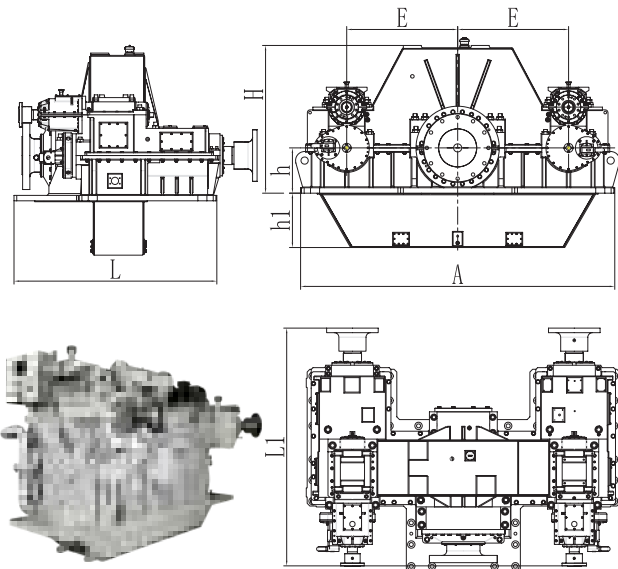
CKH系列可调桨齿轮箱外形尺寸

CKH Series Non-reversible Gearbox Dimension

型号 Model	尺寸 Dimension								最大参考推力 Max thrust (KN)	重量 Weight (t)
	A1	A4	B1	B2	H1	H2	H3	H4		
CKH440	1500	1550	1150	910	1000	250	440	300	250	2.6~2.9
CKH500	1700	1750	1350	1050	1100	250	500	350	330	3.8~4.2
CKH550	1800	1820	1500	1150	1150	350	550	350	430	4.7~5.1
CKH600	1900	1920	1550	1200	1250	350	600	400	510	5.9~6.7
CKH630	2050	2050	1600	1250	1350	350	630	400	540	6.8~7.6
CKH710	2415	2200	1900	1550	1600	450	710	450	670	11.3~11.9
CKH750	2600	2350	2000	1650	1650	450	750	450	710	12.8~13.2
CKH800	2850	2600	2050	1700	1650	450	800	500	840	14.6~15.4
CKH850	3160	2880	2150	1800	1700	450	850	500	890	16.9~17.9
CKH900	3200	2950	2250	1850	1850	450	900	550	970	19.5~19.9
CKH950	3230	2960	2350	2050	1950	480	950	550	1050	20.1~21.9
CKH1000	3250	3000	2550	2150	2000	500	1000	550	1200	22.3~23.4
CKH1120	3300	3050	2800	2400	2200	550	1120	600	1500	29.5~30.8
CKH1250	3400	3150	3050	2650	2400	650	1250	600	1850	39.5~40.6
CKV1400	3480	3250	3500	3150	2750	850	1400	700	1950	47.5~50.8
CKV1550	3600	3300	3800	3350	2900	940	1550	760	2150	61~65
CKV1720	3720	3350	4100	3600	3200	1050	1720	850	2250	72~76
CKV1850	3850	3400	4500	3950	3500	1200	1850	900	2700	83~88
CKV2000	4000	3450	4950	4350	3800	1250	2000	1000	3150	99~103
CKH600B	1670	1550	1600	1250	1250	300	600	350	510	3.8~4.4
CKH670B	1800	1820	1750	1400	1300	350	670	350	600	4.9~5.5
CKH710B	1900	1920	1850	1450	1450	350	710	400	670	6.8~7.5
CKH750B	2050	2050	1950	1550	1550	450	750	400	710	7.6~8.6
CKH800B	2100	2100	2050	1650	1650	550	800	400	840	8.8~9.8
CKH850B	2150	2150	2150	1700	1800	600	850	400	890	10.8~11.1
CKH900B	2415	2200	2250	1900	1800	600	900	450	970	12.1~12.5
CKH950B	2600	2350	2400	2050	2050	650	950	450	1050	13.9~14.6
CKH000B	2850	2600	2500	2150	2100	650	1000	500	1200	15.8~16.5
CKH1060B	3160	2880	2600	2250	2100	650	1060	500	1350	18.2~19.4
CKH1120B	3200	2950	2750	2350	2300	700	1120	550	1500	20.9~22.5
CKH1250B	3250	3000	3050	2650	2450	700	1250	550	1850	25.0~27.1
CKH1400B	3300	3050	3450	3050	2800	850	1400	600	2000	35.2~38.6
CKH1550B	3400	3150	3750	3250	3000	950	1550	600	2150	45.7~50.5
CKV1720B	3480	3250	4050	3550	3250	1150	1720	750	2250	60~67
CKV1850B	3600	3300	4400	3900	3550	1250	1850	850	2700	76~80
CKV2000B	3720	3350	4900	4300	3850	1350	2000	950	3150	89~95

CKTS系列可调桨齿轮箱外形尺寸

CKTS Series Non-reversible Gearbox Dimension

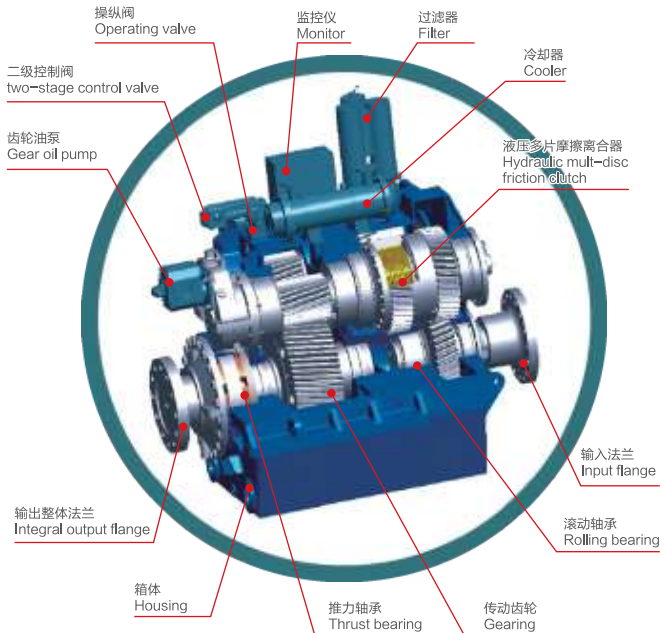


型号 Model	尺寸 Dimension							
	A	B	E	L	L1	H	h	h1
CKTS1000	3100	900	1000	2330	2500	1925	450	500
CKTS1120	3400	980	1120	2450	2650	2130	500	580
CKTS1250	3800	1060	1250	2585	2750	2370	500	700
CKTS1400	4200	1160	1400	2715	2900	2650	600	730
CKTS1500	4460	1260	1500	2875	3050	2840	600	820
CKTS1600	4800	1320	1600	3010	3200	3015	700	870
CKTS1700	5000	1380	1700	3170	3350	3190	700	900
CKTS1875	5450	1500	1875	3280	3400	3510	800	960
CKTS2050	6050	1620	2050	3460	3600	3870	850	1120

CG系列固定桨齿轮箱

CG Series Reversible Gearbox

输入转速(Nominal input speed): 150 ~ 1800rpm
 减速比(Reduction ratio): 2:1 ~ 7:1
 额定传递能力(Rating transmission capacity): 0.290~34.828KW/rpm



CG系列齿轮箱具有倒顺、离合与减速功能，并有CGC、CGS、CGD、CGH、CGL和CGK6种结构，体积小，结构紧凑，便于机舱的布置。

With the functions of forward/reverse shifting, clutch engagement and speed reduction, CG series gearbox are available in six structural variant: CGC, CGS, CGD, CGH, CGL and CGK. Characterized by their compact size and streamlined design, these gearboxes facilitate efficient engine room layout and installation.



CGC系列
CGC series



CGS系列
CGS series

CG系列固定桨齿轮箱选型表
CG Series Reversible Gearbox Selection Table

型 号 Model	输入转速 (rpm)	减速比 (i)	传递能力 (kW/rpm)	推力 (kN)	净重 (Kg)
CGC28.30 CGL28.30	400~900	2.06	0.865	80	1230 1070
	400~1100	2.51	0.711		
	400~1350	3.08	0.578		
	400~1570	3.54	0.504		
	400~1800	4.05	0.440		
	400~1800	4.54	0.393		
	400~1800	5.09	0.350		
	400~1800	5.59	0.319		
	400~1800	6.14	0.290		
CGC30.32 CGL30.32	400~900	2.03	1.122	100	1460 1240
	400~1150	2.55	0.894		
	400~1350	3.04	0.750		
	400~1580	3.52	0.647		
	400~1800	4.00	0.570		
	400~1800	4.55	0.501		
	400~1800	5.05	0.451		
	400~1800	5.64	0.404		
	400~180	6.05	0.376		
CGC32.35 CGL32.35	400~900	2.06	1.417	115	2400 2240
	400~1150	2.54	1.148		
	400~1350	3.02	0.965		
	400~1580	3.58	0.816		
	400~1800	4.05	0.720		
	400~1800	4.59	0.635		
	400~1800	5.09	0.573		
	400~1800	5.57	0.523		
	400~1800	6.08	0.48		
CGC36.39 CGL36.39	400~900	1.97	1.920	140	3200 2700
	400~1150	2.45	1.546		
	400~1350	2.98	1.272		
	400~1600	3.47	1.090		
	400~1800	3.95	0.960		
	400~1800	4.40	0.862		
	400~1800	5.01	0.756		
	400~1800	5.47	0.693		
	400~180	5.97	0.634		

CG系列固定桨齿轮箱选型表
CG Series Reversible Gearbox Selection Table

型 号 Model	输入转速 (rpm)	减速比 (i)	传递能力 (kW/rpm)	推力 (kN)	净重 (Kg)
CGC39.41 CGL39.41	400~800	1.98	2.585	175	3980 3550
	400~1000	2.47	2.068		
	400~1200	3.05	1.672		
	400~1400	3.48	1.467		
	400~1600	4.05	1.260		
	400~1600	4.48	1.138		
	400~1600	4.97	1.022		
	400~1600	5.51	0.927		
	400~1600	5.99	0.852		
CGC42.45 CGL42.45	400~800	2.00	3.280	220	4700 4190
	400~1000	2.55	2.577		
	400~1200	3.025	2.169		
	400~1400	3.58	1.832		
	400~1600	4.00	1.640		
	400~1600	4.47	1.467		
	400~1600	5.00	1.312		
	400~1600	5.60	1.171		
	400~1600	5.93	1.106		
CGC45.49 CGL45.49	400~700	1.97	4.240	270	6000 5300
	400~875	2.47	3.392		
	400~1030	2.89	2.890		
	400~1230	3.47	2.414		
	400~1400	3.95	2.120		
	400~1400	4.37	1.913		
	400~1400	4.85	1.725		
	400~1400	5.50	1.520		
	400~1400	5.98	1.398		
CGC49.54 CGL49.54	400~600	1.94	5.500	290	7900 7000
	400~750	2.46	4.540		
	400~900	2.92	3.827		
	400~1050	3.45	3.240		
	400~1200	3.95	2.825		
	400~1200	4.53	2.462		
	400~1200	4.91	2.273		
	400~1200	5.48	2.036		
	400~1200	6.00	1.861		

CG系列固定桨齿轮箱选型表
CG Series Reversible Gearbox Selection Table

型 号 Model	输入转速 (rpm)	减速比 (i)	传递能力 (kW/rpm)	推力 (kN)	净重 (Kg)
CGC52.59 CGL52.59	400~600	1.93	7.438	360	10500 8900
	400~750	2.48	5.797		
	400~900	2.96	4.853		
	400~1050	3.53	4.081		
	400~1200	3.95	3.640		
	400~1200	4.43	3.246		
	400~1200	4.97	2.893		
	400~1200	5.40	2.663		
	400~1200	5.93	2.426		
CGC52.62 CGL52.62	400~565	2.02	7.756	360	11300 9800
	400~690	2.46	6.353		
	400~845	3.02	5.180		
	400~960	3.45	4.534		
	400~1135	4.06	3.852		
	400~1200	4.52	3.458		
	400~1200	5.04	3.102		
	400~1200	4.45	2.867		
	400~1200	5.95	2.631		
CGC60.66 CGL60.66	400~600	2.01	9.913	540	13500 11000
	400~750	2.50	7.982		
	400~900	3.07	6.492		
	400~1050	3.57	5.581		
	400~1200	4.05	4.923		
	400~1200	4.48	4.448		
	400~1200	5.08	3.927		
	400~1200	5.51	3.622		
	400~1200	6.12	3.261		
CGC60.74 CGL60.74	400~530	1.99	9.913	660	17000 15700
	400~670	2.53	8.364		
	400~815	3.06	7.434		
	400~935	3.51	6.862		
	400~1070	4.02	6.372		
	400~1200	4.50	5.050		
	400~1200	5.04	4.512		
	400~1200	5.51	4.122		
	400~1200	6.04	3.762		
	400~1200	6.50	3.496		
	400~1200	6.94	3.375		

CG系列固定桨齿轮箱选型表
CG Series Reversible Gearbox Selection Table

型 号 Model	输入转速 (rpm)	减速比 (i)	传递能力 (kW/rpm)	推力 (kN)	净重 (Kg)
CGC63.71 CGL63.71	300~500	2.02	12.228	710	17500 16000
	300~625	2.53	9.794		
	300~750	3.01	8.117		
	300~875	3.55	7.135		
	300~1000	4.11	6.008		
	300~1000	4.55	5.411		
	300~1000	5.04	4.888		
	300~1000	5.47	4.496		
	300~1000	5.95	4.137		
CGC66.75 CGL66.75	300~450	2.05	13.742	730	19000 16500
	300~600	2.55	11.148		
	300~700	2.99	9.529		
	300~800	3.48	8.173		
	300~900	3.95	7.188		
	300~950	4.49	6.316		
	300~950	4.97	5.672		
	300~950	5.51	5.088		
	300~950	6.12	4.650		
CGC70.76 CGL70.76	300~450	2.05	15.643	750	22000 20500
	300~600	2.53	12.673		
	300~700	3.09	10.364		
	300~800	3.58	8.943		
	300~900	3.95	8.111		
	300~950	4.57	7.005		
	300~950	5.05	6.348		
	300~950	5.58	5.745		
	300~950	6.17	5.191		
CGC70.82 CGL70.82	300~450	1.98	17.446	780	23000 21000
	300~600	2.50	14.053		
	300~700	2.96	11.533		
	300~800	3.49	10.061		
	300~900	3.95	8.900		
	300~950	4.47	7.873		
	300~950	4.94	7.120		
	300~950	5.49	6.470		
	300~950	5.98	5.930		

CG系列固定桨齿轮箱选型表
CG Series Reversible Gearbox Selection Table

型 号 Model	输入转速 (rpm)	减速比 (i)	传递能力 (kW/rpm)	推力 (kN)	净重 (Kg)
CGC70.85 CGL70.85	300~400	1.98	19.200	800	25000 23000
	300~480	2.45	15.484		
	300~600	3.01	12.617		
	300~700	3.49	10.863		
	300~800	3.95	9.600		
	300~850	4.47	8.484		
	300~850	5.05	7.513		
	300~900	5.58	6.808		
	300~900	6.05	6.282		
CGC75.90 CGL75.90	200~465	2.01	22.423	980	27000 24500
	200~580	2.51	17.966		
	200~695	3.01	15.000		
	200~815	3.51	12.833		
	200~925	4.00	11.282		
	200~1025	4.43	10.175		
	200~1100	5.04	8.953		
	200~1100	5.47	8.250		
	200~1100	6.02	7.489		
CGC78.88 CGL78.88	200~310	2.04	23.372	1000	35000 32000
	200~390	2.49	19.099		
	200~470	2.98	15.983		
	200~570	3.48	13.708		
	200~650	3.95	12.063		
	200~680	4.49	10.615		
	200~720	5.01	9.511		
	200~750	5.47	8.712		
	200~800	6.09	7.830		
CGC80.95 CGL80.95	200~350	1.98	27.985	1200	40000 37000
	200~440	2.49	22.166		
	200~520	2.94	18.808		
	200~610	3.46	15.966		
	200~700	3.95	13.897		
	200~800	4.45	12.250		
	200~800	5.02	10.891		
	200~800	5.53	9.864		
	200~800	5.93	9.235		

CG系列固定桨齿轮箱选型表
CG Series Reversible Gearbox Selection Table

型 号 Model	输入转速 (rpm)	减速比 (i)	传递能力 (kW/rpm)	推力 (kN)	净重 (Kg)
CGC85.100 CGL85.100	150~270	1.98	34.828	1400	46000 42000
	200~340	2.55	27.428		
	200~410	2.98	23.445		
	200~480	3.48	20.108		
	200~560	3.95	17.433		
	200~635	4.48	15.605		
	200~700	4.97	14.091		
	200~780	5.51	12.708		
	200~845	5.99	11.683		
	200~910	6.45	10.845		
	200~1000	7.05	9.919		
CGS28.30 CGK28.30 CGH28.30 CGD28.30	400~1800	2.00	0.44	80	1230
		2.56			1130
		3.00			1130
		3.57			1130
		4.05			1130
CGS30.32 CGK30.32 CGH30.32 CGD30.32	400~1800	1.97	0.57	100	1460
		2.52			1300
		2.96			1350
		3.52			1350
		4.00			1350
CGS32.35 CGK32.35 CGH32.35 CGD32.35	400~1800	2.00	0.72	120	2250
		2.56			2080
		3.00			2080
		3.57			2080
		4.05			2080
CGS36.39 CGK36.39 CGH36.39 CGD36.39	400~1800	2.03	0.96	140	2450
		2.48			2250
		2.92			2250
		3.48			2250
		3.95			2250
CGS39.41 CGK39.41 CGH39.41 CGD39.41	400~1600	2.00	1.29	175	3230
		2.54			2960
		2.96			2960
		3.50			2960
		3.95			2960

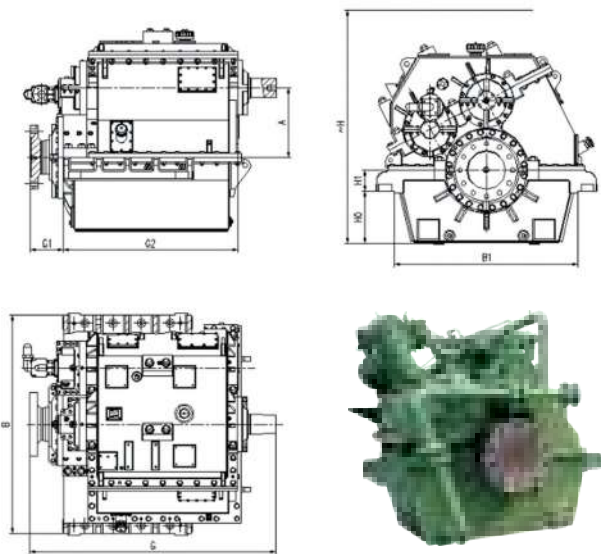
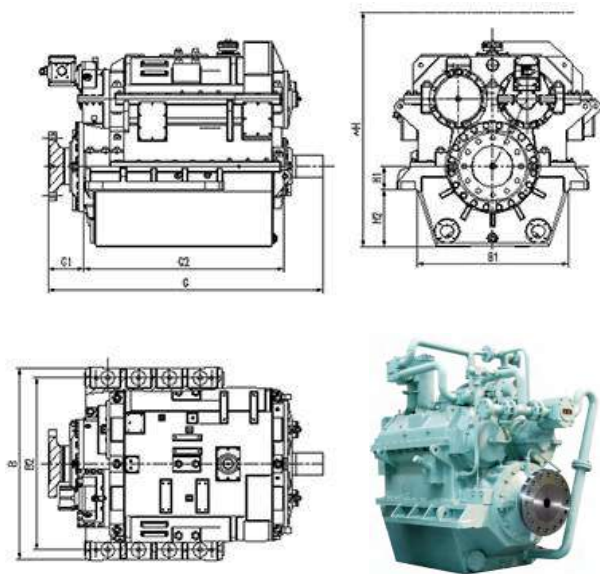
CG系列固定桨齿轮箱选型表
CG Series Reversible Gearbox Selection Table

型 号 Model	输入转速 (rpm)	减速比 (i)	传递能力 (kW/rpm)	推力 (kN)	净重 (Kg)
CGS42.45 CGK42.45 CGH42.45 CGD42.45	400-1600	1.97 2.55 2.93 3.58 4.00	1.64	220	3800 3630 3630 3630
CGS45.49 CGK45.49 CGH45.49 CGD45.49	400-1400	2.03 2.48 3.09 3.48 3.95	2.12	270	6000 5560 5560 5560
CGS49.54 CGK49.54 CGH49.54 CGD49.54	400-1200	1.97 2.47 3.00 3.52 3.95	2.82	290	7900 7310 7310 7310
CGS49.61	400-1200	4.45 5.06 5.26 5.50	2.82 2.72 2.53 2.47	290	8500
CGS52.59 CGK52.59 CGH52.59 CGD52.59	400-1200	1.97 2.47 3.00 3.52 3.95	3.64	360	9500 8800 8800 8800
CGS60.66 CGK60.66 CGH60.66 CGD60.66	400-1200	2.00 2.54 2.96 3.50 3.95	5.05	540	13500 12500 12500 12500
CGS60.85	400-1200	4.52 5.04 5.56 5.91 6.55	5.05 5.05 5.05 4.25 3.54	700	17500

CG系列固定桨齿轮箱选型表
CG Series Reversible Gearbox Selection Table

型 号 Model	输入转速 (rpm)	减速比 (i)	传递能力 (kW/rpm)	推力 (kN)	净重 (Kg)
CGS63.71 CGK63.71 CGH63.71 CGD63.71	400-1000	2.03 2.50 2.96 3.50 4.11	6.00	710	17000 16000 17000 17000
CGS66.75 CGK66.75 CGH66.75 CGD66.75	300-950	1.97 2.47 3.00 3.52 3.95	7.18	730	17500 16500 16500 16500
CGS70.76 CGK70.76 CGH70.76 CGD70.76	300-900	1.94 2.54 3.00 3.50 3.95	8.11	750	20000 19000 19000 19000

- ◎ 选型说明:
CGC系列: 2级减速, 输入和输出同中心, 运转方向相同, 具有倒顺离合减速功能;
CGL系列: 2级减速, 输入和输出同中心, 运转方向相同, 具有离合减速功能;
CGS系列: 1级减速, 输入和输出为垂直异心, 运转方向相反, 具有倒顺离合减速功能;
CGK系列: 1级减速, 输入和输出为垂直异心, 运转方向相反, 具有离合减速功能;
CGH系列: 1级减速, 输入和输出为水平异心, 运转方向相反, 具有倒顺离合减速功能;
CGD系列: 1级减速, 输入和输出为角向异中心, 运转方向相反, 具有倒顺离合减速功能;
- ◎ Explanation on gearbox selection:
CGC design: CGC series marine gearbox has a primary stage, a reduction stage and a reverse stage. Input and output shafts are coaxial and rotate in same direction.
CGL design: CGL series marine gearbox has a primary stage and a reduction stage. Input and output shafts are coaxial and have the same direction of rotation.
CGS design: CGS series has no primary stage but a reduction and reverse stage. Input and output shafts are vertically off-set and have opposite direction of rotation.
CGK design: CGK series marine gearbox has no reverse function and is of single stage reduction; input and output shafts are vertically off-set and have opposite direction of rotation.
CGH design: CGH series marine gearbox has a reduction and a reverse stage but no primary stage. Input and output shafts are horizontally off-set and have opposite direction of rotation.
CGD design: CGD series marine gearbox has a reduction and a reverse stage but no primary stage. Input and output are diagonally off-set and have opposite direction of rotation.

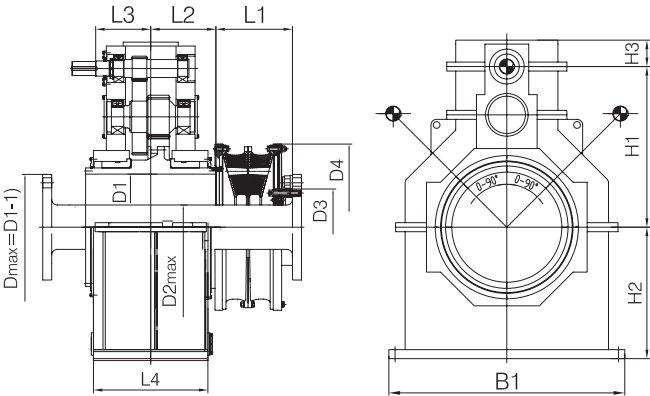


型号 Model	尺寸 Dimensions (mm)								
	B1	B2	B	G	G1	G2	H0	H1	H
CGC28.30	560	720	800	1036	126	63	250	100	1530
CGC30.32	610	780	860	1198	125	68	260	100	1578
CGC32.35	640	820	920	1238	121	72	260	120	1596
CGC36.39	780	960	1060	1326	149	84	300	120	1695
CGC39.41	770	910	1010	1453	145	80	320	130	1760
CGC42.45	905	1080	1180	1486	132	66	335	140	1835
CGC45.49	910	1110	1230	1703	194	93	410	150	1975
CGC49.54	1010	1230	1340	1783	186	114	430	170	2085
CGC52.59	1100	1290	1400	2207	238	321	460	180	2290
CGC60.66	1320	1500	1660	2247	315	132	500	200	2530
CGC66.75	1440	1650	1800	2750	322	2050	530	260	2571
CGC70.76	1590	1790	1950	2884	298	2151	585	220	2695
CGC70.85	1730	1920	2090	3200	348	2360	650	250	2900
CGC80.95	1890	2090	2300	3500	325	2625	700	300	3250

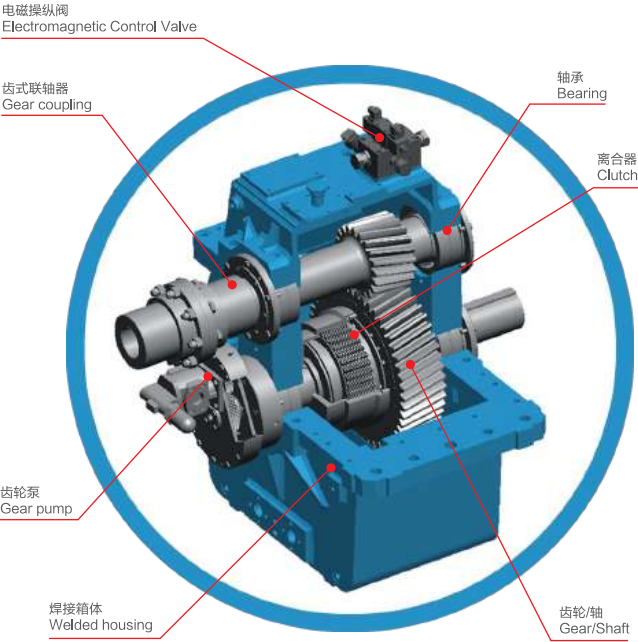
型号 Model	尺寸 Dimensions (mm)								
	A	B1	B	G	G1	G2	H0	H1	H
CGS28.30	300	810	1050	970	126	657	250	100	1350
CGS30.32	320	860	1110	1142	125	792	260	100	1400
CGS32.35	350	920	1200	1208	121	843	260	120	1400
CGS36.39	390	1030	1330	1260	149	955	300	120	1510
CGS39.41	410	1160	1400	1393	145	974	320	130	1540
CGS42.45	455	1185	1460	1426	132	1011	335	140	1650
CGS45.49	490	1270	1640	1599	190	1093	410	150	1760
CGS49.54	540	1420	1750	1689	186	1205	470	170	1780
CGS52.59	590	1540	1870	2066	463	1270	500	180	2550
CGS60.66	660	1740	2080	2365	310	1665	500	200	2500
CGS66.75	750	1880	2230	2610	333	1869	540	220	2677
CGS70.76	765	2100	2460	2740	333	1980	585	220	2830

隧道式齿轮箱
配低速机，并带有PTO和PTH功能。

Tunnel Gearbox
Equipped with a low-speed engine, and featuring PTO (Power Take-Off) and PTH (Power Take-Home) functions.

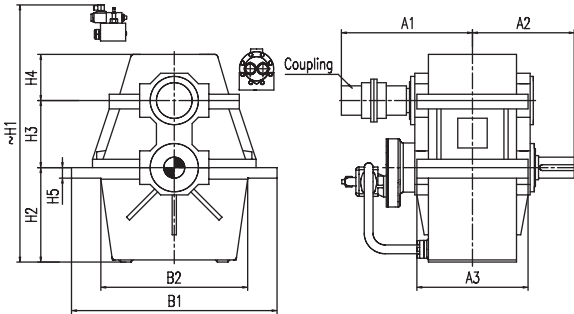
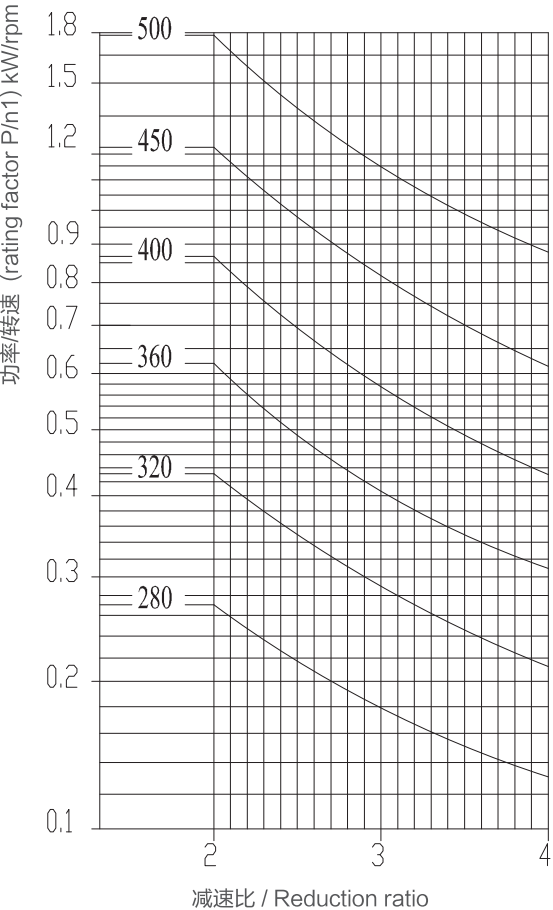


型 号 Model	传递能力 Rating kW/rpm	尺寸 Dimensions (mm)												重量 Weight Kg
		轴/联轴器 Shaft / Coupling				输入轴/ 输出轴 Input/Output Shaft				箱体 Housing				
		D1	D2	D3	D4	H1	L1	L2	L3	B1	H2	H3	L4	
SDV1120-600	10.5	610	430	663	1175	1120	500	500	440	1600	1000	550	840	6000
SDV1120-750		760												6400
SDV1250-600	13.1	610	465	719	1255	1250	530	500	440	1800	1000	600	840	6700
SDV1250-750		760												7200
SDV1250-900		910												7600
SDV1400-600	20.9	610	535	799	1480	1400	665	585	530	1950	1250	650	980	9700
SDV1400-750		760												10200
SDV1400-900		910												10700
SDV1600-750	26.1	760	580	854	1585	1600	700	585	530	2150	1250	700	980	11500
SDV1600-900		910												12000
SDV1600-1060		1070												12600



FPV/FPH系列消防泵齿轮箱在传递工作扭矩的同时，具有增速及离合的作用，广泛应用于具有消防功能的各种船舶。齿轮，齿轮轴选用优质合金钢材料，滚动轴承设计，箱体有限元分析加强设计，离合器采用电磁阀实现平滑接合，并设置符合船级社要求的报警与监测传感器。

FPV/FPH series FI-FI pump gearbox serves dual functions of torque transmission and speed increasing while incorporating clutch mechanism, making it widely applicable to various marine vessels with FI-FI system. Gears and shafts are made of premium alloy steel, and the roller bearing and housing are designed with FMEA analysis. The clutch is controlled by solenoid valve to realize smooth engagement. Alarming and monitoring sensors are included as per classification requirements.

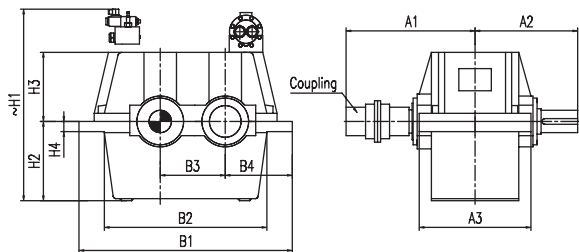


型 号 Model	尺 寸 Dimensions (mm)										联轴器型号 Coupling model	重量 Weight (t)
	A1	A2	A3	B1	B2	H1	H2	H3	H4	H5		
FPV280	555	445	510	920	640	1200	420	280	200	45	G II GL6	0.9
FPV320	625	485	530	980	700	1280	450	320	210	50	G II GL7	1.1
FPV360	690	530	580	1040	760	1360	480	360	220	55	G II GL8	1.4
FPV400	730	560	620	1100	820	1480	510	400	220	60	G II GL9	1.7
FPV450	810	630	690	1170	890	1650	550	450	230	65	G II GL10	2.3
FPV500	935	705	780	1240	960	1820	600	500	240	70	G II GL11	2.9



注：表中转速n1为消防泵转速（即齿轮箱输出转速）。
Note: The speed n1 is FI-FI pump speed (i.e. gearbox output speed).

FPH系列消防泵齿轮箱外形尺寸
FPH Series FI-FI Pump Gearbox Dimensions



型号 Model	尺寸 Dimensions (mm)											联轴器型号 Coupling model	重量 Weight (t)
	A1	A2	A3	B1	B2	B3	B4	H1	H2	H3	H4		
FPH280	555	445	510	1060	780	280	350	960	340	290	45	G II GL6	0.9
FPH320	625	485	530	1120	840	320	355	1080	380	320	50	G II GL7	1.1
FPH360	690	530	580	1220	940	360	375	1100	420	350	55	G II GL8	1.4
FPH400	730	560	620	1310	1030	400	395	1220	460	380	60	G II GL9	1.7
FPH450	810	630	690	1450	1150	450	435	1370	500	420	65	G II GL10	2.3
FPH500	935	705	780	1590	1290	500	495	1530	560	460	70	G II GL11	2.9



PT系列平台升降齿轮箱
PT Series Jacking Gearbox

输入转速(Nominal input speed): 100~1800rpm
减速比(Reduction ratio): 100:1~8000:1
额定升降载荷 (Normal Jacking load):80~450MT/Pinion



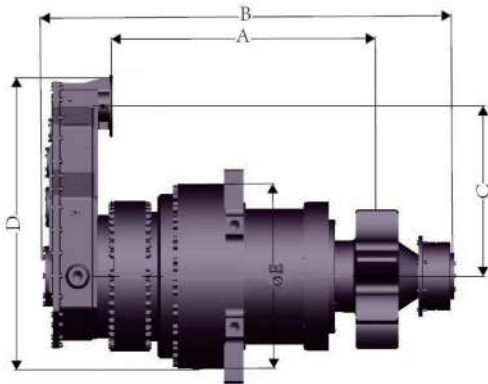
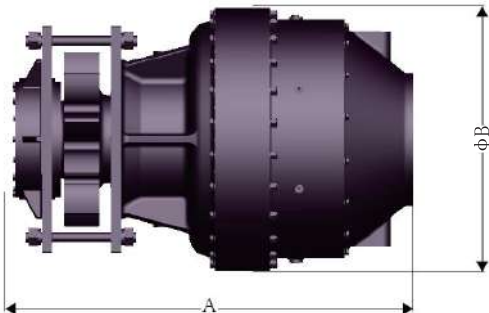
PT系列平台升降齿轮箱，是针对海工行业的特殊要求专门定制设计的，可以采用电机或液压马达驱动。齿轮箱的输入输出结构和速比可以根据项目要求进行单独设计。

南京高精船用设备有限公司能够为海洋平台提供单台额定承载能力80MT~400MT的平台升降齿轮箱产品。并提供ABS、DNV GL、CCS等船级社认证证书。

PT Series platform jacking gearboxes are custom-designed for the special requirements of offshore engineering industry. The gearbox can be driven by electric motor or hydraulic motor, with input and output configurations and speed ratio adaptable to project-specific requests. NGC Marine supplies platform jacking gearboxes with single-unit rated load capacities ranging from 80MT to 400MT, accompanied by certifications from major classification societies including ABS, DNV GL, CCS, etc.

PT系列平台升降齿轮箱外形尺寸
PT Series Jacking Gearbox Dimension

PT系列平台升降齿轮箱外形尺寸
PT Series Jacking Gearbox Dimension



型 号 Model	额定载荷 Normal Jacking	预压载荷 Normal Holding	风暴载荷 Storm Holding	A (mm)	B (mm)
PT082	82MT	120MT	170MT	1170	630
PT100	100MT	150MT	210MT	1445	950

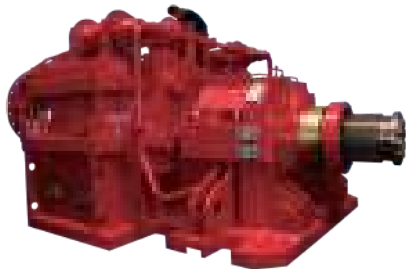
型 号 Model	额定载荷 Normal Jacking	预压载荷 Normal Holding	风暴载荷 Storm Holding	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
PT200	200MT	300MT	420MT	1720	2640	1110	1970	1200
PT250	250MT	375MT	525MT	1845	2680	1100	1900	1200
PT300	300MT	450MT	630MT	1780	2680	1160	2100	1300
PT350	350MT	525MT	670MT	1800	2700	1200	2160	1450
PT400	400MT	560MT	720MT	1810	2730	1210	2220	1500
PT450	450MT	630MT	840MT	1840	2780	1250	2260	1580



NGC Marine挖泥船齿轮箱品种多样, 有水下绞刀驱动齿轮箱、舱内泥泵和下水泥泵齿轮箱、高压冲水泵齿轮箱和下水斗轮齿轮箱等; 可以满足大型绞吸式挖泥船、耙吸式和斗轮式挖泥船等不同船型; 具有结构布局合理、承载能力大、密封性能好和可靠性高等特点。

NGC Marine supplies a comprehensive range of dredger gearboxes, including submersible cutter gearbox, cabin dredge pump gearbox, submersible dredge pump gearbox; high-pressure jet water pump gearbox and submersible bucket wheel gearbox, etc. which can be applicable to various dredger types such as large cutter dredgers, hopper dredgers and bucket wheel dredgers. With reasonable structure, NGC dredger gearbox features optimized structural layout, high load-bearing capacity, enhanced sealing performance and high reliability.

水下绞刀齿轮箱 Submersible Cutter Gearbox



特点: 防沙和密封性能极高、低转速、超大扭矩、正反大拉力、深水作业(水深35m)。

Features: excellent sealing performance, low speed, extreme high torque, big axial force at both directions, deep water operation (water depth: 35m)



舱内泥泵齿轮箱 Dredge Pump Gearbox in Cabin

特点: 泥沙和水的密度变化大、不同转速切换、超大扭矩、大拉力、隔舱传递。

Features: big variation of sand and water density, switch between different speed, extreme high torque, big axial force, compartment transmission.



水下泥泵齿轮箱 Submersible Dredge Pump Gearbox

特点: 防沙和密封性能极高、超大扭矩及拉力、深水作业(水深30m)。

Features: excellent sealing performance, extreme high torque, deep water operation (water depth: 30m)



高压冲水泵齿轮箱 High-pressure Jet Water Pump Gearbox

特点：大扭矩、隔舱传递。
Features: high torque, compartment transmission.



液压泵站齿轮箱 Hydraulic power pack gearbox

特点：同时驱动多个泵、输出高转速。
Features: driving multiple pumps simultaneously, high output speed.



枢轴齿轮箱 Pivot shaft gearbox

特点：密封性极高、超大扭矩、输出随桥架自由转动。
Features: good sealing performance, extreme high torque, output side rotates with the bridge rack.



斗轮齿轮箱 Bucket wheel gearbox

特点：防沙和密封性极高、低转速、超大扭矩、深水作业(水深35m)。
Features: excellent sealing performance, low rpm, extreme high torque, deep water operation(water depth 35m)



广泛应用于输送机械（皮带输送机），起重机械（回转、行走、起升等机构），造纸，水泥，采矿，搅拌机械。

Widely used in conveying machinery (belt conveyor, etc), hoisting machinery (Slewing, Travelling, hoisting, etc), papermaking, cement, mining, mixing machine.



★性能特点：

- ◎从箱体至内部齿轮，采用完全模块化结构设计；
- ◎传动功率增大，运转可靠性提高；
- ◎采用性能优异的非接触式抗磨迷宫式密封装置；
- ◎可以提供卧式安装和立式安装；也提供其他安装形式；
- ◎采用大风扇和新型的导流风扇罩

★Performance characteristics:

- ◎Modular structural design from the housing to internal gear;
- ◎Higher operational reliability combined with increased power capacity;
- ◎High-performance non-contacting wear-resistant labyrinth seals;
- ◎Available in horizontal, vertical, and other mounting configurations;
- ◎Equipped with large cooling fans and optimized fan shrouds.

QJ、PE、ZQA等系列起重机齿轮箱
QJ, PE and ZQA series hoist gearbox



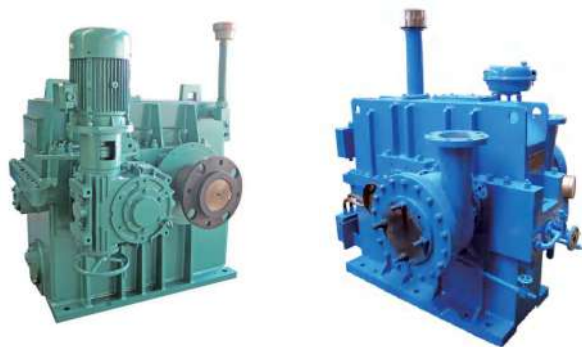
港口机械齿轮箱
Port machinery gearbox

起升、回转、行走齿轮箱
Hoisting gearboxes, Slewing gearboxes, Travelling gearboxes.



高速齿轮箱
High speed gearbox

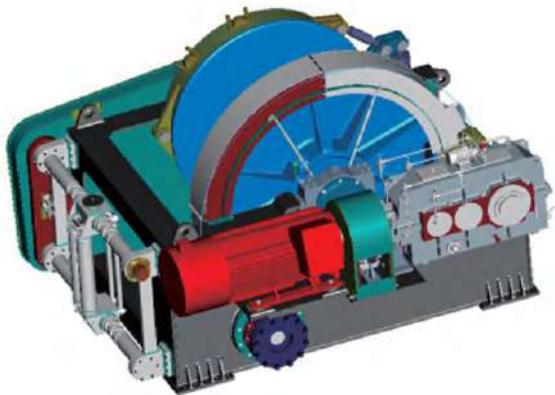
高转速、高精度、高性能最高转速67000rpm。
High speed, high precision, high performance. Max speed: 67000rpm



起锚系统绞盘齿轮箱用于绞车、拖缆机和锚作机械等
The Anchor Capstan Gearbox is designed for winches, towing winches, and anchor handling equipment.



绞车用内藏式行星齿轮箱
Built-in planetary gearbox for winch drive



绞车、拖缆机、锚作机械及齿轮箱
Winch, towing machine, anchoring machinery and gearbox

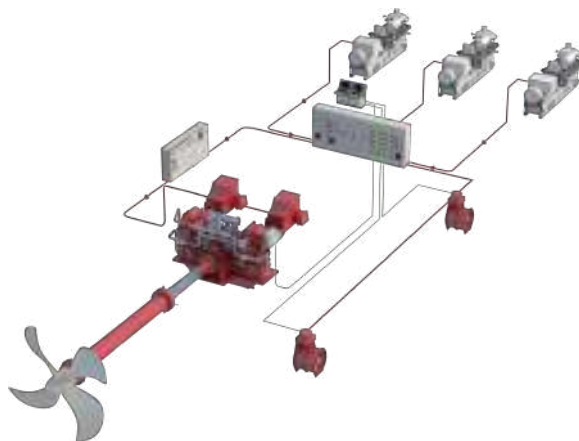


南京高精船用设备有限公司公司不仅可提供各种推进和传动设备，也可为国内外高技术船舶和海工装备提供高端、绿色和智能的动力系统集成解决方案和服务。其中集成解决方案和服务包括但不限于以下部分：

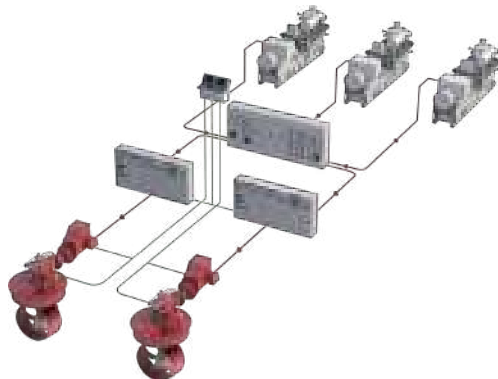
Nanjing High Accurate Marine Equipment Co., Ltd. (NGC Marine) not only provides various propulsion and transmission equipment but also offers high-end, green, and intelligent integrated power system solutions and services for advanced vessels and offshore engineering equipment worldwide. NGC Marine-supplied integrated solutions and services include, but are not limited to the following items:

1 电力推进系统
Electric Propulsion System

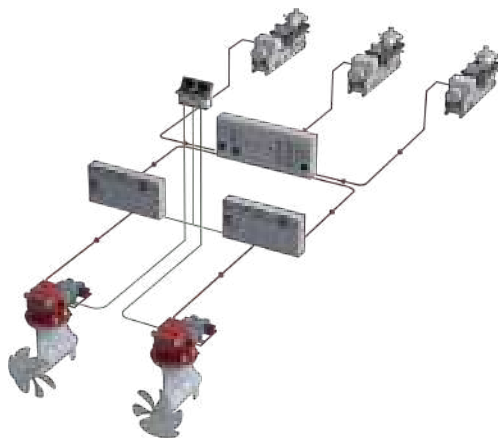
固定桨电力推进系统
Electric Fixed Pitch Propeller Propulsion System



舵桨电力推进系统
Electric Azimuth Thruster Propulsion System

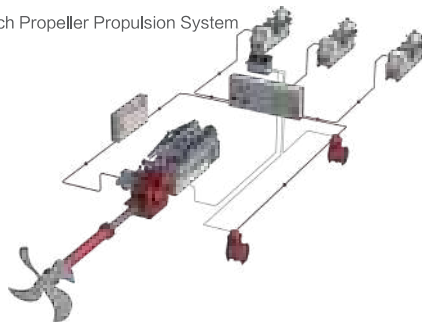


吊舱电力推进系统
Electric Pod Propulsion System

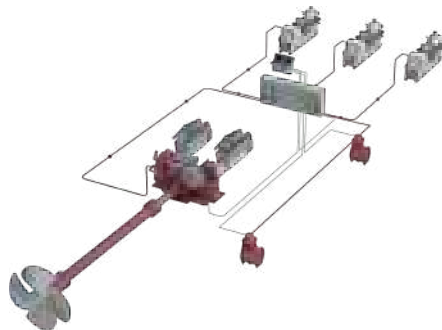


2 混合动力推进系统 Hybrid Power Propulsion System

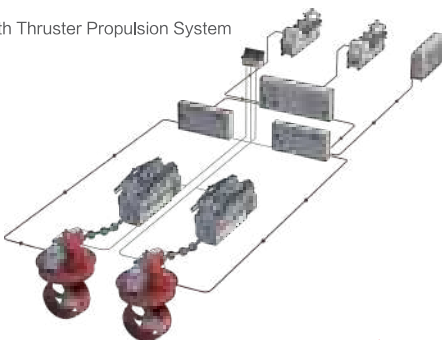
混合动力固定桨推进系统
Hybrid Power Fixed Pitch Propeller Propulsion System



混合动力可调桨推进系统
Hybrid Power Controllable Pitch Propeller Propulsion System

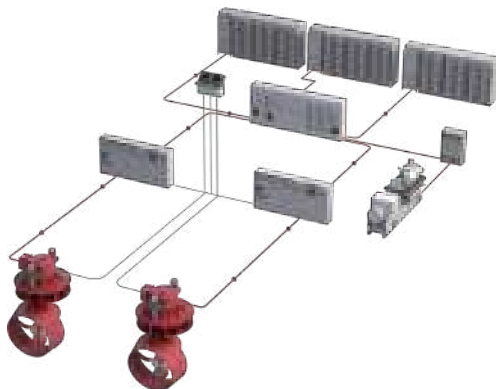


混合动力舵桨推进系统
Hybrid Power Azimuth Thruster Propulsion System

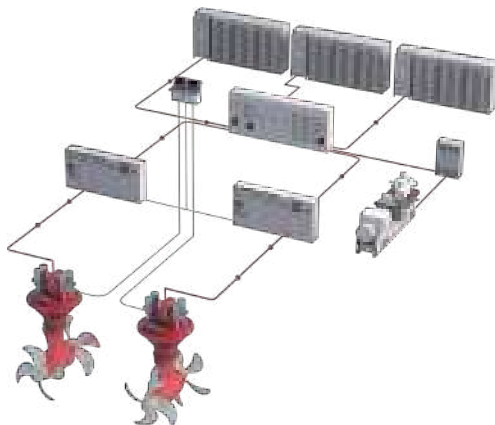


③ 新能源推进系统
New Energy Propulsion System

新能源导管舵桨推进系统
New Energy Ducted Azimuth Thruster Propulsion System

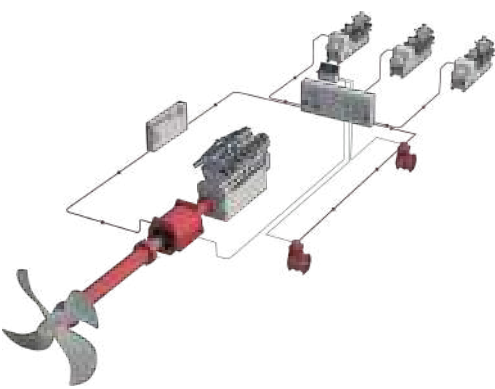


新能源对转舵桨推进系统
New Energy Contra-Rotating Azimuth Thruster Propulsion System

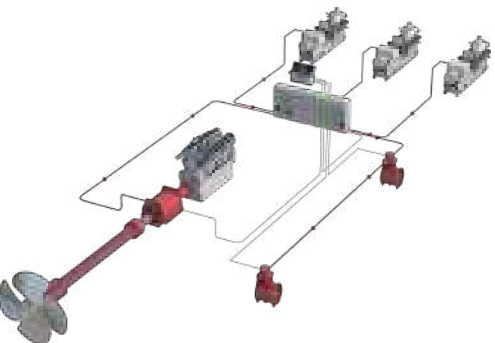


④ 含轴带的推进系统
Propulsion System with Shaft Generator

含轴带的定距桨推进系统
Fixed Pitch Propeller Propulsion System with Shaft Generator



含轴带的可调桨推进系统
Controllable Pitch Propeller Propulsion System with Shaft Generator



国家Country	公司/地址 Company/Address	联系方式 Contact
中国 China	Nanjing High Accurate Marine Equipment Co., Ltd.(NGC Marine, Headquarter) Add: Baoding Road, Science Garden, Jiangning, 211103, Nanjing, China	T: +86 25 5270 6930/F: +86 25 5270 6903
新加坡 Singapore	NGC Maine Propulsion South East Asia Pte Ltd Add: No.2 Kallang Ave CT HUB #07-21, Singapore 339407	Contact: Mr. Zhang Libin T: +6566592710/F: +6566592713 M: +65 8300 8899/+86 139 5209 7184 Email: sales@ngcmpsea.com.sg
	Viking Engineering Pte.Ltd Add: 184 Pandan Loop, Singapore 128374	Contact: Mr.Tony Wang Dong T: +65 6777 5055/M: + 65 9753 7751 Email: tony@viking.sg
香港 Hong Kong	China High Speed Transmission Equipment Group Co., Ltd. Add: Room 1302, 13th Floor, Top Glory Tower, 262 Gloucester Road, Causeway Bay, Hong Kong	Mr. Edward Lui T: +852 28918361
美国 America	NGC Transmission Equipment (America), Inc. Add: 5500 Alliance Gateway Freeway, Fort Worth, Texas 76177, USA	T: +1 817 567 7499 Email:AMRegion@NGCtransmission.com
德国 Germany	NGC Transmission Europe GmbH Add: Schifferstrasse 196, 47059 Duisburg, Germany	T: +49 203 509 600 0 F: +49 203 509 601 90
英国 UK	Stone Marine Propulsion NGC Ltd. Add: Oakwood Business Park, Stephenson Road West Clacton-on-Sea, Essex, CO15 4TL, UK	Contact: Mr.Tim Boys T: +44 (0)1255 420005 Email:sales@smpngc.com
俄罗斯 Russia	MSC LLC Add: 199226, Russian Federation, Saint-Petersburg, Morskaya emb., 15B, off. 2N	Contact: Kalashnikov Yuriy M: +7 (921) 940 1715 T: +7 (812) 622 0324
土耳其 Turkey	Pera Marine Add: KurtköyMah. Ankara Cad. No:289/21, Yelken Plaza, B Blok, Kat:2, D:1, Pendik/Istanbul,Turkey	Contact: Mr. Ali DilhanDedeoğlu T: +0090 216 706 03 06/M: +90 533 239 65 75 Email: alidedeoğlu@peramarine.com

印度尼西亚 Indonesia	PT. Powerindo Teknik Indonesia Add: Millenium Industrial Estate, Millenium 22, Blok o1 No. 3A, Tangerang 15720, Indonesia	Contact: Mr. Heng Lip Joo, Jason M +62 822 98781919 T: +62 21 599 2139 Email: dir@powerindo.asia
印度 India	Momentous Shipping Services Pvt. Ltd Add: A501, Bhumi Paradise, Sector-11, Sanpada, NaviMumbai, India	T: +918879023805 T: +919910223805
中东 The Middle East	System Dynamics Fze. Add: P.O. Box 51288, HAFZ, Sharjah, U.A.E.	Contact: Mr. Raghuvir Duggal T: +971 4 5518119 / Mobile : +971 504558404 Fax: +971 4 5518121 E-mail : info@sysdynamic.com
韩国 Korea	COSMO TECH LIMITED Add: #507 Leaders Bldg 313-3, Daecheng-ri, Jangyu-myeon, Gimhae-City, Korea	T: 82+55-333-2969 F: 82+55-311-2969
越南 Vietnam	VIET PHONG INDUSTRY SOLUTIONS Add: 15A, Nguyen Khang Road, Trung Hoa Ward, Cau Giay Dist, Ha Noi, Viet Nam	Contact: Mr. Tran Dinh Hai T : (+84) 4 3767 5862/ Mobile : (+84) 91 568 28 58 Email:haitd@vpis.vn
澳大利亚 Australian	(OPS) Oceania Power & Solution Pty Ltd Add: Unit 4, 9 Inspiration Drive, Wangara WA 6065 Western Australia	Contact: Mr. Nick Flavel M: +61 437 141 020 T: +61 8 9303 4982 Email:nick@filterdiscounters.com.au
智利 Chile	ZEUS Spa. Add: Alonso de Cordoba, 5670.of 902, Las Condes, Santiago, Chile	Contact: Mr. Julio Guevara Quinteros T: (56-2) 322 3900 Email:jguevara@somarco.cl
非洲 Africa	Stone Marine Services (Pty) Ltd, Namibia centre Add:32 Ben Amathila Avenue, P.O. Box 2923, Walvis Bay, Namibia	Tel: +264 64 279600 Fax: +264 64 279601 24 Hour Emergency Contact Namibia: +264 (0) 81 146 3086