



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 higher load 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 lamina coupling

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



RIGIFLEX®

Steel lamina coupling


















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

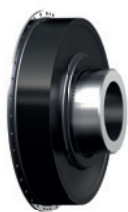
Our couplings are approved and certified



ClassNK



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 type
- 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 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 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

SBT Devices

Stopping – Blocking – Turning

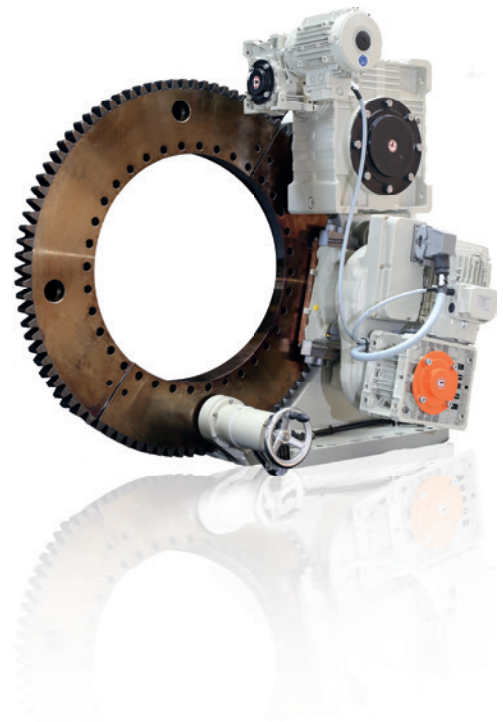
Function

- 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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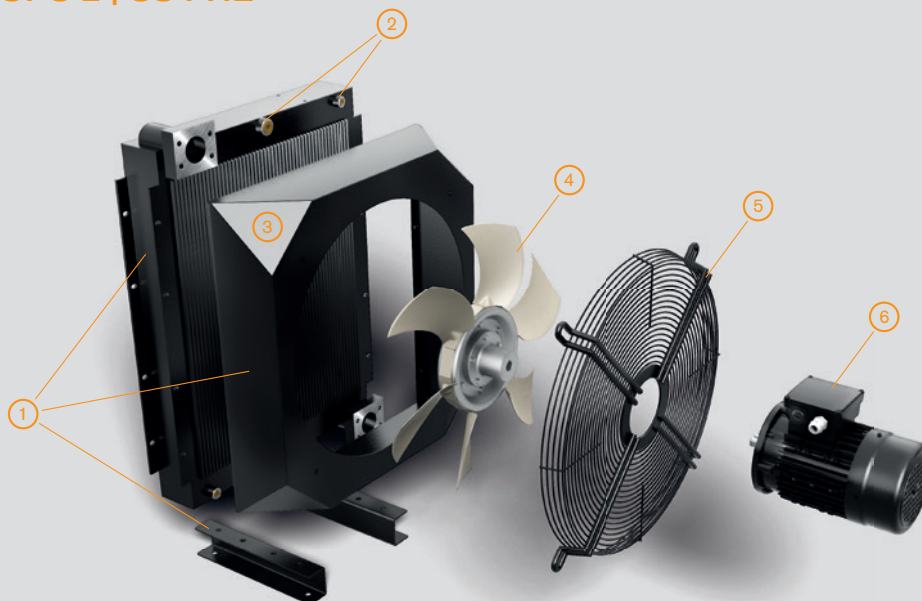
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Rough ambient conditions require special preparations

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
 - Cast iron housing
 - C4 paint (C5 on request)
 - Internal painting (motor and terminal box)
 - Standstill heater
7. Bellhousing with CDP (cathodic dip paint)
8. Hose with stainless steel fittings
9. Pump with special coating

