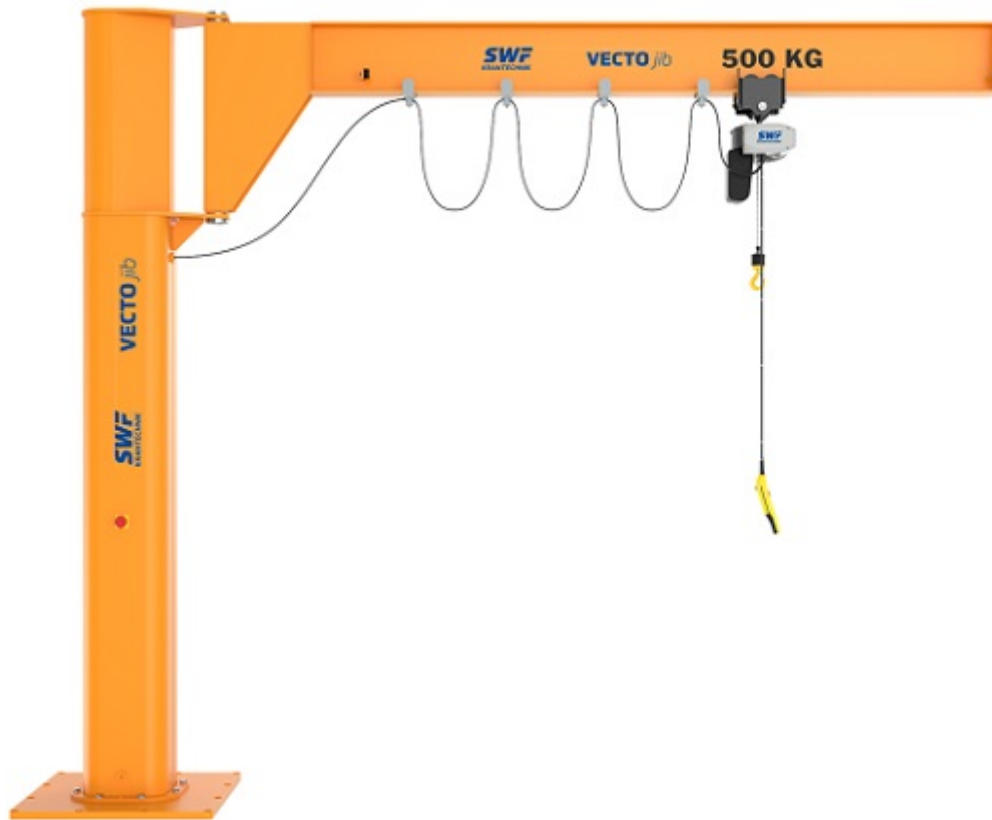




TECHNICAL DATA

JIB CRANE VECTO

DOC619826A / X140445en-US / B / 21 Dec
2020

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ORIGINAL INSTRUCTIONS

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1 MANUFACTURER

SWF Krantechnik GmbH

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GERMANY

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2 SUPPLEMENTARY DOCUMENTS AND OTHER MANUALS

Technical data	ProfileMaster PLUS ST suspension cranes and monorails technical data	X110557
Operating instructions	Jib crane operator's manual	X140444
	Chain hoist owner's manual	Included in the chain hoist scope of delivery.
	Trolley owner's manual	Included in the trolley scope of delivery for I-beam trolleys.

3 INTRODUCTION

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 ST or I-beam profile section

Special solutions on request.

Hoists

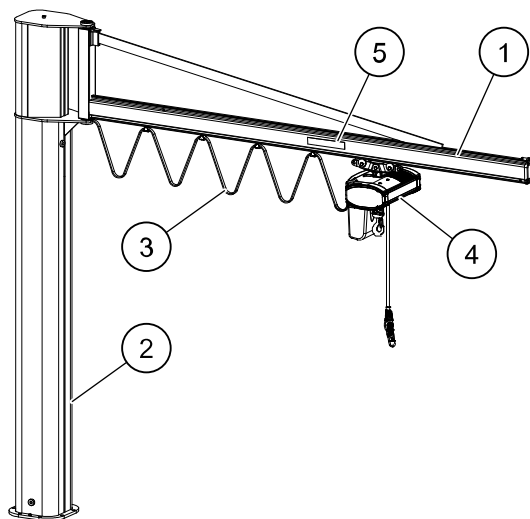
The selection tables have been compiled for hoist units with lifting speeds up to $v = 16$ m/min at rated load. Please refer to the section on hoists for further data on hoist units and permissible deadweights.

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

NOTE

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

3.1 Pillar-mounted slewing jib



- | | |
|--|---|
| 1. Jib with buffer | 4. Hoist and trolley |
| 2. Pillar with pivot bearing | 5. Load capacity and manufacturer's plate |
| 3. Electric equipment and cable carriers | |

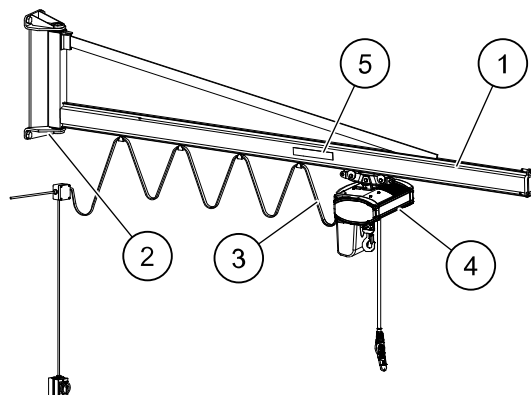
Further pillar-mounted slewing jib crane sub-assemblies:

- Anchor bolt set
- Heavy-duty anchors with base plate

Electric power supply can be provided in the following ways:

- From below - opening in the base plate of the pillar
- At the side - opening at the base of the pillar
- From above - bore hole in the upper cover plate of the pillar

3.2 Wall-mounted slewing jib



- | | |
|--|---|
| 1. Jib with buffer | 4. Hoist and trolley |
| 2. Wall bracket with pivot bearing | 5. Load capacity and manufacturer's plate |
| 3. Electric equipment and cable carriers | |

3.3 Surface protection and paint finish

As standard, pillar or wall-mounted slewing jib cranes are supplied with Category C2-M corrosion protection to DIN EN ISO 12944 in the following colours:

Finish		
Pillar, bracket, jib	RAL 1007	Daffodil yellow

3.4 Scope of delivery

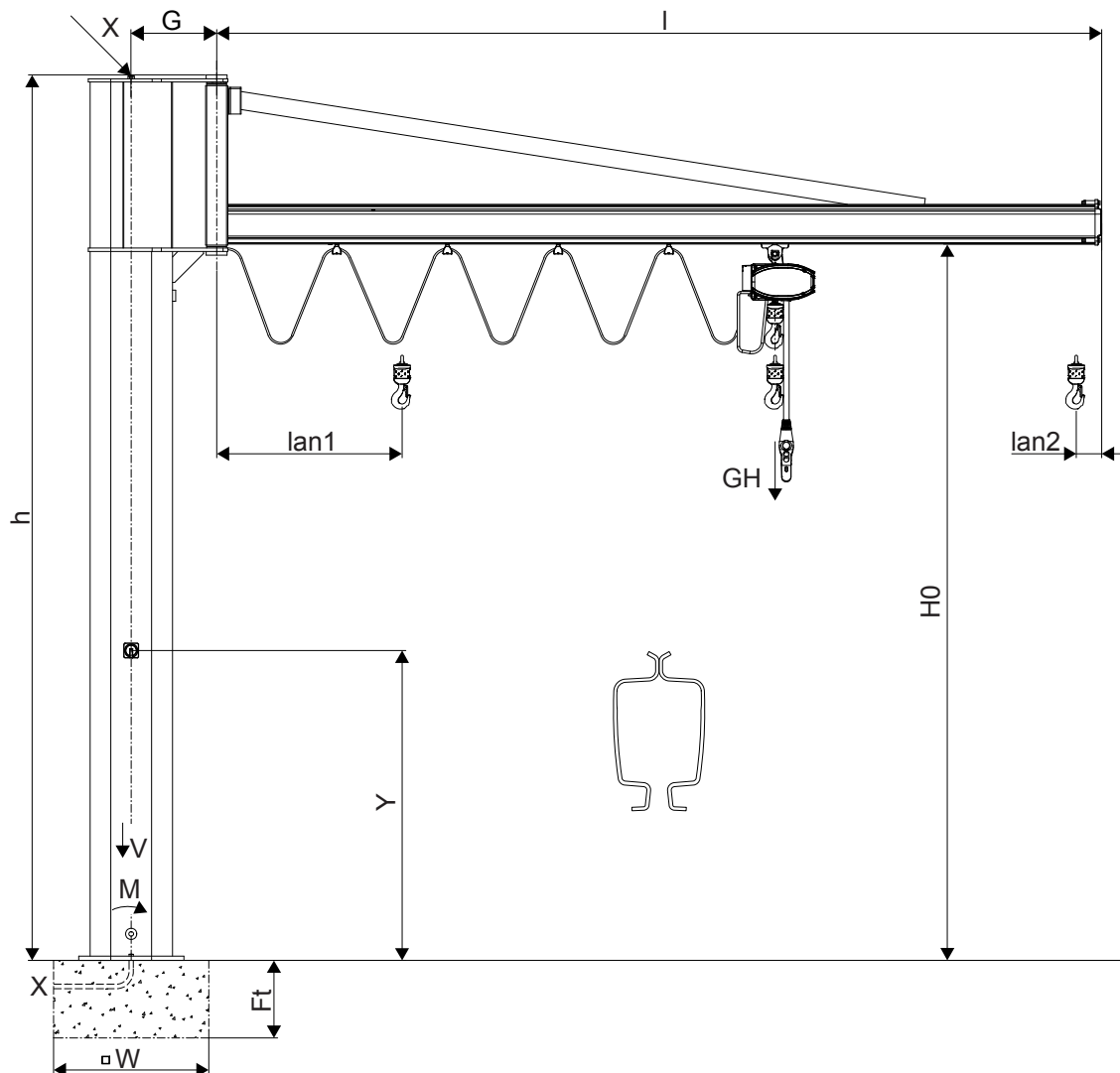
The scope of delivery for the jib includes the following parts:

- jib
- end plate with rubber buffer
- internal buffer stop
- slewing stop on the profile (only for ST jib cranes)
- hoist trolley (only for ST jib cranes)

4 PILLAR-MOUNTED SLEWING JIB CRANE DIMENSIONS AND DATA

4.1 ProfileMaster PLUS ST profile-based pillar-mounted slewing jib crane

Manual slewing motion



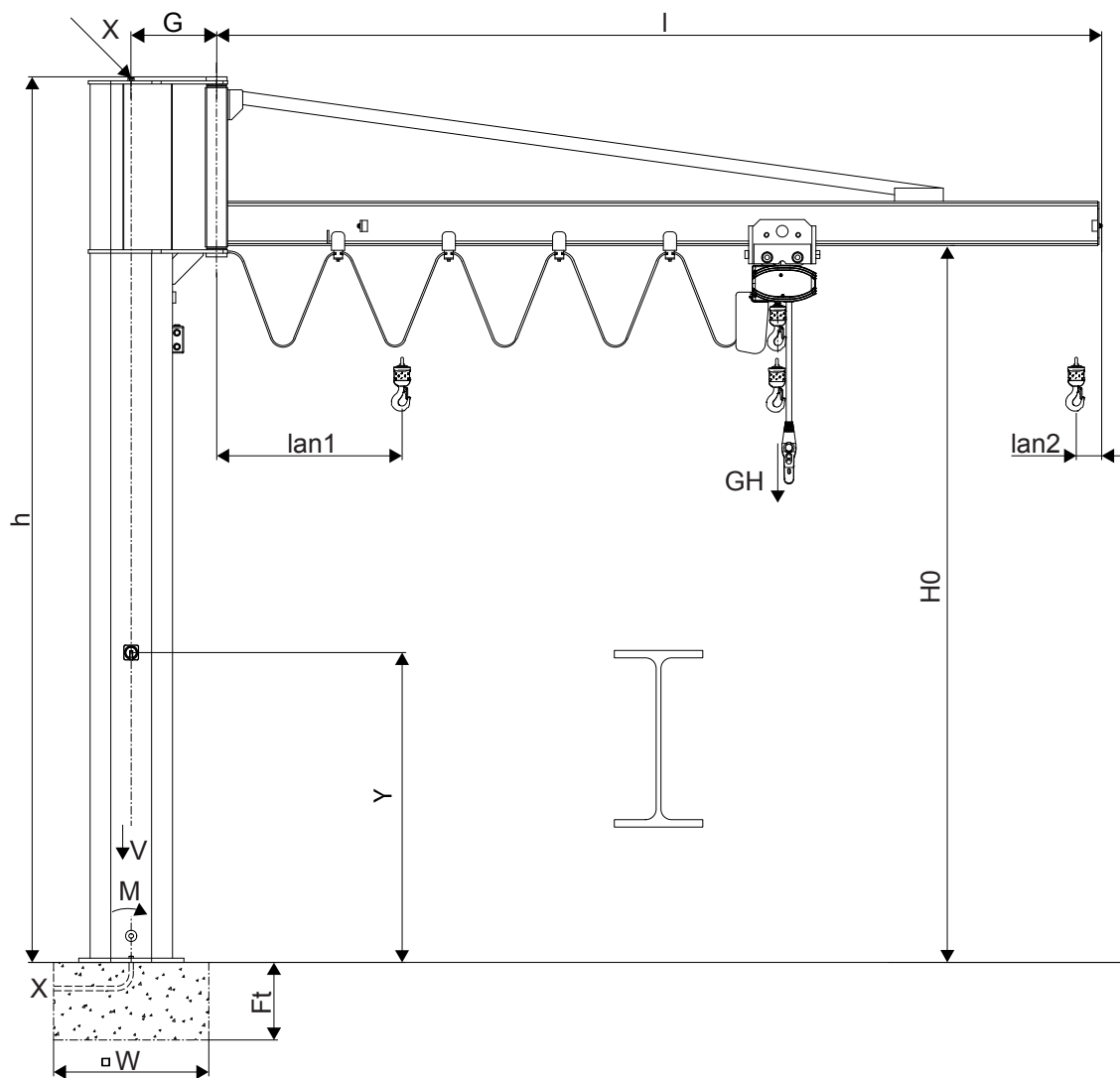
Jib is shown in 0° position. The slewing range is approximately 300° (2 x 150°).

Item	Designation
H0	Bottom edge of jib for height h
h	Height, for more information, see "Pillars"
l	Outreach
Ft	Foundation depth, for more information, see "Anchor bolt set and template" and "Anchorage"
lan1	Hoist approach dimension to center of supporting tube
lan2	Hoist approach dimension to jib end
X	Power supply optionally through duct from below or through bore hole from above
Y	Height 1400 mm

Load capacity [kg]	Outreach I [m]	Jib profile section	Pillar type 1)	G [mm]	lan1 4)	lan2 4)	H0 2)	M 2)3)	V 2)3)	W
125	2	ST I	2 (205)	228	420	100	2494	3.80	2.50	800
	3	ST I	2 (205)	228	460	100	2494	5.80	2.90	950
	4	ST I	3 (258)	274	500	100	2494	9.0	3.90	1050
	5	ST II	4 (296)	323	735	115	2736	11.70	4.40	1150
	6	ST II	4 (296)	323	795	115	2736	14.70	5.10	1250
	7	ST II	5 (372)	386	855	115	2736	17.90	5.30	1350
250	2	ST I	2 (205)	228	420	100	2494	6.40	3.80	1000
	3	ST I	3 (258)	274	460	100	2494	9.70	4.10	1150
	4	ST II	4 (296)	323	675	115	2736	14.10	5.30	1250
	5	ST II	4 (296)	323	730	115	2736	18.40	5.80	1350
	6	ST II	5 (372)	386	795	115	2736	22.40	6.30	1450
	7	ST II	6 (435)	445	1020	115	2978	27.40	8.0	1500
500	2	ST II	4 (296)	228	555	115	2736	12.40	7.40	1200
	3	ST II	4 (296)	323	615	115	2736	18.40	7.60	1350
	4	ST II	5 (372)	386	675	115	2736	24.80	8.30	1500
	5	ST II	5 (372)	386	735	115	2736	31.90	9.20	1550
	6	ST II	6 (435)	445	960	115	2978	38.30	10.20	1650
	7	ST II	7 (515)	510	1020	115	2978	45.80	11.30	1800
1000	2	ST II	4 (296)	323	680	240	2736	23.30	13.10	1450
	3	ST II	5 (372)	386	740	240	2736	34.60	13.30	1650
	4	ST II	6 (435)	445	965	240	2978	46.6	15.0	1750
	5	ST II	6 (435)	445	1025	240	2978	59.0	15.50	1900
	6	ST II	7 (515)	510	1085	240	2978	72.10	16.70	2000
1) For more information, see "Pillars"										
2) Values are based on jib cranes with lowest available pillar height. For more information, see "Pillars" for pillar height range.										
3) No dynamic factors included										
4) Approximate dimensions, exact values can be found from the layout drawing of the jib crane.										

4.2 I-beam section pillar-mounted slewing jib crane, fitted with brace

Manual or electric slewing motion



Jib is shown in 0° position. Manual slewing range is approximately 300° (2 x 150°) and electric slewing range is approximately 280° (2 x 140°).

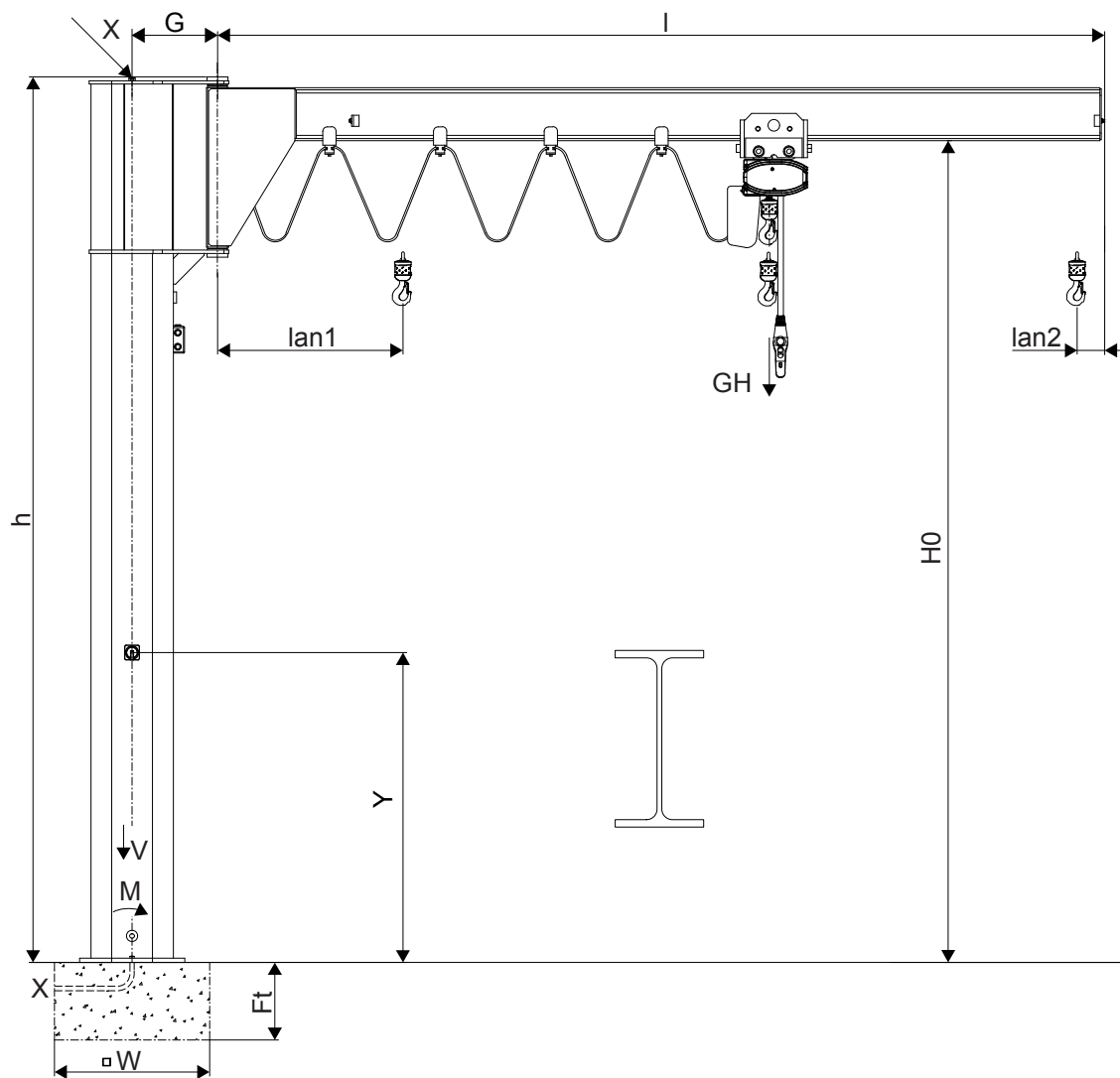
Item	Designation
H0	Bottom edge of jib for height h
h	Height, for more information, see "Pillars"
l	Outreach
Ft	Foundation depth, for more information, see "Anchor bolt set and template" and "Anchorage"
lan1	Hoist approach dimension to center of supporting tube
lan2	Hoist approach dimension to jib end
X	Power supply optionally through duct from below or through bore hole from above
Y	Height 1400 mm

Slewing	Load capacity	Outreach l	Jib profile section	Pillar type ¹⁾	G	lan1 ⁴⁾	lan2 ⁴⁾	H0 ²⁾	M ²⁾³⁾	V ²⁾³⁾	W
	[kg]	[m]			[mm]	[mm]	[mm]	[mm]	[kNm]	[kN]	[mm]
Manual	125	6	IPE 160	4 (296)	323	850	140	2480	14.6	4.3	1250
		7	IPE 160	4 (296)	323	920	140	2480	17.7	4.5	1350
		8	IPE 200	5 (372)	386	1040	140	2480	25.9	7.1	1600
	250	4	IPE 160	4 (296)	323	740	140	2480	14.7	5.3	1250
		5	IPE 160	4 (296)	323	800	140	2480	18.8	5.5	1350
		6	IPE 200	5 (372)	386	920	140	2480	23.0	5.7	1450
		7	IPE 200	5 (372)	386	980	140	2480	28.0	6.2	1800
		8	IPE 200	6 (435)	445	1100	140	2980	37.2	8.8	1600
	500	4	IPE 200	5 (372)	386	800	140	2480	26.4	8.1	1500
		5	IPE 200	5 (372)	386	860	140	2480	34.0	8.6	1550
		6	IPE 200	6 (435)	445	990	140	2980	43.7	10.9	1650
		7	IPE 200	6 (435)	445	1040	140	2980	52.2	11.1	1800
		8	IPE 240	7 (515)	510	1190	140	2980	63.7	12.8	1900
	1000	4	IPE 200	6 (435)	445	870	140	2980	52.1	14.6	1750
		5	IPE 200	6 (435)	445	930	140	2980	66.0	16.2	1900
		6	IPE 240	7 (515)	510	960	140	2980	80.1	17.1	2000
		7	IPE 240	7 (515)	510	1130	140	2980	96.8	17.6	2200
		8	HEA 160	7 (515)	510	1130	140	2980	112.6	18.5	2300
	1250	4	IPE 240	7 (515)	510	970	160	2980	66.3	19.2	1900
		5	IPE 240	7 (515)	510	1030	160	2980	82.8	19.5	2050
		6	IPE 240	7 (515)	510	1090	160	2980	100.0	19.9	2200
	1600	4	IPE 240	7 (515)	510	970	160	2980	82.7	22.6	2050
		5	IPE 240	7 (515)	510	1030	160	2980	103.9	23.0	2200
		6	IPE 240	7 (515)	510	1090	160	2980	124.7	23.4	2350
	2000	4	IPE 240	7 (515)	510	970	160	2980	101.4	26.5	2200
		5	IPE 240	7 (515)	510	1030	160	2980	127.2	26.9	2350

Slewing	Load capacity	Outreach l	Jib profile section	Pillar type ¹⁾	G	lan1 ⁴⁾	lan2 ⁴⁾	H0 ²⁾	M ²⁾³⁾	V ²⁾³⁾	W	
	[kg]	[m]			[mm]	[mm]	[mm]	[mm]	[kNm]	[kN]	[mm]	
Electrical	250	6	IPE 200	5 (372)	436	1030	140	2780	24.03	6.17	1500	
		7	HEA 160	5 (372)	436	1150	140	2780	30.88	6.96	1650	
		8	HEA 160	6 (435)	465	1160	140	3022	38.61	8.85	1650	
	500	4	IPE 200	5 (372)	436	910	140	2780	27.62	8.50	1550	
		5	IPE 200	5 (372)	436	970	140	2780	34.66	8.76	1650	
		6	IPE 200	6 (435)	465	1040	140	3022	43.18	10.18	1700	
		7	HEA 160	6 (435)	465	1160	140	3022	53.66	11.30	1800	
		8	HEA 160	7 (515)	510	1160	140	3022	63.49	12.34	1900	
		1000	4	IPE 200	6 (435)	465	920	140	3022	49.97	14.58	1750
			5	IPE 200	6 (435)	465	980	140	3022	62.25	14.88	1900
	6		IPE 240	7 (515)	510	1040	140	3022	77.26	16.23	2050	
	7		HEA 160	7 (515)	510	1160	140	3022	91.05	16.86	2200	
	8		HEA 160	7 (515)	510	1160	140	3022	105.38	17.35	2300	
	1250	4	IPE 240	7 (515)	510	940	160	3022	63.60	18.30	1900	
		5	IPE 240	7 (515)	510	1000	160	3022	79.14	18.68	2050	
		6	HEA 160	7 (515)	510	1120	160	3022	95.28	19.28	2200	
	1600	4	IPE 240	7 (515)	510	940	160	3022	78.55	21.73	2050	
		5	IPE 240	7 (515)	510	1000	160	3022	97.52	22.12	2200	
		6	HEA 160	7 (515)	510	1120	160	3022	117.09	22.71	2350	
	2000	4	IPE 240	7 (515)	510	940	160	3022	95.63	25.65	2200	
		5	IPE 240	7 (515)	510	1000	160	3022	118.53	26.04	2350	
1) For more information, see "Pillars"												
2) Values are based on jib cranes with lowest available pillar height. For more information, see "Pillars" for pillar height range.												
3) No dynamic factors included												
4) Approximate dimensions, exact values can be found from the layout drawing of the jib crane.												

4.3 I-beam section pillar-mounted slewing jib crane, low headroom design

Manual or electric slewing motion



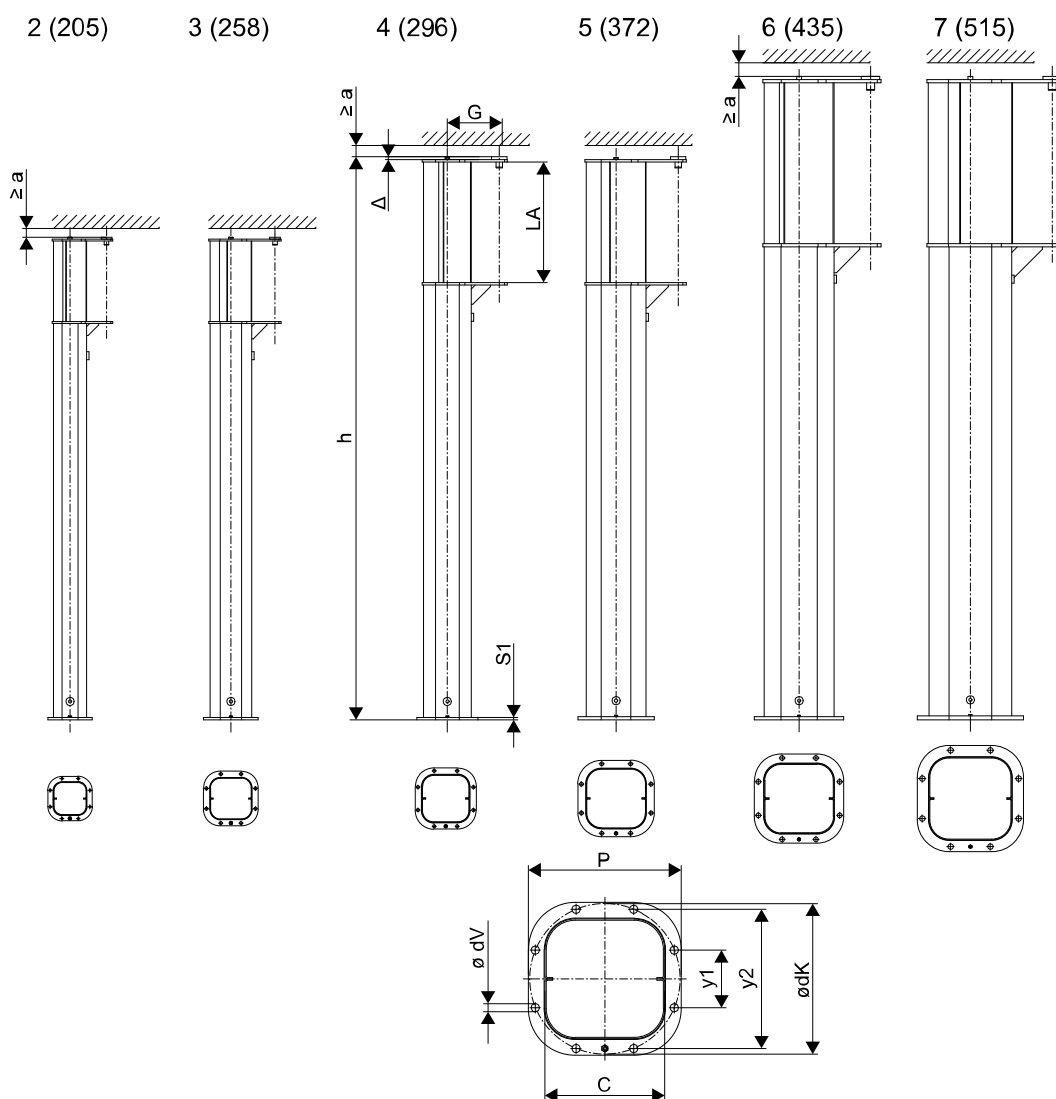
Jib is shown in 0° position. The slewing range is approximately 290° (2 x 145°).

Item	Designation
H0	Bottom edge of jib for height h
h	Height, For more information, see "Pillars"
l	Outreach
Ft	Foundation depth, for more information, see "Anchor bolt set and template" and "Anchorage"
lan1	Hoist approach dimension to center of supporting tube
lan2	Hoist approach dimension to jib end
X	Power supply optionally through duct from below or through bore hole from above
Y	Height 1400 mm

Slewing	Load capacity	Outreach l	Jib profile section	Pillar type 1)	G	lan1 4)	lan2 4)	H0 2)	M 2)3)	V 2)3)	W
	[kg]	[m]			[mm]	[mm]	[mm]	[mm]	[kNm]	[kN]	[mm]
Manual	125	2	IPE 160	2 (205)	228	540	140	2800	3.8	2.7	850
		3	IPE 160	2 (205)	228	600	140	2800	6.0	2.9	1000
		4	IPE 200	3 (258)	274	670	140	2760	8.9	3.6	1100
		5	IPE 200	3 (258)	274	730	140	2760	11.6	3.8	1250
	250	2	IPE 200	3 (258)	274	610	140	2760	6.8	4.3	1000
		3	IPE 200	3 (258)	274	670	140	2760	10.3	4.6	1200
		4	IPE 240	4 (296)	323	740	140	3212	15.0	5.9	1300
		5	IPE 240	4 (296)	323	800	140	3212	19.3	6.2	1400
		6	IPE 300	6 (435)	445	940	140	3640	27.1	9.4	1450
		7	IPE 360	6 (435)	445	1075	140	3580	37.1	10.9	1600
	500	2	IPE 240	4 (296)	323	680	140	3212	12.8	7.8	1200
		3	IPE 240	4 (296)	323	740	140	3212	19.0	8.1	1400
		4	IPE 300	5 (372)	386	820	140	3152	27.1	9.5	1550
		5	IPE 300	5 (372)	386	880	140	3152	34.6	9.9	1700
		6	IPE 360	7 (515)	510	1080	140	3580	46.8	13.7	1750
		7	IPE 400	7 (515)	510	1210	140	3540	58.8	15.0	1900
	1000	2	IPE 300	5 (372)	386	760	140	3152	25.1	13.8	1450
		3	IPE 300	5 (372)	386	820	140	3152	36.8	14.2	1700
		4	IPE 360	6 (435)	445	885	140	3580	51.2	16.8	1800
		5	IPE 360	6 (435)	445	945	140	3580	64.5	17.4	1950
		6	IPE 400	7 (515) 5)	510	1130	140	3540	81.4	19.4	2100
	1250	2	IPE 360	6 (435)	445	845	160	3580	32.3	18.4	1500
		3	IPE 360	6 (435)	445	905	160	3580	47.2	19.0	1750
		4	IPE 400	7 (515)	510	1010	160	3540	64.8	20.8	1950
	1600	2	IPE 360	6 (435)	445	845	160	3580	40.2	21.9	1600
		3	IPE 360	6 (435)	445	905	160	3580	58.5	22.4	1850
		4	IPE 400	7 (515)	510	1010	160	3540	79.7	24.3	2100
	2000	2	IPE 360	6 (435)	445	845	160	3580	49.1	25.8	1700
		3	IPE 360	6 (435)	445	905	160	3580	71.4	26.4	2000
		4	IPE 400	7 (515)	510	1010	160	3540	96.8	28.2	2200

Slewing	Load capacity	Outreach l	Jib profile section	Pillar type 1)	G	lan1 4)	lan2 4)	H0 2)	M 2)3)	γ 2)3)	W
	[kg]	[m]			[mm]	[mm]	[mm]	[mm]	[kNm]	[kN]	[mm]
Electrical	500	4	IPE 300	5 (372)	436	850	140	3152	29.50	9.51	1550
		5	IPE 300	5 (372)	436	3700	140	3152	37.35	9.92	1700
		6	IPE 360	7 (515)	510	1020	140	3580	49.75	12.86	1750
		7	IPE 400	7 (515)	510	1210	140	3540	62.10	14.07	1900
	1000	2	IPE 300	5 (372)	436	790	140	3152	26.51	13.68	1450
		3	IPE 300	5 (372)	436	850	140	3152	38.55	14.10	1700
		4	IPE 360	6 (435)	465	910	140	3580	53.03	16.14	1800
		5	IPE 360	6 (435)	465	970	140	3580	66.63	16.70	1950
		6	IPE 360	7 (515)	510	1020	140	3580	81.64	17.86	2100
	1250	2	IPE 360	6 (435)	465	870	160	3580	33.81	17.86	1500
		3	IPE 360	6 (435)	465	930	160	3580	49.13	18.42	1750
		4	IPE 400	7 (515)	510	1020	160	3580	66.88	19.96	1950
	1600	2	IPE 360	6 (435)	465	870	160	3580	41.72	21.29	1600
		3	IPE 360	6 (435)	465	930	160	3580	60.48	21.85	1850
		4	IPE 400	7 (515)	510	1020	160	3580	81.83	23.39	2050
	2000	2	IPE 360	6 (435)	465	870	160	3580	50.76	25.22	1700
		3	IPE 360	6 (435)	465	930	160	3580	73.44	25.78	2000
		4	IPE 400	7 (515)	510	1020	160	3540	98.92	27.31	2200
1) For more information, see "Pillars"											
2) Values are based on jib cranes with lowest available pillar height. For more information, see "Pillars" for pillar height range.											
3) No dynamic factors included											
4) Approximate dimensions, exact values can be found from the layout drawing of the jib crane.											
5) Maximum pillar height 4000 mm											

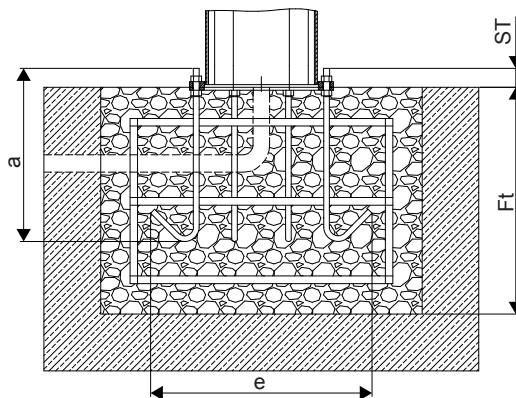
4.4 Pillars



Pillar type	Distance between support bearings LA [mm]	Slewing	h [mm]	a [mm]	G [mm]	S1 [mm]	Δ [mm]	C [mm]	P [mm]	Ø dK [mm]	y1 [mm]	y2 [mm]	Ø dV [mm]	Weight [kg]	Pillar part no.
2 (205)	500	Manual	3000	60	228	15	12	205	275	268	103	248	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	330	126	305	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		3500	80	323	15	17	296	380	373	143	345	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	468	179	432	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	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	

Pillar type	Distance between support bearings LA [mm]	Slewing	h [mm]	a [mm]	G [mm]	S1 [mm]	Δ [mm]	C [mm]	P [mm]	Ø dK [mm]	y1 [mm]	y2 [mm]	Ø dV [mm]	Weight [kg]	Pillar part no.
6 (435)	1000	Manual	4000	100	445	20	20	435	555	548	210	506	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									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	100	510	25	20	515	660	648	248	599	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											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

4.5 Anchor bolt set and template



Pillar type	Foundation depth Ft [mm]	a [mm]	ST [mm]	e [mm]	Anchor bolt	Anchor bolt set	
						Weight [kg]	Part no.
2 (205)	800	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

The anchor arrangement for pillars consists of anchor rods, nuts, and a template.

The details for foundations that are given in this document must be checked by the customer taking into consideration the local conditions. The foundation must be prepared by a building company that specializes in this work.

4.6 Anchorage

Jib cranes are anchored to the floor with anchor plates and chemical anchor bolts that are approved for dynamic loads. Minimum concrete thickness is 170 mm and grade C20/25 according to standard EN 206.

4.6.1 Anchor plates

Anchor plate dimensions and data

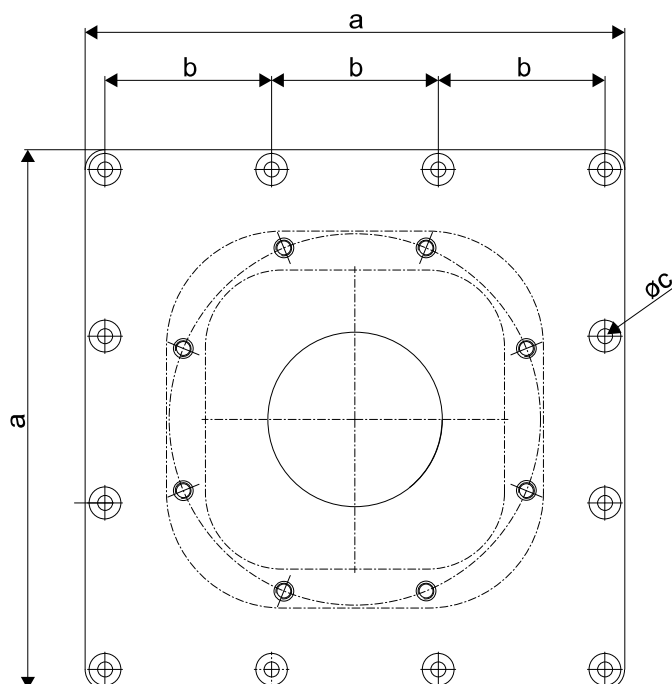


Figure 1. Anchor plate for pillar type 5 (372)

Pillar type	Maximum allowed tilting moment ¹⁾ [kNm]	Anchor plate Part no.	Anchor plate weight [kg]	Number of anchor bolts	a [mm]	b [mm]	Ø c [mm]	Anchor plate thickness [mm]	Minimum distance from edge [mm]
2 (205)	6.3	668 126 44	12.08	4	295	255	19	20	200
3 (258)	11.7	668 226 44	27.81	4	445	395		20	
4 (296)	20.9	669 126 44	42.79	8	490	2x220		25	
5 (372)	39.5	669 226 44	97.98	12	680	3x210		30	
6 (435)	76.5	670 126 44	284.83	12	995	3x315		40	
7 (515)	92.0	670 226 44	374.28	12	1130	3x360		40	
	125.0	670 228 44	628.23	16	1310	4x315		50	

¹⁾ No dynamic factors included

Bolted connection between crane and anchor plate

Pillar type	Attachment set Part no.	Bolt size	Bolt tightening torque [Nm]
2 (205)	668 136 44	M12	45
3 (258)	669 136 44	M16	105
4 (296)			
5 (372)	669 236 44	M20	200
6 (435)	670 136 44	M24	350
7 (515)	670 236 44	M30	680

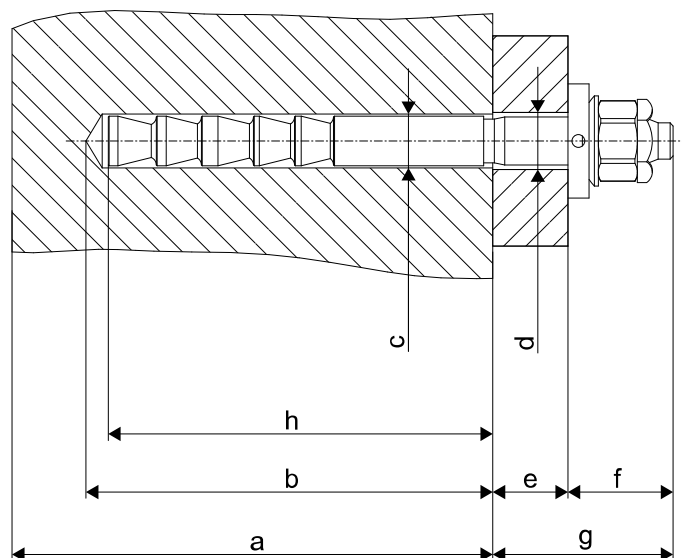
Finish: daffodil yellow (RAL 1007)

4.6.2 Anchor bolts

Anchor bolts that are approved for slewing jib cranes by the construction supervising authority are Fischer multicone dynamic anchor bolts FHB-A dyn 16 x 125/25.

One anchor bolt consists of several parts:

- Strength class 8.8 threaded steel rod with a plastic collar
- Strength class 8 hexagon nut with locknut
- Two washers



	Description	[mm]
a	Concrete thickness	170
b	Borehole depth = concrete setting depth	130
c	Rated drill diameter for concrete	18
d	Borehole diameter in anchor plate	19
e	Anchor plate thickness	According to pillar and anchor plate type
f	Height of other above-ground parts	35
g	Height of anchor above concrete	e + f
h	Anchor length	

Anchor bolt tightening torque is 60 Nm.

Anchor bolts come in sets that include four anchor bolts and related parts.

4.6.2.1 Anchor bolt sets

Anchor bolt set includes:

- Four anchor bolts
- Mortar cartridge
- Static mixer
- Adapter for the static mixer to fill the annular gap

NOTE

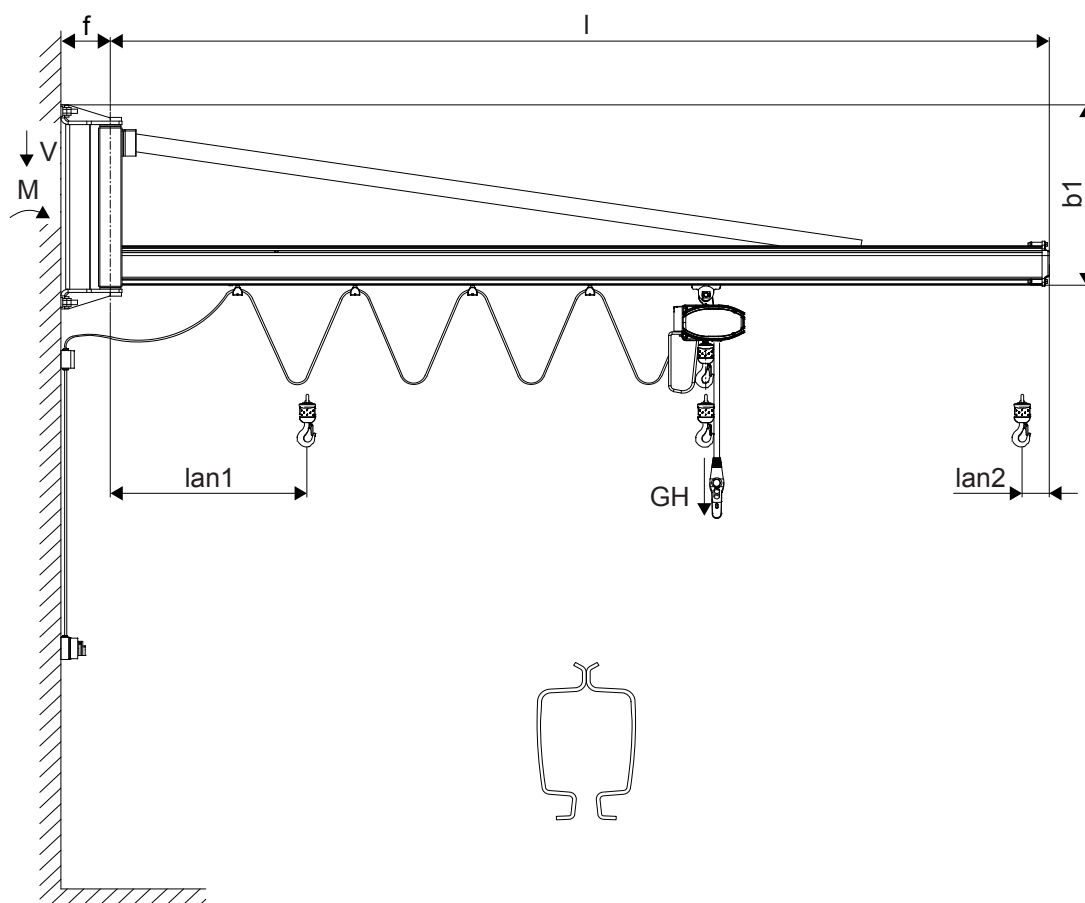
The mortar cartridge must be protected from exposure to sunlight and heat, and stored in a cool place according to the instructions for use.

Item	Manufacturer	Designation	Size	Number of anchor bolts in set	Anchor bolt set Part no.	Weight [kg]
29	Fischer	FHB-A dyn 16 x 125/25	M16	4	668 250 44	1.85

5 WALL-MOUNTED SLEWING JIB CRANE DIMENSIONS AND DATA

5.1 ProfileMaster PLUS ST wall-mounted slewing jib crane

Manual slewing motion



Jib is shown in 0° position. The slewing range is approximately 270° (2 x 135°).

Item	Designation
b1	Top edge of bracket to bottom edge of jib
l	Outreach
lan1	Hoist approach dimension to center of supporting tube
lan2	Hoist approach dimension to jib end

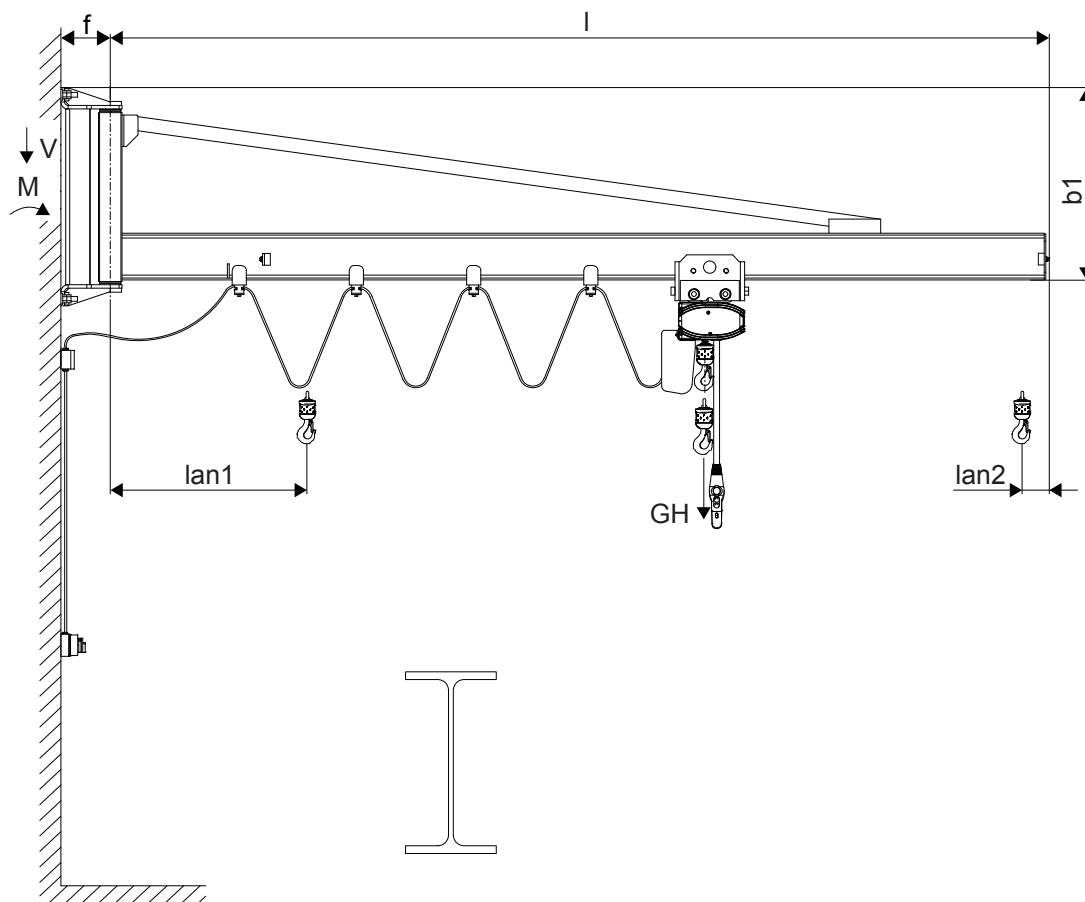
NOTE *The wall bracket anchorage is not included in the scope of supply as local conditions can vary considerably. For bracket clamping arrangements on pillars, see "Bracket clamping arrangement".*

Load capacity [kg]	Outreach l [m]	Jib profile section	Bracket type ¹⁾	Bracket part no.	f [mm]	lan1 ³⁾ [mm]	lan2 ³⁾ [mm]	b1 [mm]	M ²⁾ [kNm]	V ²⁾ [kN]
125	2	ST I	W-500-M	668 600 44	170	420	100	556	3.6	2.0
	3	ST I		668 600 44	170	460	100	556	5.6	2.1
	4	ST I		668 600 44	170	500	100	556	8.7	2.9
	5	ST II	W-750-M	669 600 44	210	735	115	822	11.4	3.2
	6	ST II		669 600 44	210	795	115	822	14.2	3.4
	7	ST II		669 600 44	210	855	115	822	17.0	4.0

Load capacity [kg]	Outreach I [m]	Jib profile section	Bracket type ¹⁾	Bracket part no.	f [mm]	lan1 ³⁾ [mm]	lan2 ³⁾ [mm]	b1 [mm]	M ²⁾ [kNm]	v ²⁾ [kN]
250	2	ST I	W-500-M	668 600 44	170	420	100	556	6.1	3.2
	3	ST I		668 600 44	170	460	100	556	9.4	3.4
	4	ST II	W-750-M	669 600 44	210	675	115	822	13.7	4.1
	5	ST II		669 600 44	210	735	115	822	17.7	4.4
	6	ST II		669 600 44	210	795	115	822	21.7	4.6
	7	ST II	W-1000-M	670 600 44	255	1020	115	1100	26.0	5.0
500	2	ST II	W-750-M	669 600 44	210	555	115	822	11.7	6.2
	3	ST II		669 600 44	210	615	115	822	17.7	6.4
	4	ST II		669 600 44	210	675	115	822	23.7	6.6
	5	ST II	W-750-M	669 600 44	210	735	115	822	30.5	7.1
	6	ST II	W-1000-M	670 600 44	255	960	115	1100	37.0	7.3
	7	ST II	W-1000-M	670 600 44	255	1005	115	1100	36.9	6.6
1000	2	ST II	W-750-M	669 600 44	210	680	240	822	21.3	11.4
	3	ST II		669 600 44	210	740	240	822	32.5	11.6
	4	ST II	W-1000-M	670 600 44	255	965	240	1100	44.5	12.1
	5	ST II		670 600 44	255	1025	240	1100	56.7	12.7
	6	ST II		670 600 44	255	1085	240	1100	69.0	13.0
1) For more information, see "Bracket"										
2) No dynamic factors included										
3) Approximate dimensions, exact values can be found from the layout drawing of the jib crane.										

5.2 I-beam section wall-mounted slewing jib crane, fitted with brace

Manual or electric slewing motion



Jib is shown in 0° position. Manual slewing range is approximately 270° (2 x 135°) and electric slewing range is approximately 290° (2 x 145°).

Item	Designation
b1	Top edge of bracket to bottom edge of jib
l	Outreach
lan1	Hoist approach dimension to center of supporting tube
lan2	Hoist approach dimension to jib end

NOTE

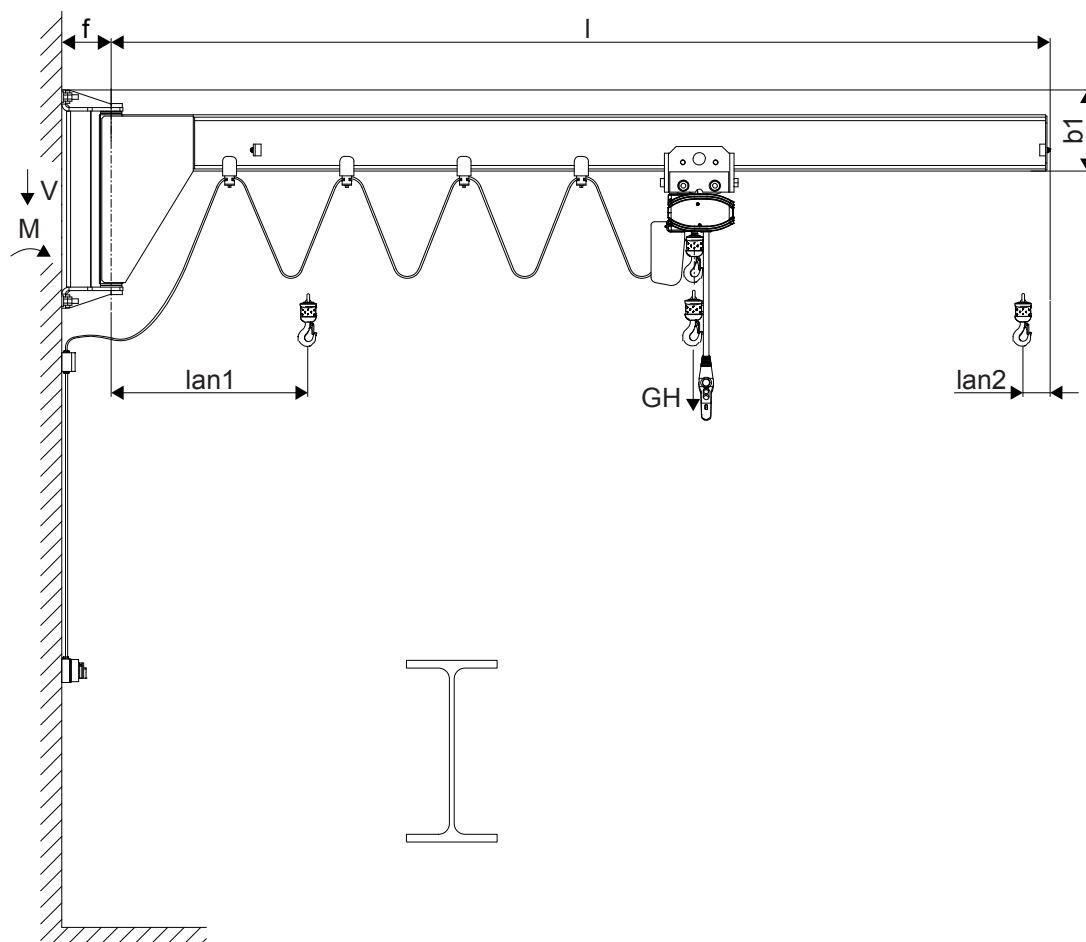
The wall bracket anchorage is not included in the scope of supply as local conditions can vary considerably. For bracket clamping arrangements on pillars, see "Bracket clamping arrangement".

Slewing	Load capacity	Outreach l	Jib profile section	Bracket type ¹⁾	Bracket part no.	f	lan1 ³⁾	lan2 ³⁾	b1	M ²⁾	V ²⁾
	[kg]	[m]				[mm]	[mm]	[mm]	[mm]	[kNm]	[kN]
Manual	125	6	IPE 160	W-750-M	669 600 44	210	850	140	870	13.6	3.1
		7	IPE 160	W-750-M	669 600 44	210	920	140	870	16.7	3.3
		8	IPE 200	W-750-M	669 600 44	210	1030	140	870	22.3	4.1
	250	4	IPE 160	W-750-M	669 600 44	210	740	140	870	13.4	4
		5	IPE 160	W-750-M	669 600 44	210	800	140	870	17.4	4.2
		6	IPE 200	W-750-M	669 600 44	210	920	140	870	21.6	4.4
		7	IPE 200	W-750-M	669 600 44	210	980	140	870	26	4.6
		8	IPE 200	W-1000-M	670 600 44	255	1100	140	1100	34.4	6.0
	500	4	IPE 200	W-1000-M	670 600 44	255	800	140	1100	24.1	6.8
		5	IPE 200	W-1000-M	670 600 44	255	860	140	1100	30.9	7
		6	IPE 200	W-1000-M	670 600 44	255	990	140	1100	39.9	8.1
		7	IPE 200	W-1000-M	670 600 44	255	1040	140	1100	48.3	8.4
		8	IPE 240	W-1000-M	670 600 44	255	1190	140	1100	59.2	9.5
	1000	4	IPE 200	W-1000-M	670 600 44	255	870	140	1100	46.5	12.7
		5	IPE 200	W-1000-M	670 600 44	255	930	140	1100	59.8	13.4
		6	IPE 240	W-1000-M	670 600 44	255	960	140	1100	73	13.7
		7	IPE 240	W-1000-M	670 600 44	255	1130	140	1100	89.3	14.7
		8	HEA 160		670 600 44	255	1130	140	1100	104.7	15.6
	1250	4	IPE 240		670 600 44	255	970	160	1100	58.7	16.3
		5	IPE 240		670 600 44	255	1030	160	1100	75	16.7
		6	IPE 240		670 600 44	255	1090	160	1100	91.7	17.2
	1600	4	IPE 240		670 600 44	255	970	160	1100	73.3	20.1
		5	IPE 240		670 600 44	255	1030	160	1100	93.4	20.6
		6	IPE 240		670 600 44	255	1090	160	1100	114	21
	2000	4	IPE 240		670 600 44	255	970	160	1100	90	24.5
		5	IPE 240		670 600 44	255	1030	160	1100	114.5	24.9

Slewing	Load capacity	Outreach l	Jib profile section	Bracket type 1)	Bracket part no.	f	lan1 3)	lan2 3)	b1	M 2)	v 2)	
	[kg]	[m]				[mm]	[mm]	[mm]	[mm]	[kNm]	[kN]	
Electric	250	6	IPE 200	W-750-E	669 650 44	340	1025	140	870	22.55	5.42	
		7	HEA 160		669 650 44	340	1150	140	870	29.33	6.22	
		8	HEA 160	W-1000-E	670 650 44	365	1270	140	1100	36.89	7.71	
	500	4	IPE 200	W-750-E	669 650 44	340	905	140	870	24.95	7.76	
		5	IPE 200		669 650 44	340	965	140	870	31.96	8.01	
		6	IPE 200	W-1000-E	670 650 44	365	1005	140	1100	40.30	9.04	
		7	HEA 160		670 650 44	365	1270	140	1100	50.67	10.16	
		8	HEA 160		670 650 44	365	1135	140	1100	59.93	10.64	
		1000	4		IPE 200	670 650 44	365	885	140	1100	44.83	13.44
			5		IPE 200	670 650 44	365	945	140	1100	57.08	13.74
	6		IPE 240		670 650 44	365	1060	140	1100	71.29	14.53	
	7		HEA 160		670 650 44	365	1270	140	1100	84.99	15.16	
	8		HEA 160		670 650 44	365	1135	140	1100	99.26	15.65	
	1250	4	IPE 240		670 650 44	365	940	160	1100	53.21	16.60	
		5	IPE 240		670 650 44	365	1000	160	1100	66.98	16.98	
		6	HEA 160		670 650 44	365	1095	160	1100	80.82	17.58	
	1600	4	IPE 240		670 650 44	365	940	160	1100	66.40	20.03	
		5	IPE 240		670 650 44	365	1000	160	1100	83.60	20.42	
		6	HEA 160		670 650 44	365	1095	160	1100	107.88	21.01	
	2000	4	IPE 240		670 650 44	365	940	160	1100	84.56	23.96	
		5	IPE 240		670 650 44	365	1000	160	1100	107.40	24.34	
1) For more information, see "Bracket"												
2) No dynamic factors included												
3) Approximate dimensions, exact values can be found from the layout drawing of the jib crane.												

5.3 I-beam section wall-mounted slewing jib crane, low headroom design

Manual or electric slewing motion



Jib is shown in 0° position. Manual slewing range is approximately 250° (2 x 125°) and electric slewing range is approximately 290° (2 x 145°).

Item	Designation
b1	Top edge of bracket to bottom edge of jib
l	Outreach
lan1	Hoist approach dimension to center of supporting tube
lan2	Hoist approach dimension to jib end

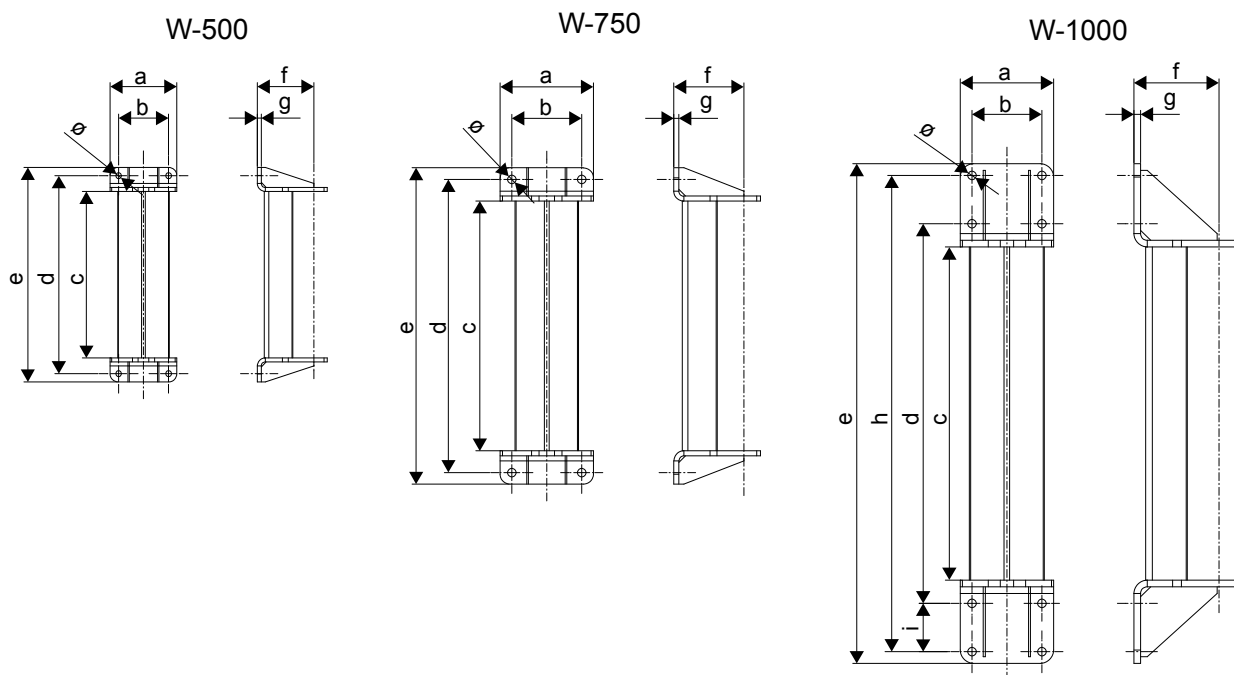
NOTE

The wall bracket anchorage is not included in the scope of supply as local conditions can vary considerably. For bracket clamping arrangements on pillars, see "Bracket clamping arrangement".

Slewing	Load capacity	Outreach l	Jib profile section	Bracket type ¹⁾	Bracket part no.	f	lan1 ³⁾	lan2 ³⁾	b1	M ²⁾	V ²⁾
	[kg]	[m]				[mm]	[mm]	[mm]	[mm]	[kNm]	[kN]
Manual	250	2	IPE 200	W-500-M	668 600 44	170	610	140	288	6.4	3.6
		3	IPE 200		668 600 44	170	670	140	288	9.9	3.8
		4	IPE 240	W-750-M	669 600 44	210	740	140	346	14.5	4.7
		5	IPE 240		669 600 44	210	800	140	346	18.8	5.0
		6	IPE 300	W-1000-M	670 600 44	255	1005	140	500	26.0	6.7
		7	IPE 360		670 600 44	255	1075	140	500	35.6	8.1
	500	2	IPE 240	W-750-M	669 600 44	210	680	140	346	12.0	6.6
		3	IPE 240		669 600 44	210	740	140	346	18.2	6.9
		4	IPE 300		669 600 44	210	820	140	406	25.8	7.8
		5	IPE 300		669 600 44	210	880	140	406	33.2	8.2
		6	IPE 360	W-1000-M	670 600 44	255	1100	140	500	44.4	10.2
		7	IPE 400		670 600 44	255	1210	140	540	89.0	11.4
	1000	2	IPE 300	W-750-M	669 600 44	210	760	140	406	22.9	12.1
		3	IPE 300		669 600 44	210	820	140	406	34.6	12.5
		4	IPE 360	W-1000-M	670 600 44	255	885	140	499	48.7	14.1
		5	IPE 360		670 600 44	255	945	140	499	61.9	14.7
		6	IPE 400		670 600 44	255	1130	140	540	77.5	15.8
		7	IPE 450		670 600 44	255	1210	140	499	95.3	17.3
	1250	2	IPE 360		670 600 44	255	845	160	499	29.4	15.7
		3	IPE 360		670 600 44	255	905	160	499	44.3	16.3
		4	IPE 400		670 600 44	255	1010	160	540	60.5	17.3
		5	IPE 450		670 600 44	255	1080	160	590	78.4	18.5
		6	IPE 450		670 600 44	255	1130	160	590	96.1	19.2
	1600	2	IPE 360		670 600 44	255	845	160	499	36.6	19.1
		3	IPE 360		670 600 44	255	905	160	499	54.9	19.7
		4	IPE 400		670 600 44	255	1010	160	540	74.6	20.7
		5	IPE 450		670 600 44	255	1080	160	590	95.9	21.9
		6	IPE 450		670 600 44	255	1130	160	590	117.0	22.7
	2000	2	IPE 360		670 600 44	255	845	160	499	44.8	23.1
		3	IPE 360		670 600 44	255	905	160	499	67.1	23.6
		4	IPE 400		670 600 44	255	1010	160	540	90.7	24.6
		5	IPE 450		670 600 44	255	1080	160	590	115.9	25.8

Slewing	Load capacity	Outreach l	Jib profile section	Bracket type ¹⁾	Bracket part no.	f	lan1 ³⁾	lan2 ³⁾	b1	M ²⁾	V ²⁾				
	[kg]	[m]				[mm]	[mm]	[mm]	[mm]	[kNm]	[kN]				
Electric	500	4	IPE 300	W-750-E	669 650 44	340	850	140	406	26.73	8.77				
		5	IPE 300		669 650 44	340	910	140	406	34.54	9.18				
		6	IPE 360	W-1000-E	670 650 44	365	1020	140	500	46.11	11.16				
		7	IPE 400		670 650 44	365	1210	140	540	58.28	12.37				
	1000	2	IPE 300	W-750-E	669 650 44	340	790	140	406	21.64	12.94				
		3	IPE 300		669 650 44	340	850	140	406	33.64	13.35				
		4	IPE 360	W-1000-E	670 650 44	365	910	140	499	47.74	15.00				
		5	IPE 360		670 650 44	365	970	140	499	61.29	15.56				
		6	IPE 360		670 650 44	365	1020	140	499	75.43	16.17				
	1250	2	IPE 360		670 650 44	365	870	160	499	27.32	16.72				
		3	IPE 360		670 650 44	365	930	160	499	42.58	17.28				
		4	IPE 400		670 650 44	365	1020	160	540	59.34	18.26				
		5	IPE 450		670 650 44	365	1080	160	590	77.81	19.48				
		6	IPE 450		670 650 44	365	1150	160	590	95.95	20.24				
	1600	2	IPE 360		W-1000-E	670 650 44	365	870	160	499	33.64	20.15			
		3	IPE 360			670 650 44	365	930	160	499	52.34	20.71			
		4	IPE 400			670 650 44	365	1020	160	540	72.52	21.69			
		5	IPE 450			670 650 44	365	1080	160	590	94.43	22.92			
		6	IPE 450			670 650 44	365	1150	160	590	116.00	23.68			
	2000	2	IPE 360			W-1000-E	670 650 44	365	870	160	499	40.87	24.08		
		3	IPE 360				670 650 44	365	930	160	499	63.49	24.64		
		4	IPE 400				670 650 44	365	1020	160	540	87.60	25.61		
		5	IPE 450				670 650 44	365	1080	160	590	113.43	26.84		
		1) For more information, see "Bracket"													
	2) No dynamic factors included														
	3) Approximate dimensions, exact values can be found from the layout drawing of the jib crane.														

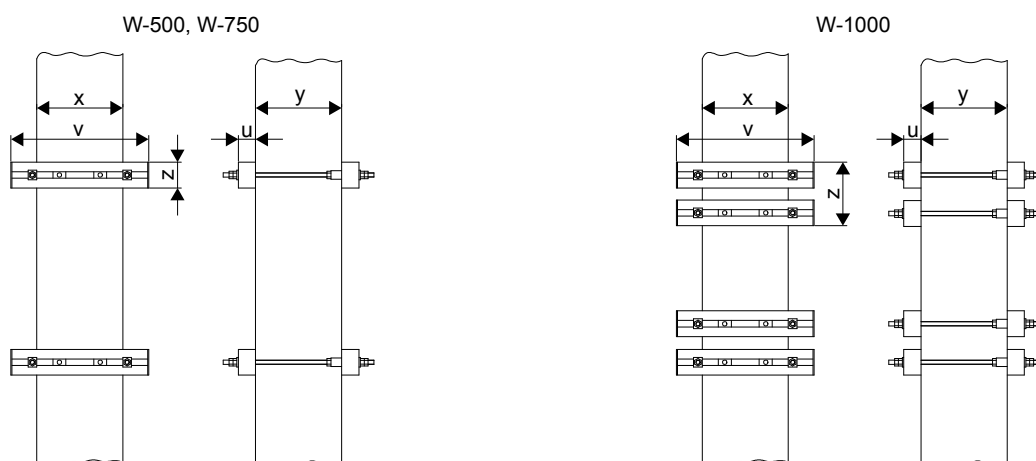
5.4 Bracket



Bracket type	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	h [mm]	Ø [mm]
W-500	200	150	500	594	644	-	17
W-750	280	210	750	880	950	-	26
W-1000			1000	1140	1500	1430	

Bracket type	Distance between support bearings [mm]	Slewing	Anchor bolt	f [mm]	g [mm]	Weight [kg]	Part no.
W-500-M	500	Manual	M16	170	12	13.14	668 600 44
W-750-M	750		M24	210	15	30.00	669 600 44
W-750-E		Electric		340		42.00	669 650 44
W-1000-M	1000	Manual		255	20	63.95	670 600 44
W-1000-E		Electric		365		93.24	670 650 44

5.5 Bracket clamping arrangement

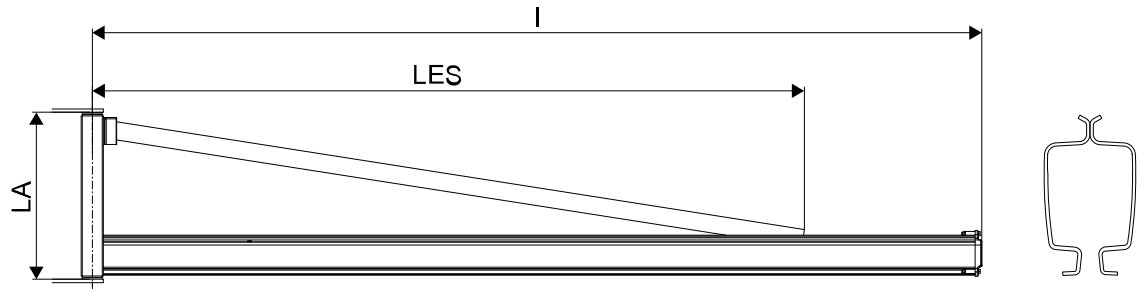


Bracket type	Clamping arrangement size	Width x		Depth y	u	v	z	Threaded rod	Tightening torque	Weight	Part no.
		from [mm]	to [mm]	max. [mm]	[mm]	[mm]	[mm]				
W-500	S	200	330	807	50	420	75	M16	170	16.81	668 610 44
	M	200	460	807	50	550	75			18.81	668 615 44
	L	460	650	787	60	740	85			25.50	668 620 44
W-750	S	280	400	750	60	530	100	M24	725	54.33	669 610 44
	M	280	550	710	80	680	130			81.09	669 615 44
	L	550	750	670	100	880	140			110.56	669 620 44
W-1000	S	280	400	750	60	530	245			108.84	670 610 44
	M	280	550	710	80	680	275			162.35	670 615 44
	L	550	750	670	100	880	285			221.30	670 620 44

The brackets for W-1000 each contain 2x bracket for W-750.

6 JIB DIMENSIONS AND DATA

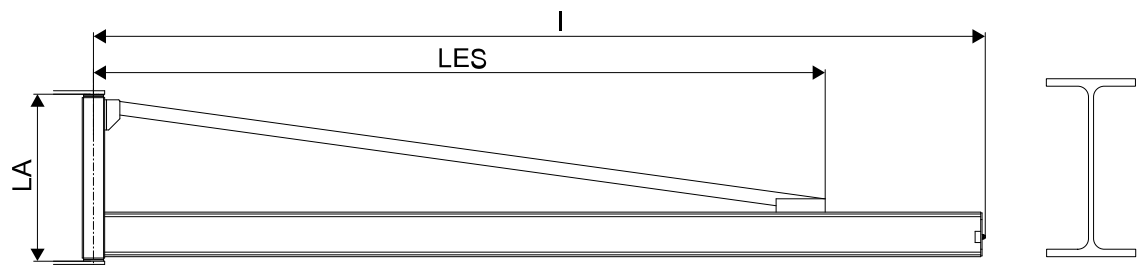
6.1 Jib with ST profile section, fitted with brace



Distance between support bearings LA [mm]	Slewing	Outreach I ¹⁾ [m]	Load capacity [kg]	Jib profile section	LES [mm]	Weight [kg]	Jib part no.
500	Manual	2	315	ST 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	ST II	1650	55.0	669 302 44
		3			2500	79.9	669 303 44
		4	500		3200	97.0	669 304 44
		5	500		4500	127.8	669 309 44
		6	250		5200	141.8	669 306 44
		7	160		5900	162.4	669 307 44
1000		4	1000	ST 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

¹⁾ Outreach rated dimension +-10 mm

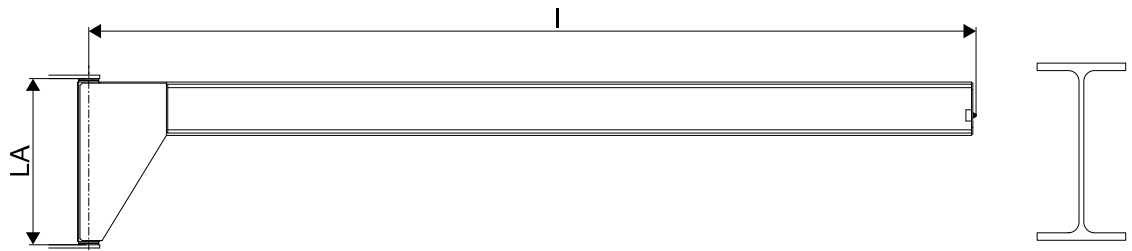
6.2 Jib with I-beam section, fitted with brace



Distance between support bearings LA [mm]	Slewing	Outreach I ¹⁾ [m]	Load capacity [kg]	Jib profile section	LES [mm]	Weight [kg]	Jib 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
		8	125	IPE 200	6045	221.0	669 355 44
	Electric	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	150.0	670 349 44
		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		IPE 200	3250	158.0	670 377 44
		4	2000	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	670 375 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

¹⁾ Outreach rated dimension +-10 mm

6.3 Jib with I-beam section, low headroom design



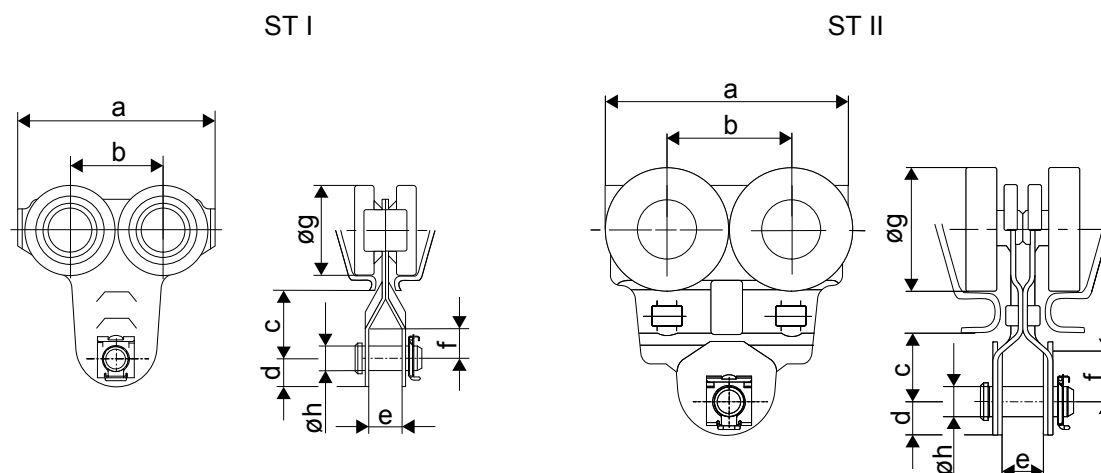
Distance between support bearings LA [mm]	Slewing	Outreach I ¹⁾ [m]	Load capacity [kg]	Jib profile section	Weight [kg]	Jib part no.
500	Manual	2	125	IPE 160	48.0	668 348 44
		2	250	IPE 200	66.0	668 352 44
		3	125	IPE 160	64.0	668 347 44
		3	250	IPE 200	88.0	668 351 44
		4	63	IPE 160	80.0	668 346 44
		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	669 381 44
		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 I ¹⁾ [m]	Load capacity [kg]	Jib profile section	Weight [kg]	Jib 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
1) Outreach rated dimension +/-10 mm						

7 COMPONENT DIMENSIONS AND DATA

7.1 Trolleys

7.1.1 Trolleys for ST jib cranes



	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	Øg [mm]	Øh [mm]
ST I	140	65	45	19	22	12	59	16
ST II	170	85		25	28	15	82	20

Trolley	Maximum load [kg]	Weight approx. [kg]	Part no.
ST I	300	1	980 610 44
ST II	600	2	982 110 44

The load handling attachment and load must be flexibly suspended.

Trolleys are fitted with 4 plastic travel wheels mounted on permanently lubricated anti-friction bearings. ST 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 approximately 1–1.5% of the attached load and approximately 0.5% with constant displacement.

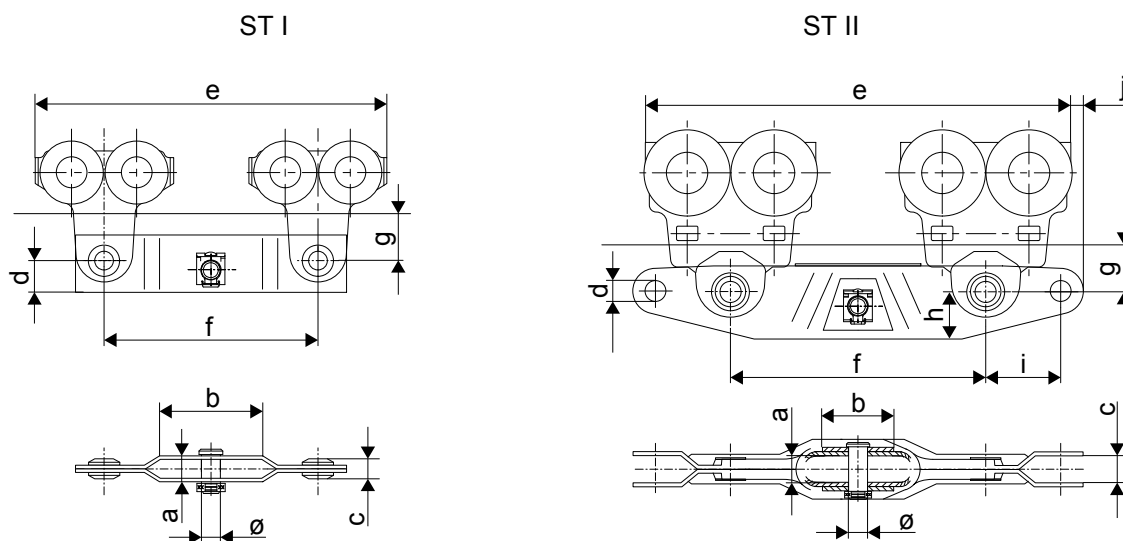
Temperature range: -20°C to +70°C. The load must be reduced under extreme temperature conditions:

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

Pins with BoClip pin retainers can be ordered individually.

Trolley	ST I	ST II
Pin with pin retainer	851 305 44	851 317 44

7.1.2 Load bars for ST trolleys



	a [mm]	b [mm]	c [mm]	Ø [mm]	d [mm]	e [mm]	f [mm]	g [mm]	h [mm]	i [mm]	j [mm]
ST I	21	70	19	16	28	350	210	48	-		
ST II	30	45	28	20	20	420	250	45	30	75	10

Articulated frame	Maximum load [kg]	Weight approx. [kg]	Part no.
ST I	400	3	980 322 44
ST II ¹⁾	1200	6	851 132 44

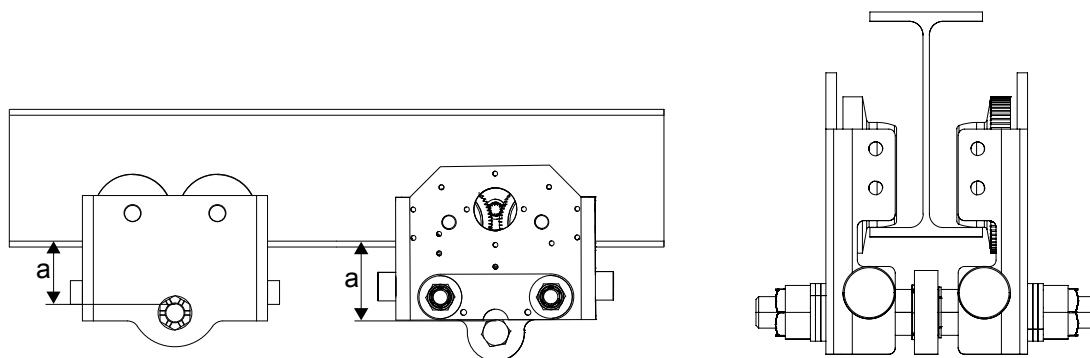
¹⁾ Chain hoists with long suspension eye.

A double trolley is created by joining two trolleys with an articulated frame. Holes drilled in the ends of ST II articulated frames are provided for fitting spacer bars and link bars (items 69 and 71, see ProfileMaster PLUS ST technical guide), they are not designed for connecting loads.

Pins with BoClip pin retainers can be ordered individually.

Trolley	ST I	ST II
Pin with pin retainer	851 305 44	851 317 44

7.1.3 Trolleys for I-beams



a = distance between the running surface of the beam and the hoist suspension point

Trolley type	Load capacity [kg]	a with hook suspension [mm]	a with coupled suspension [mm]	Chain hoist frame size	Beam flange width [mm]
Push trolley, manual	250	67		CA, CB	50–202
Push trolley, manual	500	73		CA, CB	50–202
					188–310
Push trolley, manual	1000	93		CB, CC	65–202
					188–310
Push trolley, manual	2000	112		CC	88–202
					188–310
C1 trolley, motorized	1000	92	45	CA, CB, CC	57–103
					104–153
					154–201
					202–259
					260–307
					308–310
					311–350
C2 trolley, motorized	2000	116	65	CA, CB	64–127
					128–191
					192–255
					256–310
					311–361
				CC	64–127
					128–191
					192–255
					256–310
					311–350

For more information on trolleys for I-beam sections, see trolley owner's manual (included in the scope of delivery for the trolley).

Buffer plates for trolleys

Trolleys must be equipped with buffer plates for collision protection. Buffer plates and related parts are included in the mounting plate sets for trolleys.

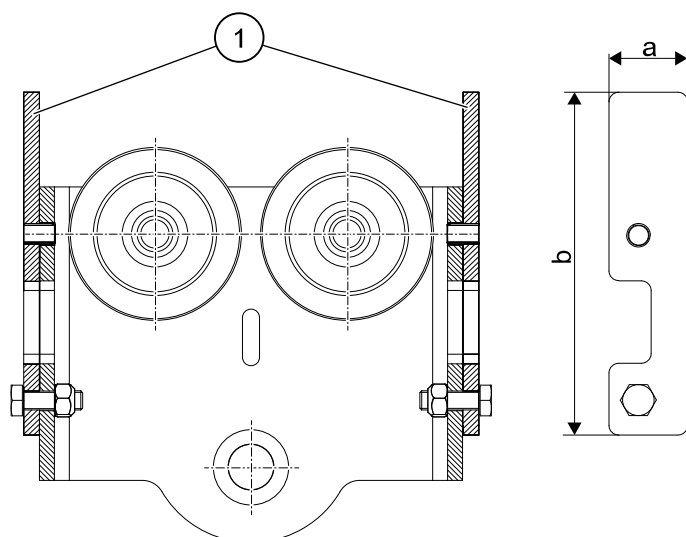


Figure 2. Buffer plate for manual push trolley with 1000 kg load capacity

1. Buffer plate

Trolley type	Load capacity [kg]	Mounting plate set for trolley	a [mm]	b [mm]
Push trolley, manual	250	553 387 39	26	169
Push trolley, manual	500	553 388 99	34	170.5
Push trolley, manual	1000	553 389 14	40	180
Push trolley, manual	2000	553 389 22	45	189
C1 trolley, motorized	1000	553 433 57	51	163.5
C2 trolley, motorized	2000	553 433 60	53	175

7.2 Hoists

Load capacity	Maximum hoist weight	
[kg]	ST jib [kg]	I-beam jib [kg]
125	40	25
250		35
500		65
1000	70	75
1250	-	100
1600	-	
2000	-	

7.3 Manufacturer's plate and load capacity plate

7.3.1 Plates for ProfileMaster PLUS ST jib

250 KG

SWF
KRANTECHNIK

VECTO jib

Item	Designation	Load capacity	ST I h = 40 mm	ST II h = 60 mm
		[kg]	Part no.	Part no.
15	Capacity plate	125	854 032 44	854 041 44
		250	854 034 44	854 042 44
		500	854 036 44	854 043 44
		1000	-	854 046 44
16	Manufacturer's plate		553 791 40	553 791 41

Load capacity and the manufacturer's plates must be attached to both sides of the jib.

Type: self-adhesive foil

7.3.2 Plates for I-beam jib

250 KG

SWF
KRANTECHNIK

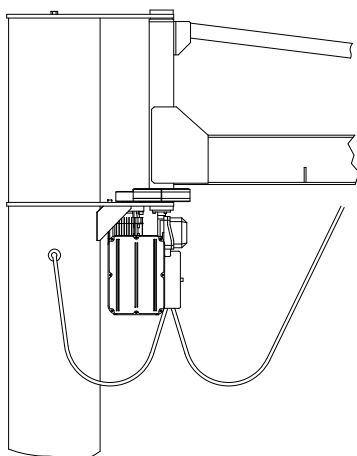
VECTO jib

Designation	Load capacity [kg]	Jib profile section		
		IPE 160 Part no.	HEA 160 Part no.	IPE 200–IPE 450 Part no.
Capacity plate	125	854 041 44		553 779 00
	250	854 042 44		553 779 01
	500	854 043 44		553 779 02
	1000	854 046 44		553 779 03
	1250	-		553 779 04
	1600	854 048 44		553 779 05
	2000	-		553 779 06
Manufacturer's plate		553 791 41		553 791 42

Load capacity and the manufacturer's plates must be attached to both sides of the jib.

Type: self-adhesive foil

7.4 Slewing jib crane with electrical slewing mechanism



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
Enclosure mounting bracket		669 265 44
Electric enclosure for chain hoist		772 417 45

Slewing jib cranes with electric slewing mechanisms are supplied with special jibs. They cannot be fitted to standard jibs later.

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 for gentle acceleration and to specify the slewing speed depending on the outreach (default slewing speed [rpm] = 0.6–1). The first stage of the slewing range is switched off by the geared limit switch.

Electric slewing mechanism specifications

Frequency inverter Operating voltage	Output [kW]	Rated current I _N [A]	cos φ _N	CDF [%]	Insulation class	Motor enclosure	Motor speed [rpm]
380-415 V 50 Hz	0.4	2	0.6	40	F	IP55	650

Depending on the capacity of the slewing jib crane (load capacity and outreach), the motor is operated with a maximum frequency of 17, 23, 29, 32, 34 or 46 Hz.

Example: 17 Hz at 2000 kg x 5 m, ≤ 1000 kg, 6–8 m; 46 Hz ≤ 2000 kg x 2 m

A cover is available for the slewing drive as an option.

7.5 Electric equipment

Designation	Pillar-mounted jib crane part no.	Wall-mounted jib crane part no.
Basic electric equipment	668 940 44	668 941 44

In the basic electric equipment following parts are included.

Designation	Quantity	
	Pillar-mounted jib crane	Wall-mounted jib crane
Isolator switch	1	1
Self-tapping screw	4	-
Wire end sleeve	10	
Twist-type cable entry gland for flat cable	1	1
Twist-type cable entry gland for round cable	1	1
Accessories for pillar	1	-
Accessories for jib	1	-

The flat cable to the hoist unit and required cable carriers are not part of the basic electric equipment. The relevant parts need to be selected according to the jib dimensions from the below table.

Designation	Jib profile section	Weight	Part no.
Cable sliders for flat cable max. 4 x 2.5	ST I	0.03 kg	980 759 44
	ST II	0.04 kg	851 690 44
Narrow cable trolley for flat cable max. 4 x 2.5	IPE 160–330, HEA 160	0.57 kg	668 930 44
	IPE 360–600	0.9 kg	668 931 44
Wide cable trolley	IPE 160–330, HEA 160	0.8 kg	668 932 44
	IPE 360–600	1.13 kg	668 933 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

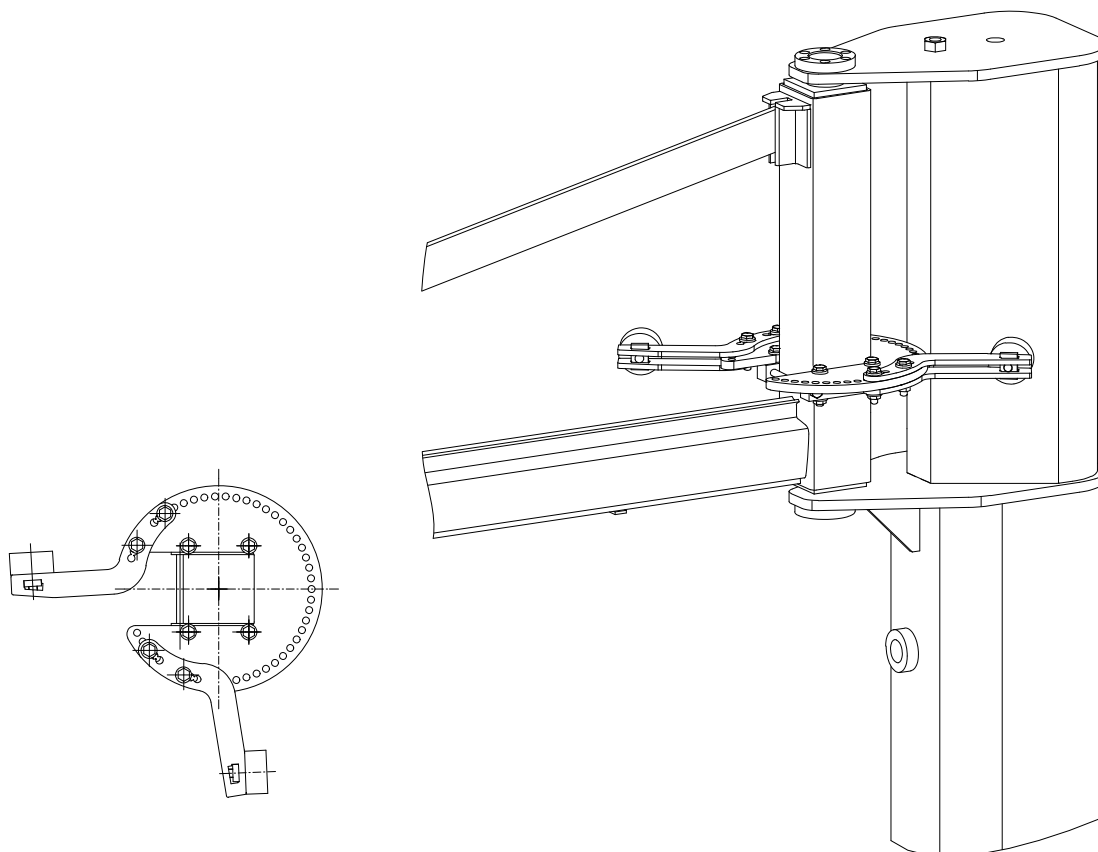
The cable and connecting elements from power supply to main switch are not included in the scope of supply.

8 OPTIONS

8.1 Slewing limit

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

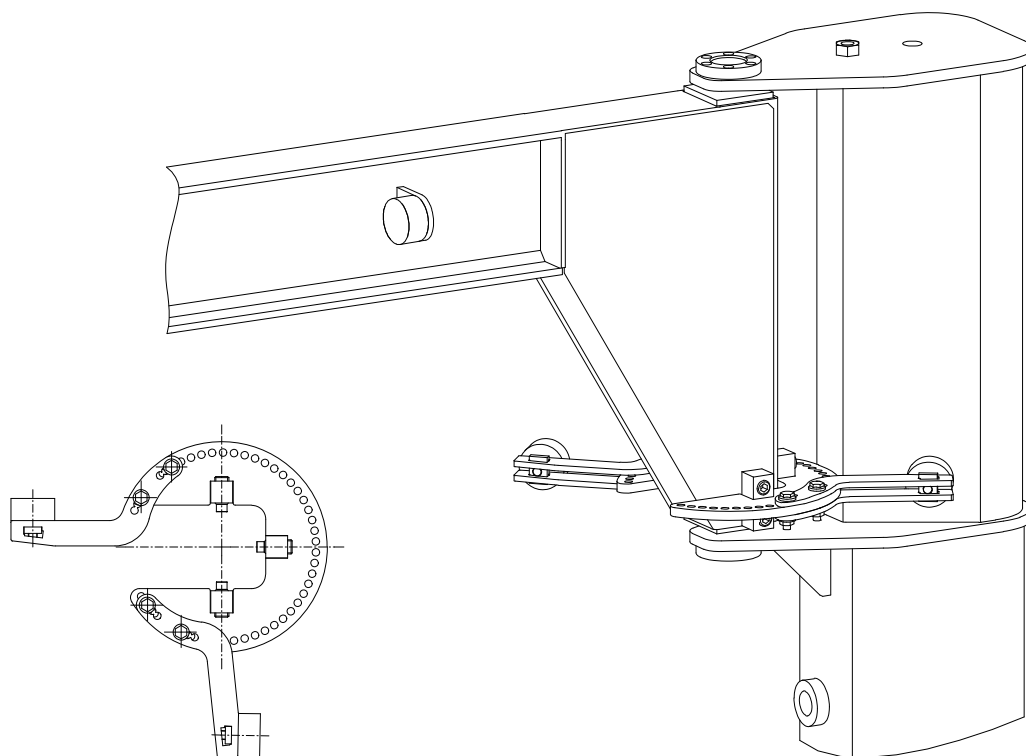
8.1.1 Pillar-mounted slewing jib cranes, fitted with brace



Item	Designation		Distance between support bearings [mm]		
			500	750	1000
	Slewing limit	Weight [kg]	4.5	4.7	6.7
		Part no.	668 060 44	669 060 44	670 060 44

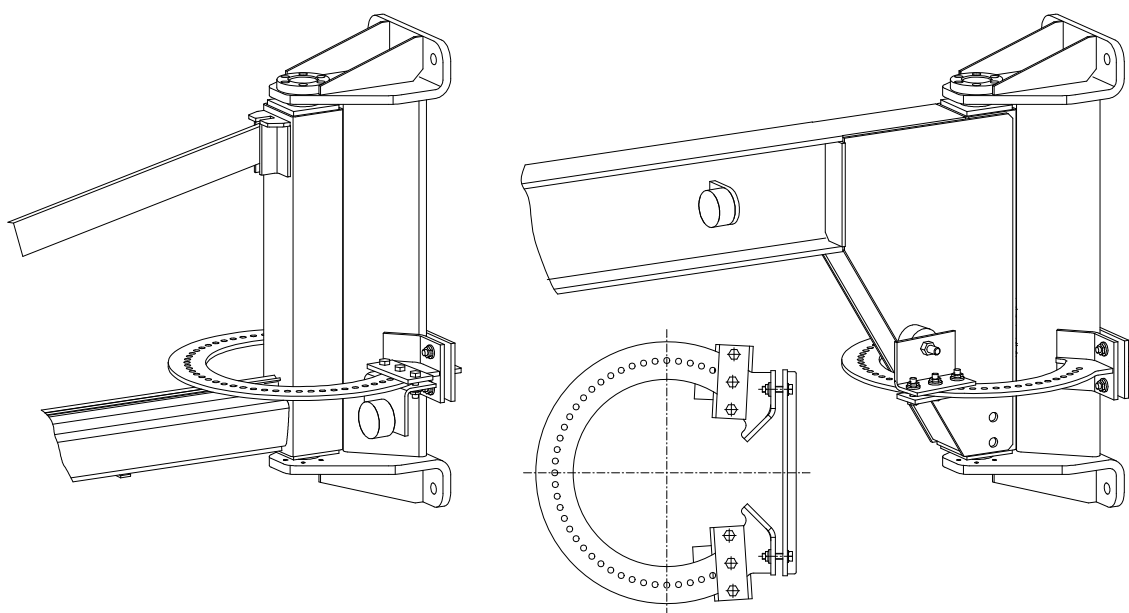
This type is suitable for jibs that consist of a hollow profile section as well as for I-beam sections.

8.1.2 Low-headroom pillar-mounted slewing jib cranes



Item	Designation		Distance between support bearings [mm]		
			500	750	1000
	Slewing limit	Weight [kg]	4.4	4.2	6
		Part no.	668 070 44	669 070 44	670 070 44

8.1.3 Low-headroom wall-mounted jib cranes, fitted with brace



Item	Designation		Distance between support bearings [mm]		
			500	750	1000
	Slewing limit	Weight [kg]	5.4	6	6.4
		Part no.	668 080 44	669 080 44	670 080 44

