Product Features

KINSHOFER-Rotator Line

KINSHOFER manufactures rotators for truck loaders, excavators and logging operations. Years of experience in designing rotators and hydraulic load handling equipment guarantee high efficiency, long lasting rotators, specially tailored to meet your requirements.

The gear-type design ensures a very compact and powerful rotator. The precision control and braking ability is especially appreciated by operators. A grapple does not rotate unexpectedly when digging, even under maximum load, and there is no need for stability compensation when handling longer lengths of timber...

These are only some of the many working situations where operators appreciate the advantages of using **KINSHOFER**-rotators.

Features of the **KINSHOFER**-Rotators

KINSHOFER-Rotators are the solution.



The rotator head is made of spherically cast iron or forged tempered steel, depending on operational requirements Upper and lower connections are available in a variety of dimensions and are standard. Kinshofer carries upper suspensions for all current makes and models of cranes. Rotator heads with pin connections are equipped with steel bushings The pressure relief valve, integrated in the rotator head, allows the rotator independence from the hydraulic system of the crane or excavator - where an extra pressure relief valve does not need to be installed All seals are specially designed for the application, All biodegradable synthetic oils are perfectly suitable A very high degree of sealing between the distributor and rotor unit results in minimal internal leakage. Powerful drive and braking moments are therefore possible, even at high oil temperature

> The rotor unit is made of high quality tempered steel and the outer surface is hardened through a nitrate-coating

Generously dimensioned roller bearings guarantee absorption of rated pressure and tension loads and tilting moments

> The forged, one-piece flange shaft is made of durable tempered steel

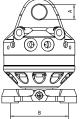
Horizontal and vertical hydraulic connection of the attaching equipment is possible

Oil passages for a single hydraulic circuit are standard and generously dimensioned for high capacity flow. Connection with standard fittings is possible because flange and rotator shaft are a single unit, which also means there are no seams between flange and rotator shaft. Rotators with four oil passages are also available

KINSHOFER-Rotator Line

Product Range

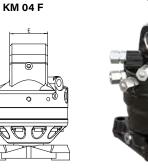
Rotator with shaft up to 3000 kg load capacity (incl. fittings) Æ Upper connection (Width E x Pin-Ø A) Moment of a deflection max. 0 Self weight Δ Ø Torque 6 90 Shaft (Туре (kg) 24 (mm) (mm) (Nm) KM 03 S* 49.5 60 x 25 450 1750 * only for pallet forks KM 03 S max. 37 MPa (370 bar) **Operating pressure:** Oil flow rotate: max. 40 l/min 10 0*6* Oil flow feedthrough: max. 75 l/min φ Hydraulic coupling in: G 3/8" Hydraulic coupling out: G 1/4" D Rotators with shaft up to 4500 kg load capacity (incl. fittings) Upper connection (Width E x Pin-Ø A) Moment of deflection max. (g) Load capacity ۲ (۵ Self weight Shaft Ø D Torque 90 Туре D+T (mm) (Nm) (Nm) (mm) (kg) KM 04 S59-30 \oplus 4500 59 84 x 30 850 3000 26 KM 04 S 4500 84 x 30 3000 62 850 26 KM 04 S63-30 4500 63 84 x 30 850 3000 26 KM 04 S KM 04 S68-30 84 x 30 4500 68 850 3000 26 KM 04 S68-30US* 4500 68 84 x 30 1000 4500 28 KM 04 S69-30 3000 4500 69 84 x 30 850 26 * steel motor-head KM 04 S69-30 0 **Operating pressure:** max. 37 MPa (370 bar) HO OB Oil flow rotate: max. 40 l/min **Oil flow feedthrough:** max. 75 l/min 0 Hydraulic coupling: G 1/2" Rotators with flange up to 4500 kg load capacity (incl. fittings)





Upper connection (Width E x Pin-Ø A) Moment of deflection max. (g) Load capacity Hole pattern of flange B Self weight (Nm) Туре (mm) (Nm) (kg) (mm)KM 04 F 4500 □ 140 84 x 30 850 3000 26 KM 04 F140-30US* 4500 □ 140 84 x 30 1000 8500 31 KM 04 F140-30V** 4500 □ 140 84 x 30 850 3000 26

KM 04 F



* steel motor-head

** additional vertical connection

Operating pressure:	max. 37 MPa (370 bar)
Oil flow rotate:	max. 40 l/min
Oil flow feedthrough:	max. 75 l/min
Hydraulic coupling:	M18 x 1,5

KM 04 F140-30US

Product Features

Oil flow feedthrough:

Hydraulic coupling in:

Hydraulic coupling out:

Rotators with shaft up to 6000 kg load capacity (incl. fittings)

Туре	ති) (ති	(mm)	 Upper connection (Width E x Pin-Ø A) 	Jorque (Nm)	Z) Moment of deflection (3) max.	a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
KM 06 S68-40	6000	68	84 x 40	1000	4500	32	
KM 06 S69-40	6000	69	84 x 40	1000	4500	32	
Operating pressure:	max. 37 MPa	a (370 bar)					
Oil flow rotate:	max. 40 l/mi	in					



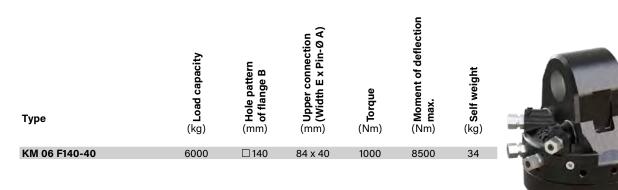
KM 06 S68-40

Rotator with flange up to 6000 kg load capacity (incl. fittings)

max. 75 l/min

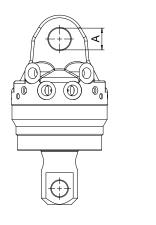
G 1/2"

M18 x 1,5



Operating pressure:	max. 37 MPa (370 bar)
Oil flow rotate:	max. 40 l/min
Oil flow feedthrough:	max. 75 l/min
Hydraulic coupling in:	G 1/2"
Hydraulic coupling out:	M18 x 1,5

Technical drawings



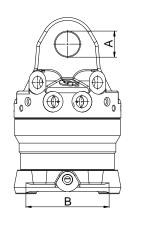
KM 06 S68-40 / KM 06 S69-40

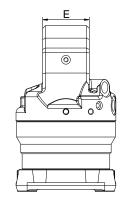
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KM 06 F140-40

KINSHOFER-Rotator Line

KINSHOFER-Rotator Line

Product Range

Rotators with flange and 4 oil ducts to operate 2 different functions (incl. fittings)



KM 06 F173-35-4

Туре	b Load capacity (ق) Hole pattern (U of flange B	ິສ Upper connection ଔ (Width E x Pin-⊘ A)	(mV)	Hydraulic couplings	N Moment of deflection max.	ର୍ଥ Self weight
KM 04 F140-30-4	4500	□ 140	84 x 30	850	M 18 x 1,5	3000	40
KM 06 F173-35-4	6000	Ø 173	81 x 35	1000	G 1/2"	8500	45
KM 10 F173-35-2/4	10000	Ø 173	81 x 35	2000	G 1/2" & G 3/4"	12000	72

	KM 04 F / KM 06 F	KM 10 F
Operating pressure:	max. 37 MPa (370 bar)	max. 37 MPa (370 bar)
Oil flow rotate:	max. 40 l/min	max. 50 l/min
Oil flow feedthrough:	max. 75 l/min	max. 75 l/min

Rotators with flange for logging (incl. hose guard and fittings)

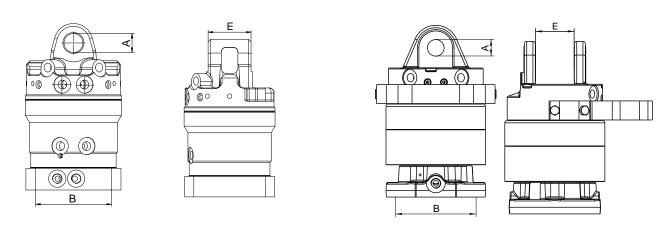


Noment of deflection ax. Upper connection (Width E x Pin-@ A) ର୍ଥ Load capacity Hole pattern of flange B (g) Self weight Torque Туре (mm) (mm) (Nm) Ø 173 81 x 35 81 x 35 KM 06 F173-35 6000 1000 8500 45 KM 10 F173-35/1 10000 2000 12000 Ø 173 62 KM 10 F173-35/2 10000 Ø 173 81 x 35 2000 12000 65 KM 10 F173-45 10000 Ø 173 100 x 45 2000 12000 68 KM 10 F173-52 10000 136 x 52,2 2000 12000 70 Ø 173 KM 10 E

KM 10 F173-45

	KM 06 F	KM 10 F
Operating pressure:	max. 37 MPa (370 bar)	max. 37 MPa (370 bar)
Oil flow rotate:	max. 40 l/min	max. 50 l/min
Oil flow feedthrough:	max. 75 l/min	max. 75 l/min
Hydraulic coupling:	G 1/2"	G 1/2"

Technical drawings



KM 04 F140-30-4

KM 10 F173-35/1

Accessories for Rotators

KINSHOFER-Rotator Line

KM 501 - Upper suspension between rotator and crane

An upper suspension is a cardan link between rotator and crane. It is available for all current makes and models of cranes. Please specify dimensions when ordering.

Туре	Load capacity	Self weight
	(kg)	(approx. kg)
KM 501 (3000)	up to 3000	5
KM 501 (4500)	up to 4500	10
KM 501 (6000)	up to 6000	15
KM 501 (10,000)	up to 10000	25

KM 511 - Upper suspension with pendulum damper between rotator and crane

A pendulum damper reduces the horizontal swing of the attachment. It can also be retrofitted to an existing upper suspension.

Туре	Load capacity (kg)	Self weight (approx. kg)
KM 511 (4500)	up to 4500	15
KM 511 (6000)	up to 6000	20
KM 511 (10,000)	up to 10000	30

KM 206 - Hose guard

The hose guard is a metal bow to be attached onto the rotator. It is designed to protect the hoses of the rotator from damage i.e. from protruding branches.

Туре	Description	Self weight
		(approx. kg)
KM 206	hose guard for the rotator	3
KIVI 200	hose guard for the rotator	3



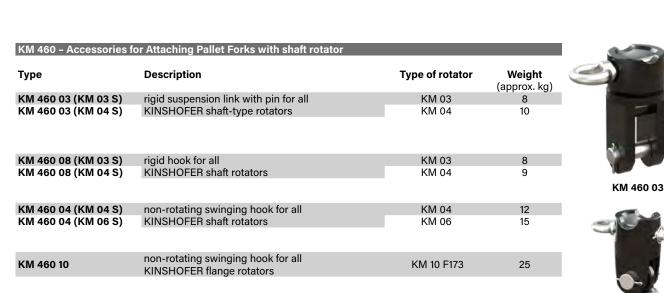




KM 502 – Reduction link between rotator and grapple

A reduction link adapts a shaft type rotator to an attachment with a standard hole pattern for a flange (KM 502).

Туре	Load capacity	Self weight
	(kg)	(approx. kg)
KM 502 (3000)	up to 3000	2
KM 502 (4500)	up to 4500	3
KM 502 (6000)	up to 6000	4



KM 460 04

KINSHOFER-Rotator Line

Accessories for Rotators

KM 505 - Quick change system for shaft-type rotators up to 4000 kg load capacity

The quick change system enables an easy exchange between different attachments. The mechanical coupling and locking is achieved by the turning motion of the rotator. You simply disconnect the quick couplings and disengage the locking device manually. The upper element of the quick change system is available for all KM 04 - shaft rotators.

The KM 505 system allows the easy exchange between pallet fork and brick stack grapple for example; not suitable for heavy duty work.

Туре	Description	Hole pattern of flange (mm)	Self weight (kg)
KM 505	complete, incl. hydraulic couplings (KM 204 03)	4x Ø18 / 🗆 140	12
KM 505 01	upper element fitted to rotator incl. mobile and fixed parts		5
KM 204 01	mobile part of hydraulic quick coupling (2 pieces) for KM 505	01	
KM 505 02	lower element mounted to the attachment	4x Ø18 / 🗆 140	7
KM 505 03	rigid suspension link with non-rotating hook to connect to the KM 505 01		7
KM 505 05	distance ring between KM 505 and KM 461 universal fork		5
C		3	1

KM 505 01

KM 505 HD - Heavy duty quick change system for shaft-type rotators

The quick change system enables an easy exchange between different attachments. The mechanical coupling and locking is achieved by the turning motion of the rotator. You simply disconnect the quick couplings and disengage the locking device manually. The upper element of the heavy duty quick change system is available for the KINSHOFER shaft rotators KM 04 S68-30US or KM 06 S68-40. The KM 505 system allows the easy exchange between pallet fork and clamshell bucket for example; especially developed for the heavy duty task with clamshell buckets.

KM 505 02

Туре	Description	Hole pattern of flange (mm)	Self weight (kg)
KM 505 HD	complete, incl. hydraulic couplings (KM 204 03)	4x Ø18 / 🗌 140	18
KM 505 01 HD	upper element HD fitted to rotator incl. mobile and fixed parts		7
KM 204 01	mobile part of hydraulic quick coupling (2 pieces) for KM 505 0	1 HD	
KM 505 02 HD	lower element HD mounted onto attachment	4x Ø18 / 🗆 140	11
KM 505 03 HD	rigid suspension link with non-rotating hook to connect to the KM 505 01 HD		14
(M 505 05	distance ring between KM 505 HD and KM 461 universal fork		5



KM 505 01 HD

KM 505 02 HD



KM 505 03

KM 203 - Connecting hoses / KM 204 - Hydraulic guick change kit for hoses

	Туре	Description
	KM 203 01	short connecting hoses between rotator and attachment with standard fittings M 18 x 1,5 (2 pieces)
	KM 203 03	long connecting hoses between rotator and crane. Please specify dimensions (4 pieces)
	KM 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
	KM 204 02 KM 204 03	fixed part of hydraulic quick coupling for rotator (Ø 10 mm, 2 pieces) hydraulic quick change kit incl. mobile and fixed parts (2 pieces each) mounted with adapters to rotator
КМ :	204 03	