Made for Motion

GRİMME

MAXTRON

KTR

A BROAD RANGE OF APPLICATIONS

Solutions for agricultural machinery

Drive Technology Hydraulic Components Cooling Systems

Application of our products:

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	ROTEX®	BoWex® FLE-PA BoWex® FLE-PAC	MONOLASTIC	BoWex- ELASTIC [®]	Hydraulic oil cooler OAC	Combined cooler MMC
Forage harvesters						
Feed mixers						
Forestry machines				-		
Farm loaders			-			
Combine harvesters						
Crop protection sprayers	-	-				
Stump grinders						
Telescopic handlers						
Grape harvesters						
Biogas plants						
Wood splitters						



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
- Spline toothings acc. to DIN and SAE
- Inch and taper bores



BoWex[®] FLE-PA / FLE-PAC

Torsionally rigid curved-tooth flange coupling

- For all hydrostatic drives, e. g. construction and harvesting machinery
- High torsion spring stiffness, resonance-free operation
- Maintenance-free due to material combination nylon/steel
- PA flange providing for high mechanical strength and thermal stability
- PAC flange having excellent resistance to wear with high load
- Numerous flanges available with special connection dimensions
- Torques from 240 to 6,600 Nm



BoWex-ELASTIC[®] Highly flexible flange coupling for I. C.-engine drives

- Engine power up to 7,500 kW
- Axial plug-in, easy assembly
- Specifically short dimensions
- Damping torsional vibrations
- For instance for the drive of generators, water pumps, compressors
- Available as a Shore hardness 40, 50, 65 and 70 Shore A



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MONOLASTIC[®] One-piece, elastic flange coupling

- For the drive in diesel engine/hydraulic pump up to 300 kW
- Available in different kinds of Shore hardness
- Axial plug-in in combination with the pump spline shaft
- Available for SAE and DIN pump spline shafts
- Flange connection with 3 holes and acc. to SAE



Combined cooler MMC

- High-performance cooler made of aluminium to be combined for various media
- Water, oil, charge air and fuel cooler
- Type for harsh operating conditions
- Selection in accordance with customized specifications
- Selection of laminas adapted to the application
- System engineering covering sophisticated overall systems including fans and various kinds of drive technologies
- Thickness of block from 32 to 200mm
- Cooler geometries adapted to the mounting situation



Oil/air cooler OAC

- High-performance cooler cores made of aluminium for a maximum static operating pressure of 26 bar
- Suitable for hydraulic oil, gear oil, lubricating oil, motor oil and water-glycol
- Fan drive available as 12V, 24V and hydraulic drive
- Easy to maintain and good options of cleaning
- Low sound pressure level
- CE marking
- Optionally available with corrosion-resistant coating

Hydraulic oil coolers OAC

A compact and powerful cooler series covering twelve sizes was developed for high-performance cooling of hydraulic and lubricating oils.

Structure:

- Cooler core (plate and bar) made of aluminium with industrial lamina in black (RAL 9005)
- Fan cover made of steel in black (RAL 9005)
- Fan made of nylon PAG
- Protective grid made of steel in black (RAL 9005)
- Fan 12/24V IP68
- Fan with hydraulic drive

Suitable for cooling of:

Accessories:

- Hydraulic oil
- Gear oil
- Lubricating oil
- Water-glycol (at least 40 % glycol)
- Thermal bypass valve
- Oil temperature control valve (OTV)
- Protective grid
- Temperature switch (TSC)







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	Oil/air cooler type OAC 12/24 V																								
Cooley trees		Dimensions [mm]																							
Cooler type	L	L ₁	L_2	L ₃	L_4	В	B ₁	B_2	Н	H ₁	H_2	H ₃	H_4	H ₅	d	d ₁	C ₁	C_2	C ₃	C ₄	SAE-Flansch	М	F	G	Е
OAC100-01	107	C.F.	050	000	FO	050	0.05	100	000	150		OFF	14		14								05		104
OAC100-02	107	00	250	200	50	250	225	100	300	150	-	200	14	-	14	-	-	-		-	-	-	00	-	104
OAC200-01	107	C.F.	050	000	FO	050	0.05	174	410	0.40		000	14		14								115		010
OAC200-02	107	60	250	200	50	350	325	174	410	240	-	360	14	-	14	-	-	-	-	-	-	-	115	-	219
OAC300-01	000	C.F.	050	000	40	440	401	000	500	000		450	14		14								100		004
OAC300-02	230	65	250	200	49	440	421	200	500	320	-	450	14	-	14	-	-		-	-	-	-	160		264
OAC400-01	000	0.5	000	000		4.40	101		500	000		450											100		004
OAC400-02	260	95	280	230	55,5	446	421	200	500	320		450	14	-	14	-	-	-	_	-	-	-	160	-	264

For other sizes see www.ktr.com

Customized Cooling Systems – Adapted to our customers' demands.

Our combined coolers MMC are tailor-made and adapted to the demands and conditions of the respective application. Operating as a water cooler, the MMC series tempers the cooling water. Operating as an oil cooler, it ensures cooling of hydraulic or gear oil, as a charge air cooler cooling of combustion air. Such kind of high-performance cooling system complies with all demands on temperature control of media, e. g. applications as a fuel cooler.









Drive



Combined cooler MMC

Lamina

Fan

ROTEX® with PTO shaft connection

The ROTEX coupling with PTO shaft was specifically developed for connectable mechanical auxiliary drives of agricultural machines and other mobile machines. The application range includes, among others, forestry mulchers, loader wagons, presses, manure spreaders and trailers as well as rotary piston pumps and compressors positioned on self-propelled harvesters and towed attachments.





Special lengths as an alternative to a cardan shaft available on request









Size	Spider Rated torque (Nm)				F	General														Clamping screw			
	92 Sh A	98 Sh A	64 Sh D	PA	1 3/8" z=6	1 3/8" z=21	1 3/4" z=6	1 3/4" z=20	DH	L	1/ 2	E	b	s	dH	DK	t1	t2	е	D	LDK	м	Ta (Nm)
38	190	325	405	565					80	114	45	24	18	3	38	77,5	19	-	26,5	70	171/211	M8	35
42	265	450	560	785					95	126	50	26	20	3	46	93,5	18	-	32	85	178/218	M10	69
48	310	525	655	915					105	140	56	28	21	3,5	51	105	21	-	36	95	190/230	M12	120
55	410	685	825	1200					120	160	65	30	22	4	60	119,5	26	51	42,5	110	200/240/280/300	M12	120
65	625	940	1175	1645					135	165	65	35	26	4,5	68	132,5	23	51	50	115	240/280	M12	120
75	1280	1920	2400	2560					160	170	65	40	30	5	80	158	16	48	57	135	235/275/295/345	M16	295
90	2400	3600	4500	6300					200	205	80	45	34	5,5	100	197	20	60	72	160	263/333	M20	580
110	4800	7200	9000	10500					255	205	75	55	42	6	127	218	30	-	76	200	336	M24	1000

Other sizes available on request



Technical data

- Spline bore acc. to DIN 9611/ISO500 (PTO shaft connection)
- PTO shaft speed: 540, 750, 1,000, 1,400 RPM
- Power range up to 367 kW/500 HP
- Hub material steel S355J2G3 (ST52-3)

Product features

- Single- or double-cardanic
- Damping vibrations
- Axial plug-in
- Backlash-free shaft-hub-connection
- Short dimensions
- Maintenance-free

Example in the field -

ROTEX[®] with PTO shaft connection and OAC hydraulic oil cooler

ROTEX[®] 110 with PTO shaft connection

1^{3/4}" - 20 teeth, between hydraulic motor and gearbox in a forestry mulcher



Technical data/drive

- Trated = 1000 Nm
- N = 2500 RPM
- Temperature = up to 70 °C



Hydraulic oil cooler OAC 200 (12 volts)

For cooling the hydraulic system in a self-propelled harvester



Technical data/drive

- OAC200-01-0-0 (12V)
- Cooling capacity: 3.8 kW
- Temperature switch 50 °C
- Motor IP68
- 8.2 amperes



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