# KINSHOFER Rotator Line

#### **Product Features**

**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.

#### **KINSHOFER** Rotators are the solution.

Features of **KINSHOFER** Rotators



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 rotator head is made of spherically cast iron or

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

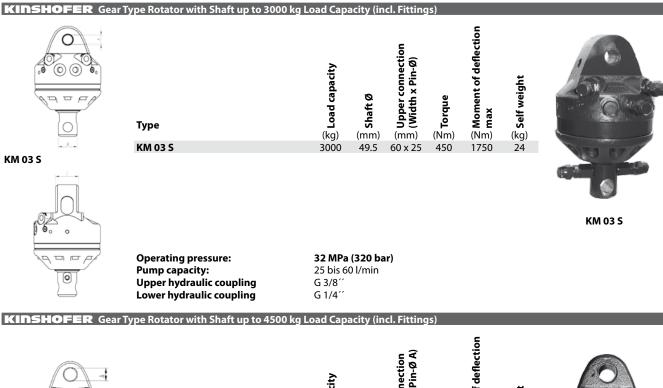
The forged, one-piece flange shaft is made of durable tempered steel

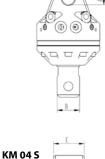
 Horizontal and vertical hydraulic connection of the attaching equipment is possible

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**





0 0 0

Туре	(ba) Load capacity	(mm) (mm)	③ Upper connectior ③ (Width C x Pin-Ø /	(Nm)	Z) Moment of deflec (U max	(g) Self weight
KM 04 S59-30	4500	59	84 x 30	850	3000	26
KM 04 S	4500	62	84 x 30	850	3000	26
KM 04 S63-30	4500	63	84 x 30	850	3000	26
KM 04 S68-30	4500	68	84 x 30	850	3000	26
KM 04 S68-30US*	4500	68	84 x 30	1000	4500	28
KM 04 S69-30	4500	69	84 x 30	850	3000	26

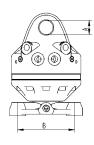
KM 04 S

**Operating pressure: Pump capacity:** Hydraulic couplings:

\* steel motor-head

32 MPa (320 bar) 25 to 60 l/min M 18 x 1,5

#### KINSHOFER Gear Type Rotator with Flange up to 4500 kg Load Capacity (incl. Fittings)



KM 04 F

Туре	لک (۵۸ Load capacity	표 Hole pattern 전 of flange B	B) Upper connection B (Width C x Pin-Ø A)	(mX)	⊠) Moment of deflectior (3 max	(g) (g) Self weight
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



KM 04 F140-30US

\* steel motor-head

\*\*additional vertical connection for the drive unit

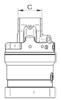
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**Operating pressure: Pump capacity:** Hydraulic couplings: 32 MPa (320 bar) 25 to 60 l/min M 18 x 1,5

### **Product Range**

# **KINSHOFER** Rotator Line

KINSHOFER Gear Type Rotator with Shaft up to 6000 kg Load Capacity (incl. Fittings) Moment of deflection max 4 Upper connection (Width C x Pin-Ø A) Load capacity Self weight Shaft Ø B Torque Type (kg) (mm) (mm) (Nm) (Nm) (kg) KM 06 S68-40 6000 68 84 x 40 1000 4500 32 KM 06 S69-40 6000 1000 69 84 x 40 4500 32 **Operating pressure:** 32 MPa (320 bar) Pump capacity: 25 to 75 l/min G 1/2′′ Hydraulic couplings - in: Hydraulic couplings - out: M 18 x 1,5 KINSHOFER Gear Type Rotator with Flange up to 6000 kg Load Capacity (incl. Fittings) Moment of deflection max 4 Upper connection (Width C x Pin-Ø A) Load capacity Hole pattern of flange B Self weight Torque С Type (kg) (mm) (mm) (Nm) (Nm) (kg) KM 06 F140-40 6000 □ 140 84 x 40 1000 8500 34 **Operating pressure:** 32 MPa (320 bar) Pump capacity: 25 to 75 l/min Hydraulic couplings – in: G 1/2″ Hydraulic couplings – out: M 18 x 1,5 KINSHOFER Gear Type Rotator with Flange and 4 Oil Ducts to operate 2 different Functions (incl. Fittings) of deflection O  $\triangleleft$ nnection x Pin-Ø A) acity B B Ĕ



Туре	(kg)	(um) (u of flange	(um) (Width C	<b>Torque</b> (NW)	(mN) (max	(kg)
KM 04 F140-30-4	4500	□ 140	84 x 30	850	3000	40
KM 06 F173-35-4	6000	Ø 173	81 x 35	1000	8500	45
KM 10 F173-35/2-4	10000	Ø 173	81 x 35	2000	12000	72
	KM 04 F1	140-30-4	KM 06 F1	73-35-4	KM 10 F1	73-35/2-4

25 to 50 l/min

M 18 x 1,5

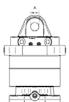


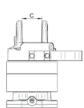
KM 04 F140-30-4 and Grapple): KINSHOFER Gear Type Rotator with Flange for Logging (incl. Hose Guard and Fittings)

**Operating pressure:** 

Hydraulic couplings (Rotator

Pump capacity:





KM 10F 173-35/1

Туре	(kg) (kg)	<ul> <li>Hole pattern</li> <li>of flange B</li> </ul>	<ul> <li>Upper connection</li> <li>(Width C x Pin-Ø A)</li> </ul>	() () () () () () () () () () () () () (	⊠ Moment of deflection ଔ max	ର୍ଥ Self weight	
KM 06F 173-35	6000	Ø 173	81 x 35	1000	8500	34	
KM 10F 173-35/1	10000	Ø 173	81 x 35	2000	12000	62	-
KM 10F 173-35/2	10000	Ø 173	81 x 35	2000	12000	65	74-2
KM 10F 173-45	10000	Ø 173	100 x 45	2000	12000	68	0
KM 10F 173-52	10000	Ø 173	136 x 52,2	2000	12000	70	
Operating pressure:	32 MPa	(320 ba	ır)				
Pump capacity:	25 to 75	l/min					KM

Hydraulic couplings (Rotator and Grapple)

′5 l/min G 1/2′



KM 04 F140-30-4

KM 10F 173-35/1

32 MPa (320 bar) 32 MPa (320 bar) 32 MPa (320 bar)

26 to 75 l/min

G 1/2'' and G 3/4''

25 to 75 l/min

G 1/2′

## **KINSHOFER** Rotator Line

# **Accessories for Rotators**

#### 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 10000	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	Self weight
	(kg)	(approx. kg)
KM 511 4500	up to 4500	15
KM 511 6000	up to 6000	20
KM 511 10000	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

Self weight (approx. kg) 3

KM 206	hose guard for the rotator
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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

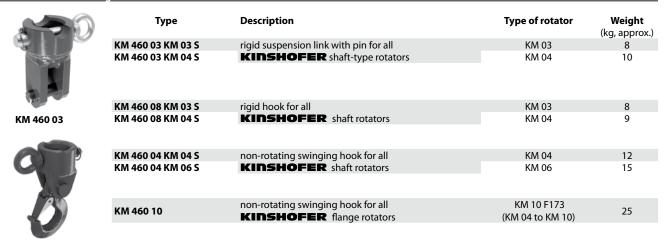
Туре	Load capacity	Self weight
	(kg)	(approx. kg)
KM 502 3000	up to 3000	2
KM 502 4500	up to 4500	3
KM 502 6000	up to 6000	4



KM 502-AD



Accessories for Attaching Pallet Forks etc.



KM 460 04

#### **Accessories for Rotators**

## **KINSHOFER** Rotator Line

#### KM 505 – 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 quick couplings and disengage the locking device manually. Upper elements of the quick change system are available for all KINSHOFER shaft rotators. The KM 505 system can be used on most attachments which allows the versatility to quickly change the application with a minimum of down-time. Not suitable for heavy duty work.

Туре	Description	Hole pattern of flange (mm)	Self weight (kg)
KM 505	complete, incl. hydraulic couplings (KM 204 01)	4x Ø18 / 🗌 140	12
KM 505 01	upper element fitted to rotator incl. 2 mobile parts		5
KM 204 01	mobile part of hydraulic quick coupling (2 pieces) for KM 505 01		
KM 505 02	lower element mounted onto attachment	4x Ø18 / 🗌 140	7
KM 505 03	rigid suspension link with non-rotating hook to connect to the K	M 505 01	7
6			
KM 5	05 01 KM 505 02	KM 505 03	
ange 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 quick couplings and disengage the locking device manually. Upper elements of the quick change system are available for all KINSHOFER shaft rotators. The KM 505 system can be used on most attachments which allows the versatility to quickly change the application with a minimum of down-time. For the use on the universal fork KM 461 and for heavy duty works, we recommend the quick change system KM 505 HD, in combination with rotator KM 04 S68-30US or KM 06 S68-40.

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3	Туре	Description		Hole pattern of flange (mm)	Self weight (kg)	
	KM 505 HD	complete, incl. hydraulic	couplings (KM 204 01)	4x Ø18 / 🗌 140	18	
	KM 505 01 HD	upper element HD fitted	to rotator incl. 2 mobile parts		7	
1	KM 204 01	mobile part of hydraulic	quick coupling (2 pieces) for KM 50	5 01 HD		
1	KM 505 02 HD	lower element HD moun	ted onto attachment	4x Ø18 / 🗆 140	11	
	KM 505 03 HD	rigid suspension link wit	h non-rotating hook to connect to	the KM 505 01 HD	14	
				S		
-	KM 50	5 01 HD	KM 505 02 HD	KM 505 03 HD		
loses & KN	1 204 – Hydraul	ic Quick Change Kit for H	loses			
_	Туре	Description				
2	KM 203 01	short connecting hoses l fittings M 18 x 1,5 (2 piec	between rotator and attachment wi res)	th standard		
A	KM 203 03 long connecting hoses between rotator and crane – please specify dimensions (4 pieces)					

KM 204 01

KM 203 – Connecting H

KM 505 HD – Heavy Duty Quicl

KM 203 01



KM 204 01 mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces) KM 204 02 fixed part of hydraulic quick coupling for rotator (Ø 10 mm, 2 pieces) KM 204 03 hydraulic quick change kit incl. mobile and fixed parts (2 pieces each) mounted with adapters to rotator

KM 204 02