

### **TMG**

## Terex<sup>®</sup> Fuchs 5-tine cactus grab with a capacity of 0.4 to 0.8 m³ for machines with an operating weight of 16 t to 50 t

The Terex<sup>®</sup> Fuchs cactus grab was developed specifically for scrap handling. Its sturdy design guarantees effective, continuous deployment. The cactus grab's superior performance is a result of sophisticated kinematics offering a high closing force range and a force flow congruent design. The high-quality materials used ensure durability.

- The grab rotator is incorporated in the upper part of the grab, where it is afforded optimal protection
- A high degree of serviceability
- ▶ The cylinders' piston rods and the hydraulic lines are protected from external damage and impact
- Tips are made of wear-resistant hardened manganese steel
- All areas of the tines that are prone to wear are made of HARDOX
- Both "open" and "half-shell" models are available



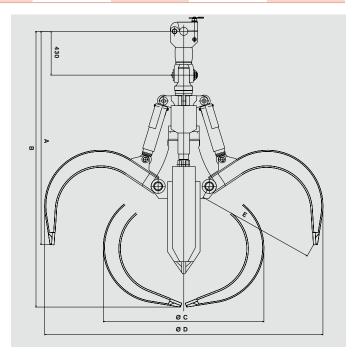
#### **Cactus grab TMG**

Model	Overall width (closed) C mm	Opening width D mm	Height (closed) B mm	Capacity m <sup>3</sup>	No. of tines	Weight with suspen- sion device (open) kg	Weight with suspen- sion device (half-shell) kg	
TMG 04	1250	2030	2350	0.4	5	1500	1600	
TMG 06	1400	2360	2500	0.6	5	1620	1745	
TMG 08	1550	2520	2600	0.8	5	1655	1910	

#### **Scope of delivery**

Cactus grab, rotator, head plate with hose protector, check valve, quick-attach grab suspension





### **TMG**

## Terex® Fuchs 5-tine cactus grab with a capacity of 1.0 to 1.4 m³ for machines with an operating weight of 40 t to 80 t

The Terex® Fuchs cactus grab was developed specifically for scrap handling. Its sturdy design guarantees effective, continuous deployment. The cactus grab's superior performance is a result of sophisticated kinematics offering a high closing force range and a force flow congruent design. The high-quality materials used ensure durability.

- The grab rotator is incorporated in the upper part of the grab, where it is afforded optimal protection
- A high degree of serviceability
- ▶ The cylinders' piston rods and the hydraulic lines are protected from external damage and impact
- Tips made of wear-resistant hardened manganese steel
- All areas of the tines that are prone to wear are made of HARDOX
- ▶ Both "open" and "half-shell" models are available



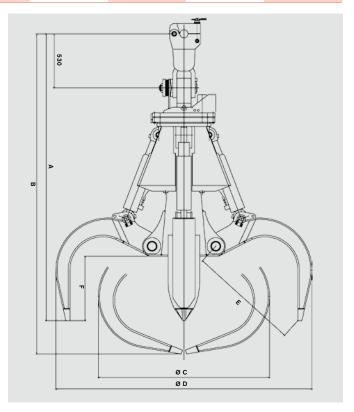
#### **Cactus grab TMG**

Model	Overall width (closed) C mm	Opening width D mm	Height (closed) B mm	Capacity m <sup>3</sup>	No. of tines	Weight with suspen- sion device (open) kg	Weight with suspen- sion device (half-shell) kg	
TMG 10	1680	2560	3075	1.0	5	2200	2400	
TMG 12	1740	2740	3170	1.2	5	2260	2490	
TMG 14	1810	2900	3255	1.4	5	2370	2620	

#### **Scope of delivery**

Cactus grab, rotator, head plate with hose protector, check valve, quick-attach grab suspension





### **P22V**

4-tine cactus grab with a capacity of 0.45 m³, designed for bulky goods handling in machines with an operating weight of 16 t to 22 t

- Available with 4 narrow tines
- Cylinders with piston rod protection
- Dil distributors and hydraulic hoses are integrated in the unit carrier and thereby protected
- ▶ Weld-on tips made of highly wear-resistant forged and tempered material: HB 500
- Closing force of 17 kN at an operating pressure of 35 MPa
- Tines made of 400 HB cutting edge steel



#### **Cactus grab P22V**

Model	Overall width (closed) mm	Opening width mm	Height (closed) mm	Capacity m <sup>3</sup>	No. of tines	Weight kg	Max. capacity load kg
P22V-450-4-T	1370	1910	1550	0.45	4	810	7000

#### **Scope of delivery**

Cactus grab, rotator, head plate with hose protector, check valve

#### **Rotator**

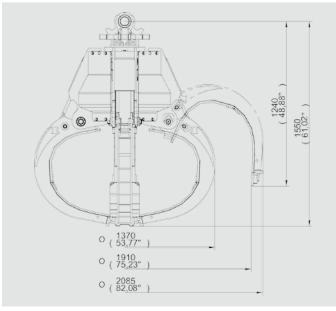
Features an unlimited rotation range and two oil passages. Pressure relief valves prevent overload.

Model	Upper connection dimension (Width x pin dia)	Torque	Bending moment (max.)
	mm	Nm	Nm
KM 10 F275-60	125 x 60	1500	14000

#### **Accessories**

KM 501 13t-25t	Upper suspension without pendulum damper
KM 511 13t-25t	Upper suspension with pendulum damper
SW10 cardanic	Grab adapter for Lehnhoff SW/MS10 – up to 19 t
SW21 cardanic	Grab adapter for Lehnhoff SW/MS21 – up to 28 t
	Adapter for quick-attach systems of other manufacturers available

	Open/close	Rotating
Operating pressure	max. 35 MPa (350 bar)	max. 32 MPa (320 bar)
Recommended flow rate	50 bis 150 l/min	25 bis 75 I/min





### **P30V**

## 4-tine cactus grab with a capacity of 0.6 m<sup>3</sup>, designed for bulky goods handling in machines with an operating weight of 20 t to 30 t

- Available with 4 tines in 4 different shapes: F, H, W, T (cf. diagrams appended below)
- Cylinders with interchangeable piston rod protectors and end position damping
- Dil distributors with integrated check valve housed directly beneath the rotator
- Oil distributors and hydraulic hoses are integrated in the unit carrier and thereby well protected
- Easy to reach lubrication points
- Reinforced tines made of 400 HB cutting edge steel
- Weld-on tips made of highly wear-resistant forged and tempered material: HB 500
- Closing force of 27 kN at an operating pressure of 35 MPa

#### **New features:**

- Accurate fittings eliminate tine distorsion, solid end stops (open & close)
- Reinforced pins, large pin surfaces, specially coated solid steel bushings
- Tine carrier with wide bottom aperture, facilitating the mounting of optional auxiliary equipment (Geiger counter, etc.)
- Flat rotator KM 15 F273-60; high maximum bending moment of 50000 Nm



#### **Cactus grab P30V**

Model	Overall width (closed) mm	Opening width mm	Height (closed) mm	Capacity m <sup>3</sup>	No. of tines	Weight kg	Max. capacity load kg
P30V-550-4-F	1520	2130	1860	0.6	4	1290	7000
P30V-550-4-H	1520	2130	1860	0.6	4	1180	7000
P30V-550-4-W	1520	2130	1860	0.6	4	1075	7000
P30V-550-4-T	1520	2130	1860	0.6	4	1050	7000

#### Scope of delivery

Cactus grab, rotator, head plate with hose protector, check valve

#### **Rotator**

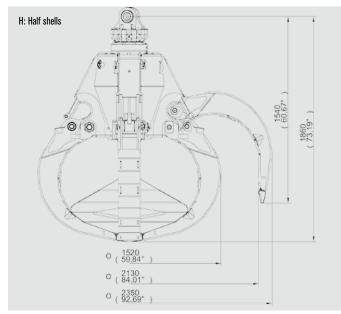
Features an unlimited rotation range and two oil passages. Pressure control valves prevent overload.

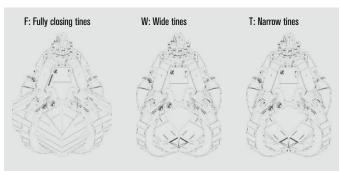
Model	Upper connection dimension (Width x pin dia)	Torque	Bending moment (max.)
	mm	Nm	Nm
KM 15 F273-60	125 x 60	2000	50000

#### **Accessories**

KM 501 13t-25t	Upper suspension without pendulum damper
KM 511 13t-25t	Upper suspension with pendulum damper
SW10 cardanic	Grab adapter for Lehnhoff SW/MS10 – up to 19 t
SW21 cardanic	Grab adapter for Lehnhoff SW/MS21 – up to 28 t
	Adapter for quick-attach systems of other manufacturers available
KM 685 06 bolt-on lifting eye	Base plate with bolt-on lifting eye
	Additional charge for head plate with hose protector

	Open/close	Rotating
Operating pressure	max. 35 MPa (350 bar)	15 - 32 MPa (320 bar)
Recommended flow rate	50 to 200 I/min	25 to 95 I/min





### P40V / P51V

4-tine cactus grab with a capacity of 0.8  $\rm m^3$  or 1.0  $\rm m^3$ , designed for bulky goods handling in machines with an operating weight of 40 to 50 t

- 4-tines available in two widths: W & T (cf. diagrams appended below)
- Cylinders with rapidly interchangeable piston rod protectors and end position damping
- Dil distributors with integrated check valve housed directly proximal to the rotator
- Dil distributors and hydraulic hoses are integrated in the tine carrier and thereby well protected
- Easy to reach lubrication points
- Reinforced tines made of wear-resistant 400 HB cutting edge steel
- Weld-on tips made of highly wear-resistant forged and tempered material: HB 500
- Closing force of 37 kN (P40V) or 33 kN (P51V) at an operating pressure of 35 MPa

#### **New features:**

- Accurate fittings eliminate tine distorsion, solid end stops (open & close)
- Reinforced pins, large pin surfaces, specially coated solid steel bushings
- Tine carrier with wide bottom aperture, facilitating the mounting of optional auxiliary equipment (Geiger counter, etc.)
- Flat rotator KM 15 F273-60; high maximum bending moment of 50000 Nm



#### Cactus grab P40V-800-4 / P51V-1000-4

Model	Overall width (closed) mm	Opening width mm	Height (closed) mm	Capacity m <sup>3</sup>	No. of tines	Weight kg	Max. capacity load kg
P40V-800-4-W	1585	2200	2075	0.8	4	1340	10000
P40V-800-4-T	1585	2200	2075	0.8	4	1310	10000
P51V-1000-4-W	1630	2440	2200	1.0	4	1480	10000
P51V-1000-4-T	1630	2440	2200	1.0	4	1455	10000

#### **Scope of delivery**

Cactus grab, rotator, head plate, check valve

#### **Rotator**

Features an unlimited rotation range and two oil passages. Pressure control valves prevent overload.

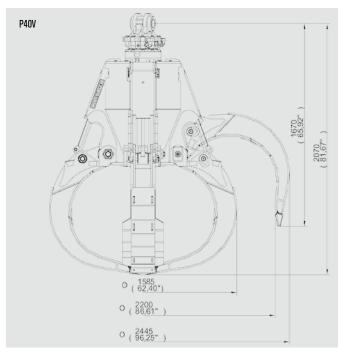
Model	Upper connection dimension (Width x pin dia)	Torque	Bending moment (max.)
	mm	Nm	Nm
KM 15 F273-70	180 x Ø 70	2000	50000

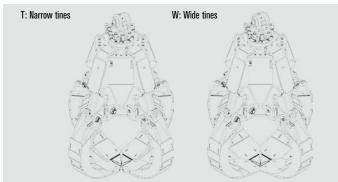
#### **Accessories**

KM 501 19t-60t	Upper suspension without pendulum damper
KM 511 19t-60t	Upper suspension with pendulum damper
SW25 cardanic	Grab adapter for Lehnhoff SW/MS25 – up to 40 t
	Adapter for quick-attach systems of other manufacturers available
KM 685 06 bolt-on lifting eye	Base plate with bolt-on lifting eye

Additional charge for head plate with hose protector

	Open/close	Rotating
Operating pressure	max. 35 MPa (350 bar)	15 - 32 MPa (320 bar)
Recommended flow rate	50 to 200 I/min	25 to 95 I/min





# GENERAL HANDLING AND INDUSTRIAL CLAMSHELL BUCKET C60H / C80H

Sturdy handling and industrial clamshell bucket, designed specifically for machines with an operating weight of 40 t to 60 t (C80H: to 80 t) loading dry bulk

- Large and therefore flat clamping curve achieved by widely spaced pivots; this ensures that the ground remains protected when, for instance, ships and freight carriages are unloaded
- Optimal loading facilitated by large-capacity torsionally rigid shells and precise positioning effected by means of the integrated rotator
- ▶ High durability owing to cutting edge steel made of Cracox Plus 450
- Sturdy, fully integrated four-point rotator equipped with a pressure relief valve that protects from overload; connecting hoses inside the hub
- Integrated check valve guarantees secure load holding
- High closing force effected by two horizontal hydraulic cylinders protected by the shell carrier (74 kN at an operating pressure of 35 Mpa; in the case of the C80H this is 95 kN)



#### GENERAL HANDLING AND INDUSTRIAL CLAMSHELL BUCKET C60H / C80H

Model	Overall width (closed) B	Capacity	Weight	Maximum capacity load	Torque		
	mm	m³	kg	kg	Nm		
CH60-125	1250	1.875	1700	9000	3000		
CH60-150	1500	2.250	1800	9000	3000		
CH60-175	1750	2.625	1900	9000	3000		
CH60-200	2000	3.000	2000	9000	3000		
CH60-250	2750	4.125	2300	9000	3000		
CH80-125	1250	2.500	2400	10000	3000		
CH80-150	1500	3.000	2500	10000	3000		
CH80-175	1750	3.500	2600	10000	3000		
CH80-200	2000	4.000	2700	10000	3000		
CH80-250	2500	5.000	3000	10000	3000		

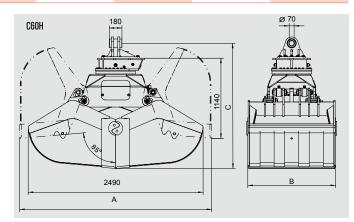
#### **Scope of delivery**

General handling and industrial clamshell bucket, integrated rotator with four-point bearing, (pin dia 70 mm / width 180 mm), check valve

#### **Accessories**

KM 501 19t-60t	Upper suspension without pendulum damper
KM 511 19t-60t	Upper suspension with pendulum damper
SW40 cardanic	Grab adapter Lehnhoff SW/ HS40 without suspension – up to 70 t
	Adapter for quick-attach systems of other manufacturers available

	C60H	C80H
Operating pressure	max. 35 MPa (350 bar)	max. 35 MPa (350 bar)
Recommended flow rate	100 to 250 I/min	100 to 300 I/min
Hydraulic connec- tions (grab/rotator)	G 1 1/4" / G 1/2"	G 1 1/4" / G 1/2"





### **TIMBER GRAB**

### **T30H**

The timber grab T30H is perfect for handling and sorting logs and plywood, manoeuvres that can present tough challenges. Suitable for machines with an operating weight of 25 t to 30 t

- Maximal loading height effected by compact design incorporating horizontally arranged cylinders. The low height of the T30H – notably when closed – is achieved by the overlapping clamping action of its tines
- An extended life span is ensured by the high-strength structural steels and large bearings used.

  All bearing points are, likewise, generously proportioned
- The optimal grab design permits handling of even small logs. When open, the cutting edges stand almost vertical, allowing easy access into the woodpile
- > Synchronization of tines effected by strong compensation rod
- Protection of hydraulic hoses thanks to short hose connections. The rotator with its unlimited rotation range and precise starting and stopping – makes precise positioning easy
- A high measure of hydraulic safety is ensured by the check valve, which ensures that a constant closing force is maintained even when a drop in pressure occurs
- Extremely powerful: a high closing force is achieved at an operating pressure of as little as 32 MPa



#### Timber grab T30H

Modell	Cross-sectional area	Height B	Height C	Diameter D1	Min. log diameter D2	Opening width A	Weight	Load capacity
	m²	mm	mm	mm	mm	mm	kg	kg
T30H-3-0.35	0.35	1150	1560	650	120	1670	505	6000
T30H-3-0.50	0.50	1185	1660	770	190	1865	515	6000
T30H-3-0.60	0.60	1220	1750	840	190	2010	530	6000
T30H-3-0.75	0.75	1280	1870	940	200	2240	560	6000
T30H-3-1.00	1.00	1360	2060	1080	210	2590	605	6000
T30H-3-1.25	1.25	1400	2210	1210	210	2870	645	6000
T30H-3-1.50	1.50	1480	2370	1340	280	3130	710	6000

#### **Accessories**

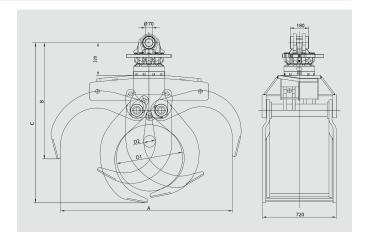
KM 15 F273-70 KINSHOFER rotator recommended for T30H-3; maximum load capacity up to 15 t

#### **Carrier requirements**

Operating pressure 32 MPa (320 bar)

Recommended 75 - 150 l/min





### TREE-LENGTH GRAPPLE

### KM 634-S

#### The tree-length grapple KM 634-S is ideal for heavy-duty applications

- Maximal loading height effected by compact design incorporating horizontally arranged cylinders. The low height of the KM 634-S - notably when closed - is achieved by the overlapping action of its tines
- An extended life span is ensured by the high-strength structural steels and large bearings used. All bearing points come with steel bushings and hardened pins
- The optimal grab design permits the handling of very thin residual wood. When open, the cutting edges stand almost vertical, allowing easy access into the woodpile
- Synchronization of tines effected by strong compensation rod
- Protection of hydraulic hoses thanks to short hose connections. The KINSHOFER rotator for this timber grab comes with a hose protector
- The KINSHOFER rotator with its unlimited rotation range and precise starting and stopping makes precise positioning easy
- A high measure of hydraulic safety is ensured by the check valve, which ensures that a constant closing force is maintained even when a drop in pressure occurs
- The upgraded version, KM 634S, is equipped with reinforced tines and a reinforced carrier plate, thus making it ideal for particularly heavy-duty applications
- A high closing force (13 to 16 kN at an operating pressure of 24 MPa) makes this an extremely powerful tool



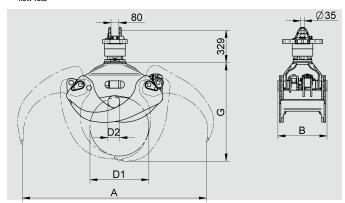
Model	Cross-sectional area m²	Overall width B mm	Min. log-dia. D2 mm	Opening width A mm	Weight kg	Closing force	Maximum load capacity kg
KM 634S-0.40	0.40	510	135	1950	270	16	6000
KM 634S-0.50	0.50	510	170	1985	275	16	7000
KM 634S-0.70	0.70	590	110	2570	530	15	8000

#### **Accessories**

KM 06 F173-35	Recommended KINSHOFER rotator
KM 10 F173-35/1	Recommended KINSHOFER rotator
KM 638-680	Saw grab with a blade length of 680 mm - max. log diameter 550 mm
KM 638-880	Saw grab with a blade length of 880 mm - max. log diameter 750 mm

#### **Carrier requirements**

•	
Operating pressure	24 MPa (240 bar)
Recommended flow rate	25 to 75 l/min





#### HYDRAULIC SAW KM 638-680 / KM 638-880

Works most efficiently with the tree-	ength grapple KM 634-S
Blade length	680 / 800 mm
Pivot angle	90 degrees
Pivot speed	90 degrees in 6 seconds
Cutting area	0,35 / 0,65 m²
Max. log diameter	550 / 800 mm
Blade length	680 / 800 mm
Cutting speed	21 m / seconds
Chain pitch	0,04"
Oil tank volume	2,2
Hydraulic pressure for feed force	19 bar
Operating weight (saw only)	ca. 65 / 95 kg



Flow rate

### **TIMBER GRAB**

### **T25V / T40V**

Timber handling grab for machines and material handling machines with an operating weight of 18 t to 25 t (T25V) and 25 t to 40 t resp. (T40V)

- ▶ High durability owing to cutting edge steel with a Brinell hardness of 500 HB
- Reduced wear owing to ample use of steel alloy
- Rotator integrated in the middle section
- Excellent closing characteristics
- Closing force of 45 kN (T25V at 0.80 m²), and 49kN (T40V at 1.00m²), given an operating pressure of 35 MPa



#### Timber grab T25V / T40V

Model	Opening width	Height C + rotator	Min. log diameter	Capacity	Weight	Clamping force	Maximum load capacity
	mm	mm	mm	m²	kg	kN	kg
T25V-0.80	2100	2090	100	0.80	1225	45	6000
T25V-1.00	2250	2155	125	1.00	1235	42	6000
T25V-1.25	2420	2245	150	1.25	1265	40	6000
T25V-1.50	2780	2405	175	1.50	1340	34	6000
T40V-1.00	2330	2505	100	1.00	1380	49	6000
T40V-1.25	2500	2590	120	1.25	1450	45	6000
T40V-1.50	2850	2705	135	1.50	1520	40	6000
T40V-1.75	3100	2830	150	1.75	1590	36	6000

#### **Scope of delivery**

Timber grab, rotator, check valve, hose protector, 2 welded hooks

#### **Rotator**

Features an unlimited rotation range and two oil passages. Pressure control valves prevent overload.

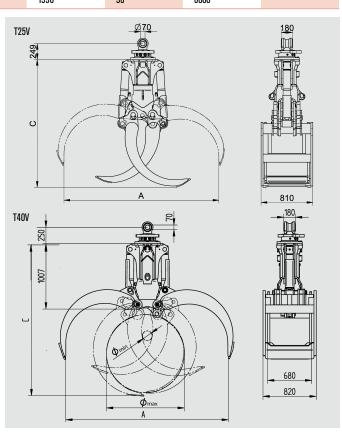
Model	Upper connection dimension (Width x pin dia)	Torque	Bending moment (max.)
	mm	Nm	Nm
KM 15 F340-70	180 x 70	3000	25000

#### **Accessories**

KM 501 19t-60t	Upper suspension without pendulum damper
KM 511 19t-60t	Upper suspension with pendulum damper
SW10 cardanic	Grab adapter Lehnhoff SW/MS10 without suspension/universal joint – up to 19 t
SW21 cardanic	Grab adapter Lehnhoff SW/MS21 without suspension/universal joint – up to 28 t
SW25 cardanic	Grab adapter Lehnhoff SW/MS25 without suspension/universal joint – up to 40 t

Adapter for quick-attach systems of other manufacturers available

Operating pressure	max. 35 MPa (350 bar)
Recommended flow rate	75 - 150 I/min



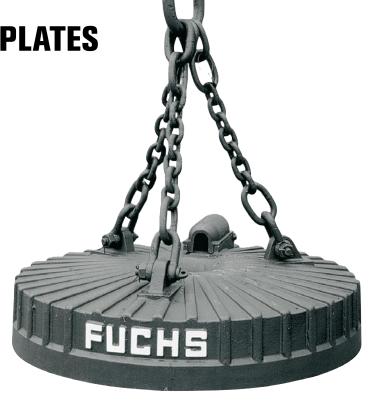
**LOAD-LIFTING MAGNETIC PLATES** 

**TMP** 

Terex® Fuchs strong, high-performance load-lifting electro-magnetic systems are designed for use in scrap yards and storage facilities

A high handling capacity is guaranteed by the strong magnetic field that extends diametrically across the entire magnetic disc. Control is effected by means of counter-excitation achieved by temporarily opposing poles, ensuring that even the smallest ferrous parts are dropped. Various models are available, each designed for a specific application: these include hydraulically rotating and fixed magnetic discs or magnetic discs with chain suspension:

- Outer parts of the magnet made of special alloy casting(s)
- Magnetic discs made of special dynamo stainless steel castings and non-magnetisable steel base plate
- Hollow core facilitating diffusion of the operating temperature and providing safe drop ball operation
- Hydraulic rotator in the upper part of the magnet for magnetic discs up to 1250 mm in diameter: encapsulated to ensure wear-resistance and impermeability to water
- Designed for use with DC generators and AC generators equipped with a rectifier

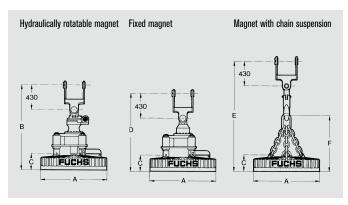


#### **Magnetic devices TMP**

Model	Metrics						Operating data			
	Magnet diameter A mm	Height B (hydraulically rotatable) mm	Height C to upper mount mm	Height D with fixed magnet mm	Height E with chain and sus- pension mech. mm	Height F to chain suspension mm	Strength of current	Output	Operating voltage V	DC generator (recommen- ded) kW
TMP 950	950	1503	300	1380	1815	1023	16.4	3.6	220	9/11
TMP 1150	1150	1488	285	1365	1932	1140	24.1	5.3	220	11
TMP 1250	1250	1513	320	1390	2297	1505	31.6	6.95	220	13
TMP 1350	1350		340		2292	1500	37.3	8.2	220	13
TMP 1500	1500						39.5	10	220	20
TMP 1750	1750						71.4	15.7	220	30
TMP 2000	2000						90	19.8	220	30

Model				~ Lifting force up to the permissible payload						
	Hydraulically rotatable magnet	Fixed magnet	Magnet with chain suspension	Scrap type: single slabs	Scrap type: drop balls	Scrap type: punching slugs	Scrap type: ingots	Scrap type: scrap iron	Core scrap: type 24	Steel chips: type 24
	kg	kg	kg	Nm	Nm	Nm	Nm	Nm	Nm	Nm
TMP 950	1200	1010	800	100	30	6	4.6	4	3.6	1.9
TMP 1150	1570	1380	1104	120	40	7.5	6.4	5.2	4.8	2.4
TMP 1250	1865	1660	1493	140	50	10	8.1	6.3	5.2	3
TMP 1350			1760	150	60	12	9.5	7.4	6.5	3.6
TMP 1500				196	70		11	9.5	8.5	4.2
TMP 1750			3550	300	80		16	13.5	12	7
TMP 2000			5250	380	90		20	18	15	10

In magnetic suspensions equipped with quick-change system, the total weight increases by 40 kg. The attachment of the various magnets to the machines is dependent upon the size of the generator and is applicable only to Terex® Fuchs magnets.



### **LOAD HOOK**

### TLH

#### Terex® Fuchs high load rating load hook

The Terex® Fuchs load hook has a load rating of up to 20 tonnes and is principally deployed in heavy-

duty material handling. A wide range of variants ensures congruence with fields of application, simplifying deployment. Terex® Fuchs supplies load hooks with (static or revolving) quick-attach mechanisms.



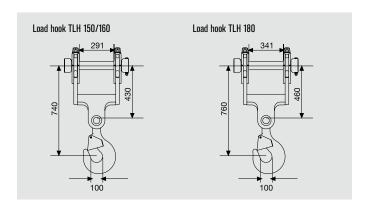


#### Load hook TLH with quick-attach mechanism

Modell	Weight kg	Fixed or rotating	Rotating	Permissible load rations and the second rations are second rations as the seco	ng as per category 1B <sub>m</sub> t		
TLH 150	150	•		10			
TLH 160	160		•		20		
TLH 180	180		•		20		

#### **Carrier requirements**

Model	Adapter width mm	Pin diameter mm
TLH 150/160	290	340
TL 180	70	80



#### www.terex-fuchs.com

Effective: October 2010. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks or trade-names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex® is a registered trademark of Terex Corporation in the USA and many other countries. © Terex Corporation.

