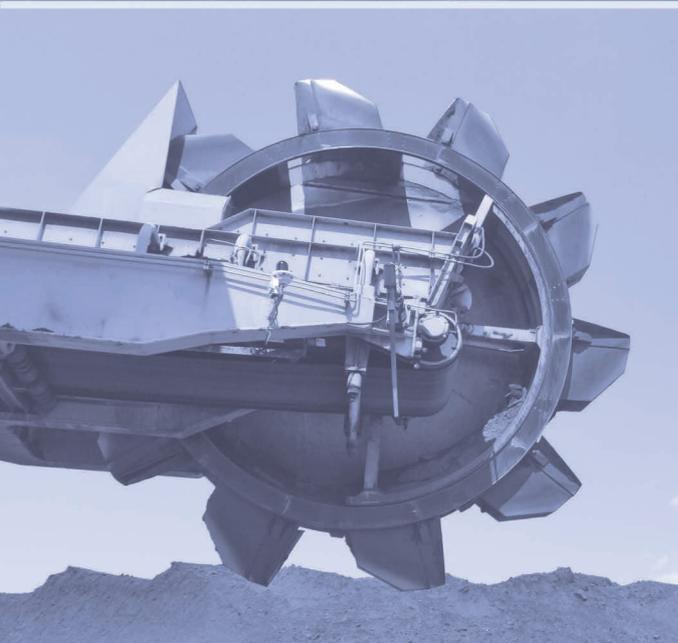
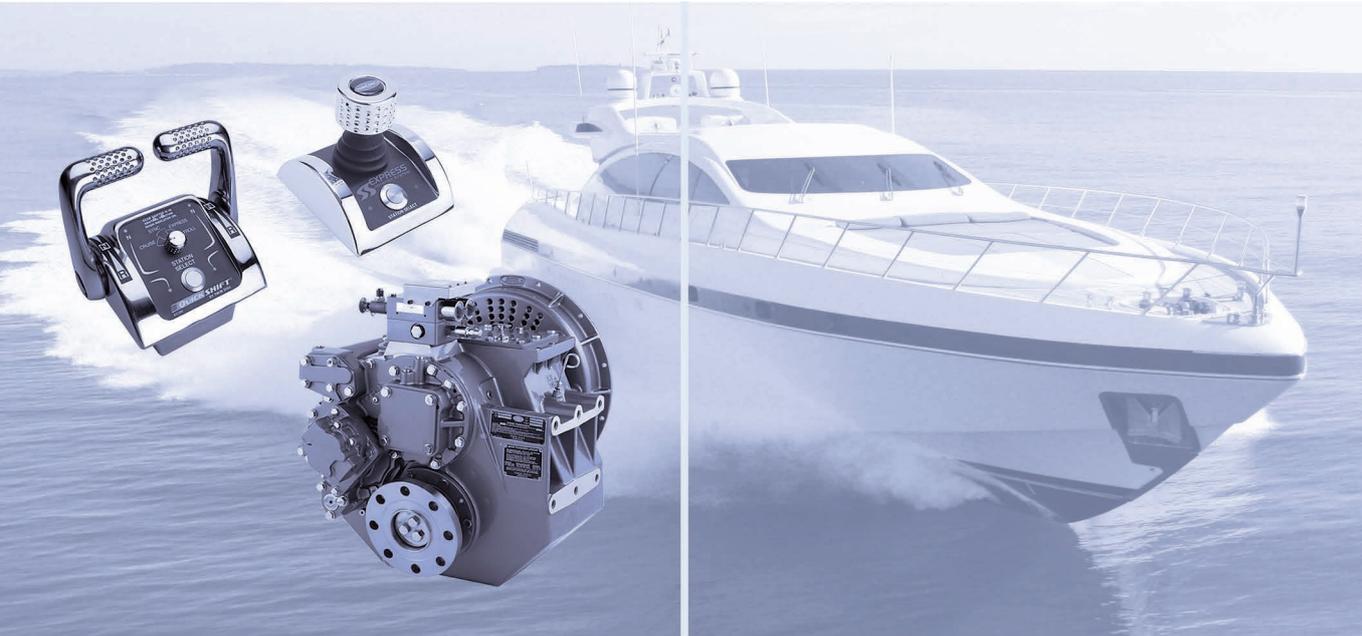




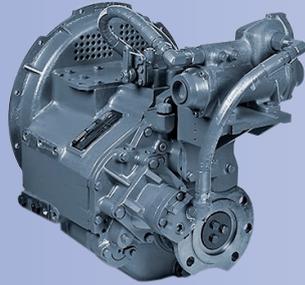
TWIN DISC

esco delivery program



MARINE REVERSE GEARS AND CONTROLS

Series MG Standard



Duty class:

Pleasure craft	17 kW–2856 kW
Light duty	36 kW–2743 kW
Medium duty	13 kW–2728 kW
Intermittent duty	57 kW–1973 kW
Heavy/continuous duty	9 kW–2322 kW
	Higher powers on demand

Speed ranges, type depending:

Pleasure craft	1600 rpm–maximal 4500 rpm
Light duty	1600 rpm–maximal 4300 rpm
Medium duty	1600 rpm–maximal 5000 rpm
Intermittent duty	1200 rpm–maximal 4400 rpm
Heavy/continuous duty	1200 rpm–maximal 5000 rpm

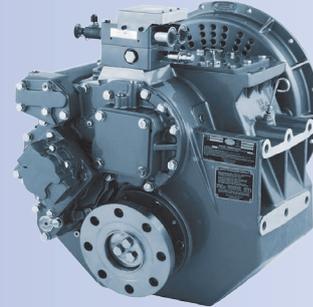
Features

- Lightweight construction
- Mechanically or electrically controlled (12 V or 24 V)
- Additional components as option

Fields of application

Ferries, container ships, passenger boats, police boats, survey vessels, fishing and pilot boats, tugs and official boats

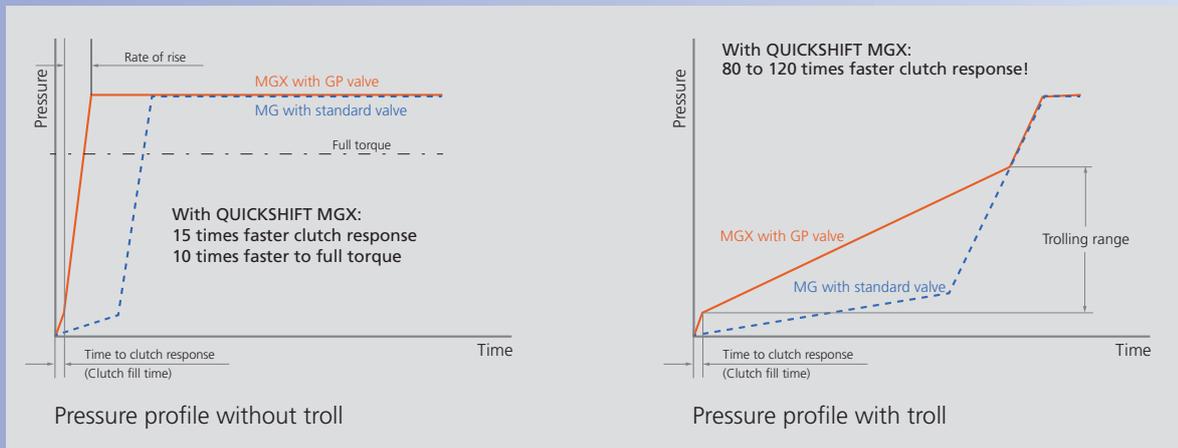
Series MGX QUICKSHIFT®



368 kW–2147 kW
351 kW–1985 kW
254 kW–1715 kW
208 kW–2340 kW
199 kW–1720 kW
Higher powers on demand

2100 rpm–3500 rpm
1800 rpm–3500 rpm
1600 rpm–3500 rpm
1600 rpm–3500 rpm
1600 rpm–3500 rpm

- Short response time
- Smooth clutch engagement
- System control by proportional valve



CONTROLS

EC300



- Precise and prompt response on captain's command
- No switching between cruise and troll, no preselection of the appropriate operating mode
- Full power is always available. Propeller control between 1 knot and maximum speed with a simple hand movement
- Technical data on demand

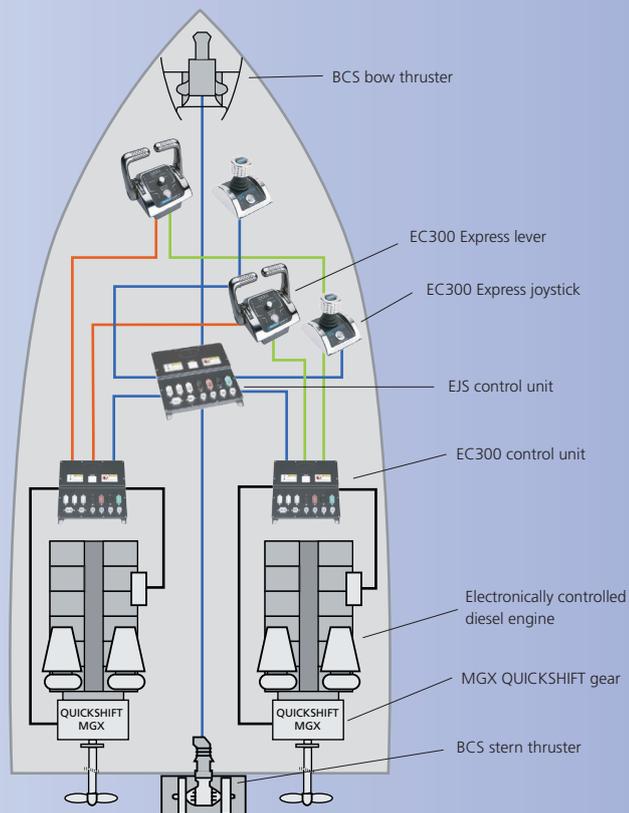
EJS

Express Joystick System®



- Instant control of engines, gears and thrusters at the same time
- Immediate response of the drive line system due to the proven Quickshift technology
- Docking without using the steering wheel and control lever and very smooth running with the complete system
- To be used only with Quickshift gear, electronically controlled engine and thruster hydraulically controlled by proportional valve
- Yachts, pleasure boats and other applications on demand

Example of an EJS system



CLUTCHES (INDUSTRIAL)

HP

Hydraulically operated clutch

TWIN DISC



Size	HP300–HP600
Rated power	up to 8677 Nm
Speed	max. 2200 rpm

- No pilot bearing necessary
- Maximal radial load allowed
- Easy installation

Pumps, generators, stone crushers, winches, conveyors, blowers

CL

Mechanically operated clutch

TWIN DISC



Size	CL105–CL311
Rated power	20 kW–280 kW
Speed	max. 3500 rpm

- Trouble-free heat dissipation
- Low space requirement
- Extremely rugged construction made of high-duty grey cast iron

For universal use in industrial applications

PO

Pneumatically operated clutch

TWIN DISC



Size	PO114–PO342
Rated power	40 kW–5300 kW
Speed	max. 2400 rpm

- Long lifetime
- No readjustment required
- Simple remote control

For universal use in industrial applications

COMBINATION OPTIONS

	MG gear	MGX gear	EC300	EJS system	HPTO	SB power take-off	IB power take-off	Pump drive unit	Pump adapter	PFI	UCD	HP clutches	Diesel engine elec. ctrl.	PO clutches	CL clutches
MG gear		-	●	-	-	-	-	●	-	-	-	-	●	-	-
MGX gear	-		●	●	-	-	-	●	-	-	-	-	●	-	-
EC300	●	●		●	●	-	-	-	-	-	-	-	●	-	-
EJS system	-	●	●		-	-	-	-	-	-	-	-	●	-	-
HPTO	-	-	●	-		-	-	●	-	-	-	-	●	-	-
SB power take-off	-	-	-	-	-		-	●	-	-	-	-	●	-	-
IB power take-off	-	-	-	-	-	-		●	-	-	-	-	●	-	-
Pump drive unit	●	●	-	-	●	●	●		-	●	-	-	●	-	-
Pump adapter	-	-	-	-	-	-	-	-		-	-	-	●	-	-
PFI	-	-	-	-	-	-	-	●	-		-	-	●	-	-
UCD	-	-	-	-	-	-	-	-	-	-		-	●	-	-
HP clutch	-	-	-	-	-	-	-	-	-	-	-		●	-	-
Diesel engine elec. ctrl.	●	●	●	●	●	●	●	●	●	●	●	●		●	●
PO clutch	-	-	-	-	-	-	-	●	-	-	-	-	●		-
CL clutch	-	-	-	-	-	-	-	●	-	-	-	-	●	-	

- impossible

● possible

CLUTCHES, DRIVES and PTO's (INDUSTRIAL)

UCD

Variable speed drive

TWIN DISC



Size	250-1 – 3000-1
Rated power	80 kW – 3000 kW
Speed	max. 3000 rpm

- High efficiency
- Use with low cost squirrel cage motor
- Wear resisting power transfer

Drinking water supply and irrigation plants, pumps, fans, compressors

HPTO

Hydraulically operated take-off

TWIN DISC



Size	140 – 244 – 366
Rated power	up to 1150 kW
Speed	max. 3000 rpm

- Compact design
- Cost-effective
- No shaft displacement

Stone crushers, ships and boats, pumps, blowers, shredders, etc.

SP/IB PTO's

Mechanically operated take-off

TWIN DISC



Size	SP111 – SP321
Rated power	up to 1225 kW
Speed	up to 3500 rpm

- Simple construction
- Cost-effective
- For radial and axial applications

Stone crushers, ships and boats, centrifugal pumps, blowers, shredders, etc.

Pump Drive Units

TECHNODRIVE



Size	AM110 – AM480
Rated power	up to 800 kW
Speed	max. 3950 rpm

- Hardened and ground spur gears
- Individual adaptation to pumps
- With housing and coupling connection for diesel engines

Marine applications, crushers, special vehicles, pumps

Pump Adapters

TECHNODRIVE



Size	SAE5 – SAE0
Rated power	on demand
Speed	–

- Pump directly flanged to the diesel engine
- Simple design for nearly all pumps
- Cost-effective

For universal use in industrial and marine applications

Power Take Off PFI

TECHNODRIVE



Size	PFI60 and PFI120
Rated power	up to 420 kW
Speed	max. 3200 rpm

- Operated under load
- Hydraulically applied, electrically operated
- With input shaft or direct flanging of hydraulic pumps

For universal use in industrial and marine applications

SERVICE AND SUPPORT

esco - Excellent service for excellent brands

By service, we – the esco team – mean far more than maintenance and repair. That's why our service already starts with the first phone call. Our experienced experts advise you on choosing the appropriate components and offer technically and economically convincing solutions meeting your requirements. In constructive collaboration with you and our suppliers we realize the solution concepts efficiently and give you our support throughout the whole project phase until the start-up on site. Engineering and consulting service, products of leading manufacturers and first class support – esco offers optimum performance at an economical price.

Personal consultation

At the Troisdorf offices, our field experienced engineering team answers in detail all questions regarding conception of complete drives or customization to the requirements of the application. Close cooperation and personal consultation provide confidence – and this is now more important than ever.

Service activities

We know how cost-intensive production losses resulting from machine downtime are. So, we do our utmost to make your equipment ready for operation again as fast as possible. Short reaction times due to best organized service processes and an extensive stock at the Troisdorf location with 24/48 hours delivery of all important spare parts guarantee safe operation of your machines and minimum downtimes.

For more information on clever drive solutions from esco please refer to www.esco-antriebstechnik.de.

Or simply call us! Our sales team will be pleased to help you.



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