

AT HOME AT ALL THE SEAS IN THE WORLD

Solutions for marine technology

- Drive technology Brake systems Hydraulic components Cooling systems

with our drive/hydraulic components and brake systems.





ROTEX®

Torsionally flexible jaw coupling

- Jaw coupling for power transmission damping torsional vibrations
- Axial plug-in, easy assembly, maintenance-free
- Standard spiders made of high temperature-resistant T-PUR
- Application range of T-PUR from 50 °C to + 120 °C, temperature peaks up to + 150 °C



REVOLEX® KX-D

Flexible pin & bush coupling

- Maintenance-free
- Pins can be radially assembled/disassembled
- Allover machining, good dynamic properties
- Hub material steel for higher load and speeds
- Torques from 3,800 to 1,220,000 Nm



POLY-NORM®

Torsionally flexible coupling

- Maintenance-free
- Axial plug-in, easy assembly
- Short dimensions, small shaft distance dimension
- Application range of NBR spider from 30 °C to + 80 °C
- Temperature peaks up to + 120 °C
- Torques up to 67,000 Nm



GEARex®

All-steel gear coupling

- High power density
- Torques up to 2,750,000 Nm
- Application range from 20 °C to + 80 °C
- According to AGMA standard 9008-B00



RADEX®-N

Steel lamina coupling

- Backlash-free, torsionally rigid and maintenance-free steel lamina coupling
- Free from wear
- Big displacement
- Rated torque up to 280,000 Nm
- Application range up to 280 °C



RIGIFLEX®

Steel lamina coupling

- Backlash-free, torsionally rigid and maintenance-free steel lamina coupling
- Free from wear
- Big displacement
- Rated torque up to 280,000 Nm
- Application range up to 280 °C
- Double-cardanic type

Products	 0	(160		40		
Marine technology	ROTEX®	POLY-NORM®	REVOLEX® KX-D	GEARex®	RADEX®-N	RIGIFLEX®
Bow thrusters	•		•	• •	•	-
Yaw drives	•		•	-	•	•
Steering gears						
Hydraulic winches	•		•	•	•	-
Mechanical winches	•		-	-	•	-
Ballast pumps	•	•				



BoWex-ELASTIC® Highly flexible flange coupling

- For I. C.-engines
- Engine power up to 5,000 kW
- Axial plug-in, easy assembly
- Adaptation to torsional vibrations of the drive
- Highly-flexible



KTR-SI FRE

Idle rotation overload system

- Load-separating overload system for very high torques
- High response and repeating accuracy
- Flange type to be combined with toothed belt pulleys or sprockets
- For shaft-to-shaft combinations to be connected to ROTEX®, GEARex® or RADEX®-N



KTR-SI

Overload systems

- For torques up to 8,200 Nm
- Ratchet and synchronous as well as fail-safe and idle rotation type
- High response and repeating accuracy
- Switching off with load via sensing by limit switch
- Can be combined with ROTEX®



KTR-SI Compact

Backlash-free overload systems

- Backlash-free overload system with degressive spring characteristics
- Overload protection up to 3,100 Nm
- Solid type
- Accurate, backlash-free torque transmission
- Mounting flange with ball bearings
- Hardened ratchet surfaces for long service life



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BoWex- ELASTIC®	KTR-SI	KTR-SI FRE	KTR-SI Compact	Hydraulic components	Cooler	KTR-STOP®	EMB-STOP
•							
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Hydraulic components Bellhousings and accessories

- The use of bellhousings allows to align motor and pump shafts optimally to each other
- Material: cast iron for offshore applications
- Horizontal mounting in combination with KTR foot flanges available
- Online bellhousing selection program: see www.ktr.com



Oil/air cooler OPC Cooling system

- High-performance coolers and cooling-pump systems, among others for marine applications (special painting)
- Operating voltage: 230/400V-50H7 IP55 and IP56 265/460V-60Hz
 Other voltages on request
- Optionally available with filter and rock fall protective grid



KTR-STOP®

Floating caliper brakes

- Clamping forces up to 1,400 kN
- Optimized one-piece casting caliper
- Sealed shafts for hard ambient conditions
- High power density



EMB-STOP

Active floating caliper brake

- Clamping forces up to 375 kN
- Active floating caliper brake (floater)
- Electromechanical brake
- "Plug 'n Play" maintenance-free
- Easy replacement of pads

Stopping - Blocking - Turning

Function

- Single: stop, block or turn
- Double: stop and block, stop and turn or block and turn
- Triple: stop, block and turn

Special features

- Redundant safety limit switches
- Easy replacement of brake pads
- All common supply voltages of drives available
- Control with local operation and interface to the bridge
- Codes: brake open, brake closed, wear of brake pad, locking pin extended, turning device engaged, turning device at rest and locked

Variant Drive	Electrical	Hydraulical	Manual
STOP	•	•	•
вьоск	•	•	•
TURN	•	•	



Technical data		Electromechanical EMB-STOP SBT	Hydraulical KTR-STOP* SBT	
C harming	Clamping force [kN]	6 to 350	0 to 542	
Stopping	Braking torque [kNm] with brake disk ø 1.5 metres	175	295	
Blocking	Blocking torque [kNm]	30 to 800	30 to 800	
вюскіпд	Pin diameter [mm]	50, 75, 100	50, 75, 100	
Turning	Torques [kNm]	85	85	
	Diameter [mm]	800, 910, 950, 1,000, 1,200, 1,500	800, 910, 950, 1,000, 1,200, 1,500	
Brake disk	One-piece or split	•	•	
	With function "turning" incl. spline			
Self-locking		Standard		
Not self-locking		Optional	Standard	
c	Cabinet	Optional	Optional	
Hydraulic power pack			Optional	

Our couplings are approved and certified

















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