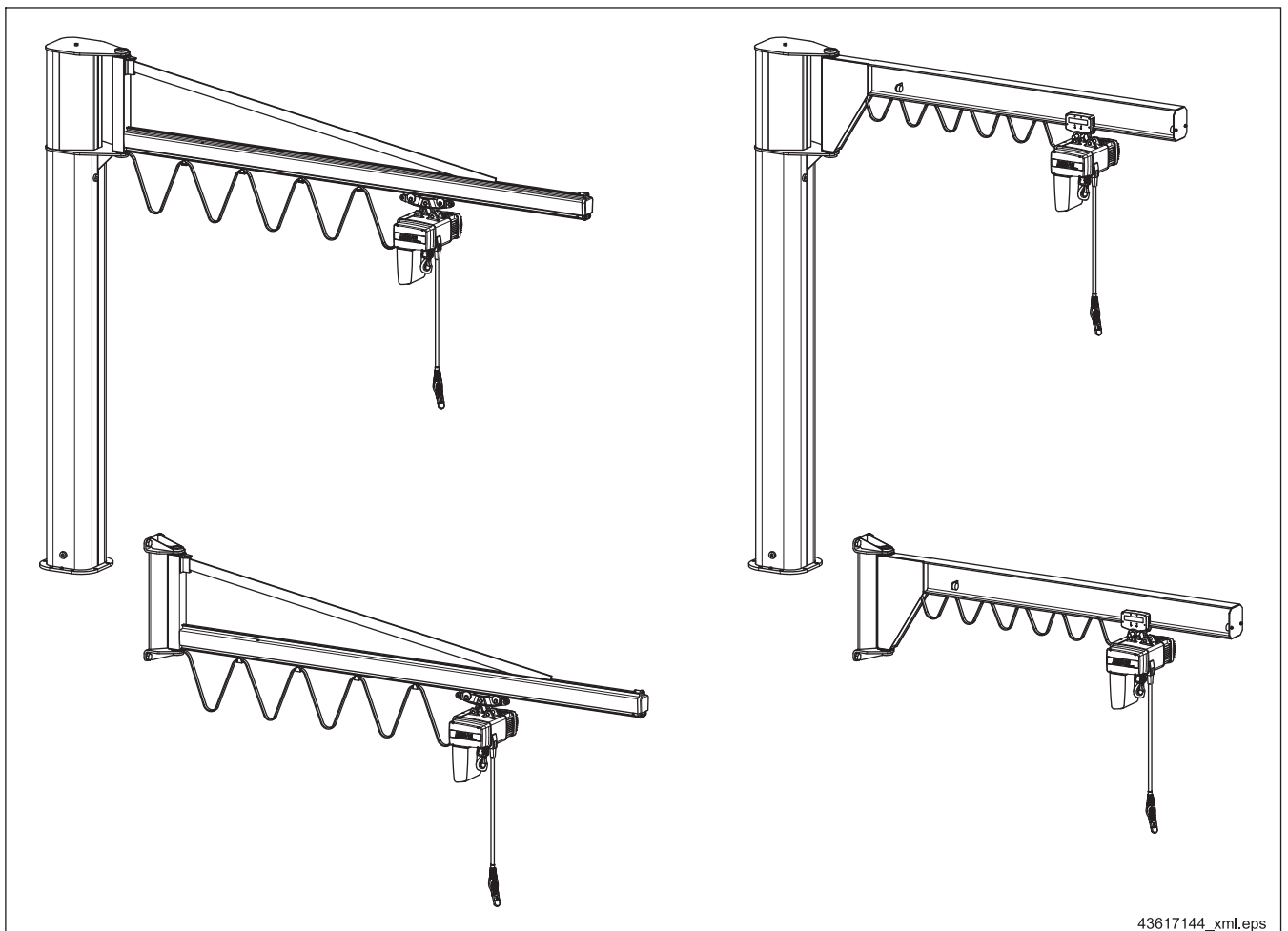


# Technical data/component parts

Demag pillar and wall-mounted slewing jib cranes



43617144\_xml.eps

## Manufacturer

### Terex MHPS GmbH

Forststrasse 16  
40597 Düsseldorf, Germany  
www.demagcranes.com  
mhps-info@terex.com

Further documents are available for sub-assemblies/components in addition to these operating instructions. The corresponding documents are supplied as necessary or can be ordered separately – also for special designs or if additional options are ordered which differ from these operating instructions.

Documents <sup>1)</sup>	Part no.	
<b>Technical data/catalogues</b>	General KBK system	202 976 44
	Slewing jib crane	203 814 44
	KBK anchor bolt connection	203 276 44
	KBK cranes and tracks in explosion hazard areas	203 371 44
	Demag DC-Pro/DC-Com chain hoist	203 525 44
	U11-U34/DC/DCM/DK trolley	203 569 44
	RU/EU56 trolley	203 691 44
<b>Operating instructions/component parts</b>	KBK installations	206 076 44
	Explosion protection for KBK installations	214 782 44
	DC-Pro/Com 1-15 chain hoist	211 273 44
	DCS-Pro chain hoist	214 827 44
	DC-ProDC/CC/FC 1-15 chain hoist	211 193 44
	PGS parallel grippers	214 095 44
<b>Assembly – Adjustment – Dimensions</b>	DRF 200 travel drive	214 395 44
	Installation report on anchor bolts for KBK installations	214 563 44
	DC geared limit switches	211 011 44
	Friction force checking device	206 973 44
	DC protective sleeve	211 227 44
	DSC strain relief device	211 092 44
<b>Test and inspection booklet</b>	DC test and inspection booklet	214 745 44

Tab. 1



The metric system is used in this document and all figures are shown with a comma as the decimal separator.

<sup>2</sup> <sup>1)</sup> The documents can be ordered from the relevant Demag office.

# Table of contents

<b>1</b>	<b>Demag pillar and wall-mounted slewing jib cranes</b> .....	4
1.1	General.....	4
1.2	Design overview .....	4
1.3	Model code.....	5
1.4	Surface protection and paint finish .....	5
<b>2</b>	<b>Pillar-mounted slewing jib cranes, dimensions and data</b> .....	6
2.1	KBK pillar-mounted slewing cranes.....	6
2.2	I-beam section pillar-mounted slewing jib cranes, fitted with brace .....	8
2.3	I-beam section pillar-mounted slewing jib cranes, low-headroom design .....	10
2.4	Pillars.....	12
2.5	Anchor bolt set and template.....	14
2.6	Anchorage .....	14
2.7	Pillar-mounted slewing crane with two jibs.....	15
<b>3</b>	<b>Wall-mounted slewing jib cranes, dimensions and data</b> .....	16
3.1	KBK wall-mounted slewing jib cranes .....	16
3.2	I-beam section wall-mounted slewing jib cranes, fitted with brace.....	18
3.3	I-beam section wall-mounted slewing jib cranes, low-headroom design.....	20
3.4	Brackets .....	22
3.5	Bracket clamping arrangements.....	23
<b>4</b>	<b>Jib</b> .....	24
4.1	Jib model code .....	24
4.2	Jib with KBK profile section, fitted with brace .....	24
4.3	Jib with I-beam section, fitted with brace.....	25
4.4	Jib with I-beam section, low-headroom design .....	26
<b>5</b>	<b>Components</b> .....	28
5.1	Support bearings .....	28
5.1.1	Bearing with KBK 100 jib.....	28
5.1.2	Support bearing for all other sizes.....	28
5.2	Trolleys.....	28
5.2.1	KBK trolley.....	28
5.2.2	Load bar .....	29
5.2.3	Trolley on I-beam .....	29
5.3	Hoist units.....	30
5.4	Maker's plate and load capacity plate .....	31
5.4.1	KBK jib.....	31
5.4.2	I-beam jib.....	32
5.5	Slewing jib cranes with electric slewing mechanisms .....	32
5.6	Electric equipment.....	33
<b>6</b>	<b>Options</b> .....	34
6.1	Slewing limit .....	34
6.2	Hoist trolley locking device on the KBK jib .....	34
6.3	Canopy on the KBK jib .....	34

# 1 Demag pillar and wall-mounted slewing jib cranes

## 1.1 General

Demag pillar-mounted and wall-mounted slewing jib cranes are rated to DIN 15018, lifting class H1, loading group B3.

Smooth-running trolleys and special bearings on the jibs facilitate very low travel and slewing forces.

### Types

The types shown can be adapted to provide solutions for virtually any application:

- with a jib supported by a brace or of low-headroom design,
- with a KBK or I-beam profile section.

Special solutions on request.

### Hoists

The selection tables shown on the following pages have been compiled for hoist units with lifting speeds up to  $v = 16$  m/min. Please refer to the section on hoists for further data on hoist units and permissible deadweights.



The regulations and data in the operating instructions for Demag pillar and wall-mounted slewing jib cranes must be observed. Such as

- safety instructions,
- use of spare parts,
- liability and warranty,
- intended use,
- notes for assembly.

## 1.2 Design overview

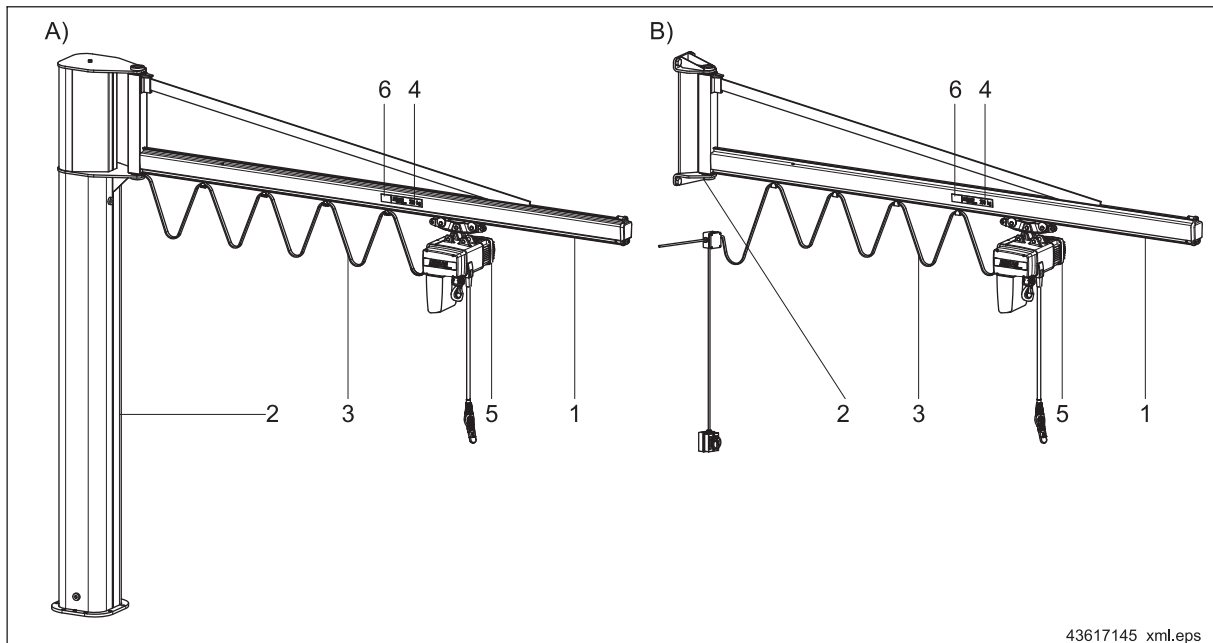


Fig. 1

Item	Designation	Item	Designation
A	Pillar-mounted slewing jib crane (SSK)	B	Wall-mounted slewing jib crane (WSK)
1	Jib and buffer	4	Load capacity plate (2 off)
2	Bracket or pillar complete, pivot bearing	5	Hoist and trolley
3	Electric equipment and cable carriers	6	Manufacturer's plate

Tab. 2

### Further pillar-mounted slewing jib crane sub-assemblies

- Anchor bolt set,
- Heavy-duty anchors with intermediate plate to document "KBK anchor bolt connection" see  $\Rightarrow$  Tab. 1, Page 2.

### 1.3 Model code

JC-	P-	270-	I-	LH-	M-	2000-	4,0
							Outreach [m]
						Load capacity [kg]	
					M	Manual slewing	
					E	Electric slewing	
				Slewing arm design			
				LH	low-headroom		
				BR	supported by brace		
			Slewing arm profile section				
			I	I-beam			
			KBK	KBK profile section			
		Slewing range					
	P	Pillar-mounted slewing jib crane					
	W	Wall-mounted slewing jib crane					

#### JC product range

Tab. 3 Example for model code

**Not all features of the model code can be combined.**

### 1.4 Surface protection and paint finish

As standard, Demag pillar or wall-mounted slewing jib cranes are supplied with corrosion protection in the following colours:

Finish		
Pillar, bracket, jib	RAL 1007	Daffodil yellow

Tab. 4

Other colours are also possible.

## 2 Pillar-mounted slewing jib cranes, dimensions and data

### 2.1 KBK pillar-mounted slewing cranes

#### Manual slewing motion

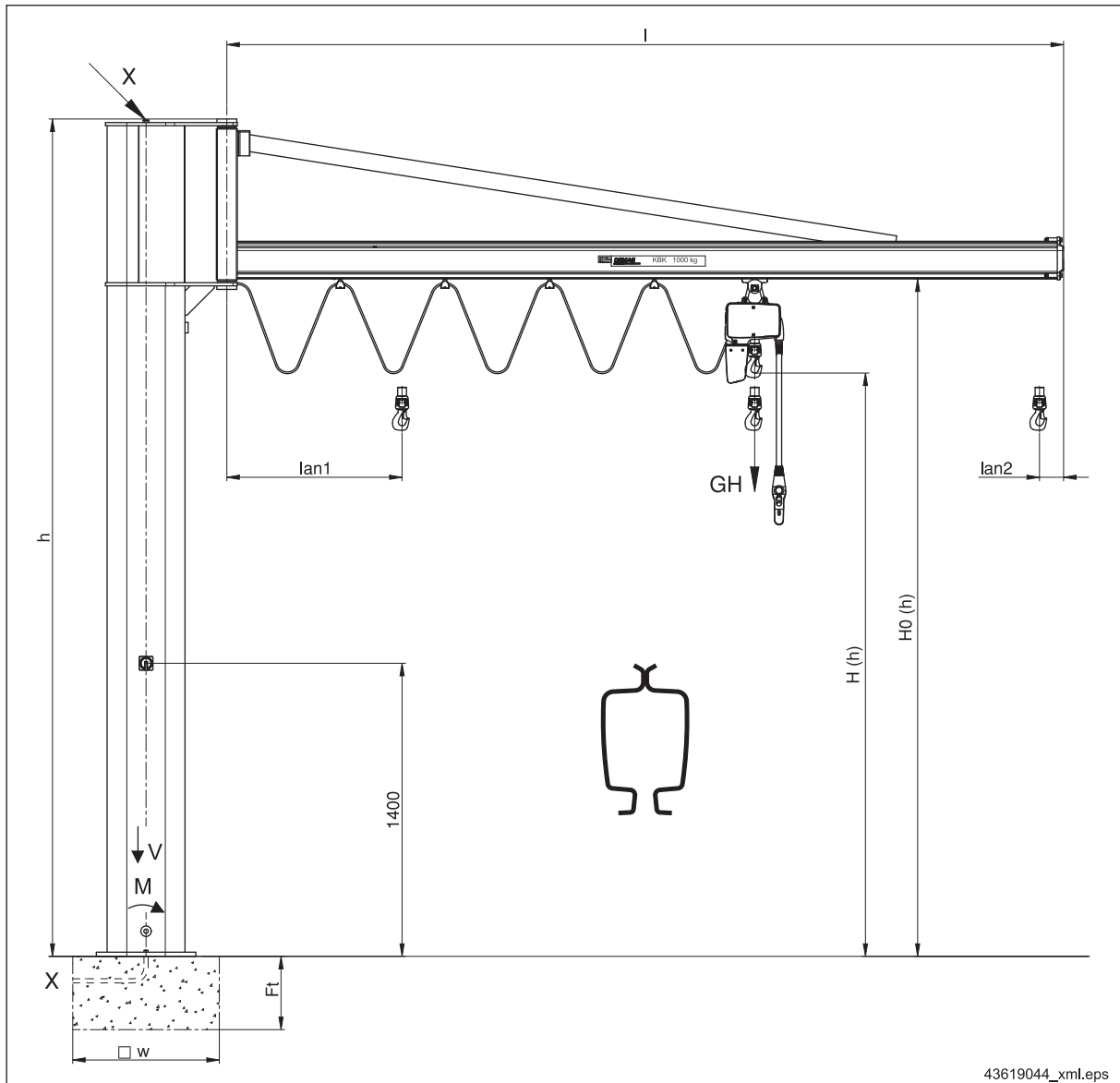


Fig. 2

Item	Designation	Item	Designation
H	Max. hook path for height h	lan1	Hoist approach dimension to centre of supporting tube
H0	Bottom edge of jib for height h	lan2	Hoist approach dimension to jib end
h	Standard height	f	Calculated deflection under full load with jib in 0° position
l	Outreach	x	Power supply optionally through duct from below or through bore hole from above
Ft	Foundation depth ⇒ "Anchor bolt set and template", Page 14, ⇒ "Anchorage", Page 14		

Jib shown in 0° position; Pillar 1 (140) slewing range approx. 270° (2 x 135°), slewing range for all other pillars approx. 300° (2 x 150°)

Tab. 5

Load capacity [kg]	Outreach I	Jib	Jib profile section	Pillar type	lan1	lan2	H (h)	H0 (h)	M	V	□ w
	[m]	Part no.			[mm]	[mm]	[mm]	[mm]	[kNm]	[kN]	[mm]
80	2	984 562 44	KBK 100	1 (140)	417,5	100	2266	2650	2,2	2,0	700
	3	984 563 44	KBK 100	1 (140)	462,5	100	2266	2650	3,4	2,0	850
	4	668 304 44	KBK I	3 (258)	555	100	2113	2494	5,43	1,97	950
	5	668 305 44	KBK I	3 (258)	600	100	2113	2494	7,01	2,08	1050
	6	669 306 44	KBK II	4 (296)	1040	115	2358	2736	11,18	3,31	1150
	7	669 307 44	KBK II	4 (296)	1105	115	2358	2736	13,79	3,54	1250
125	2	668 302 44	KBK I	2 (205)	465	100	2113	2494	3,50	2,10	800
	3	669 303 44	KBK I	2 (205)	510	100	2113	2494	5,34	2,23	950
	4	668 304 44	KBK I	3 (258)	555	100	2113	2494	7,27	2,42	1050
	5	669 305 44	KBK II	4 (296)	975	115	2358	2736	11,09	3,52	1150
	6	669 306 44	KBK II	4 (296)	1040	115	2358	2736	13,92	3,75	1250
	7	669 307 44	KBK II	5 (372)	1105	115	2358	2736	17,19	4,29	1350
250	2	668 302 44	KBK I	2 (205)	465	100	2113	2494	6,21	3,38	1000
	3	668 303 44	KBK I	3 (258)	510	100	2113	2494	9,48	3,62	1150
	4	669 304 44	KBK II	4 (296)	910	115	2358	2736	13,86	4,57	1250
	5	669 305 44	KBK II	5 (372)	975	115	2358	2736	18,00	5,11	1350
	6	669 306 44	KBK II	5 (372)	1040	115	2358	2736	22,12	5,33	1450
	7	670 307 44	KBK II	6 (435)	1115	115	2600	2978	27,01	6,54	1500
500	2	669 302 44	KBK II	4 (296)	780	115	2313	2736	13,14	6,99	1200
	3	669 303 44	KBK II	4 (296)	845	115	2313	2736	19,46	7,24	1350
	4	669 304 44	KBK II	5 (372)	910	115	2313	2736	26,27	7,72	1500
	5	670 305 44	KBK II	6 (435)	985	115	2555	2978	33,46	8,85	1550
	6	670 306 44	KBK II	6 (435)	1050	115	2555	2978	40,57	9,10	1650
	7	670 307 44	KBK II	7 (515)	1175	115	2600	2978	50,00	10,00	1750
1000	2	669 302 44	KBK II	5 (372)	905	240	2193	2736	23,65	12,34	1450
	3	669 303 44	KBK II	5 (372)	970	240	2193	2736	35,03	12,59	1650
	4	670 304 44	KBK II	6 (435)	1045	240	2435	2978	47,31	13,69	1750
	5	670 308 44	KBK II	6 (435)	1110	240	2435	2978	59,87	14,24	1900
	6	670 309 44	KBK II	7 (515)	1175	240	2435	2978	72,94	15,06	2000

Tab. 6

## 2.2 I-beam section pillar-mounted slewing jib cranes, fitted with brace

Manual or electric slewing motion

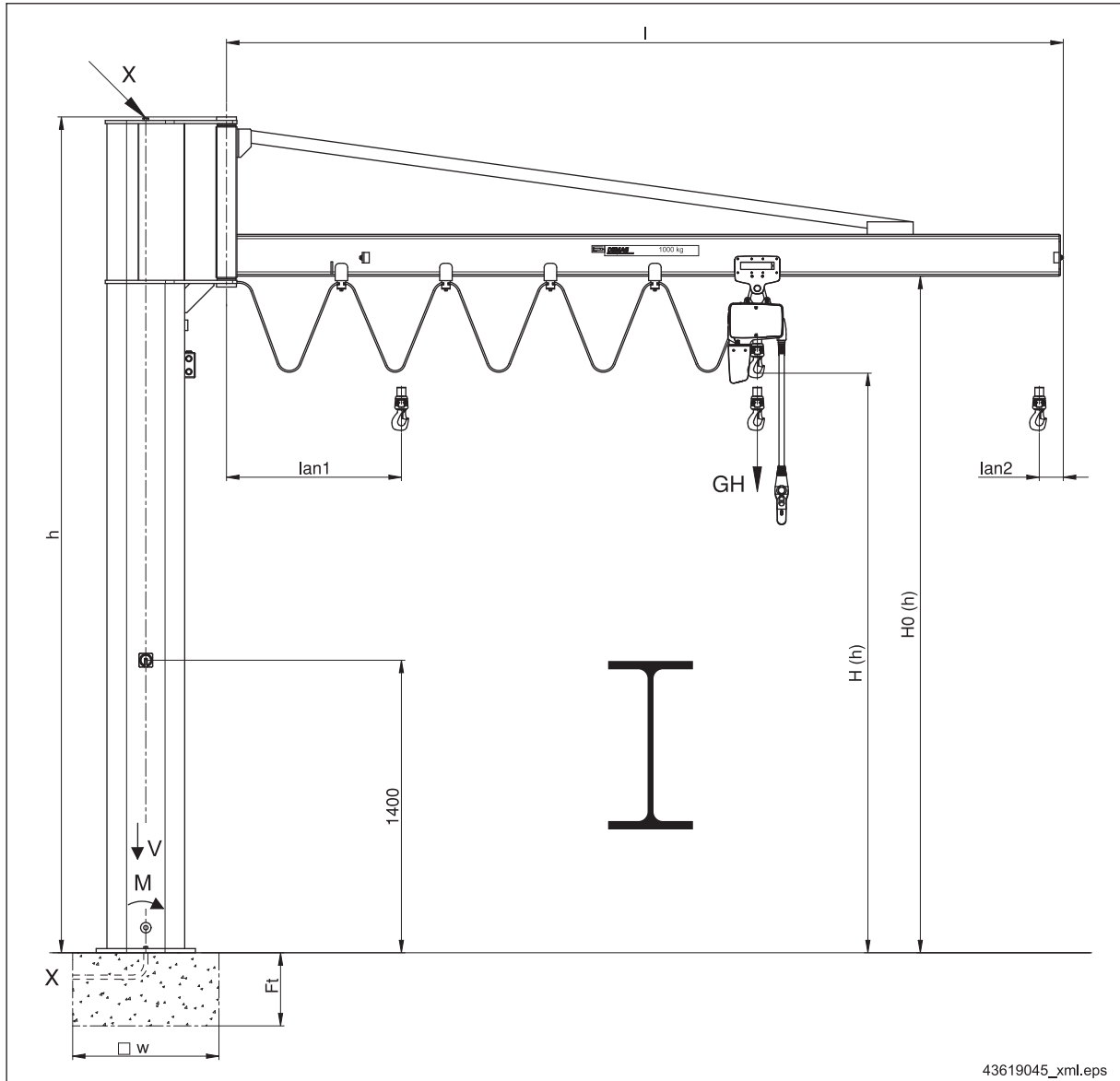


Fig. 3

Item	Designation	Item	Designation
H	Max. hook path for height h	lan1	Hoist approach dimension to centre of supporting tube
H0	Bottom edge of jib for height h	lan2	Hoist approach dimension to jib end
h	Standard height	f	Calculated deflection under full load with jib in 0° position
l	Outreach	x	Power supply optionally through duct from below or through bore hole from above
Ft	Foundation depth ⇒ "Anchor bolt set and template", Page 14, ⇒ "Anchorage", Page 14		

Jib shown in 0° position; manual slewing range approx. 300° (2 x 150°), electric slewing range approx. 280° (2 x 140°)

Tab. 7



Slewing	Load capacity	Outreach l [m]	Jib	Jib profile section	Pillar type	lan1	lan2	H (h)	H0 (h)	M	V	□ w	
	[kg]		Part no.			[mm]	[mm]	[mm]	[mm]	[kNm]	[kN]	[mm]	
Manual	250	8	670 345 44	IPE200	6 (435)	1101	139	2586	2980	34,67	7,39	1600	
	500	7	670 346 44	IPE200	6 (435)	1041	139	2534	2980	50,72	10,01	1800	
		8	670 355 44	IPE240	7 (515)	1191	139	2534	2980	61,91	11,46	1900	
	1000	7	670 356 44	IPE240	7 (515)	1131	139	2445	2980	90,55	16,16	2200	
		8	670 322 44	HEA160	7 (515)	1131	139	2445	2980	105,25	16,90	2300	
	1250	4	670 360 44	IPE240	7 (515)	971	159	2348	2980	63,44	17,84	1900	
		5	670 359 44	IPE240	7 (515)	1031	159	2348	2980	78,98	18,23	2050	
		6	670 358 44	IPE240	7 (515)	1091	159	2348	2980	94,89	18,61	2200	
	1600	4	670 360 44	IPE240	7 (515)	971	159	2348	2980	78,38	21,28	2050	
		5	670 359 44	IPE240	7 (515)	1031	159	2348	2980	97,36	21,66	2200	
		6	670 358 44	IPE240	7 (515)	1091	159	2348	2980	116,70	22,04	2350	
	2000	4	670 360 44	IPE240	7 (515)	971	159	2238	2980	95,47	25,20	2200	
		5	670 359 44	IPE240	7 (515)	1031	159	2238	2980	118,36	25,58	2350	
	Electric	250	6	669 375 44	IPE200	5 (372)	1031,4	139	2386	2780	24,03	6,17	1500
			7	669 326 44	HEA160	5 (372)	1151,4	139	2386	2780	30,88	6,96	1650
			8	670 330 44	HEA160	6 (435)	1161,4	139	2628	3022	38,61	8,85	1650
		500	4	669 377 44	IPE200	5 (372)	911,4	139	2334	2780	27,62	8,50	1550
			5	669 376 44	IPE200	5 (372)	971,4	139	2334	2780	34,66	8,76	1650
6			670 375 44	IPE200	6 (435)	1041,4	139	2576	3022	43,18	10,18	1700	
7			670 328 44	HEA160	6 (435)	1161,4	139	2576	3022	53,66	11,30	1800	
8			670 381 44	HEA160	7 (515)	1161,4	139	2576	3022	63,49	12,34	1900	
1000		4	670 377 44	IPE200	6 (435)	921,4	139	2487	3022	49,97	14,58	1750	
		5	670 376 44	IPE200	6 (435)	981,4	139	2487	3022	62,25	14,88	1900	
		6	670 378 44	IPE240	7 (515)	1041,4	139	2487	3022	77,26	16,23	2050	
		7	670 329 44	HEA160	7 (515)	1161,4	139	2487	3022	91,05	16,86	2200	
		8	670 382 44	HEA160	7 (515)	1161,4	139	2487	3022	105,38	17,35	2300	
1250		4	670 380 44	IPE240	7 (515)	941	159	2487	3022	63,60	18,30	1900	
		5	670 379 44	IPE240	7 (515)	1001	159	2487	3022	79,14	18,68	2050	
		6	670 327 44	HEA160	7 (515)	1121	159	2487	3022	95,28	19,28	2200	
1600		4	670 380 44	IPE240	7 (515)	941	159	2390	3022	78,55	21,73	2050	
		5	670 379 44	IPE240	7 (515)	1001	159	2390	3022	97,52	22,12	2200	
		6	670 327 44	HEA160	7 (515)	1121	159	2390	3022	117,09	22,71	2350	
2000		4	670 380 44	IPE240	7 (515)	941	159	2280	3022	95,63	25,65	2200	
		5	670 379 44	IPE240	7 (515)	1001	159	2280	3022	118,53	26,04	2350	

Tab. 8

## 2.3 I-beam section pillar-mounted slewing jib cranes, low-headroom design

Manual or electric slewing motion

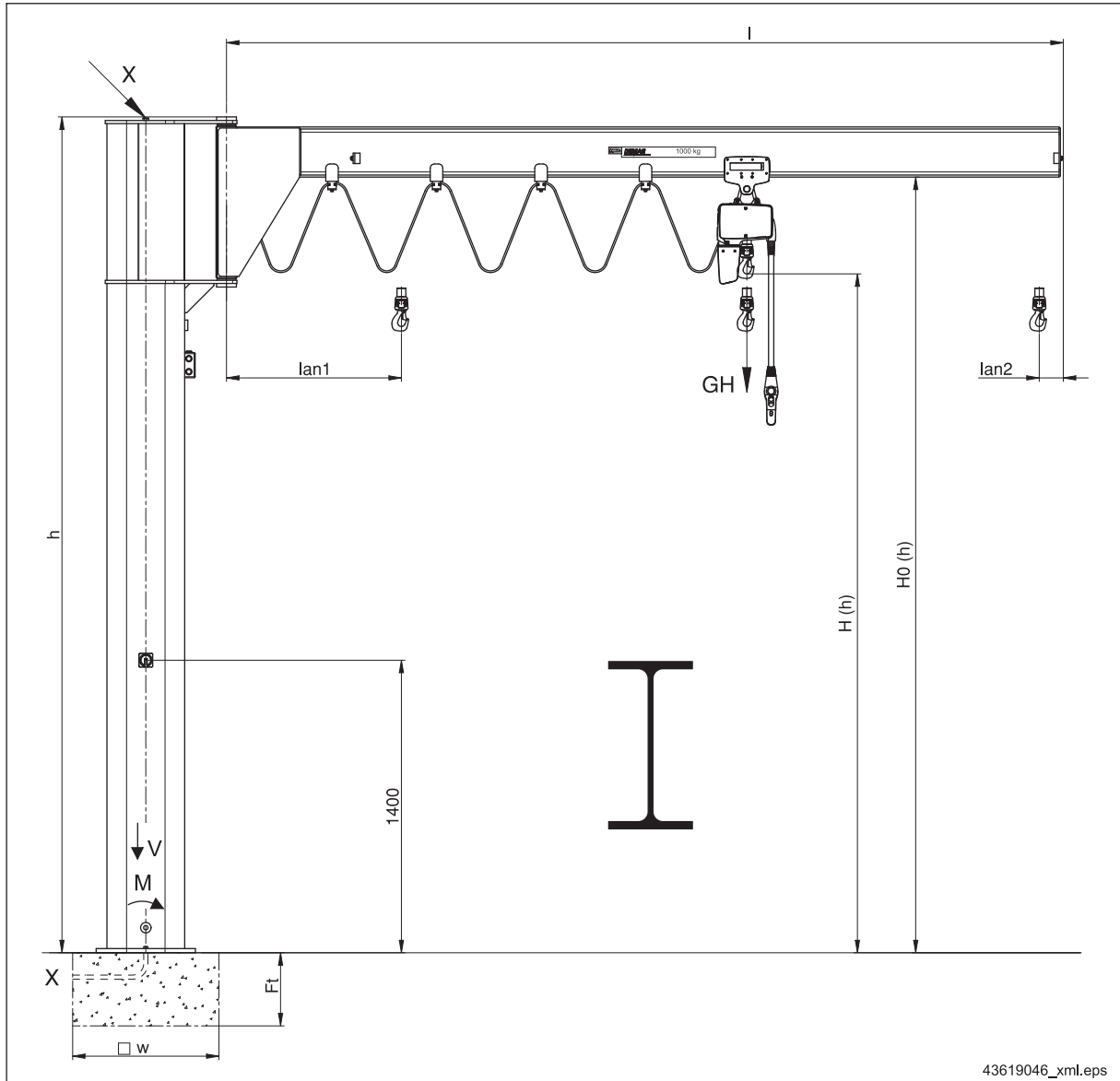


Fig. 4

Item	Designation	Item	Designation
H	Max. hook path for height h	lan1	Hoist approach dimension to centre of supporting tube
H0	Bottom edge of jib for height h	lan2	Hoist approach dimension to jib end
h	Standard height	f	Calculated deflection under full load with jib in 0° position
l	Outreach	x	Power supply optionally through duct from below or through bore hole from above
Ft	Foundation depth ⇒ "Anchor bolt set and template", Page 14, ⇒ "Anchorage", Page 14		

Jib shown in 0° position; slewing range approx. 290° (2 x 145°)

Tab. 9

Slewing	Load capacity [kg]	Outreach l [m]	Jib	Jib profile section	Pillar type	lan1 [mm]	lan2 [mm]	H (h) [mm]	H0 (h) [mm]	M [kNm]	V [kN]	□ w [mm]
			Part no.									
Manual	125	2	668 348 44	IPE160	2 (205)	541	139	2406	2800	3,92	2,45	850
		3	668 347 44	IPE160	2 (205)	601	139	2406	2800	6,02	2,60	1000
		4	668 350 44	IPE200	3 (258)	671	139	2366	2760	9,01	3,17	1100
		5	668 349 44	IPE200	3 (258)	731	139	2366	2760	11,74	3,39	1250
	250	2	668 352 44	IPE200	3 (258)	611	139	2366	2760	6,94	4,01	1000
		3	668 351 44	IPE200	3 (258)	671	139	2366	2760	10,50	4,22	1200
		4	669 352 44	IPE240	4 (296)	741	139	2818	3212	15,35	5,26	1300
		5	669 351 44	IPE240	4 (296)	801	139	2818	3212	19,76	5,56	1400
		6	670 335 44	IPE300	6 (435)	941	139	3246	3640	27,77	8,04	1450
		7	670 350 44	IPE360	6 (435)	1076	139	3186	3580	37,73	9,50	1600
	500	2	669 354 44	IPE240	4 (296)	681	139	2766	3212	13,64	7,50	1200
		3	669 353 44	IPE240	4 (296)	741	139	2766	3212	20,29	7,80	1400
		4	669 362 44	IPE300	5 (372)	821	139	2706	3152	28,93	9,00	1550
		5	669 361 44	IPE300	5 (372)	881	139	2706	3152	36,76	9,42	1700
		6	670 337 44	IPE360	7 (515)	1081	139	3134	3580	49,60	12,42	1750
		7	670 363 44	IPE400	7 (515)	1211	139	3094	3540	61,94	13,63	1900
	1000	2	669 364 44	IPE300	5 (372)	761	139	2617	3152	25,74	13,18	1450
		3	669 363 44	IPE300	5 (372)	821	139	2617	3152	37,75	13,59	1700
		4	670 352 44	IPE360	6 (435)	886	139	3045	3580	52,58	15,66	1800
		5	670 351 44	IPE360	6 (435)	946	139	3045	3580	66,17	16,22	1950
		6	670 632 44	IPE400	7 (515)	1131	139	3005	3540	83,44	17,98	2100
	1250	2	670 354 44	IPE360	6 (435)	846	159	3045	3580	33,33	17,38	1500
		3	670 353 44	IPE360	6 (435)	906	159	3045	3580	48,64	17,94	1750
		4	670 361 44	IPE400	7 (515)	1011	159	3005	3540	66,73	19,51	1950
	1600	2	670 354 44	IPE360	6 (435)	846	159	2948	3580	41,17	20,81	1600
		3	670 353 44	IPE360	6 (435)	906	159	2948	3580	59,91	21,37	1850
		4	670 361 44	IPE400	7 (515)	1011	159	2908	3540	81,68	22,95	2100
	2000	2	670 354 44	IPE360	6 (435)	846	159	2838	3580	50,13	24,74	1700
3		670 353 44	IPE360	6 (435)	906	159	2838	3580	72,80	25,30	2000	
4		670 361 44	IPE400	7 (515)	1011	159	2798	3540	98,76	26,87	2200	
Electric	500	4	669 379 44	IPE300	5 (372)	851	139	2706	3152	29,50	9,51	1550
		5	669 378 44	IPE300	5 (372)	3701	139	2706	3152	37,35	9,92	1700
		6	670 387 44	IPE360	7 (515)	1021	139	3134	3580	49,75	12,86	1750
		7	670 389 44	IPE400	7 (515)	1211	139	3094	3540	62,10	14,07	1900
	1000	2	669 381 44	IPE300	5 (372)	791	139	2617	3152	26,51	13,68	1450
		3	669 380 44	IPE300	5 (372)	851	139	2617	3152	38,55	14,10	1700
		4	670 384 44	IPE360	6 (435)	911	139	3045	3580	53,03	16,14	1800
		5	670 383 44	IPE360	6 (435)	971	139	3045	3580	66,63	16,70	1950
		6	670 388 44	IPE360	7 (515)	1021	139	3045	3580	81,64	17,86	2100
	1250	2	670 386 44	IPE360	6 (435)	871	159	3045	3580	33,81	17,86	1500
		3	670 385 44	IPE360	6 (435)	931	159	3045	3580	49,13	18,42	1750
		4	670 390 44	IPE400	7 (515)	1021	159	3045	3580	66,88	19,96	1950
	1600	2	670 386 44	IPE360	6 (435)	871	159	2948	3580	41,72	21,29	1600
		3	670 385 44	IPE360	6 (435)	931	159	2948	3580	60,48	21,85	1850
		4	670 390 44	IPE400	7 (515)	1021	159	2948	3580	81,83	23,39	2050
	2000	2	670 386 44	IPE360	6 (435)	871	159	2838	3580	50,76	25,22	1700
		3	670 385 44	IPE360	6 (435)	931	159	2838	3580	73,44	25,78	2000
		4	670 390 44	IPE400	7 (515)	1021	159	2798	3540	98,92	27,31	2200

Tab. 10

## 2.4 Pillars

### Pillar model code

P-	750-	296-	3500-	M-	C2M-	1007	(-S)
							(Special design)
				Manual		RAL colour	
						Corrosion protection class	
				Pillar-mounted slewing jib crane max. height			
		Pillar type					
	Distance between support bearings						

Pillar for one jib

Tab. 11 Example for model code

### Dimensions

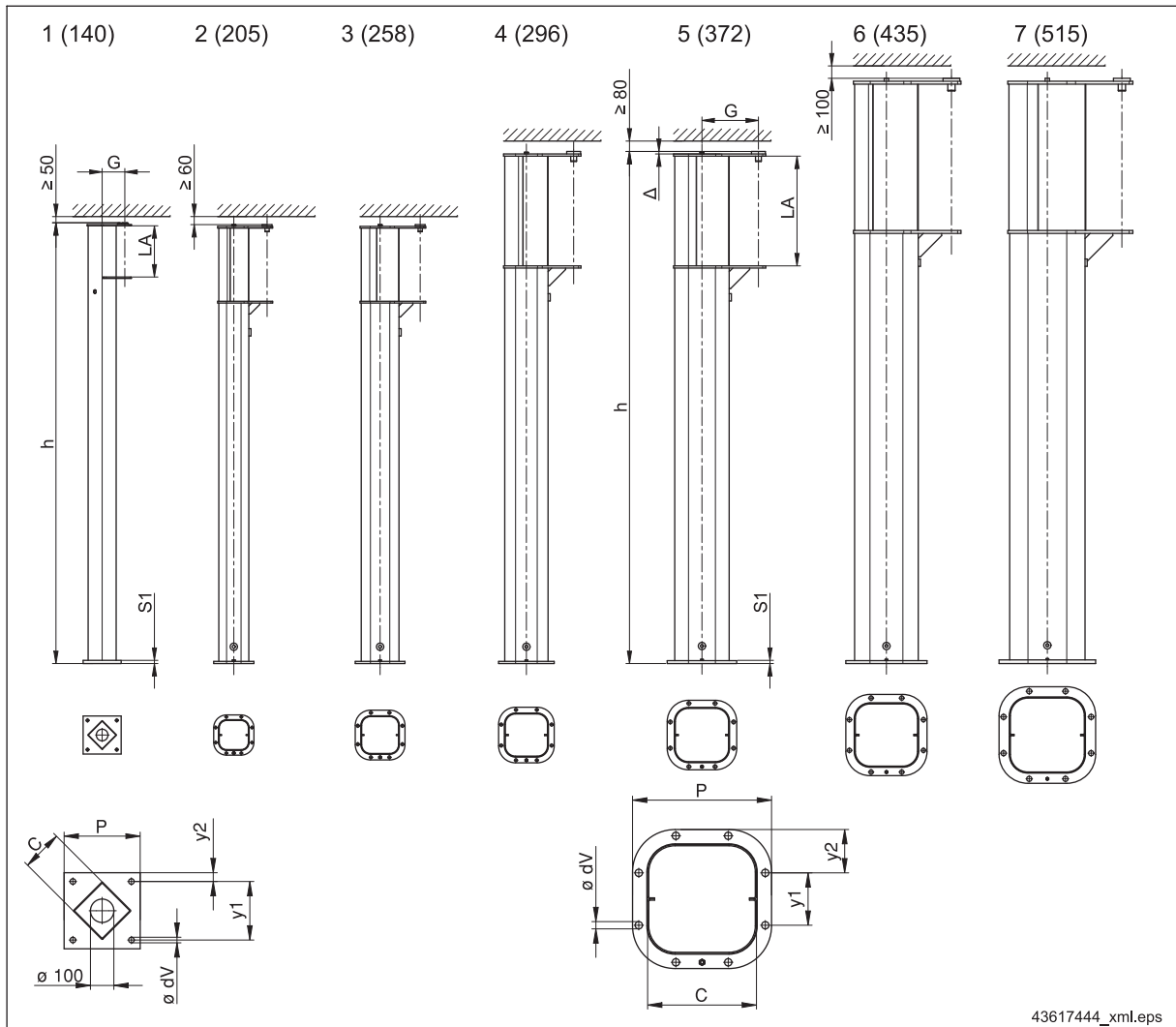


Fig. 5

Pillar type	Distance between support bearings LA [mm]	Slewing	h	G	S1	Δ	C	P	y1	y2	dia. dV	Weight	Pillar Part no.		
			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[kg]	
1 (140)	350	Manual	3015	155	20	13	140	260	200	30	19	85,00	851 051 44		
2 (205)	500		3000	228	15	12	205	275	103	86	16	16	68,00	668 102 44	
			3500										77,20	668 104 44	
			4000										86,30	668 106 44	
			4500										95,40	668 108 44	
			5000										104,50	668 110 44	
3 (258)	500		3000	274	15	12	258	340	126	107	20	20	90,00	668 202 44	
			3500										101,00	668 204 44	
			4000										112,50	668 206 44	
			4500										124,00	668 208 44	
			5000										135,50	668 210 44	
4 (296)	750		Manual	3500	323	15	17	296	380	143	119	20	20	154,50	669 102 44
				4000										172,00	669 104 44
				4500										189,50	669 106 44
				5000										207,00	669 108 44
		5500		224,50										669 110 44	
5 (372)	750	Manual	3500	386	20	17	372	475	179	148	25	25	204,00	669 202 44	
			4000										226,00	669 204 44	
			4500										248,00	669 206 44	
			5000										270,00	669 208 44	
			5500										293,00	669 210 44	
		Electric	3500	436	20	17	372	475	179	148	25	25	25	208,00	669 241 44
			4000											230,00	669 242 44
			4500											252,00	669 243 44
			5000											276,00	669 244 44
			5500											296,00	669 245 44
6 (435)	1000	Manual	4000	445	20	20	435	555	210	173	29	29	347,00	670 102 44	
			4500										380,00	670 104 44	
			5000										412,00	670 106 44	
			5500										443,00	670 108 44	
			6000										475,00	670 110 44	
		Electric	4000	465	20	20	435	555	210	173	29	29	29	349,00	670 141 44
			4500											381,00	670 142 44
			5000											413,00	670 143 44
			5500											445,00	670 144 44
			6000											477,00	670 145 44
7 (515)	1000	Manual	4000	510	25	20	515	660	248	206	35	35	432,00	670 202 44	
			4500										470,00	670 204 44	
			5000										507,00	670 206 44	
			5500										545,00	670 208 44	
			6000										583,00	670 210 44	
		Electric	4000	510	25	20	515	660	248	206	35	35	35	437,00	670 241 44
			4500											474,00	670 242 44
			5000											512,00	670 243 44
			5500											550,00	670 244 44
			6000											588,00	670 245 44

Tab. 12

## 2.5 Anchor bolt set and template

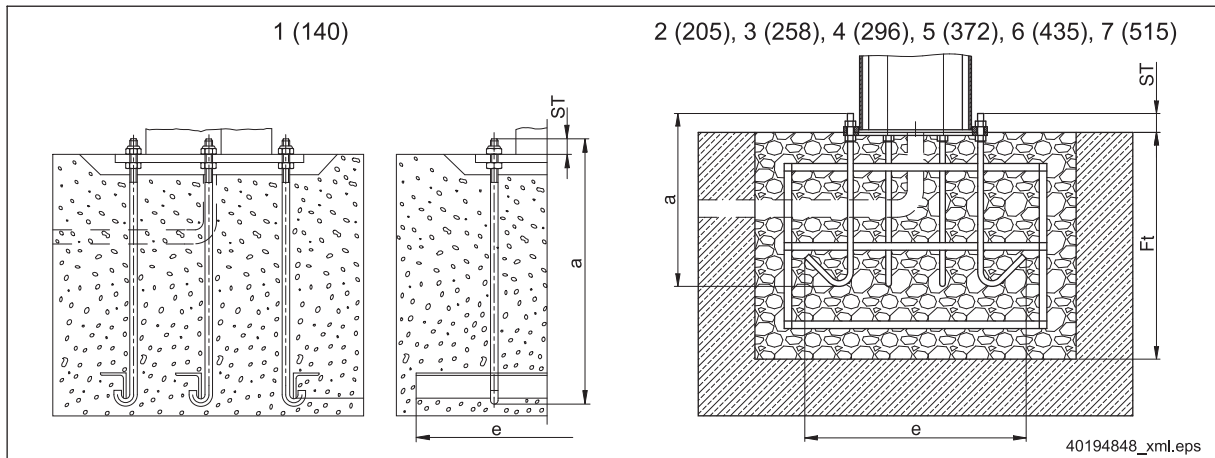


Fig. 6

Pillar type	Foundation depth Ft [mm]	a [mm]	ST [mm]	e [mm]	Anchor bolt	Anchor bolt set	
						Weight [kg]	Part no.
1 (140)	800	560	35	600	M16	12,33	984 771 44
2 (205)		400	40	450	M12	5,00	668 171 44
3 (258)		450	45	550	M16	10,00	668 271 44
4 (296)	900	450	45	590	M16	11,00	669 171 44
5 (372)		550	55	700	M20	17,00	669 271 44
6 (435)	1100	600	60	810	M24	26,00	670 171 44
7 (515)		700	75	970	M30	47,00	670 271 44

Tab. 13

The anchor arrangement for pillars consists of anchor rods, nuts and a template. Profile angle sections are additionally included for pillar size 1 (140).

The foundation must be prepared by a building company that specialises in this work.

Additional reinforcement is not required.

The bolted connections and the base of the crane must always remain accessible for checks and inspections. Undergroud the crane base flange of size 1 (140) pillars after completion of erection.

## 2.6 Anchorage

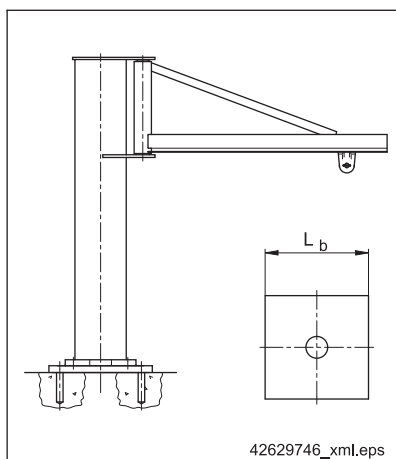


Fig. 7

The unit is anchored to the floor by means of intermediate plates and special chemical anchor bolts that are approved for dynamic loads.

For further information, see "KBK anchor bolt connection" document ⇒ Tab. 1, Page 2.

Pillar type	□ L <sub>b</sub> [mm]	Min. concrete thickness [mm]
1 (140)	340	200
2 (205)	390	
3 (258)	450	
4 (296)	530	
5 (372)	830	
6 (435)	1170	
7 (515)	1475	

Tab. 14

## 2.7 Pillar-mounted slewing crane with two jibs

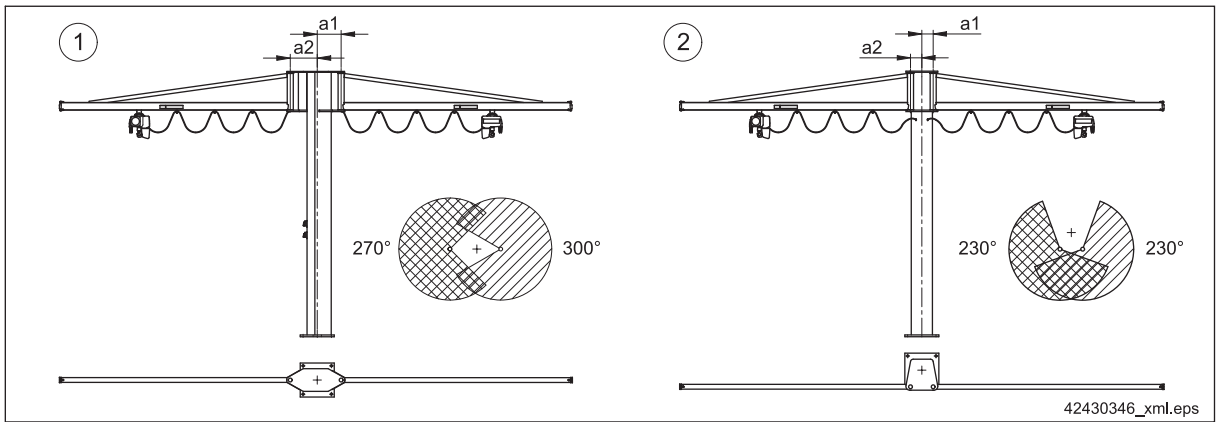


Fig. 8 Combinations, working areas: jibs opposite each other (1), jibs next to each other (2)

Pillar-mounted slewing jib cranes with two jibs provide better use of the working area while little space is required for the crane itself. They are constructed in the same way as pillar-mounted slewing jib cranes.

The pillar, supporting elements and hole pattern of the base plate are the same.

Technical data and dimensions on request.

### 3 Wall-mounted slewing jib cranes, dimensions and data

#### 3.1 KBK wall-mounted slewing jib cranes

Manual slewing motion

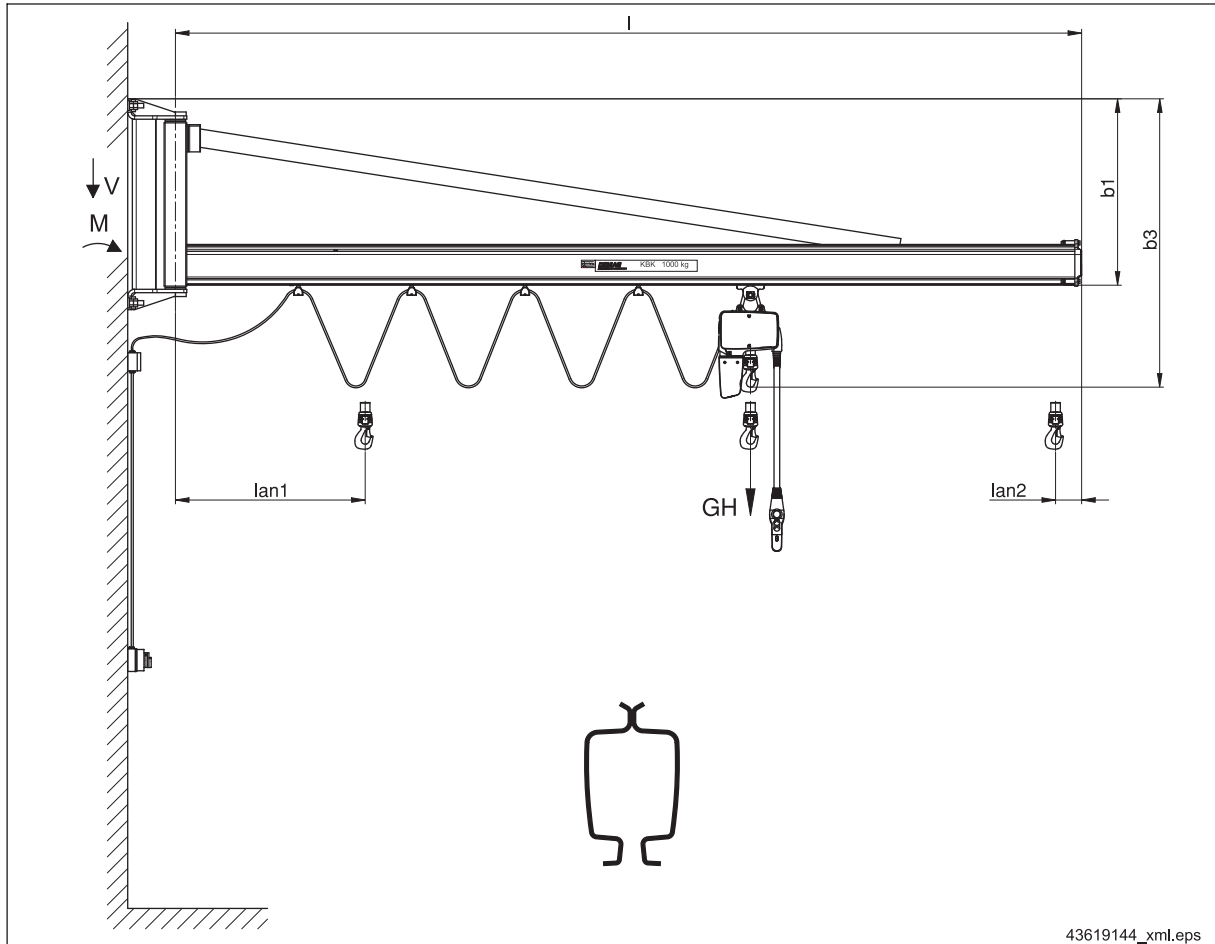


Fig. 9

Item	Designation	Item	Designation
b1	Top edge of bracket to bottom edge of jib	lan1	Hoist approach dimension to centre of supporting tube
b3	Top edge of bracket to highest hook position	lan2	Hoist approach dimension to jib end
l	Outreach	f	Calculated deflection under full load with jib in 0° position

Jib shown in 0° position; slewing range approx. 270° (2 x 135°)

Tab. 15



The wall bracket anchorage is not included in the scope of supply as local conditions may vary considerably.

For bracket clamping arrangements on pillars, see ⇒ "Bracket clamping arrangements", Page 23.



Load capacity [kg]	Outreach I [m]	Jib Part no.	Jib profile section	Bracket type	Bracket Part no.	lan1 [mm]	lan2 [mm]	b1 [mm]	b3 [mm]	M [kNm]	V [kN]
80	2	984 562 44	KBK 100	W-350	851 061 44	417,5	100	456	861	2,2	1,6
	3	984 563 44	KBK 100		851 061 44	462,5	100	456	861	3,4	1,7
	4	668 304 44	KBK I	W-500	668 030 44	555	100	556	958	5,09	1,69
	5	668 305 44	KBK I		668 030 44	600	100	556	958	6,66	1,80
	6	669 306 44	KBK II	W-750	669 030 44	1040	115	822	1221	10,66	2,85
	7	669 307 44	KBK II		669 030 44	1105	115	822	1221	13,25	3,08
	125	2	668 302 44	KBK I	W-500	668 030 44	465	100	556	958	3,14
3		668 303 44	KBK I	668 030 44		510	100	556	958	4,97	2,06
4		668 304 44	KBK I	668 030 44		555	100	556	958	6,81	2,13
5		669 305 44	KBK II	W-750	669 030 44	975	115	822	1221	10,46	3,06
6		669 306 44	KBK II		669 030 44	1040	115	822	1221	13,26	3,29
7		669 307 44	KBK II		669 030 44	1105	115	822	1221	16,29	3,52
250		2	668 302 44	KBK I	W-500	668 030 44	465	100	556	958	5,56
	3	668 303 44	KBK I	668 030 44		510	100	556	958	8,67	3,33
	4	669 304 44	KBK II	W-750	669 030 44	910	115	822	1221	12,84	4,11
	5	669 305 44	KBK II		669 030 44	975	115	822	1221	16,69	4,34
	6	669 306 44	KBK II		669 030 44	1040	115	822	1221	20,77	4,57
	7	670 307 44	KBK II	W-1000	670 030 44	1115	115	1100	1499	25,39	5,18
	500	2	669 302 44	KBK II	W-750	669 030 44	780	115	822	1273	11,24
3		669 303 44	KBK II	669 030 44		845	115	822	1273	17,54	6,79
4		669 304 44	KBK II	669 030 44		910	115	822	1273	23,90	6,96
5		670 305 44	KBK II	W-1000	670 030 44	985	115	1100	1551	30,68	7,49
6		670 306 44	KBK II		670 030 44	1050	115	1100	1551	37,74	7,74
1000		2	669 302 44	KBK II	W-750	669 030 44	905	240	822	1377	19,41
	3	669 303 44	KBK II	669 030 44		970	240	822	1377	30,74	11,83
	4	670 304 44	KBK II	W-1000	670 030 44	1045	240	1100	1655	42,34	12,33
	5	670 308 44	KBK II		670 030 44	1110	240	1100	1655	54,79	12,89
	6	670 309 44	KBK II		670 030 44	1175	240	1100	1655	66,88	13,13

Tab. 16

### 3.2 I-beam section wall-mounted slewing jib cranes, fitted with brace

Manual or electric slewing motion

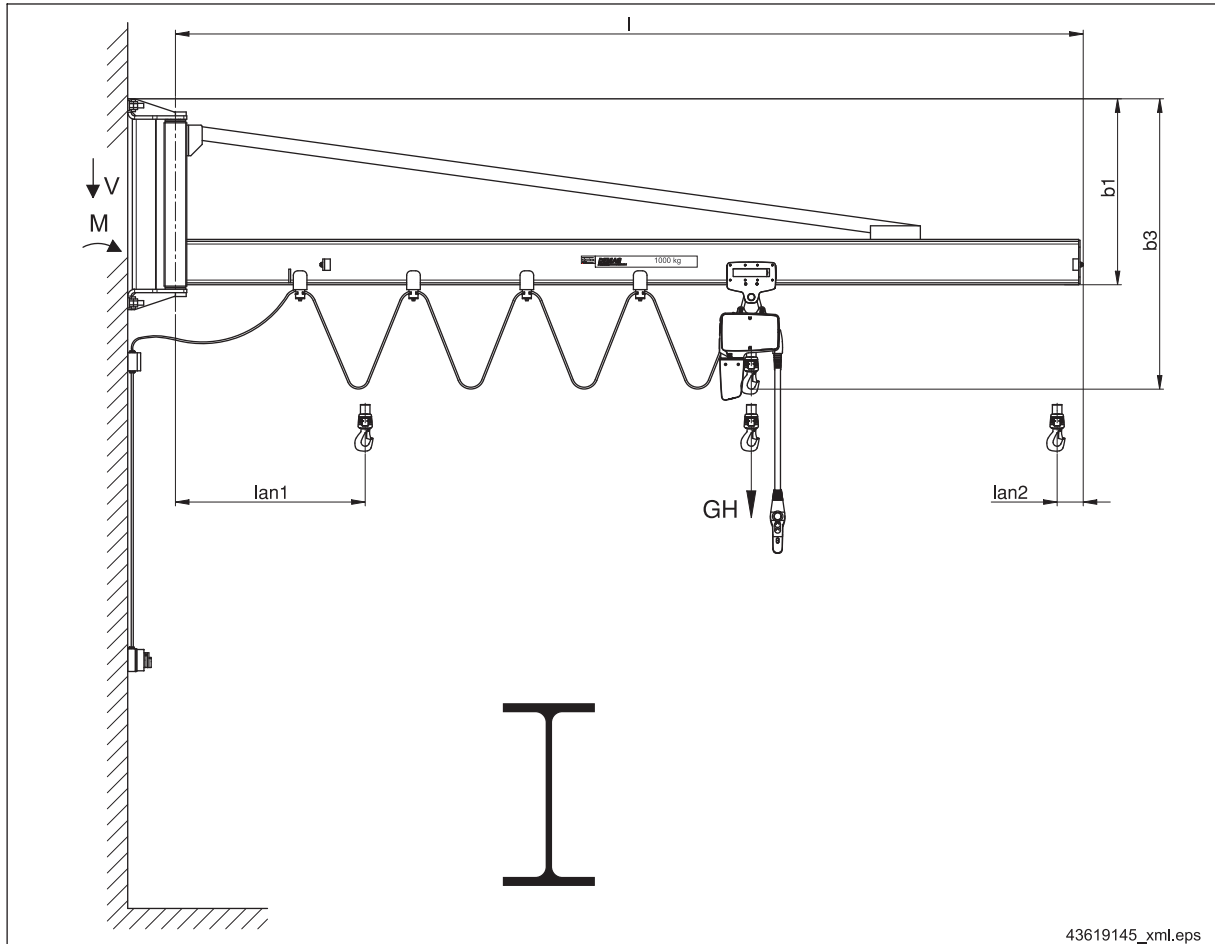


Fig. 10

Item	Designation	Item	Designation
b1	Top edge of bracket to bottom edge of jib	lan1	Hoist approach dimension to centre of supporting tube
b3	Top edge of bracket to highest hook position	lan2	Hoist approach dimension to jib end
l	Outreach	f	Calculated deflection under full load with jib in 0° position

Jib shown in 0° position; manual slewing range approx. 270° (2 x 135°), electric slewing range approx. 290° (2 x 145°)

Tab. 17



The wall bracket anchorage is not included in the scope of supply as local conditions may vary considerably.

For bracket clamping arrangements on pillars, see ⇒ "Bracket clamping arrangements", Page 23.

Slewing	Load capacity [kg]	Outreach l [m]	Jib Part no.	Jib profile section	Bracket type	Bracket	lan1	lan2	b1	b3	M	V		
						Part no.	[mm]	[mm]	[mm]	[mm]	[kNm]	[kN]		
Manual	125	8	669 355 44	IPE200	W-750	669 030 44	1031	139	870	1264	21,48	4,10		
	250	8	670 345 44	IPE200	W-1000	670 030 44	1101	139	1100	1494	32,86	6,04		
	500	7	670 346 44	IPE200		670 030 44	1041	139	1100	1546	47,69	8,66		
		8	670 355 44	IPE240		670 030 44	1191	139	1100	1546	58,04	9,53		
	1000	7	670 356 44	IPE240		670 030 44	1131	139	1100	1635	84,19	14,23		
		8	670 322 44	HEA160		670 030 44	1131	139	1100	1635	98,70	14,97		
	1250	4	670 360 44	IPE240		670 030 44	971	159	1100	1635	55,92	15,91		
		5	670 359 44	IPE240		670 030 44	1031	159	1100	1635	71,36	16,30		
		6	670 358 44	IPE240		670 030 44	1091	159	1100	1635	87,18	16,68		
	1600	4	670 360 44	IPE240		670 030 44	971	159	1100	1732	69,11	19,35		
		5	670 359 44	IPE240		670 030 44	1031	159	1100	1732	87,98	19,73		
		6	670 358 44	IPE240		670 030 44	1091	159	1100	1732	107,23	20,11		
	2000	4	670 360 44	IPE240		670 030 44	971	159	1100	1842	84,18	23,27		
		5	670 359 44	IPE240		670 030 44	1031	159	1100	1842	106,98	23,65		
	Electric	250	6	669 375 44		IPE200	W-750	669 030 44	1023	139	870	1264	22,55	5,42
			7	669 326 44		HEA160	669 030 44	1151	139	870	1264	29,33	6,22	
			8	670 330 44		HEA160	W-1000	670 030 44	1270	139	1100	1494	36,89	7,71
		500	4	669 377 44		IPE200	W-750	669 030 44	903	139	870	1316	24,95	7,76
5			669 376 44	IPE200		669 030 44	963	139	870	1316	31,96	8,01		
6			669 375 44	IPE200	W-1000	670 030 44	1006	139	1100	1546	40,30	9,04		
7			670 328 44	HEA160		670 030 44	1270	139	1100	1546	50,67	10,16		
8			670 381 44	HEA160		670 030 44	1136	139	1100	1546	59,93	10,64		
1000		4	670 377 44	IPE200		670 030 44	886	139	1100	1635	44,83	13,44		
		5	670 376 44	IPE200		670 030 44	946	139	1100	1635	57,08	13,74		
		6	670 378 44	IPE240	670 030 44	1061	139	1100	1635	71,29	14,53			
		7	670 329 44	HEA160	670 030 44	1270	139	1100	1635	84,99	15,16			
		8	670 382 44	HEA160	670 030 44	1136	139	1100	1635	99,26	15,65			
1250		4	670 379 44	IPE240	670 030 44	941	159	1100	1635	53,21	16,60			
		5	670 380 44	IPE240	670 030 44	1001	159	1100	1635	66,98	16,98			
		6	670 327 44	HEA160	670 030 44	1096	159	1100	1635	80,82	17,58			
1600		4	670 379 44	IPE240	670 030 44	941	159	1100	1732	66,40	20,03			
		5	670 380 44	IPE240	670 030 44	1001	159	1100	1732	83,60	20,42			
		6	670 327 44	HEA160	670 030 44	1096	159	1100	1732	107,88	21,01			
2000		4	670 379 44	IPE240	670 030 44	941	159	1100	1842	84,56	23,96			
	5	670 380 44	IPE240	670 030 44	1001	159	1100	1842	107,40	24,34				

Tab. 18

### 3.3 I-beam section wall-mounted slewing jib cranes, low-headroom design

Manual or electric slewing motion

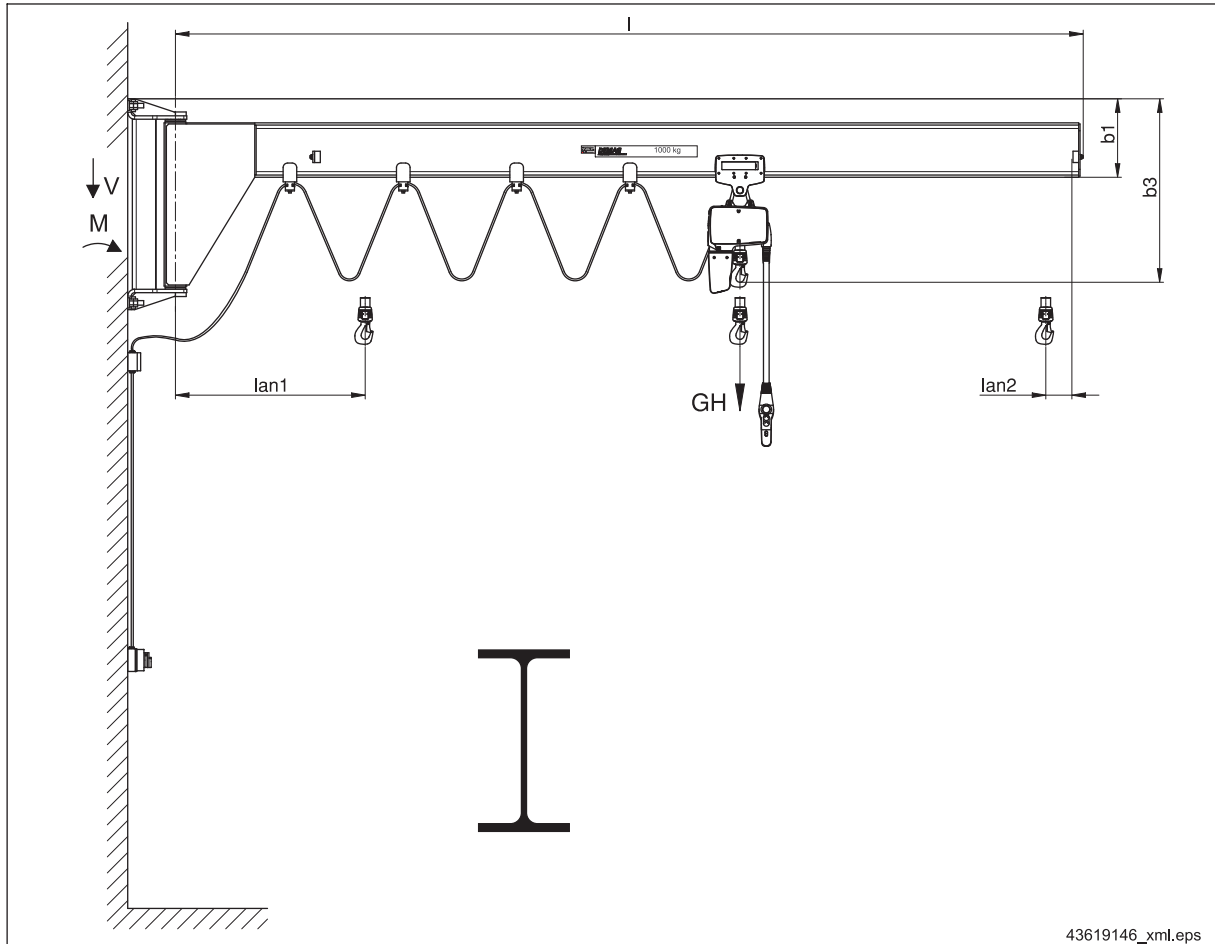


Fig. 11

Item	Designation	Item	Designation
b1	Top edge of bracket to bottom edge of jib	lan1	Hoist approach dimension to centre of supporting tube
b3	Top edge of bracket to highest hook position	lan2	Hoist approach dimension to jib end
l	Outreach	f	Calculated deflection under full load with jib in 0° position

Jib shown in 0° position; manual slewing range approx. 250° (2 x 125°), electric slewing range approx. 290° (2 x 145°)

Tab. 19



The wall bracket anchorage is not included in the scope of supply as local conditions may vary considerably.

For bracket clamping arrangements on pillars, see ⇒ "Bracket clamping arrangements", Page 23.

Slewing	Load capacity [kg]	Outreach l [m]	Jib Part no.	Jib profile section	Bracket type	Bracket Part no.	lan1 [mm]	lan2 [mm]	b1 [mm]	b3 [mm]	M [kNm]	V [kN]
Manual	125	2	668 348 44	IPE160	W-500	668 030 44	650	139	248	642	3,52	2,27
		3	668 347 44	IPE160		668 030 44	710	139	248	642	5,61	2,43
		4	668 350 44	IPE200		668 030 44	671	139	288	682	8,45	2,88
		5	668 349 44	IPE200		668 030 44	731	139	288	682	11,15	3,10

Slewing	Load capacity [kg]	Outreach I [m]	Jib Part no.	Jib profile section	Bracket type	Bracket	lan1	lan2	b1	b3	M	V
						Part no.	[mm]	[mm]	[mm]	[mm]	[kNm]	[kN]
Manual	250	2	668 352 44	IPE200	W-500	668 030 44	611	139	288	682	6,07	3,72
		3	668 351 44	IPE200		668 030 44	671	139	288	682	9,61	3,94
		4	669 352 44	IPE240	W-750	669 030 44	741	139	346	740	14,22	4,80
		5	669 351 44	IPE240		669 030 44	801	139	346	740	18,60	5,10
		6	670 335 44	IPE300	W-1000	670 030 44	1006	139	500	894	25,84	6,68
		7	670 350 44	IPE360		670 030 44	1076	139	500	894	35,52	8,14
	500	2	669 354 44	IPE240	W-750	669 030 44	681	139	346	792	11,66	7,04
		3	669 353 44	IPE240		669 030 44	741	139	346	792	18,28	7,35
		4	669 362 44	IPE300		669 030 44	821	139	406	852	26,30	8,24
		5	669 361 44	IPE300		669 030 44	881	139	406	852	34,07	8,65
		6	670 337 44	IPE360	W-1000	670 030 44	1101	139	500	946	45,48	10,49
		7	670 363 44	IPE400		670 030 44	1211	139	540	986	57,51	11,70
	1000	2	669 364 44	IPE300	W-750	669 030 44	761	139	406	941	21,33	12,41
		3	669 363 44	IPE300		669 030 44	821	139	406	941	33,27	12,83
		4	670 352 44	IPE360	W-1000	670 030 44	886	139	499	1034	47,21	14,31
		5	670 351 44	IPE360		670 030 44	946	139	499	1034	60,70	14,87
		6	670 362 44	IPE400		670 030 44	1131	139	540	1075	76,61	16,05
		7	670 366 44	IPE450		670 030 44	1211	139	499	1034	94,81	17,50
	1250	2	670 354 44	IPE360	W-1000	670 030 44	846	159	499	1034	26,92	16,02
		3	670 353 44	IPE360		670 030 44	906	159	499	1034	42,12	16,58
		4	670 361 44	IPE400		670 030 44	1011	159	540	1075	58,78	17,58
		5	670 364 44	IPE450		670 030 44	1081	159	590	1125	77,12	18,81
		6	670 365 44	IPE450		670 030 44	1131	159	590	1125	95,17	19,57
		2	670 354 44	IPE360		670 030 44	846	159	499	1131	33,24	19,46
	1600	3	670 353 44	IPE360	670 030 44	906	159	499	1131	51,88	20,02	
		4	670 361 44	IPE400	670 030 44	1011	159	540	1172	71,97	21,02	
		5	670 364 44	IPE450	670 030 44	1081	159	590	1222	93,74	22,24	
		6	670 365 44	IPE450	670 030 44	1131	159	590	1222	115,23	23,00	
	2000	2	670 354 44	IPE360	W-1000	670 030 44	846	159	499	1241	40,47	23,38
		3	670 353 44	IPE360		670 030 44	906	159	499	1241	63,03	23,94
		4	670 361 44	IPE400		670 030 44	1011	159	540	1282	87,04	24,94
		5	670 364 44	IPE450		670 030 44	1081	159	590	1332	112,74	26,17
Electric	500	4	669 379 44	IPE300	W-750	669 030 44	851	139	406	852	26,73	8,77
		5	669 378 44	IPE300		669 030 44	911	139	406	852	34,54	9,18
		6	670 387 44	IPE360	W-1000	670 030 44	1021	139	500	946	46,11	11,16
		7	670 389 44	IPE400		670 030 44	1211	139	540	986	58,28	12,37
	1000	2	669 381 44	IPE300	W-750	669 030 44	791	139	406	941	21,64	12,94
		3	669 380 44	IPE300		669 030 44	851	139	406	941	33,64	13,35
		4	670 384 44	IPE360	W-1000	670 030 44	911	139	499	1034	47,74	15,00
		5	670 383 44	IPE360		670 030 44	971	139	499	1034	61,29	15,56
	6	670 388 44	IPE360	670 030 44	1021	139	499	1034	75,43	16,17		
	1250	2	670 386 44	IPE360	W-1000	670 030 44	871	159	499	1034	27,32	16,72
		3	670 385 44	IPE360		670 030 44	931	159	499	1034	42,58	17,28
		4	670 390 44	IPE400		670 030 44	1021	159	540	1075	59,34	18,26
		5	670 392 44	IPE450		670 030 44	1081	159	590	1125	77,81	19,48
		6	670 391 44	IPE450		670 030 44	1151	159	590	1125	95,95	20,24
		2	670 386 44	IPE360		670 030 44	871	159	499	1131	33,64	20,15
	1600	3	670 385 44	IPE360	670 030 44	931	159	499	1131	52,34	20,71	
		4	670 390 44	IPE400	670 030 44	1021	159	540	1172	72,52	21,69	
		5	670 392 44	IPE450	670 030 44	1081	159	590	1222	94,43	22,92	
		6	670 391 44	IPE450	670 030 44	1151	159	590	1222	116,00	23,68	
	2000	2	670 386 44	IPE360	W-1000	670 030 44	871	159	499	1241	40,87	24,08
		3	670 385 44	IPE360		670 030 44	931	159	499	1241	63,49	24,64
		4	670 390 44	IPE400		670 030 44	1021	159	540	1282	87,60	25,61
		5	670 392 44	IPE450		670 030 44	1081	159	590	1332	113,43	26,84

Tab. 20

### 3.4 Brackets

#### Bracket model code

W-	750-	M-	C2M-	1007	(-S)
				RAL colour	(Special design)
		Manual	Corrosion protection class		
Distance between support bearings					

Wall bracket

Tab. 21 Example for model code

#### Dimensions

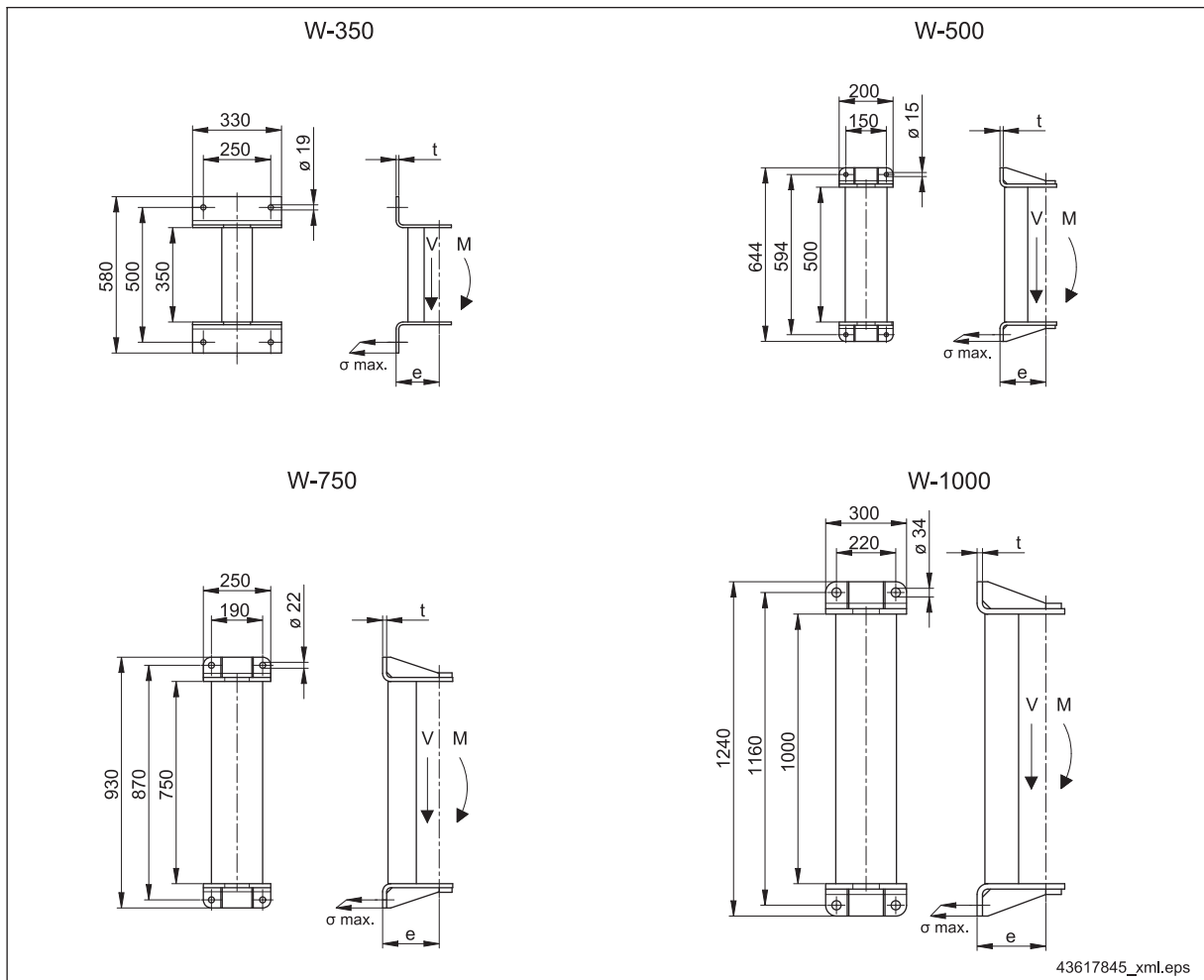


Fig. 12

Bracket type	Distance between support bearings [mm]	Slewing	Anchor bolt	t [mm]	e [mm]	Weight [kg]	Part no.
W-350-M	350	Manual	M16	10	160	16,10	851 061 44
W-500-M	500		M14	15	170	15,00	668 030 44
W-750-M	750		M20	15	210	30,00	669 030 44
W-750-E		Electric		340	40,00	669 085 44	
W-1000-M	1000	Manual	M30	20	255	50,00	670 030 44
W-1000-E		Electric			365	79,00	670 085 44

Tab. 22

### 3.5 Bracket clamping arrangements

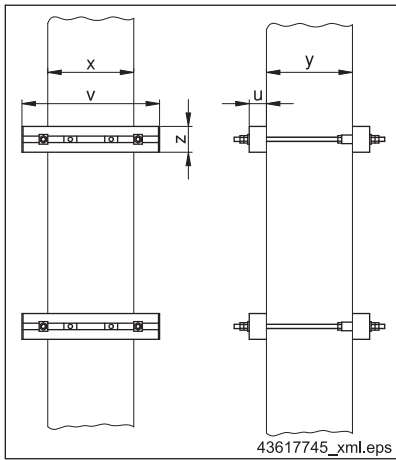


Fig. 13

Bracket type	Clamping arrangement size	Width x		Depth y max. [mm]	u [mm]	v [mm]	z [mm]	Threaded rod	Tightening torque [Nm]	Weight [kg]	Part no.
		from [mm]	to [mm]								
W-500	S	200	330	850	50	400	75	M14	67	21	668 040 44
	M	200	460	850	50	530	75			26	668 045 44
	L	460	650	830	60	720	85			40	668 050 44
W-750	S	250	400	810	60	490	90	M20	200	36	669 040 44
	M	250	550	770	80	640	120			60	669 045 44
	L	550	750	770	80	840	120			74	669 050 44
W-1000	S	300	400	750	80	532	135	M30	685	75	670 040 44
	M	400	550	710	100	682	145			96	670 045 44
	L	550	750	670	120	882	155			132	670 050 44

Tab. 23

# 4 Jib

## 4.1 Jib model code

J-BR1-	KBK100-	3000-	350-	M-	C2M-	1007	(-S)
						RAL colour	(Special design)
				Manual	Corrosion protection class		
			Distance between support bearings				
		Outreach [mm]					
Jib profile section							

Jib supported by brace

Tab. 24 Example for model code

## 4.2 Jib with KBK profile section, fitted with brace

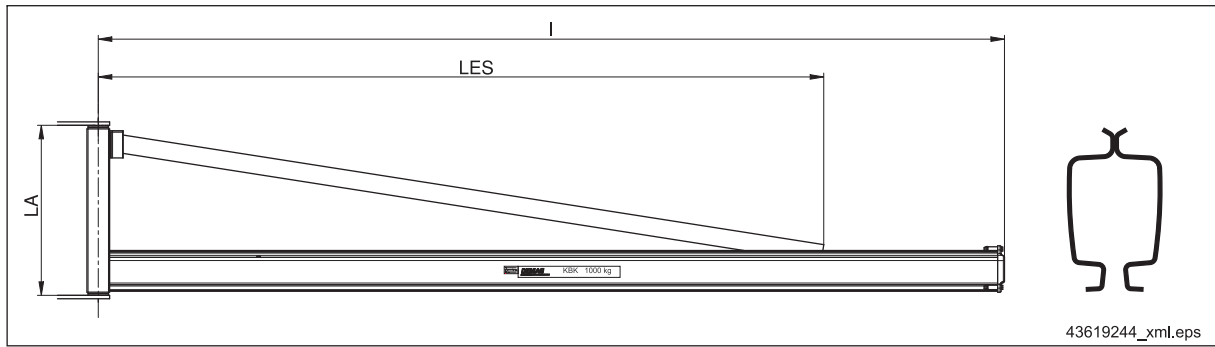


Fig. 14

Distance between support bearings LA [mm]	Slewing	Outreach I <sup>2)</sup>	Load capacity	Jib profile section	LES	Weight	Jib
		[m]	[kg]		[mm]	[kg]	Part no.
350	Manual	2	80	KBK 100	1775	19,0	984 562 44
		3			2785	25,0	984 563 44
500		2	315	KBK I	1640	24,4	668 302 44
		3	250		2740	34,7	668 303 44
		4	125		3590	44,1	668 304 44
		5	80		4740	54,6	668 305 44
750		2	1000	KBK II	1650	55,0	669 302 44
		3			2500	79,9	669 303 44
		4	500		3200	97,0	669 304 44
		5	315		4200	119,4	669 305 44
		6	250		5200	141,8	669 306 44
		7	160		5900	162,4	669 307 44
1000		4	1000	KBK II	3510	108,8	670 304 44
		5	800		4310	132,4	670 305 44
	5	1000	4660		159,8	670 308 44	
	6	630	5410		153,1	670 306 44	
	6	1000	5660		191,6	670 309 44	
	7	400	5910		181,0	670 307 44	

Tab. 25



### 4.3 Jib with I-beam section, fitted with brace

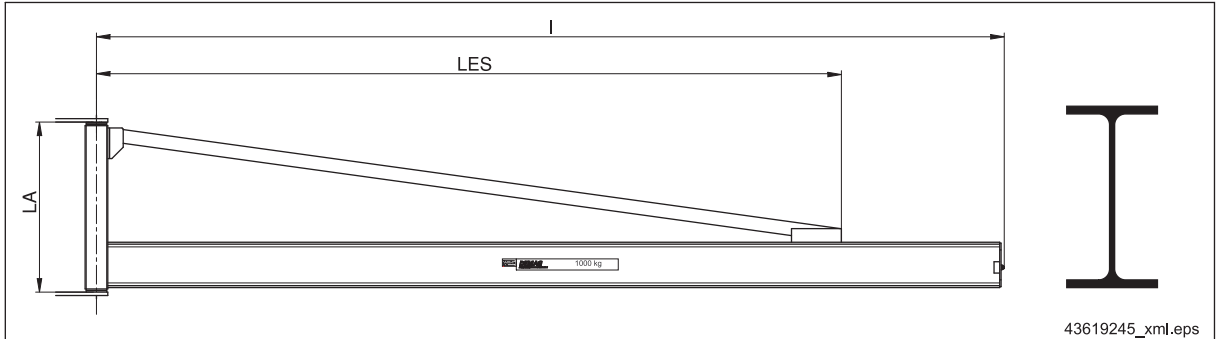


Fig. 15

Distance between support bearings LA [mm]	Slewing	Outreach   <sup>3)</sup>	Load capacity	Jib profile section	LES	Weight	Jib
		[m]	[kg]		[mm]	[kg]	Part no.
750	Manual	4	250	IPE 160	3265	92,0	669 348 44
		4	500	IPE 200	3280	119,0	669 359 44
		5	250	IPE 160	4175	111,0	669 347 44
		5	500	IPE 200	4190	145,0	669 358 44
		6	125	IPE 160	5080	130,0	669 346 44
		6	250	IPE 200	5090	170,0	669 357 44
		7	125	IPE 160	5980	150,0	669 345 44
		7	250	IPE 200	5995	196,0	669 356 44
	Electric	8	125	IPE 200	6045	221,0	669 355 44
		4	500	IPE 200	3285	132,0	669 377 44
		5		IPE 200	4190	158,0	669 376 44
		6	250	IPE 200	5095	183,0	669 375 44
		7		HEA 160	5985	270,0	669 326 44
		1000	Manual	4	1000	IPE 200	3240
4	2000			IPE 240	3250	183,0	670 360 44
5	1000			IPE 200	4155	181,0	670 348 44
5	2000			IPE 240	4165	222,0	670 359 44
6	500			IPE 200	5065	212,0	670 347 44
6	1000			IPE 240	5070	262,0	670 357 44
6	1600			IPE 240	5070	262,0	670 358 44
7	500			IPE 200	5975	243,0	670 346 44
7	1000			IPE 240	5970	301,0	670 356 44
8	250			IPE 200	6025	273,0	670 345 44
8	500			IPE 240	6030	339,0	670 355 44
8	1000			HEA 160	7025	380,0	670 322 44
Electric	4		2000	IPE 200	3250	158,0	670 377 44
	4			IPE 240	3260	192,0	670 380 44
	5		1000	IPE 200	4165	190,0	670 376 44
	5		2000	IPE 240	4170	230,0	670 379 44
	6		500	IPE 200	5070	220,0	670 675 44
	6		1000	IPE 240	5075	270,0	670 378 44
	6		1600	HEA 160	4710	300,0	670 327 44
	7		500	HEA 160	5720	337,0	670 328 44
	7		1000	HEA 160	5720	337,0	670 329 44
	8		250	HEA 160	6025	383,0	670 330 44
	8		500	HEA 160	7030	383,0	670 381 44
	8		1000	HEA 160	7030	383,0	670 382 44

Tab. 26

## 4.4 Jib with I-beam section, low-headroom design

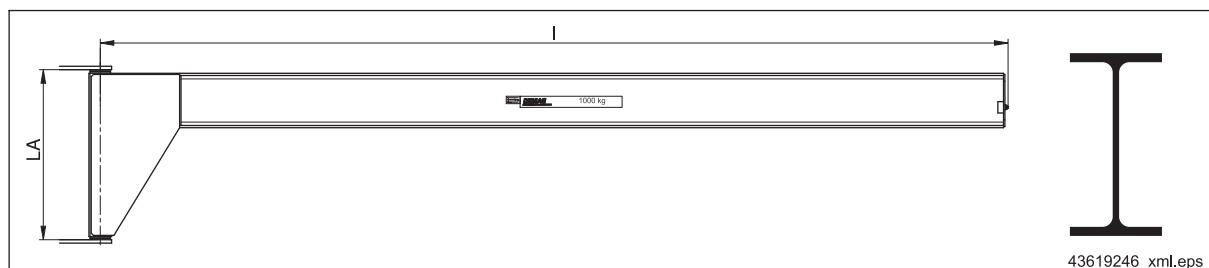


Fig. 16

Distance between support bearings LA [mm]	Slewing	Outreach l <sup>4)</sup>	Load capacity	Jib profile section	Weight	Jib
		[m]	[kg]		[kg]	Part no.
500	Manual	2	125	IPE 160	48,0	668 348 44
		2	250	IPE 200	66,0	668 352 44
		3	125	IPE 160	64,0	668 347 44
		3	250	IPE 200	88,0	668 351 44
		4	63	IPE 160	80,0	668 346 44
		4	125	IPE 200	110,0	668 350 44
		5	63	IPE 160	96,0	668 345 44
		5	125	IPE 200	132,0	668 349 44
750	Manual	2	500	IPE 240	104,0	669 354 44
		2	1000	IPE 300	142,0	669 364 44
		3	500	IPE 240	135,0	669 353 44
		3	1000	IPE 300	184,0	669 363 44
		4	250	IPE 240	165,0	669 352 44
		4	500	IPE 300	226,0	669 362 44
		5	250	IPE 240	196,0	669 351 44
		5	500	IPE 300	268,0	669 361 44
		6	250	IPE 300	310,0	669 360 44
		Electric	2	1000	IPE 300	154,0
	3		IPE 300		196,0	669 380 44
	4		500	IPE 300	238,0	669 379 44
	5			IPE 300	280,0	669 378 44

Distance between support bearings LA [mm]	Slewing	Outreach l <sup>4)</sup>	Load capacity	Jib profile section	Weight	Jib
		[m]	[kg]		[kg]	Part no.
1000	Manual	2	2000	IPE 360	217,0	670 354 44
		3		IPE 360	274,0	670 353 44
		4	1000	IPE 360	331,0	670 352 44
		4	2000	IPE 400	348,0	670 361 44
		5	1000	IPE 360	388,0	670 351 44
		5	2000	IPE 450	485,0	670 364 44
		6	250	IPE 300	358,0	670 335 44
		6	500	IPE 360	432,0	670 337 44
		6	1000	IPE 400	480,0	670 362 44
		6	1600	IPE 450	560,0	670 365 44
		7	250	IPE 360	505,0	670 350 44
		7	500	IPE 400	546,0	670 363 44
	7	1000	IPE 450	638,0	670 366 44	
	Electric	2	2000	IPE 360	227,0	670 386 44
		3		IPE 360	285,0	670 385 44
		4	1000	IPE 360	342,0	670 384 44
		4	2000	IPE 400	365,0	670 390 44
		5	1000	IPE 360	400,0	670 383 44
		5	2000	IPE 450	488,0	670 392 44
		6	500	IPE 360	460,0	670 387 44
6		1000	IPE 360	460,0	670 388 44	
6	1600	IPE 450	565,0	670 391 44		
7	500	IPE 400	565,0	670 389 44		

Tab. 27

# 5 Components

## 5.1 Support bearings

### 5.1.1 Bearing with KBK 100 jib

The bearing with KBK 100 jib consists of a supporting through bolt and sliding bearings. It is included in the scope of delivery for the jib.

### 5.1.2 Support bearing for all other sizes

Distance between support bearings LA [mm]	Slewing	Weight [kg]	Part no.
500	Manual	1,23	668 000 44
750		3,16	669 000 44
1000	Electric	2,98	669 246 44
	Manual	5,89	670 000 44
	Electric	5,18	670 246 44

Tab. 28

## 5.2 Trolleys

### 5.2.1 KBK trolley

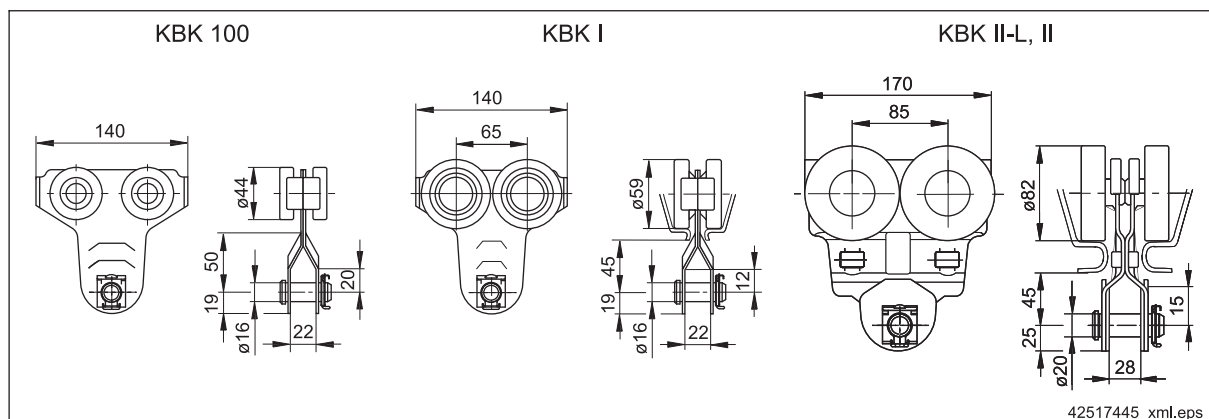


Fig. 17

Trolley		Max. load [kg]	Weight approx. [kg]	Part no.
<b>KBK 100</b>	for DC 1, DCM 1, DKM, DKUN 1	100	1	984 530 44
<b>KBK I</b>	for DC 2, DCM 2, DKM, DKUN 1-2	300	1	980 610 44
<b>KBK II-L, II</b>	for DC 5, DCM 5, DKM, DKUN 1-5	600	2	982 110 44

Tab. 29

**The load handling attachment and load must be flexibly suspended.**

Trolleys are fitted with 4 plastic wheels mounted on permanently lubricated anti-friction bearings. KBK II trolleys have two additional horizontal guide rollers. The trolley side cheek protrudes beyond the travel wheels in the direction of travel to protect them.

The traction resistance of a loaded trolley is approx. 1 – 1,5 % of the attached load. Approx. 0,5 % with constant displacement.

Temperature range: – 20° to + 70° C. The load must be reduced under extreme temperature conditions:

Continuous temperature in °C	- 20	- 15	-10 to +40	50	60	70
% of load	50	80	100	90	75	50

Tab. 30

Pins with BoClip pin retainers can be ordered individually.

Trolley	KBK 100, KBK I	KBK II
Pin with retainer	851 305 44	851 317 44

Tab. 31

### 5.2.2 Load bar

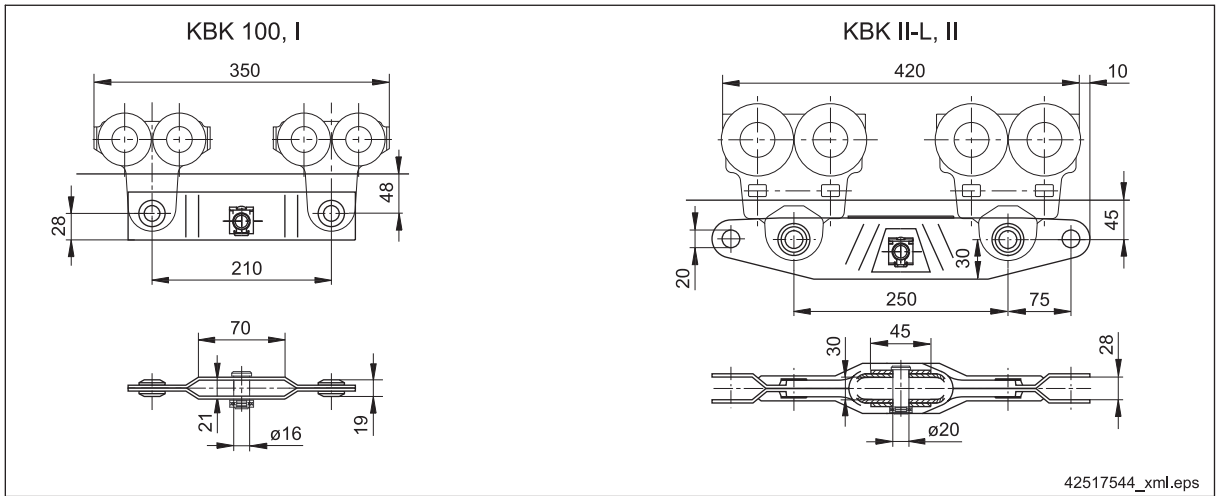


Fig. 18

Load bar		Max. load [kg]	Weight approx. [kg]	Part no.
<b>KBK 100</b>	for DC 2, DCM 2, DKM, DKUN 1-2	200	1	980 305 44
<b>KBK I</b>	for DC 5, DCM 5, DKM, DKUN 1-5	400 <sup>5)</sup>	1	980 305 44
	Double trolley end carriage, completed	400 <sup>5)</sup>	3	980 322 44
<b>KBK II-L, II<sup>6)</sup></b>	for DC 10, DCM 10, DKM, DKUN 1-10	1200	2	982 305 44
	Double trolley end carriage, completed	1200	6	851 132 44

Tab. 32

A double trolley is created by joining two trolleys with a load bar. Holes drilled in the ends of the KBK II load bar are provided for fitting spacer bars and link bars (items 69 and 71, see "General KBK system" document ⇒ Tab. 1, Page 2), they are not designed for connecting loads.

Pins with BoClip pin retainers can be ordered individually.

Trolley	KBK 100, KBK I	KBK II
Pin with retainer	851 305 44	851 317 44

Tab. 33

### 5.2.3 Trolley on I-beam

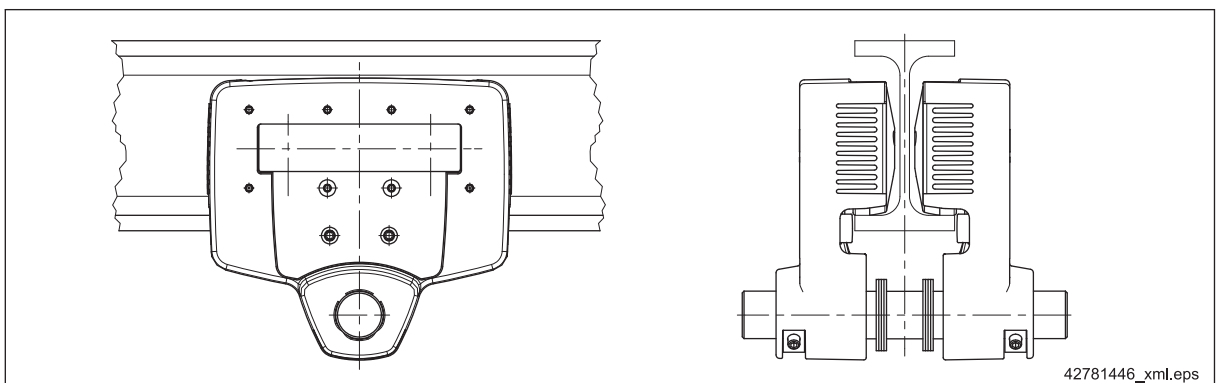


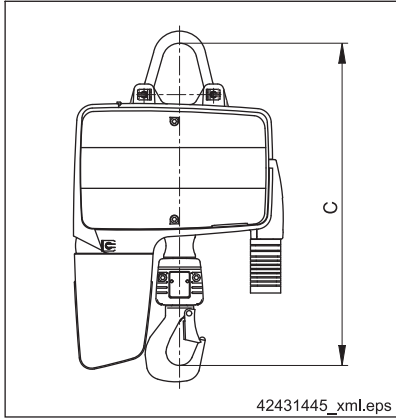
Fig. 19

For information on trolley on I-beams sections, see "U11-U34/DC/DCM/DK trolley technical data" and "RU/EU56 trolley technical data" documents ⇒ Tab. 1, Page 2 (included in the scope of delivery for the trolley).

<sup>5)</sup> 500 kg for KBK I slewing jib crane, 500 kg x 2 m.

<sup>6)</sup> Chain hoists with long suspension eye.

### 5.3 Hoist units



For further hoist units, see "Demag DC-Pro/DC-Com chain hoist technical data" document ⇒ Tab. 1, Page 2.

Fig. 20

Load capacity up to [kg]	Max. perm. hoist unit weight [kg]	Chain hoist size	Reeving	Lifting speed for 50 Hz [m/min]	Hook dimension C <sup>7)</sup> [mm]	Standard hook path H [m]	Max. weight for hook path		
							4 m [kg]	5 m [kg]	8 m [kg]
125	25	1	1/1	8,0/2,0	364	5 and 8	-	22	24
		2		16,0/4,0					
250	35	5		8,0/2,0	416				
		10		16,0/4,0					
500	65	10		8,0/2,0	505				
		15		12,0/3,0					
1000	75	10	6,0/1,5	598	4	71	72	77	
		15	8,0/2,0						
2000	100	10	2/1	6,0/1,5	597	5 and 8	-	65	73
		15		4,0/1,0	708	4	83	86	96

Tab. 34

<sup>7)</sup> With long suspension bracket. The short suspension bracket can also be used on single trolleys.

## 5.4 Maker's plate and load capacity plate

### 5.4.1 KBK jib

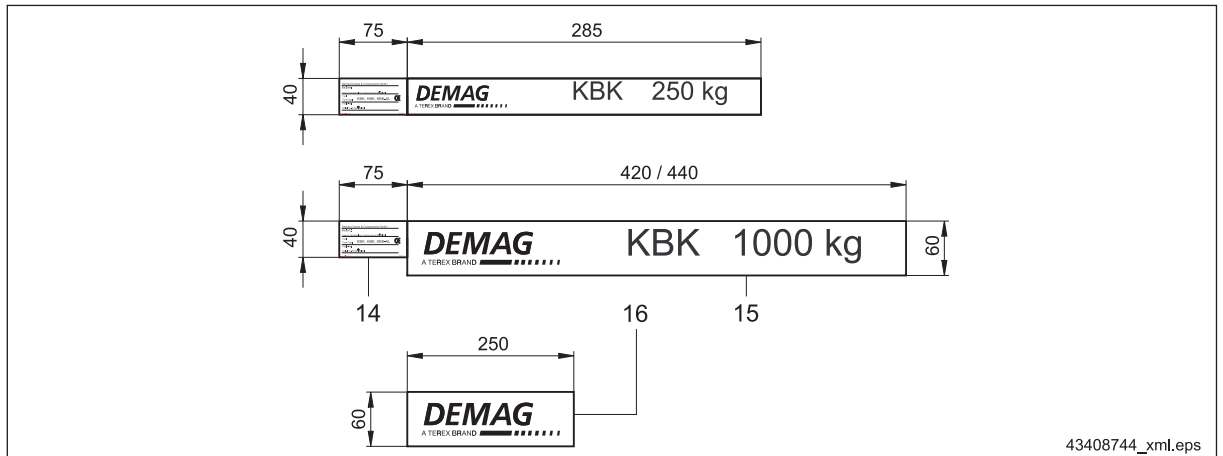


Fig. 21

Item	Designation	Load capacity [kg]	KBK 100/KBK I	KBK II
			h = 40 mm Part no.	h = 60 mm Part no.
14	Manufacturer's plate	-	980 149 44	-
15	Capacity plate	50	980 861 44	-
		80	980 862 44	-
		100	980 863 44	-
		125	980 864 44	-
		160	980 865 44	-
		200	980 866 44	-
		250	980 867 44	851 491 44
		315	980 868 44	-
		400	980 869 44	-
		500	980 870 44	851 492 44
		630	-	851 493 44
		800	-	851 494 44
		1000	-	851 495 44
		1250	-	851 496 44
		1600	-	851 497 44
Special capacity plate	10 - 500	715 540 46	-	
	100 - 3200	-	715 560 46	
16	Name plate	-	-	850 150 44

Tab. 35

The load capacity plates must be attached to both sides of the jib.

A manufacturer's plate (in English, German and French) showing manufacturer, year of construction, type designation, serial number and CE confirmation must be fitted to each crane.

60 mm high capacity plates should be used for section sizes KBK II and larger.

**Type:**

Self-adhesive foil

### 5.4.2 I-beam jib

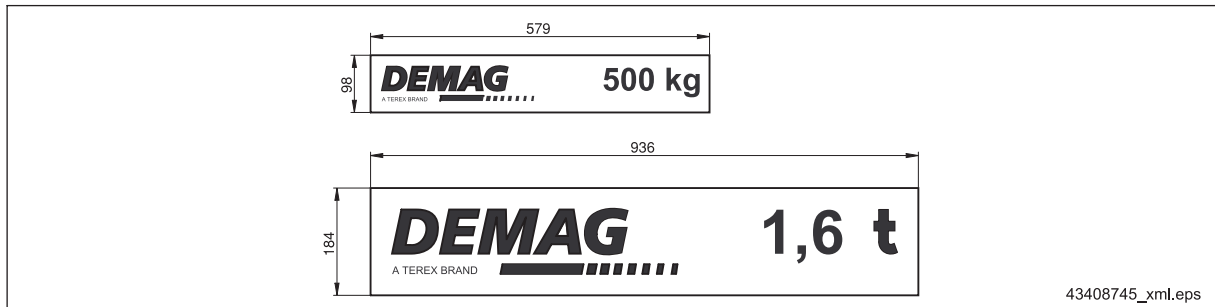


Fig. 22

Designation	Load capacity		Part no.
	[kg]	[t]	
Capacity plate	80	-	668 901 44
	100	-	668 902 44
	125	-	668 903 44
	160	-	668 904 44
	200	-	668 905 44
	250	-	668 906 44
	315	-	668 907 44
	400	-	668 908 44
	500	-	668 909 44
	630	-	668 910 44
	800	-	668 911 44
	1000	-	668 912 44
Special capacity plate in kg	-	-	668 913 44
Capacity plate	-	1,25	668 916 44
	-	1,6	668 917 44
	-	2	668 918 44
Special capacity plate in t	-	-	668 919 44

Tab. 36

The load capacity plates must be attached to both sides of the jib.

A manufacturer's plate (in English, German and French) showing manufacturer, year of construction, type designation, serial number and CE confirmation must be fitted to each crane.

**Type:**

Self-adhesive foil

### 5.5 Slewing jib cranes with electric slewing mechanisms

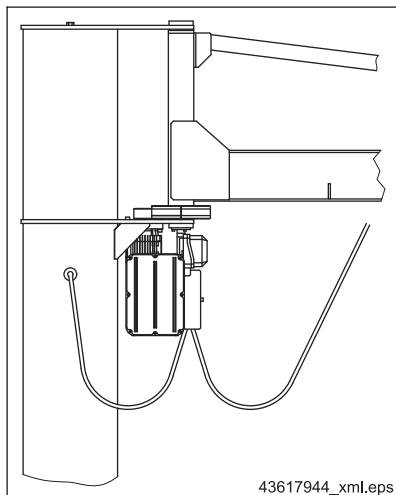


Fig. 23

Designation	Distance between support bearings [mm]	Part no.
Slewing drive, complete (geared motor, frequency inverter with enclosure, geared limit switch)	750	669 255 44
	1000	670 255 44
Electric enclosure for DC		773 382 45
Electric enclosure for DCS		773 383 45
Enclosure mounting bracket		669 265 44

Tab. 37

Slewing jib cranes with electric slewing mechanisms are supplied with special jibs.

A gear ring welded to the lower end of the pivot axis transmits the turning motion of the geared motor to the jib.

The cranes have a single-speed slewing motion. The frequency inverter is used to specify the slewing speed depending on the outreach (default setting). The first stage of the slewing range is switched off by the geared limit switch.



## 5.6 Electric equipment

Designation	SSK Part no.	WSK Part no.
Basic electric equipment	668 940 44	668 941 44

Tab. 38

The following component parts are included:

Designation	Standard or part no.	Weight [kg]	Quantity	
			SSK	WSK
Isolator switch	DT16 E	0,27	1	-
Isolator switch	DT16 A	0,32	-	1
Self-tapping screw	M4x12	-	4	-
Twist-type cable entry gland for flat cable	PG21	0,02	1	-
Twist-type cable entry gland for round cable	PG21	-	1	-
Twist-type cable entry gland for flat cable	M20	0,04	-	1
Counternut with collar	M20	-	-	1
Cable union compl.	M20	-	-	1
Wire end sleeve	A 1,5 - 10	-	10	

Tab. 39

The flat cable to the hoist unit and required cable carriers are selected according to the jib length.

The cable with connecting elements from the switch to the power supply are not included in the scope of supply.

Designation	Jib profile section	Weight	Part no.
Cable carrier	KBK 100/KBK I	0,03 [kg]	980 850 44
	KBK II	0,04 [kg]	851 850 44
Cable trolley	IPE 160 - 330, HE-A 160	0,57 [kg]	668 930 44
	IPE 360 - 600	0,9 [kg]	668 931 44
Flat cable with PE	4 x 1,5	0,22 [kg/m]	471 352 44
	13 x 1,5	0,55 [kg/m]	895 171 44
Round cable	4 x 1,5	0,24 [kg/m]	471 954 44

Tab. 40

## 6 Options

### 6.1 Slewing limit

If required, an adjustable slewing limitation can be supplied to limit the slewing range of the jib.

### 6.2 Hoist trolley locking device on the KBK jib

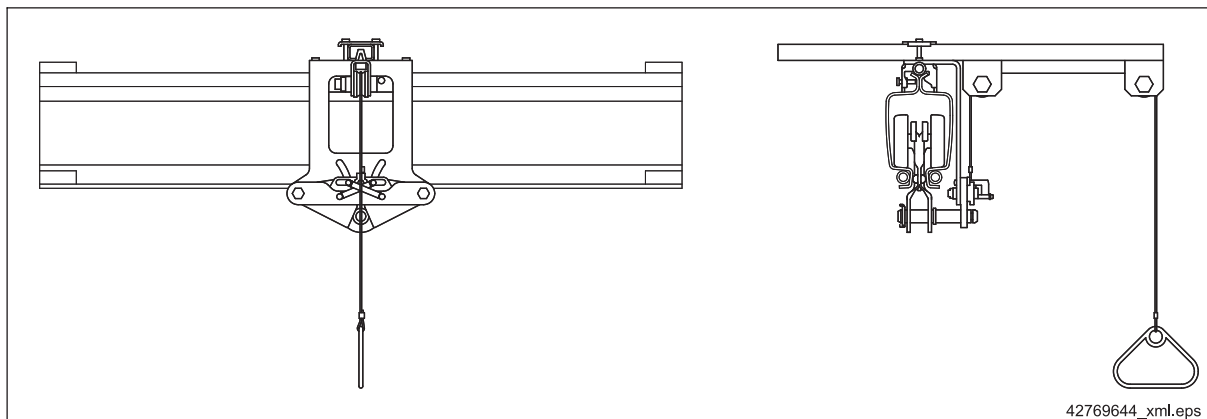


Fig. 24

Item	Designation	KBK I profile section		KBK II profile section	
		Weight [kg]	Part no.	Weight [kg]	Part no.
155	Trolley latch	6,0	715 195 46	6,4	715 210 46

Tab. 41



A combination of slewing limit and jib locking device is possible. Further information on request.

### 6.3 Canopy on the KBK jib

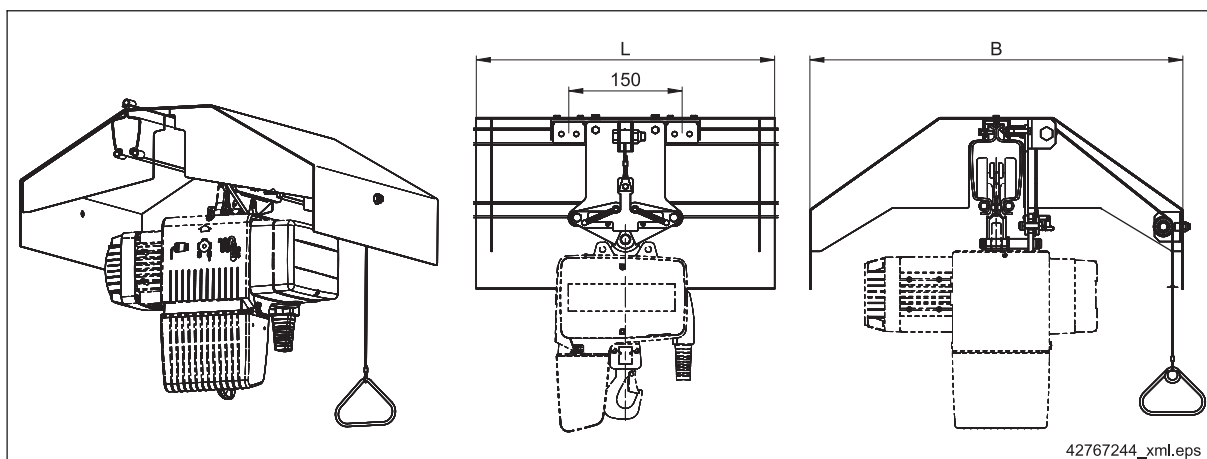


Fig. 25

	Chain hoists	L [mm]	B [mm]	Weight [kg]	Part no.
KBK I	DC 1-5, DCS 1-5	600	650	15,5	715 045 46
	DC 1-5, DCS 1-5	600	650	17,5	715 048 46
KBK II	DC 10, DCS 10	650	750	21,5	715 049 46

Tab. 42

The canopy is recommended for outdoor operation. If required, it can be fitted with a locking device for the hoist trolley.



**The current addresses of our sales offices, subsidiaries and agencies worldwide can be found on the Terex MHPS GmbH homepage at [www.demagcranes.com/Contact](http://www.demagcranes.com/Contact)**

**Terex MHPS GmbH**

PO Box 67 · 58286 Wetter (Germany)

Phone +49 (0)2335 92-0

Fax +49 (0)2335 92-7676

[www.demagcranes.com](http://www.demagcranes.com)