



Made for Motion



AT HOME AT ALL THE SEAS IN THE WORLD

Solutions for marine technology

-
- Drive technology
 - Brake systems
 - Hydraulic components
 - Cooling systems

Staying on target –

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



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



REVOLEX® KX-D

Flexible pin & bush coupling

- Maintenance-free
- Pins can be radially assembled/disassembled
- All-over machining, good dynamic properties
- Hub material steel for high loads and speeds
- Torques from 3,800 to 1,220,000 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 laminae coupling

- Backlash-free, torsionally stiff and maintenance-free steel laminae coupling
- Free from wear
- High displacements
- Rated torque up to 280,000 Nm
- Application range up to 280 °C
- Single- and double-cardanic types



RIGIFLEX®

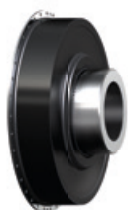
Steel laminae coupling

- Backlash-free, torsionally stiff and maintenance-free steel laminae coupling
- Free from wear
- High displacements
- Rated torque up to 280,000 Nm
- Application range up to 280 °C
- Double-cardanic type

Our couplings are approved and certified



Products						
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 Overload systems

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



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 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 a long service life



							
BoWex-ELASTIC®	KTR-SI	KTR-SI FRE	KTR-SI Compact	Hydraulic components	Cooler	KTR-STOP®	EMB-STOP
■							
	■		■	■	■	■	
				■	■		
				■	■	■	■
	■	■				■	■
				■			



Hydraulic components

Bell housings and accessories

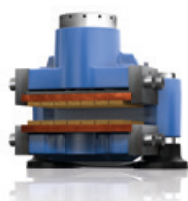
- The use of bell housings allows to align motor and pump shafts optimally to each other
- Material: cast iron – for offshore applications
- Horizontal mounting in combination with KTR foot flanges available
- Online bellhousing selection program: see www.ktr.com



Oil/air cooler - OPC

Cooling system

- High-performance coolers and cooling-pump systems, among others for marine applications (special painting)
- Operating voltage: 230/400V-50Hz 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 difficult ambient conditions
- High power density



EMB-STOP

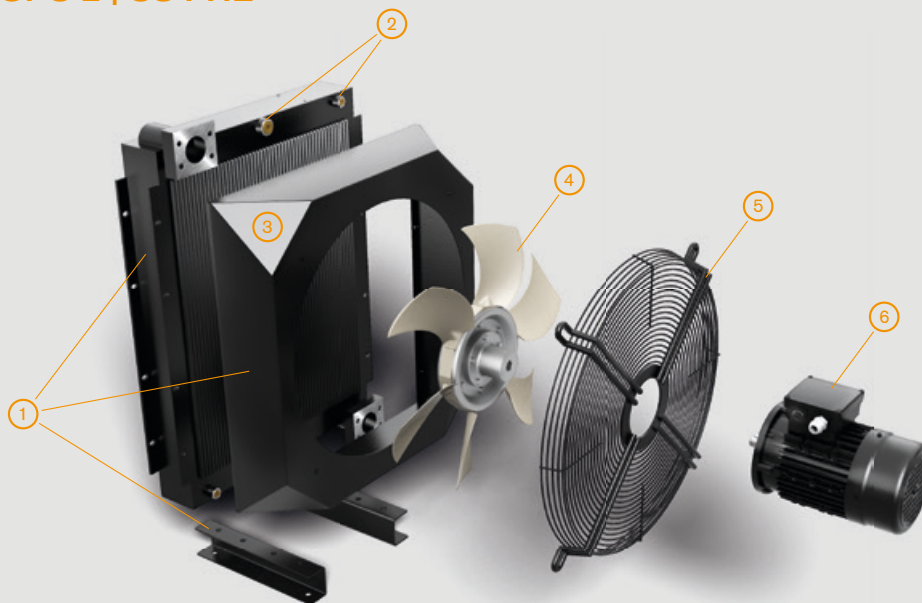
Active floating caliper brake

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



Rough ambient conditions require special preparations

OAC | OPC & OPC 2 | CS-PHE



1. Cooling element, cover, motor bracket are covered with sea air resistant paint
Salt spray test up to 1440 hours (DIN ISO 9227)

2. Plugs and fasteners made of stainless steel (A4)

3. Noise-reducing fan cover with drainage

4. Fan wheel in C4 version

5. Protective grid with polyamide coating

6. Features of motor:

- Protection class IP56
- Internal painting (motor and terminal box)
- Cast iron housing
- Standstill heater
- C4 paint (C5 on request)

7. Bellhousing with CDP (cathodic dip paint)

8. Hose with stainless steel fittings

9. Pump with special coating



SBT Devices – 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	Hydraulic	Manual
STOP	■	■	■
BLOCK	■	■	■
TURN	■	■	



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

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