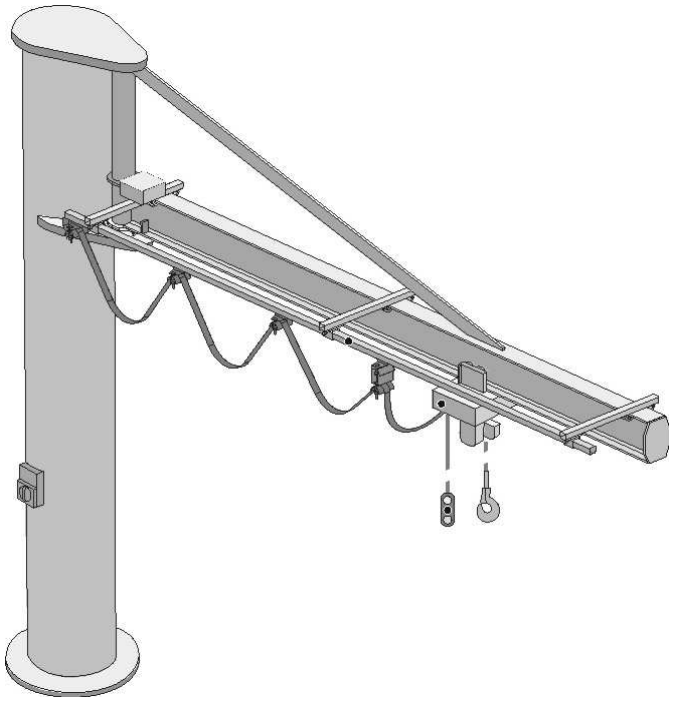
EUROSTYLE



TECHNICAL GUIDE

JIB CRANE
FROM 125 TO 2000 KG

English

SI 50Hz

VERLINDE
LIFTING EQUIPMENT

11/2011

Table of Content

1 UPDATE HISTORY

Section	Changes	Date	Handled by
p15,18,19	1000KG, L4000,HSF4000, IPE360 changed to IPE300 and D530 changed to D630	6.11.2009	ETTPIA
	Tables updated, HL dimension and KIT	21.1.2010	ETTNMA
	Drawings updated, UKA PE dimensions changed	11.3.2010	ETTNMA
	Section 10 added; p21, p24, p13,p1 6 drawings updated (HC dim. added); p12 1000 kg weight updated	25.3.2010	ETTNMA
Section 3	added	26.3.2010	ETTNMA
p.6, 9, 11, 13, 14, 17, 19, 21, 22, 25, 27, 29	Travelling speed added, base plate 1600x1600 removed (not in use)	30.8.2010	ETTNMA

2 IMPORTANT

Frame classification according to EN13001-1. Base calculations during development phase have been made acc. to Q5 & U2 (full load spectrum and 63.000 cycles). These Jib cranes can also be used for Q4 & U3, Q3 & U4 and Q2 & U5. Linear movements D_{lin3} (R>4 m) and D_{lin2} (R<4 m), angular movements D_{ang4} and average number of accelerations class P3 are valid. See tables below explaining this. See also Appendix A for these examples of Classification of crane and hoist mechanism.

Frame classification also acc. to FEM 1.001: A4 (Q4 & U2, Q3 & U3, Q2 & U4)

For comparison reasons between EN13001-1 and FEM 1.001, also classifications acc. to FEM have been shown in examples in Appendix A.

☞ **Note! The customer is responsible for selecting the correct classification. To help this, see Appendix A for examples of Classification of crane and hoist mechanism.**

Table: Frequency of loads and total number of working cycles

Combination	Frequency of loads Q	Load spectrum factor kQ	Class U	Total number of working cycles C
Q2/U5	Q2	0.0625 < kQ □ 0.125	U5	2.5E5 < C □ 5.0E5
Q3/U4	Q3	0.1250 < kQ □ 0.2500	U4	1.25E5 < C □ 2.5E5
Q4/U3	Q4	0.2500 < kQ □ 0.500	U3	6.30E4 < C □ 1.25E5
Q5/U2	Q5	0.500 < kQ □ 1.000	U2	3.15E4 < C □ 6.30E4

Table: Linear displacement

Class	Average displacement Xlin [m]	Jib arm length [m]
D_{lin2}	1.25 < Xlin □ 2.5	R < 4
D_{lin3}	2.5 < Xlin □ 5	R > 4

Average displacement is supposed be from middle of jib arm to end of jib arm or vice versa.

Table: Angular displacement

Class	Average displacement Xang [rad]
D_{ang4}	Pi/2 < Xang □ Pi

Table: Number of accelerations for positioning of loads

Class	Average number of accelerations p
P3	p > 8

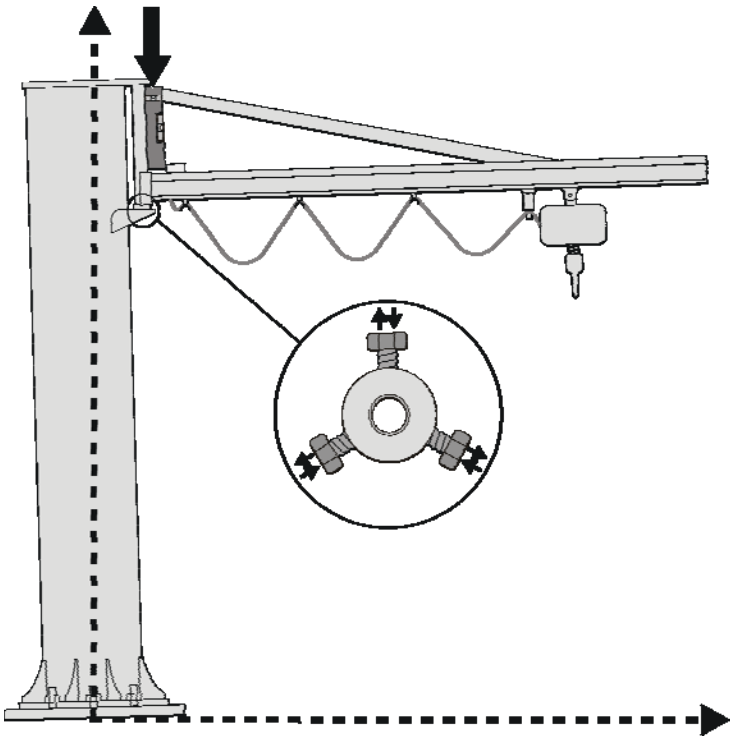
☞ **Note! These cranes can be used only with chain hoist.**

3 ADJUSTABLE CONSOLE BEARING

Konecranes introduces an adjustable console bearing for jib crane range as standard product feature. This makes horizontal beam adjustment easier, improving significantly usability of the crane comparing with existing jib crane products in the markets.

Increased safety: uncontrolled trolley and jib beam movements are minimized with simple and easy adjustment.

Short downtime: installation and possible relocation of jib crane can be done in shorter time, without compromising with function of the crane.



4 OVER BRACED WALL MOUNTED JIB CRANE 180°, UKA PROFILE

4.1 180° Manual slewing

Mode of slewing:

Slewing is carried out on a smooth bearing with a self lubricating ring.

Fixing:

Brackets are secured by HR, M24 bolts, class 10.9 (not delivered with standard package).

Tightening of the bolts must be achieved by using torque wrench.

Tightening torque: 903 Nm

Supplied with:

Hoist trolley

Flat cable feeding line with rolling cable trolleys

Surface treatment for protection class: C3, RAL1028, min thickness 80 microns.

Option:

Main switch with 3 meters rising cable

Important:

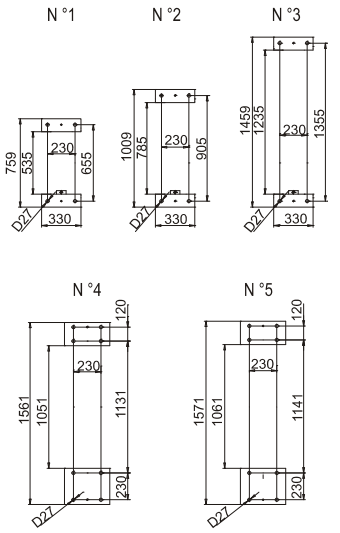
Frame classification according to EN13001-1. See Appendix A Classification of crane and hoist mechanism.

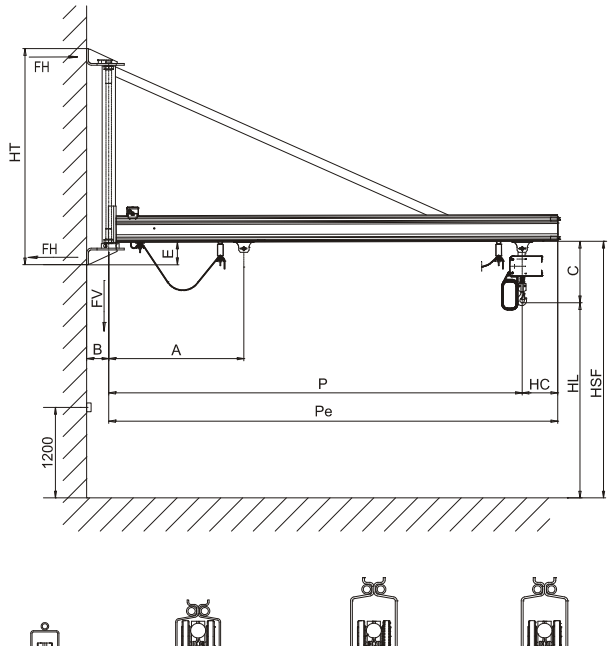
Max authorized hoisting speed 16 m/min.

Max traveling speed 10m/min.

Capability of the support used for mounting our cranes is on the owner's responsibility.

Console details





This is a general sketch.

Other dimensions on request.

Scope of supply according to our confirmation of order.

4.2 Specification and main dimensions

Main dimensions, wall mounted jib crane 180°, UKA profile

Rated Capacity (max. hoist weight)	Span	P	Pe	Support Brackets N°	C	E	HC	B	A	HT	Profile Type	Reactions		Weight
												FH max	FV max	
kg kg	mmmm	mmmm	mmmm		mm	mmmm	mmmm	mmmm	mmmm	mm		kN	kN	kg kg
	2000	1959	2040									7,9	2,4	60
	2500	2459	2540	1	341	159	78	150	482	759	UKA20	10,1	2,4	67
	3000	2959	3040									12,2	2,5	72
	3500	3459	3540						582			14,7	2,6	82
	4000	3959	4040									17,0	2,6	87
125	4500	4465	4546									19,9	2,8	102
	5000	4933	5047		347	154	110		714		UKA30	24,7	3,2	151
(55)	5500	5433	5547									27,6	3,3	161
	6000	5933	6047									31,2	3,5	175
	6500	6433	6547						814			34,3	3,6	184
	7000	6940	7054	2						1009		27,5	4,3	255
	7500	7440	7554									29,7	4,4	264
	8000	7940	8054						914			32,5	4,5	279
	2000	1959	2040									12,9	3,6	60
	2500	2459	2540	1	365	159	78	150	482	759	UKA20	16,3	3,6	65
	3000	2965	3046									20,2	3,8	79
	3500	3465	3546						582			23,9	3,8	87
	4000	3933	4047						614			29,1	4,3	130
250	4500	4433	4547		371	154	110				UKA30	33,3	4,4	142
	5000	4933	5047						714			37,5	4,5	151
(55)	5500	5440	5554									44,1	4,9	191
	6000	5940	6054							1009		32,0	5,2	221
	6500	6440	6554	2					814			35,4	5,3	235
	7000	6940	7054									39,4	5,5	255
	7500	7440	7554		366						UKA40	46,8	6,3	340
	8000	7940	8054						914			50,5	6,5	355
	2000	1933	2047									23,3	6,3	84
	2500	2433	2547	1	440	154	110	150	514	759	UKA30	29,6	6,4	93
	3000	2940	3054									36,8	6,6	114
	3500	3440	3554						614			43,8	6,8	136
	4000	3940	4054									51,3	7,0	154
500	4500	4440	4554							1009		38,1	7,2	182
	5000	4940	5054	2					714			42,9	7,4	197
(55)	5500	5440	5554								UKA40	49,9	8,0	264
	6000	5940	6054		435							54,8	8,2	278
	6500	6440	6554						814	1459		37,1	8,6	321
	7000	6940	7054									40,8	8,8	346
	7500	7440	7554	3								44,4	9,0	365
	8000	7940	8054						914			47,7	9,2	380

Weight is calculated without hoist and power supply.

☞ **Note: Reactions FH max and FV max are given under nominal static load.**

Rated Capacity (max. hoist weight)	Span	P	Pe	Support Brackets N°	C	E	HC	B	A	HT	Profile Type	Reactions		Weight
												FH max	FV max	
kg kg	mmm m	mmm m	mmm m		mm	mm mm	mmm m	mmm m	mm mm	mm		kN	kN	kg kg
	2000	1940	2054									30,0	11,8	101
	2500	2440	2554	2	492	154	110	150	514	1009	UKA30	38,1	12,0	125
	3000	2940	3054									46,2	12,2	139
1000	3500	3440	3554									33,5	12,5	174
	4000	3940	4054						614			38,6	12,6	188
(100)	4500	4440	4554	3						1459		44,6	13,2	247
	5000	4940	5054		487						UKA40	49,8	13,4	262
	5500	5440	5554						714			55,6	13,6	287
	6000	5940	6054									61,2	13,8	306
	2000	1815	2054	2						1009		44,8	18,5	130
	2500	2315	2554						639			57,4	18,7	144
1600	3000	2815	3054							1459		43,2	19,1	189
	3500	3315	3554	3								51,0	19,3	203
(160)	4000	3815	4054		606	154	235	150	739		UKA40	59,2	19,5	228
	4500	4326	4565	4						1561		68,0	20,3	309
	5000	4826	5065			260			839			76,3	20,5	328
	2000	1815	2054	2						1009		54,8	22,5	130
	2500	2315	2554						639			43,1	22,8	169
2000	3000	2815	3054	3						1459		52,5	23,0	184
	3500	3315	3554									62,3	23,2	208
(160)	4000	3826	4065	4	606	154	235	150	739	1561	UKA40	72,8	24,0	289
	4500	4326	4565			260						82,6	24,2	307

Weight is calculated without hoist and power supply.

☞ **Note: Reactions FH max and FV max are given under nominal static load.**

☞ **Note: Motorized trolley is recommended for 1600 kg and 2000 kg loads.**

5 OVER BRACED COLUMN MOUNTED JIB CRANE 270°, UKA PROFILE

5.1 270° Manual slewing

Crane must be secured to reinforced concrete foundation, dimensions indicated in the table. The crane is connected to foundation by anchor bolts, diam. 27; min. strength 355N/mm^2 length:785 mm.

The number of rods (n) is specified in the table next page.

Nuts to be tightened using a torque wrench with a torque of 314 Nm.

Supplied with:

Hoist trolley

Flat cable feeding line with rolling cable trolleys

Surface treatment for protection class: C3, RAL1028, min thickness 80 microns.

Option:

Lockable main switch

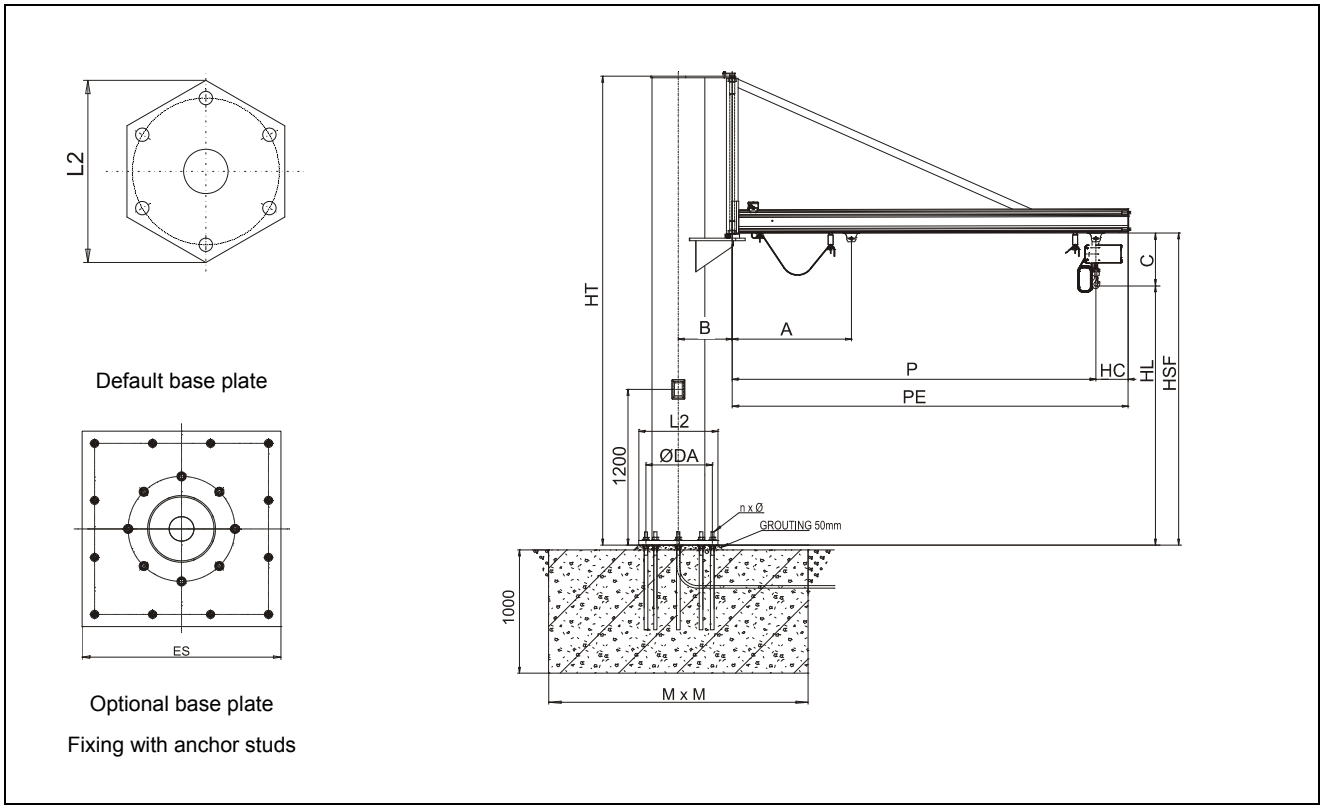
Important:

Frame classification according to EN13001-1. See Appendix A.

Max authorized hoisting speed 16 m/min.

Max traveling speed 10 m/min.

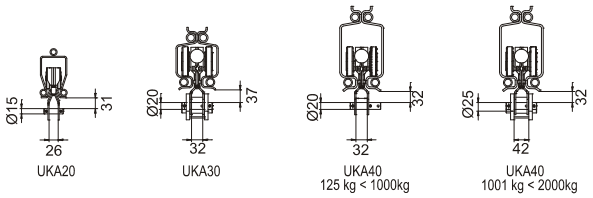
Concrete class C25/30



This is a general sketch.

Other dimensions on request.

Scope of supply according to our confirmation of order.



5.2 Specification and main dimensions

For a jib clearance (HSF) of 2500 mm. Values given in this table are available up to 4000 mm HSF jib clearance.

☞ **Note: Please contact us for all other jib clearances.**

5.2.1 Main dimensions, over braced column mounted jib crane 270° , UKA profile, HSF ≤ 4000

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	HC	C	HL	B	A	Profile Type	Holes Foot flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmm m	mmm m	mmm m	mm	mm	mm mm	mm	mm	mm mm	mm mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm	Nm
	2000	1959	2040												850		165		4229
	2500	2459	2540		3000	78	341	2159	220	433	UKA20	6x30	330	410	950	800x800	173	3,2	5300
	3000	2959	3040												1000		178		6333
	3500	3459	3540												1050		187		7556
	4000	3959	4040							533					1150		192		8639
125	4500	4465	4546	2500											1200		206		9970
	5000	4933	5047		3005	110	347	2153			UKA30				1300		256		12310
(55)	5500	5433	5547							665					1350		296	4,2	13716
	6000	5933	6047												1400		310		15447
	6500	6433	6547						335			8x30	430	510	1450		380		17335
	7000	6940	7054		3255					795					1500		462	4,7	21000
	7500	7440	7554												1550		472		22606
	8000	7940	8054							895					1650		486		24688
	2000	1959	2040						220						950		165		6901
	2500	2459	2540		3000	78	365	2135		433	UKA20	6x30	330	410	1050	800x800	170	3,2	8523
	3000	2965	3046												1100		184		10330
	3500	3465	3546							533					1200		192		12091
	4000	3933	4047							565					1300		235		14614
250	4500	4433	4547	2500	3005	110	371	2129			UKA30				1350		277	4,2	16657
	5000	4933	5047												1400		347		19119
(55)	5500	5440	5554							695					1450		386		22100
	6000	5940	6054						335			8x30	430	510	1500		428	4,7	24515
	6500	6440	6554		3255										1600		443		26980
	7000	6940	7054							795					1650		462		29921
	7500	7440	7554				366	2134			UKA40				1700		547		35550
	8000	7940	8054							895					1750		562		38205
	2000	1933	2047												1150		188	3,2	12335
	2500	2433	2547	2500	3005	110	440	2060	220	465	UKA30	6x30	330	410	1300	800x800	198		15298
	3000	2940	3054												1350		249	4,2	18497
500	3500	3440	3554	2500 (Range 2500-3500)						565					1450		300	5,2	21816
(55)	3500	3440	3554	3501 (Range 3501-4000)	4006			3061	335	595		8x30	430	510	1450		378	4,7	22569
	4000	3940	4054		3005										1550		349		26100
	4500	4440	4554					2060							1600		390		29542
	5000	4940	5054	2500	3255					695					1700		404		33033

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	HC	C	HL	B	A	Profile Type	Holes Foot flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmm m	mmm m	mmm m	mm	mm	mm mm	mm	mm	mm mm	mm mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm	Nm
	5500	5440	5554												1750		471		38265
	6000	5940	6054				435	2065		730					1850		561		42498
	6500	6440	6554						415		UKA40		530	610	1900	1000x1000	630	5,9	46589
	7000	6940	7054		3705					830					2000		655		51118
	7500	7440	7554												2050		675		55373
	8000	7940	8054							930					2100		689		59265

Weight is calculated without hoist and power supply.

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	HC	C	HL	B	A	Profile Type	Holes Foot Flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmm m	mmm m	mmm m	mm	mm	mm mm	mm	mm	mm mm	mm mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm kg	Nm
	2000	1940	2054												1400		308		25268
	2500	2440	2554		3255	110	492	2008	335	495	UKA30	8x30	430	510	1550	800x800	332	4,7	31180
	3000	2940	3054												1650		346		37038
1000	3500	3440	3554							595					1750		402		43033
	4000	3940	4054	2500	3705										1850		473	6,2	49044
(100)	4500	4440	4554							630					1950		556		57306
	5000	4940	5054				487	2013	415		UKA40		530	610	2000	1000x1000	571	5,9	63447
	5500	5440	5554							730					2150		596		70259
	6000	5940	6054												2200		687	7,9	76886
	2000	1815	2054		3255										1600		412		39615
	2500	2315	2554			235	606	1894	415	665	UKA40	8x30	530	610	1750	1000x1000	427	5,9	48621
1600	3000	2815	3054	2500	3705										1900		498		58746
	3500	3315	3554							775					2000		512		67220
(160)	4000	3815	4054												2100		537		76862
	4500	4326	4565												2200		580		86662
	5000	4826	5065							855					2300		672	7,9	96309
	2000	1815	2054		3255										1700		412		48366
	2500	2315	2554							665	UKA40	8x30	530	610	1850		478	5,9	59541
2000	3000	2815	3054	2500	3705	235	606	1894	415						2000		493		70580
	3500	3315	3554												2150		517		82053
(160)	4000	3826	4065							755					2250		632	7,9	93756
	4500	4326	4565												2350		721	9,8	105159

Weight is calculated without hoist and power supply.

*) Add weight when HSF increased.

☞ **Note: Maximum moment is given under nominal static load.**

☞ **Note: Motorized trolley is recommended for 1600 kg and 2000 kg loads.**

5.2.2 Main dimensions, over braced column mounted jib crane 270° , UKA profile, HSF 4001…6000

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	HC	C	HL	B	A	Profile Type	Holes Foot flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmmm	mmm m	mmm m	mm	mm	mm mm	mm	mm	mm mm	mm mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm	Nm
	2000	1959	2040												850		213		4229
	2500	2459	2540		4501	78	341	3660	220	433	UKA20	6x30	330	410	950		220		5300
	3000	2959	3040												1000	800x800	225	3,2	6333
	3500	3459	3540							533					1050		235		7556
	4000	3959	4040												1150		240		8639
125	4500	4465	4547												1200		254		10256
	5000	4933	5047	4001	4506	110	347	3654		665	UKA30				1300		349	4,2	12659
(55)	5500	5433	5547												1350		403	5,2	14076
	6000	5933	6047												1400		417		15824
	6500	6433	6547												1450		450		17335
	7000	6940	7054						335	795		8x30	430	510	1500		533	4,7	21020
	7500	7440	7554		4756										1550		542		22626
	8000	7940	8054							895					1650		557		24708
	2000	1959	2040												950		213		6901
	2500	2459	2540		4501	78	365	3636	220	433	UKA20	6x30	330	410	1050		218	3,2	8523
	3000	2965	3046												1100		232		10330
	3500	3465	3546							533					1200	800x800	239		12091
	4000	3933	4047							565					1300		328	4,2	14614
	4500	4433	4547		4506	110	371	3630			UKA30				1350		384	5,2	16657
	5000	4933	5047	4001											1400		418		19119
250	5500	5440	5554							695		8x30	430	510	1450		457	4,7	22100
	6000	5940	6054												1500		499		24515
(55)	6500	6440	6554		4756										1600		513		26980
	7000	6940	7054							795					1650		533		29921
	7500	7440	7554	4001 Range (4001-4500)			366	3635	335		UKA40				1700		618		35550
	7500	7440	7554	4501 Range (4501-6000)	5256			4135							1700		722	6,2	35550
	8000	7940	8054	4001	4756			3635		895					1750		705		38205
	2000	1933	2047												1150		236	3,2	12335
	2500	2433	2547		4506		440	3561	220	465		6x30	330	410	1300	800x800	245		15298
	3000	2940	3054								UKA30				1350		312	4,2	18497
	3500	3440	3554												1450		402		22569
	4000	3940	4054						335	595			430	510	1550		420	4,7	22569
	4500	4440	4554	4001		110									1600		460		26100
	5000	4940	5054		4756					695					1700		475		29542
500	5500	5440	5554												1750		614	6,2	33033
	6000	5940	6054				435	3566		730					1850		650		38265
(55)	6500	6440	6554						415		UKA40	8x30	530	610	1900	1000x1000	719	5,9	42498
	7000	6940	7054		5206					830					2000		744		46589
	7500	7440	7554												2050		764		51118
	8000	7940	8054	4001 Range (4001-5000)						930					2100		778		55373
	8000	7940	8054	5001 Range (5001-6000)	6206			4566							2100		958	7,9	59265

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	HC	C	HL	B	A	Profile Type	Holes Foot Flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmmm	mmmm	mmmm	mm	mm	mm mm	mm	mm	mm mm	mm mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm kg	Nm
1000 (100)	2000	1940	2054	4001	4756	110	492	3509	335	495	UKA30	8x30	430	510	1400	800x800	379	4,7	25268
	2500	2440	2554												1550		403		31180
	3000	2940	3054												1650		417		37038
	3500	3440	3554		5206					595					1750		552	6,2	43033
	4000	3940	4054						415	630			530	610	1850	1000x1000	587	5,9	50026
	4500	4440	4554				487	3514			UKA40				1950		646		57306
	5000	4940	5054							730					2000		660		63447
	5500	5440	5554	4001 Range (4001-4500)											2150		685		70259
	5500	5440	5554	4501 Range (4501-6000)	5706			4014							2150		825	7,9	70259
	6000	5940	6054	4001	5206			3514							2200		805		76886
1600 (160)	2000	1815	2054	4001	4756	235	606	3395	415	655	UKA40	8x30	530	610	1600	1000x1000	501	5,9	39615
	2500	2315	2554												1750		516		48621
	3000	2815	3054		5206										1900		587		58746
	3500	3315	3554							755					2000		602		67220
	4000	3815	4054												2100		626		76862
	4500	4326	4565												2200		770	7,9	86662
	5000	4826	5065							855					2300		890	9,8	96309
2000 (160)	2000	1815	2054	4001	4756	235	606	3395	415	655	UKA40	8x30	530	610	1700		503	5,9	48366
	2500	2315	2554												1850		569		59541
	3000	2815	3054		5206										2000		584		70580
	3500	3315	3554							755					2150		608		82053
	4000	3826	4065												2250		751	7,9	93756
	4500	4326	4565												2350		868	9,8	105159

Weight is calculated without hoist and power supply.

*) Add weight when HSF increased.

☞ **Note: Maximum moment is given under nominal static load.**

☞ **Note: Motorized trolley is recommended for 1600 kg and 2000 kg loads.**

6 UNDER BRACED WALL MOUNTED JIB CRANE 180°, IPE PROFILE

6.1 180° Manual slewing

Mode of slewing:

Slewing is carried out on a smooth bearing with a self lubricating ring.

Fixing:

Brackets are secured by HR, M24 bolts, class 10.9 (not delivered with standard package)

Tightening of the bolts must be achieved by using a torque wrench.

Tightening torque: 903 Nm

Supplied with:

Power supply line

Surface treatment for protection class: C3, RAL1028, min thickness 80 microns.

Option:

Main switch with 3 meters rising cable

Important:

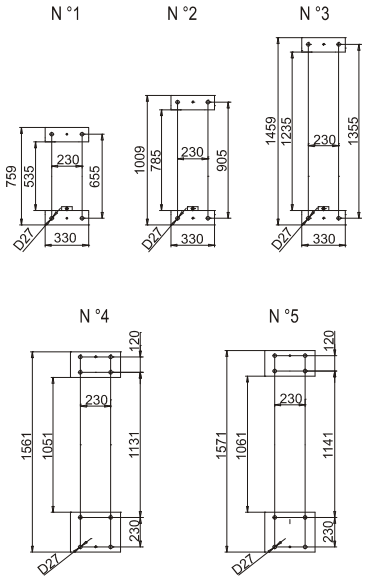
Frame classification according to EN13001-1. See Appendix A Classification of crane and hoist mechanism.

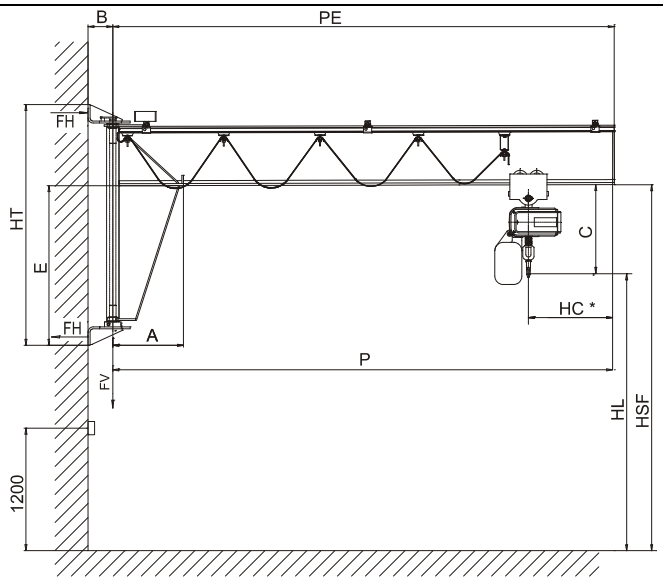
Max authorized hoisting speed 16 m/min.

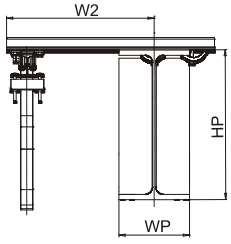
Max traveling speed 10 m/min.

Capability of the support used for mounting our cranes is on the owner's responsibility.

Console details







This is a general sketch.

Other dimensions on request.

Scope of supply according to our confirmation of order.

6.2 Specification and main dimensions

Rated Capacity (max. hoist weight)	Span	P	Pe	Support Brackets N°	C	E	B	A	HT	HP	WP	W2	Profile Type	Reactions		Weight
														FH max	FV max	
kg kg	mmmm	mmmm	mmm m		mm	mm mm	mm mm	mm mm	mm	mm	mm	mm		kN	kN	kg kg
	2000	2032	2037											7,8	2,4	69
	2500	2532	2537			487				140	73		IPE140	10,0	2,5	76
	3000	3032	3037	1	370		150	232	759			355		12,2	2,6	82
125	3500	3532	3537			467				160	82		IPE160	15,0	2,7	99
	4000	4032	4037											17,5	2,8	107
(55)	4500	4538	4543			447				180	91		IPE180	21,1	3,1	136
	5000	5038	5043			427		278		200	100		IPE200	25,1	3,4	164
	5500	5538	5543											28,3	3,5	175
	6000	6038	6043			407		298		220	110		IPE220	33,3	3,8	209
	2000	2032	2037			487		232		140	73		IPE140	12,7	3,7	69
	2500	2532	2537			467				160	82		IPE160	16,4	3,8	83
	3000	3038	3043	1	394		150	238	759			355		20,3	4,0	98
250	3500	3538	3543			447				180	91		IPE180	24,6	4,1	117
	4000	4038	4043			427		278		200	100		IPE200	29,2	4,4	141
(55)	4500	4538	4543											33,5	4,5	152
	5000	5045	5050			407		305		220	110		IPE220	39,7	4,9	195
	5500	5545	5550			387		315		240	120		IPE240	46,2	5,3	233
	6000	6045	6050						1009					51,5	5,5	260
	2000	2038	2043			447		278		180	91		IPE180	23,2	6,3	89
	2500	2538	2543			427	150			200	100		IPE200	29,7	6,5	108
	3000	3045	3050	1	455			285	759			355		36,9	6,7	131
500	3500	3545	3550			407		305		220	110		IPE220	44,2	7,0	156
	4000	4045	4050			387		315		240	120		IPE240	52,1	7,3	187
(55)	4500	4545	4550											59,5	7,4	203
	5000	5045	5050			607		355	1009	270	135		IPE270	44,7	8,0	265
	5500	5545	5550	2										50,0	8,2	283
	6000	6045	6050			577		385		300	150		IPE300	57,1	8,8	338

Weight is calculated without hoist and power supply.

* Dimension HC according to hoist.

Note: Reactions FH max and FV max are given under nominal static load.

Rated Capacity (max. hoist weight)	Span	P	Pe	Support Brackets N°	C	E	B	A	HT	HP	WP	W2	Profile Type	Reactions		Weight
														FH max	FV max	
kg kg	mmmm	mmm m	mmm m		mm	mmm m	mm mm	mm mm	mm	mm	mm	mm		kN	kN	kg kg
	2000	2045	2050	1		407		305	759	220	110		IPE220	45,8	11,9	116
	2500	2545	2550			387		315		240	120		IPE240	58,5	12,2	141
	3000	3045	3050	2	507	607	150	355	1009	270	135	355	IPE270	46,6	12,7	192
1000	3500	3545	3550											55,1	12,9	210
	4000	4045	4050			1027		385	1459	300	150		IPE300	39,6	13,6	288
(100)	4500	4545	4550	3										45,1	13,8	309
	5000	5045	5050			997		415		330	160		IPE330	51,5	14,4	366
	5500	5545	5550			967		435		360	170		IPE360	58,5	15,1	436
	6000	6045	6050											65,3	15,3	464
	2000	2045	2050	2		607		355	1009	270	135		IPE270	46,9	18,8	156
	2500	2545	2550			577		385		300	150		IPE300	59,9	19,1	190
	3000	3045	3050		667	1027	150		1459			355		44,8	19,4	218
1600	3500	3545	3550	3		997		415		330	160		IPE330	53,2	19,9	272
	4000	4056	4061			1073		446		360	170		IPE360	62,8	21,4	424
(160)	4500	4556	4561	4					1561					71,4	21,7	455
	5000	5056	5061			1033		516		400	180		IPE400	81,3	22,5	531
	5500	5563	5568	5		1043		523	1571					91,0	23,1	595
	6000	6063	6068			993		553		450	190		IPE450	102,2	24,1	698
	2000	2045	2050			1057		355		270	135		IPE270	35,2	23,1	190
	2500	2545	2550	3		1027		385	1459	300	150	355	IPE300	44,9	23,4	225
	3000	3045	3050		667	997	150	415		330	160		IPE330	54,8	23,8	268
2000	3500	3556	3561			1073		446		360	170		IPE360	65,9	25,1	398
	4000	4056	4061	4		1033		516	1561	400	180		IPE400	76,8	25,7	465
(160)	4500	4556	4561											87,4	26,1	498
	5000	5063	5068			993		553		450	190		IPE450	99,9	27,3	621
	5500	5563	5568	5					1571					111,1	27,7	659
	6000	6063	6068			943		603		500	200		IPE500	124,7	28,8	778

Weight is calculated without hoist and power supply.

* Dimension HC according to hoist.

Note: Reactions FH max and FV max are given under nominal static load.

Note: Motorized trolley is recommended for 1600 kg and 2000 kg loads.

7 UNDER BRACED COLUMN MOUNTED JIB CRANE 270°, IPE PROFILE

7.1 270° Manual slewing

Crane must be secured to reinforced concrete foundation, dimensions indicated in the table. The crane is connected to foundation by anchor bolts, diam. 27; min. strength 355N/mm^2 length:785 mm.

The number of rods (n) is specified in the table next page.

Nuts to be tightened using a torque wrench with a torque of 314 Nm

Supplied with:

Power supply line

Surface treatment for protection class: C3, RAL1028, min thickness 80 microns.

Option:

Lockable main switch

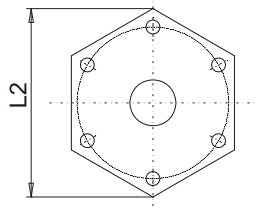
Important:

Frame classification according to EN13001-1. See Appendix A.

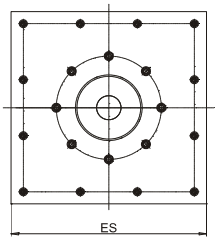
Max authorized hoisting speed 16 m/min.

Max traveling speed 10 m/min.

Concrete class C25/30

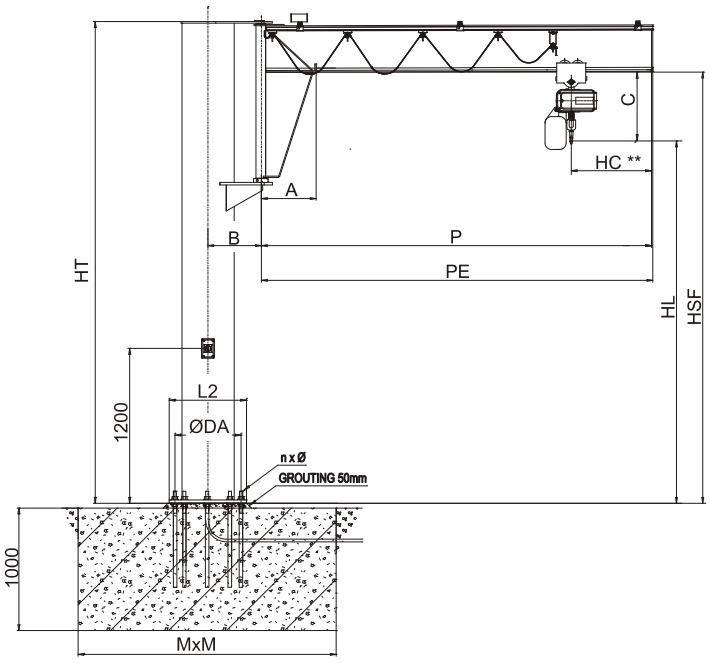


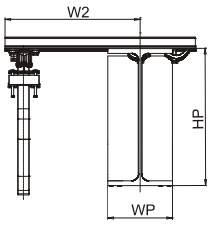
Default base plate



Optional base plate

Fixing with anchor studs





This is a general sketch.

Other dimensions on request.

Scope of supply according to our confirmation of order.

7.2 Specification and main dimensions

For a jib clearance (HSF) of 3000 mm. Values given in this table are available up to 4000 mm HSF jib clearance.

☞ **Note: Please contact us for all other jib clearances.**

7.2.1 Main dimensions, under braced column mounted jib crane 270°, IPE profile, HSF ≤ 4000

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	C	HL	B	A	HP	WP	Profile Type	Holes Foot flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmm m	mmm m	mmm m	mm	mm	mm	mm	mm mm	mm mm	mm	mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm kg	Nm
	2000	2032	2037													850		164		4191
	2500	2532	2537	2500	2672	370	2130	220	232	140	73	IPE140	6x30	330	410	950	800x800	170	3,2	5251
	3000	3032	3037													1000		177		6347
125	3500	3532	3537		2692					160	82	IPE160				1050		194		7702
	4000	4032	4037													1150		202		8945
(55)	4500	4538	4543		2712					180	91	IPE180				1200		231		10600
	5000	5038	5043		2732				278	200	100	IPE200				1300		260		12541
	5500	5538	5543													1350		299	4,2	14095
	6000	6038	6043		2752				298	220	110	IPE220				1400		361	5,2	16524
	2000	2032	2037		2672				232	140	73	IPE140	6x30	330	410	950		164		6826
	2500	2532	2537		2692	394	2106	220		160	82	IPE160				1050		179	3,2	8621
	3000	3038	3043						238							1100		193		10409
250	3500	3538	3543	2500	2712					180	91	IPE180				1200	800x800	213		12441
	4000	4038	4043		2732				278	200	100	IPE200				1300		265	4,2	14708
(55)	4500	4538	4543													1350		335		17248
	5000	5045	5050		2752			335	305	220	110	IPE220	8x30	430	510	1400		379	4,7	20029
	5500	5545	5550		2772				315	240	120	IPE240				1450		418		23177
	6000	6045	6050													1500		445		25697
	2000	2038	2043		2712				278	180	91	IPE180				1150		184	3,2	12273
	2500	2538	2543		2732	455	2045	220		200	100	IPE200	6x30	330	410	1300	800x800	204		15406
	3000	3045	3050						285							1350		255	4,2	18561
500	3500	3545	3550	2500	2752				305	220	110	IPE220				1450		339	4,7	22784
	4000	4045	4050		2772			335	315	240	120	IPE240	8x30	430	510	1550		372		26569
(55)	4500	4545	4550													1600		387		30065
	5000	5045	5050		2802				355	270	135	IPE270				1700		451		34544
	5500	5545	5550													1750		512	6,2	38372
	6000	6045	6050		2832			415	385	300	150	IPE300		530	610	1850	1000x1000	596	5,9	44342

Weight is calculated without hoist and power supply.

*) Add weight when HSF increased.

** Dimension HC according to hoist.

☞ **Note: Maximum moment is given under nominal load.**

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	C	HL	B	A	HP	WP	Profile Type	Holes Foot flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmm m	mmm m	mmm m	mm	mm	mm	mm	mm mm	mm mm	mm	mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm kg	Nm
	2000	2045	2050		2752				305	220	110	IPE220				1400		300		25196
	2500	2545	2550	2500	2772	507	1993	335	315	240	120	IPE240	8x30	430	510	1550	800x800	326	4,7	31172
	3000	3045	3050		2802				355	270	135	IPE270				1650		378		37474
1000	3500	3545	3550													1750		397		43583
	4000	4045	4050		2832				385	300	150	IPE300				1850		546		51577
(100)	4500	4545	4550					415						530	610	1950	1000x1000	567	5,9	58066
	5000	5045	5050		2862				415	330	160	IPE330				2000		623		65762
	5500	5545	5550		2892				435	360	170	IPE360				2150		697		74225
	6000	6045	6050													2200		781	7,9	81707
	2000	2045	2050		2802				355	270	135	IPE270				1600		412		41188
	2500	2545	2550	2500	2832	667	1833	415	385	300	150	IPE300	8x30	530	610	1750	1000x1000	448	5,9	50641
	3000	3045	3050													1900		476		60114
	3500	3545	3550		2862				415	330	160	IPE330				2000		532		70183
	4000	4056	4061						446							2100		646		81119
1600	4500	4556	4561	2500 Range (2500-3000)	2892					360	170	IPE360				2200		678		91213
(160)	4500	4556	4561	3001 Range (3001-6000)	3393		2334				180					2200		784		91213
	5000	5056	5061		2932		1833		516	400		IPE400				2300		878	7,9	102954
	5500	5563	5568	2500	2936			500	523				12x30	630	710	2400		1064	12,3	118021
	6000	6063	6068		2986				553	450	190	IPE450				2500		1173		129306
	2000	2045	2050		2802				355	270	135	IPE270				1700		446		50347
	2500	2545	2550	2500	2832	667	1833	415	385	300	150	IPE300	8x30	530	610	1850		483	5,9	61764
	3000	3056	3061		2862				415	330	160	IPE330				2000		527		73542
	3500	3556	3561		2892				446	360	170	IPE360				2150		621		86164
	4000	4056	4061	2500 Range (2500-3000)	2932				516	400	180	IPE400				2250		691		99062
	4000	4056	4061	3001 Range (3001-6000)	3933		2834									2250		859	7,9	99062
2000	4500	4556	4561	2500 Range (2500-3000)	2932		1833									2350		903		111516
(160)	4500	4563	4568	3001 Range (3001-6000)	3933		2834									2350		1096	9,8	111516
	5000	5063	5068	2500 Range (2500-3000)	2982		1833		553	450	190	IPE450				2500		907	7,9	125915
	5000	5063	5068	3001 Range (3001-6000)	3983		2834									2500		1062	9,8	125915
	5500	5563	5568	2500	2986		1833	500					12x30	630	710	2550		1134	12,3	141213
	6000	6000	6005		3036				603	500	200	IPE500				2650		1260		157511

Weight is calculated without hoist and power supply.

*) Add weight when HSF increased.

** Dimension HC according to hoist.

☞ **Note: Maximum moment is given under nominal static load.**

☞ **Note: Motorized trolley is recommended for 1600 kg and 2000 kg loads.**

7.2.2 Main dimensions, under braced column mounted jib crane 270°, IPE profile, HSF 4001…6000

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	C	HL	B	A	HP	WP	Profile Type	Holes Foot flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmm m	mmm m	mmm m	mm	mm	mm	mm	mm mm	mm mm	mm	mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm	Nm
	2000	2032	2037													850		211		4191
	2500	2532	2537	4001	4173	370	3631	220	232	140	73	IPE140	6x30	330	410	950	800x800	218	3,2	5251
	3000	3032	3037													1000		224		6347
125	3500	3532	3537		4193					160	82	IPE160				1050		242		7702
	4000	4032	4037													1150		250		8945
(55)	4500	4538	4543		4213					180	91	IPE180				1200		279		10600
	5000	5038	5043		4233				278	200	100	IPE200				1300		307		12541
	5500	5538	5543													1350		403	5,2	14095
	6000	6038	6043		4253				298	220	110	IPE220				1400		439		16524
	2000	2032	2037		4173				232	140	73	IPE140				950		211		6826
	2500	2532	2537	4001	4193	394	3607	220		160	82	IPE160	6x30	330	410	1050		226	3,2	8621
	3000	3038	3043						238							1100		240		10409
	3500	3538	3543	4001 (4001-5000)	4213				278	180	91	IPE180				1200	800x800	260		12441
250 (55)	3500	3538	3543	5001 (5001-6000)	5213		4607									1200		344	4,2	12441
	4000	4038	4043		4233		3607			200	100	IPE200				1300		328		14708
	4500	4538	4543	4001												1350		406		17248
	5000	5045	5050		4253			335	305	220	110	IPE220	8x30	430	510	1400		449	4,7	20029
	5500	5545	5550		4273				315	240	120	IPE240				1450		489		23177
	6000	6045	6050													1500		515		25697
	2000	2038	2043	4001	4213				278	180	91	IPE180				1150		232	3,2	12273
	2500	2538	2543		4233	455	3546	220		200	100	IPE200	6x30	330	410	1300	800x800	251		15406
	3000	3045	3050	4001 (4001-5000)					285							1350		317	4,2	18561
	3000	3045	3050	4501 (4501-6000)	4733		4046									1350		385	5,2	18561
500	3500	3545	3550		4253		3546		305	220	110	IPE220				1450		410		22784
	4000	4045	4050	4001	4273			335	315	240	120	IPE240	8x30	430	510	1550		443	4,7	26569
(55)	4500	4545	4550													1600		458		30065
	5000	5045	5050	4001 (4001-5000)	4303				355	270	135	IPE270				1700		521		34544
	5000	5045	5050	5001 (5001-6000)	5303		4546									1700		649	6,2	34544
	5500	5545	5550	4001	4303		3546									1750		605		38372
	6000	6045	6050		4333			415	385	300	150	IPE300		530	610	1850	1000x1000	685	5,9	44342
	2000	2045	2050		4253				305	220	110	IPE220		430	510	1400		371		25196
	2500	2545	2550	4001	4273	507	3494	335	315	240	120	IPE240	8x30			1550	800x800	396	4,7	31172
	3000	3045	3050		4303				355	270	135	IPE270				1650		449		37474
	3500	3545	3550													1750		533	6,2	43583
	4000	4045	4050		4333				385	300	150	IPE300		530	610	1850		635		51577
1000	4500	4545	4550					415								1950	1000x1000	656	5,9	58066
(100)	5000	5045	5050	4001 (4001-5000)	4363				415	330	160	IPE330				2000		715		65762
	5000	5045	5050	5001 (5001-6000)	5363		4494									2000		877	7,9	65762
	5500	5545	5550	4001	4393		3494		435	360	170	IPE360				2150		871		74225

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	C	HL	B	A	HP	WP	Profile Type	Holes Foot flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmm m	mmm m	mmm m	mm	mm	mm	mm	mm mm	mm mm	mm	mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm	Nm
	6000	6045	6050	4001 (4001-4500)												2200		899		81707
	6000	6045	6050	4501 (4501-6000)	4893		3994									2200		1032	9,8	81707

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	C	HL	B	A	HP	WP	Profile Type	Holes Foot flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg / 100 mm	Nm
	2000	2045	2050		4303				355	270	135	IPE270				1600		501		41188
	2500	2545	2550	4001	4333	667	3334	415	385	300	150	IPE300	8x30	530	610	1750	1000x1000	537	5,9	50641
	3000	3045	3050													1900		564		60114
	3500	3545	3550		4363				415	330	160	IPE330				2000		621		70183
	4000	4056	4061	4001 (4001-5000)	4393				446	360	170	IPE360				2100		735		81119
1600	4000	4056	4061	5001 (5001-6000)	5393		4334									2100		899	7,9	81119
(160)	4500	4556	4561	4001 (4001-5000)	4393		3334									2200		851		91213
	4500	4556	4561	5001 (5001-6000)	5393		4334									2200		1033	9,8	91213
	5000	5056	5061		4433		3334		516	400	180	IPE400				2300		1015		102954
	5500	5563	5568	4001	4437			500	523				12x30	630	710	2400		1190	12,3	118021
	6000	6063	6068		4487				553	450	190	IPE450				2500		1300		129306
	2000	2045	2050		4303				355	270	135	IPE270				1700		535		50347
	2500	2545	2550	4001	4333	667	3334	415	385	300	150	IPE300	8x30	530	610	1850		571	5,9	61764
	3000	3045	3050		4363				415	330	160	IPE330				2000		616		73542
	3500	3556	3561	4001 (4001-5500)	4393				446	360	170	IPE360				2150		709		86164
2000	3500	3556	3561	5501 (5501-6000)	5893		4834									2150		912	7,9	86164
(160)	4000	4056	4061		4433		3334		516	400	180	IPE400				2250		864		99062
	4500	4556	4561	4001												2350		982	9,8	111516
	5000	5063	5068		4483				553	450	190	IPE450				2500		1109		125915
	5500	5563	5568		4487			500					12x30	630	710	2550		1261	12,3	141213
	6000	6063	6068		4537				603	500	200	IPE500				2650		1386		157511

Weight is calculated without hoist and power supply.

*) Add weight when HSF increased.

** Dimension HC according to hoist.

☞ **Note: Maximum moment is given under nominal static load.**

☞ **Note: Motorized trolley is recommended for 1600 kg and 2000 kg loads.**

8 OVER BRACED WALL MOUNTED JIB CRANE 180°, IPE PROFILE

8.1 180° Manual slewing

Mode of slewing:

Slewing is carried out on a smooth bearing with a self lubricating ring.

Fixing:

Brackets are secured by HR, M24 bolts, class 10.9 (not delivered with standard package)

Tightening of the bolts must be achieved by using a torque wrench.

Tightening torque: 903 Nm

Supplied with:

Power supply line

Surface treatment for protection class: C3, RAL1028, min thickness 80 microns.

Option:

Main switch with 3 meters rising cable

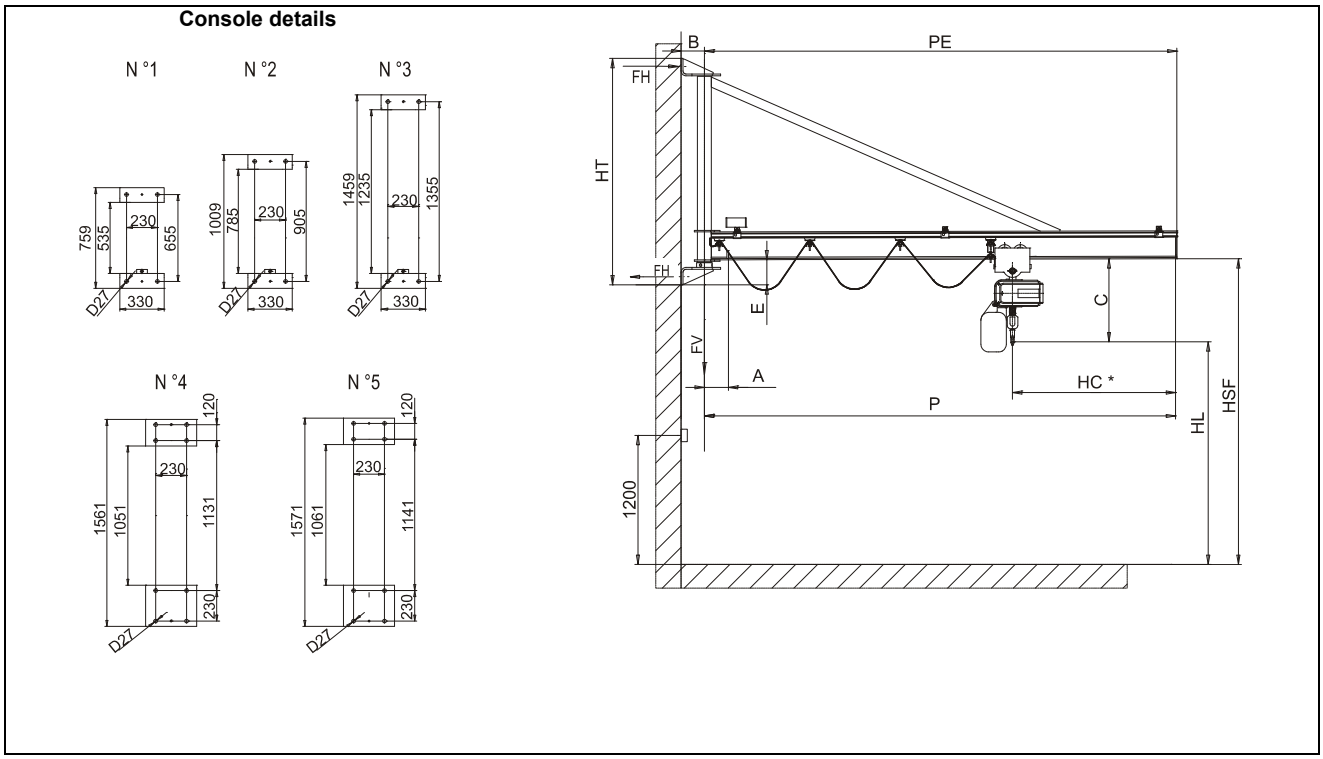
Important:

Frame classification according to EN13001-1. See Appendix A Classification of crane and hoist mechanism.

Max authorized hoisting speed 16 m/min.

Max traveling speed 10 m/min.

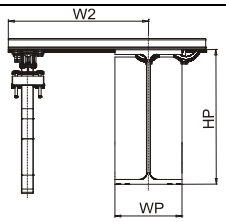
Capability of the support used for mounting our cranes is on the owner's responsibility.



This is a general sketch.

Other dimensions on request.

Scope of supply according to our confirmation of order.



8.2 Specification and main dimensions

Main dimensions, over braced wall mounted jib crane 180°, IPE-profile

Rated Capacity (max. hoist weight)	Span	P	Pe	Support Brackets N°	C	E	B	A	HT	HP	WP	W2	Profile Type	Reactions		Weight
														FH max	FV max	
kg kg	mmmm	mmmm	mmmm		mm	mm mm	mm mm	mm mm	mm	mm	mm	mm		kN	kN	kg kg
	2000	2032	2037							100	55		IPE100	7,7	2,3	57
	2500	2532	2537											9,8	2,4	63
	3000	3032	3037	1	370	161	150	102	759			355		11,9	2,4	67
125	3500	3532	3537							120	64		IPE120	14,5	2,6	81
	4000	4032	4037											16,7	2,6	86
(55)	4500	4538	4543					108						19,4	2,7	98
	5000	5038	5043											21,8	2,8	103
	5500	5538	5543							160	82		IPE160	26,3	3,1	140
	6000	6038	6043											29,1	3,2	148
	2000	2032	2037					102		100	55		IPE100	12,6	3,5	57
	2500	2532	2537											15,9	3,6	61
	3000	3038	3043	1	394	161	150	108	759			355	IPE120	19,9	3,8	79
250	3500	3538	3543							120	64			23,6	3,8	86
	4000	4038	4043											27,2	3,9	91
(55)	4500	4538	4543							160	82		IPE160	32,2	4,2	120
	5000	5045	5050					115						23,9	4,5	149
	5500	5545	5550	2					1009	200	100		IPE200	28,5	4,9	199
	6000	6045	6050											31,4	5,1	211
	2000	2038	2043					108		120	64		IPE120	22,9	6,1	64
	2500	2538	2543	1	455	161	150		759			355		28,9	6,1	71
	3000	3045	3050					115		140	73		IPE140	36,0	6,4	93
500	3500	3545	3550							160	82		IPE160	43,5	6,7	127
	4000	4045	4050						1009					32,1	6,7	132
(55)	4500	4545	4550	2						200	100		IPE200	38,5	7,4	196
	5000	5045	5050											43,0	7,5	207
	5500	5545	5550					155		220	110		IPE220	48,8	7,8	244
	6000	6045	6050							240	120		IPE240	54,8	8,2	284

Weight is calculated without hoist and power supply.

* Dimension HC according to hoist.

☞ **Note: Reactions FH max and FV max are given under nominal static load.**

Rated Capacity (max. hoist weight)	Span	P	Pe	Support Brackets N°	C	E	B	A	HT	HP	WP	W2	Profile Type	Reactions		Weight
														FH max	FV max	
kg kg	mmmm	mmm m	mmm m		mm	mm mm	mm mm	mm mm	mm	mm	mm	mm		kN	kN	kg kg
	2000	2045	2050	1					759	160	82		IPE160	45,6	11,7	92
	2500	2545	2550											37,6	11,9	117
	3000	3045	3050	2	507	161	150	115	1009			355		45,5	12,0	122
1000	3500	3545	3550							200	100		IPE200	54,4	12,4	164
	4000	4045	4050	3					1459					38,4	12,7	196
(100)	4500	4545	4550					155		220	110		IPE220	44,1	13,1	234
	5000	5045	5050											49,3	13,2	247
	5500	5545	5550							240	120		IPE240	55,3	13,6	290
	6000	6045	6050											60,7	13,8	305
	2000	2045	2050	2					1009	160	82		IPE160	46,4	18,3	104
	2500	2545	2550							180	91		IPE180	59,0	18,5	124
	3000	3045	3050	3	667	161	150	115	1459	200	100	355	IPE200	44,1	18,9	168
1600	3500	3545	3550											52,0	19,1	183
	4000	4045	4050							220	110		IPE220	60,0	19,3	209
(160)	4500	4556	4561	4		267		155	1561	240	120		IPE240	69,4	20,4	316
	5000	5056	5061											77,5	20,5	331
	5500	5563	5568	5		277		193	1571	270	135		IPE270	87,1	21,2	403
	6000	6063	6068							300	150		IPE300	96,7	21,8	462
	2000	2045	2050	2				115	1009	180	91		IPE180	56,9	22,3	110
	2500	2545	2550	3	667	161	150		1459			355		44,3	22,6	144
	3000	3045	3050							200	100		IPE200	53,9	22,8	168
2000	3500	3556	3561	4		267		155	1561	220	110		IPE220	63,6	23,7	258
	4000	4056	4061											74,1	23,9	278
(160)	4500	4556	4561							240	120		IPE240	84,4	24,3	316
	5000	5063	5068	5		277		193	1571	270	135		IPE270	95,3	24,9	380
	5500	5563	5568							300	150		IPE300	106,6	25,5	441
	6000	6063	6068											116,8	25,7	462

Weight is calculated without hoist and power supply.

* Dimension HC according to hoist.

☞ **Note: Reactions FH max and FV max are given under nominal static load.**

☞ **Note: Motorized trolley is recommended for 1600 kg and 2000 kg loads.**

9 OVER BRACED COLUMN MOUNTED JIB CRANE 270°, IPE PROFILE

9.1 270° Manual slewing

Crane must be secured to reinforced concrete foundation, dimensions indicated in the table. The crane is connected to foundation by anchor bolts, diam. 27; min. strength 355N/mm^2 length:785 mm.

The number of rods (n) is specified in the table next page.

Nuts to be tightened using a torque wrench with a torque of 314 Nm

Supplied with:

Power supply line

Surface treatment for protection class: C3, RAL1028, min thickness 80 microns.

Option:

Lockable main switch

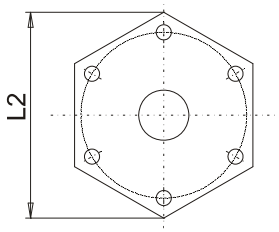
Important:

Frame classification according to EN13001-1. See Appendix A.

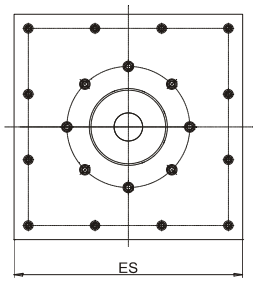
Max authorized hoisting speed 16 m/min.

Max traveling speed 10 m/min.

Concrete class C25/30

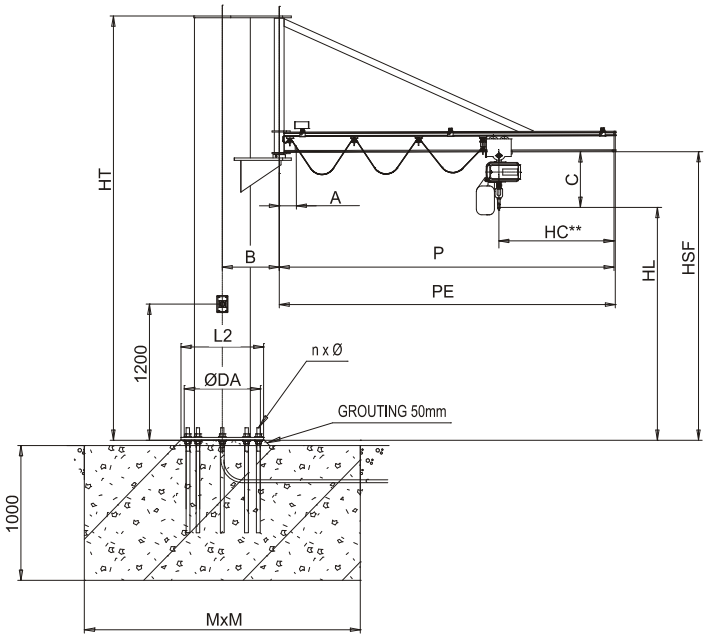


Default base plate



Optional base plate

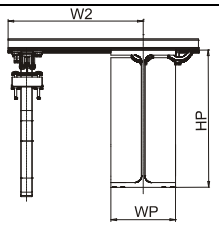
Fixing with anchor studs



This is a general sketch.

Other dimensions on request.

Scope of supply according to our confirmation of order.



9.2 Specification and main dimensions

For a jib clearance (HSF) of 2500 mm. Values given in this table are available up to 4000 mm HSF jib clearance.

☞ **Note: Please contact us for all other jib clearances.**

9.2.1 Main dimensions, over braced column mounted jib crane 270°, IPE-profile, HSF ≤ 4000

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	C	HL	B	A	HP	WP	Profile Type	Holes Foot flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmm m	mmm m	mmm m	mm	mm	mm	mm	mm mm	mm mm	mm	mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm kg	Nm
	2000	2032	2037						102	100	55	IPE100				850		162		4120
	2500	2532	2537	2500	2998	370	2130	220					6x30	330	410	950	800x800	168	3,2	5166
	3000	3032	3037													1000		172		6170
125	3500	3532	3537							120	64	IPE120				1050		186		7431
	4000	4032	4037													1150		191		8520
(55)	4500	4538	4543						108							1200		203		9704
	5000	5038	5043													1300		208		10845
	5500	5538	5543							160	82	IPE160				1350		275	4,2	13001
	6000	6038	6043													1400		313	5,2	14395
	2000	2032	2037						102	100	55	IPE100				950		162		6811
	2500	2532	2537	2500	2998	394	2106	220					6x30	330	410	1050	800x800	166	3,2	8498
	3000	3038	3043													1100		183		10306
	3500	3538	3543						108	120	64	IPE120				1200		191		12834
	4000	4038	4043													1300		226	4,2	14653
	4500	4538	4543													1350		285	5,2	16865
250										160	82	IPE160								
(55)	5000	5045	5050	2500 Range (2500-3500)	3248				115							1400		326		19395
	5000	5045	5050	3501 Range (3501-6000)	4249		3107	335					8x30	430	510	1400		403	4,7	
	5500	5545	5550	2500	3248		2106			200	100	IPE200				1450		407		21901
	6000	6045	6050													1500		418		24075
	2000	2038	2043						108	120	64	IPE120				1150		169	3,2	12115
	2500	2538	2543	2500	2998	455	2045	220					6x30	330	410	1300	800x800	176		15811
	3000	3045	3050							140	73	IPE140				1350		228	4,2	18953
500	3500	3545	3550						115	160	82	IPE160				1450		292	5,2	22357
	4000	4045	4050													1550		339	4,7	25487
(55)	4500	4545	4550		3248			335		200	100	IPE200	8x30	430	510	1600		403		29842
	5000	5045	5050													1700		414		33704
	5500	5545	5550						155	220	110	IPE220				1750		451		38105
	6000	6045	6050					415		240	120	IPE240		530	610	1850	1000x1000	566	5,9	42562

Weight is calculated without hoist and power supply.

*) Add weight when HSF increased.

** Dimension HC according to hoist.

☞ **Note: Maximum moment is given under nominal static load.**

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	C	HL	B	A	HP	WP	Profile Type	Holes Foot flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmm m	mmm m	mmm m	mm	mm	mm	mm	mm mm	mm mm	mm	mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm kg	Nm
	2000	2045	2050		2998											1400		287		25012
	2500	2545	2550			507	1993	335	115	160	82	IPE160	8x30	430	510	1550	800x800	324	4,7	30775
	3000	3045	3050	2500	3248											1650		329		36415
1000	3500	3545	3550							200	100	IPE200				1750		371		42938
	4000	4045	4050													1850		424		48849
(100)	4500	4545	4550		3698					220	110	IPE220				1950		543		56693
	5000	5045	5050					415	155					530	610	2000	1000x1000	556	5,9	62761
	5500	5545	5550							240	120	IPE240				2150		599		69964
	6000	6045	6050													2200		686	7,9	76298
	2000	2045	2050		3248				115	160	82	IPE160				1600		386		40640
	2500	2545	2550	2500		667	1833	415		180	91	IPE180	8x30	530	610	1750	1000x1000	406	5,9	49688
	3000	3045	3050		3698					200	100	IPE200				1900		478		59120
	3500	3545	3550													2000		492		68275
	4000	4045	4050						155	220	110	IPE220				2100		518		77737
1600	4500	4556	4561	2500 Range (2500-3500)						240	120	IPE240				2200		588		88333
(160)	4500	4556	4561	3001 Range (3001-6000)	4199		2334									2200		699	7,9	88333
	5000	5056	5061		3698		1833									2300		675		97752
	5500	5563	5568	2500	3703		1834	500	193	270	135	IPE270	12x30	630	710	2400		966	12,3	110356
	6000	6063	6068		3704		1835			300	150	IPE300				2500		1025		121705
	2000	2045	2050		3248					180	91	IPE180				1700		392		47184
	2500	2545	2550	2500		667	1833	415	115				8x30	530	610	1850		453	5,9	60424
	3000	3045	3050		3698					200	100	IPE200				2000		478		71245
	3500	3556	3561													2150		529		84656
2000	4000	4056	4061	2500 Range (2500-3000)					155	220	110	IPE220				2250		550		96334
(160)	4000	4056	4061	3001 Range (3001-6000)	4199		2334									2250		661	7,9	
	4500	4556	4561		3698		1833			240	120	IPE240				2350		660		108351
	5000	5063	5068	2500						270	135	IPE270				2500		943		120977
	5500	5563	5568		3702			500	193	300	150	IPE300	12x30	630	710	2550		1004	12,3	134335
	6000	6063	6068													2650		1025		146573

Weight is calculated without hoist and power supply.

*) Add weight when HSF increased.

** Dimension HC according to hoist.

☞ **Note: Maximum moment is given under nominal static load.**

☞ **Note: Motorized trolley is recommended for 1600 kg and 2000 kg loads.**

9.2.2 Main dimensions, over braced column mounted jib crane 270°, IPE-profile, HSF 4001…6000

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	C	HL	B	A	HP	WP	Profile Type	Holes Foot flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmm m	mmm m	mmm m	mm	mm	mm	mm	mm mm	mm mm	mm	mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm kg	Nm
	2000	2032	2037													850		209		4120
	2500	2532	2537							100	55	IPE100				950		215	3,2	5166
	3000	3032	3037													1000		219		6170
125	3500	3532	3537	4001	4499	370	3631	220	161	120	64	IPE120	6x30	330	410	1050	800x800	234		7431
	4000	4032	4037													1150		239		8520
(55)	4500	4538	4543													1200		250		9704
	5000	5038	5043													1300		301	4,2	10845
	5500	5538	5543							160	82	IPE160				1350		382	5,2	13001
	6000	6038	6043													1400		370	4,7	14739
	2000	2032	2037							100	55	IPE100				950		209		6755
	2500	2532	2537	4001	4499	394	3607	220	161				6x30	330	410	1050	800x800	213	3,2	8352
	3000	3038	3043													1100		231		10176
	3500	3538	3543							120	64	IPE120				1200		284	4,2	11929
	4000	4038	4043	4001 Range (4001-4500)												1300		289		13650
250																				
(55)	4000	4038	4043	4501 Range (4501-6000)			4107			160	82	IPE160				1300		359	5,2	16059
	4500	4538	4543													1350		362		16059
	5000	5045	5050	4001			3607									1400		427	4,7	18473
	5500	5545	5550		4749			335		200	100	IPE200	8x30	430	510	1450		477		21905
	6000	6045	6050													1500		561	6,2	24080
	2000	2038	2043							120	64	IPE120				1150		216	3,2	12086
	2500	2538	2543		4499	455	3546	220	161				6x30	330	410	1300	800x800	269	4,2	14939
	3000	3045	3050	4001						140	73	IPE140				1350		335	5,2	18061
500	3500	3545	3550							160	82	IPE160				1450		393		22402
	4000	4045	4050					335					8x30	430	510	1550		410	4,7	25131
(55)	4500	4545	4550		4749					200	100	IPE200				1600		474		29894
	5000	5045	5050													1700		558	6,2	33185
	5500	5545	5550					415		220	110	IPE220		530	610	1750	1000x1000	615	5,9	38070
	6000	6045	6050							240	120	IPE240				1850		655		42525
	2000	2045	2050		4499											1400		358		25012
	2500	2545	2550			507	3494	335	161	160	82	IPE160	8x30	430	510	1550	800x800	394	4,7	30775
	3000	3045	3050	4001	4749											1650		400		36415
1000	3500	3545	3550							200	100	IPE200				1750		514	6,2	42938
	4000	4045	4050													1850		609		48849
(100)	4500	4545	4550		5199					220	110	IPE220				1950		632	5,9	56693
	5000	5045	5050					415						530	610	2000	1000x1000	645		62761
	5500	5545	5550							240	120	IPE240				2150		788	7,9	69964
	6000	6045	6050													2200		804		76298

Weight is calculated without hoist and power supply.

*) Add weight when HSF increased.

** Dimension HC according to hoist.

☞ **Note: Maximum moment is given under nominal static load.**

Rated Capacity (max. hoist weight)	Span	P	Pe	Jib Clearance HSF	Total Height HT	C	HL	B	A	HP	WP	Profile Type	Holes Foot flange	DA	L2	Foundation M x M	Optional Base Plate Dimensions	Weight	Add. Weight *)	Max. Moment
kg kg	mmm m	mmm m	mmm m	mm	mm	mm	mm	mm mm	mm mm	mm	mm		n x Ø mm	mm	mm	mm	dim □ES	kg	kg/ 100 mm	Nm
	2000	2045	2050		4749					160	82	IPE160				1600		475		40640
	2500	2545	2550	4001		667	3334	415	161	180	91	IPE180	8x30	530	610	1750	1000x1000	495	5,9	49688
	3000	3045	3050		5199					200	100	IPE200				1900		566		59120
1600	3500	3545	3550													2000		581		68275
	4000	4045	4050							220	110	IPE220				2100		707	7,9	77737
(160)	4500	4556	4561						267	240	120	IPE240				2200		777		88333
	5000	5056	5061													2300		892	9,8	97752
	5500	5563	5568		5203			500	277	270	135	IPE270	12x30	630	710	2400		1150	12,3	110356
	6000	6063	6068							300	150	IPE300				2500		1209		121705
	2000	2045	2050		4749					180	91	IPE180				1700		481		49783
	2500	2545	2550	4001		667	3334	415	161				8x30	530	610	1850		542	5,9	60836
	3000	3045	3050		5199					200	100	IPE200				2000		566		72101
	3500	3556	3561	4001 Range (4001-4500)					267	220	110	IPE220				2150		618		83506
2000 (160)	3500	3556	3561	4501 Range (4501-6000)	5699											2150		758	7,9	83506
	4000	4056	4061		5199											2250		739		95245
	4500	4556	4561	4001						240	120	IPE240				2350		877	9,8	107243
	5000	5063	5068							270	135	IPE270	12x30	630	710	2500		1127		121634
	5500	5563	5568		5203			500	277	300	150	IPE300				2550		1188	12,3	134959
	6000	6063	6068													2650		1209		146860

Weight is calculated without hoist and power supply.

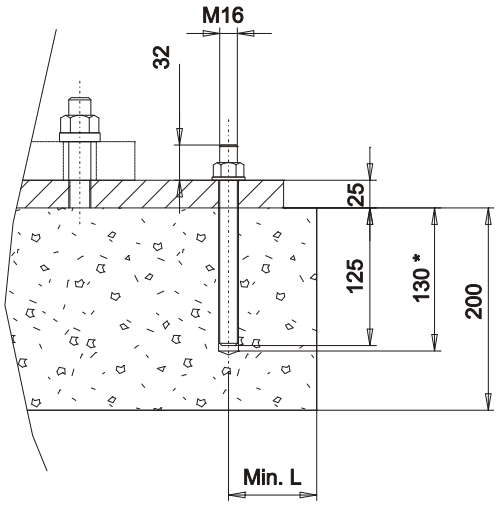
*) Add weight when HSF increased.

** Dimension HC according to hoist.

☞ **Note: Maximum moment is given under nominal static load.**

☞ **Note: Motorized trolley is recommended for 1600 kg and 2000 kg loads.**

10 OPTIONAL BASE PLATE



* Depth of drilling

Pillar D	Minimum distance to the edge Min. L
[mm]	[mm]
219.1	80
323.9	110
406.4	120
508	120
610	120

Concrete class C25/30.

Precaution for fixing:

Finishing of the concrete slab is not considered as a mounting surface. Before positioning the jib crane where you precisely need to place it, the finishing of concrete slab must be completely cleaned and particle free in order to get a perfect flat surface. Drill concrete slab according to above dimensions. Introduce chemical bolts when dried, tighten nuts acc. to bolt.

☞ **Note: This data is given for information only; all stages of the process must be carefully checked by you.**

11 APPENDIX A

11.1 Q5 U2 Class

11.1.1 Classification of crane and hoist mechanism

Ref. FEM 1.001: 1998, ISO 4301-1, EN 13001-1

Crane application =Pillar jib crane: Q = 1 t; R = 6 m; lift up = 3.5 m

Load handling classification parameters

Rated capacity, **mQ =1** t	- Loading cycles / hour:	**4**		
Mass of the hook, **mh =0,015** t	- Working hours / day:	**8**		
Hoisting speed, **vh = 5** m/min	- Working days / week:	**5**		
Average distance of hoisting and lowering loads, **X = 7** m	- Working weeks / a:	**47**		
Aver. dist. of hoisting and lowering empty hook, **Xo = 7** m	- Lifetime in years:	**8**		
Sum(X) = 14m	Total number of work cycles, **C = 60160**		=>	U2
	Daily run time,	t_d =**1,49** h		

Handling of lifted loads

	Lifted payload level (t)	Relative No. of lifts of load level (%)	Relative portion of load level	Cumulative relative No. of cycles	Relative load	qubic value	Relative mean load value
Rated capacity (SWL) →	**1**	95	0,95	0,950	**1,000**	0,9500	0,95
	0,95	5	0,05	1,000	**0,950**	0,0429	0,0475
	0	0	0	1,000	**0,000**	0,0000	0
	0	0	0	1,000	**0,000**	0,0000	0
	0	0	0	1,000	**0,000**	0,0000	0
		100%	1			0,9929	0,9975

	per: FEM	EN 13001
Net load spectrum factor, k_P =	**0,9929**	**0,9929**
Net load spectrum class =	**Q4**	**Q5**
Class of utilization =	**U2**	**U2**
=> Class of the crane as a whole =	**A4**	(= Ux + Qy -2)

Average lifted load = 1,0 t

Mass lifted per year = 7 501 t

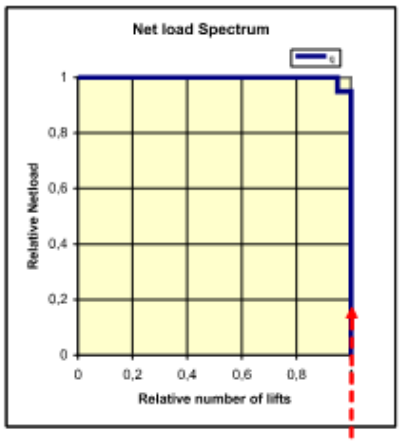
Handling of empty hook		Total hoisting time, T
Relative empty hook handling distance = Xo/X =	**1,000**	T = C*(X+Xo)/vh
Cumulative relative handl. time = 1 + Xo/X =	**2,000**	T = 168448 min
Mass of hook related to the rated capacity, mh/mQ =	**0,0150**	**T = 2807 h**
Mass of hook related to max. hoist load, mh/(mh+mQ) =	**0,0148**	**=>T4**

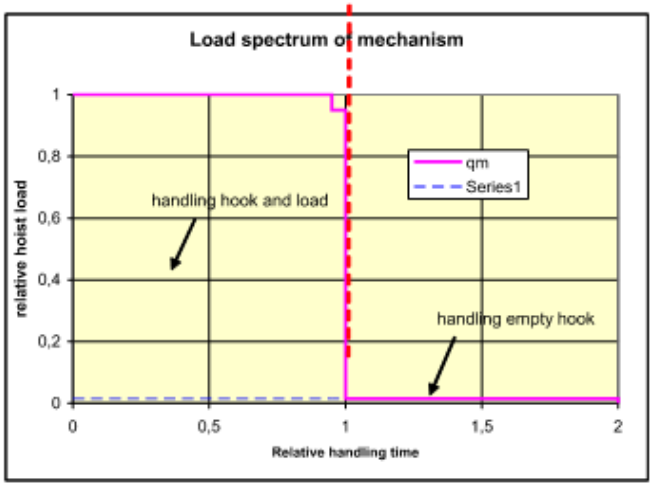
11.1.2 Calculation of the Group of Hoist Mechanism

Hoist load spectrum factor

Relative handling time	Cumulative relative time	Load related to rated capacity	Load related to maximum hoist load	Time related to total time	qubic value
0,95	0,950	1,015	**1,000**	**0,475**	0,47500
0,05	1,000	0,965	**0,951**	**0,025**	0,02148
0	1,000	0,015	**0,015**	**0,000**	0,00000
0	1,000	0,015	**0,015**	**0,000**	0,00000
0	1,000	0,015	**0,015**	**0,000**	0,00000
1,000	2,000	0,015	**0,015**	**0,500**	0,00000
sum = 2,00		**max = 1,02**		**1**	**0,496486**
				km =	**0,4965**

Hoist load spectrum factor, k_m = 0,4965
Hoist load spectrum class = L3
Class of utilization = T4
=> Class of the Hoist Mechanism = M5



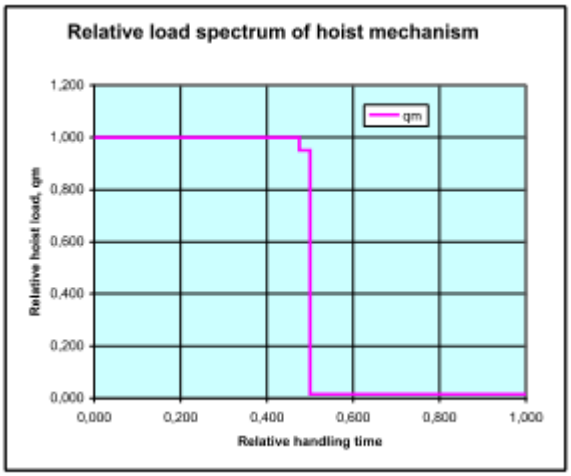


For this application:

Please, select a hoist that meets the specified load and hoisting speed as well as the required range of lift and class of mechanism = M5

Production check:

Please, check that the required tons / year can be lifted by this hoist considering that a same mass may be lifted more than once.



11.2 Q4 U3 Class

11.2.1 Classification of crane and hoist mechanism

Ref. FEM 1.001: 1998, ISO 4301-1, EN 13001-1

Crane application =Pillar jib crane: Q = 1 t; R = 6 m; lift up = 3.5 m

Load handling classification parameters

Rated capacity, **mQ =1** t	- Loading cycles / hour: **3**
Mass of the hook, **mh =0,015** t	- Working hours / day: **8**
Hoisting speed, **vh = 6,3** m/min	- Working days / week: **5**
Average distance of hoisting and lowering loads, **X = 7** m	- Working weeks / a: **47**
Aver. dist. of hoisting and lowering empty hook, **Xo = 7** m	- Lifetime in years: **20**
Sum(X) = 14m	Total number of work cycles, **C = 112800** => U3
	Daily run time, t_d =**0,89** h

Handling of lifted loads

	Lifted payload level (t)	Relative No. of lifts of load level (%)	Relative portion of load level	Cumulative relative No. of cycles	Relative load	qubic value	Relative mean load value
Rated capacity (SWL) →	**1**	30	0,3	0,300	**1,000**	0,3000	0,3
	0,8	25	0,25	0,550	**0,800**	0,1280	0,2
	0,6	15	0,15	0,700	**0,600**	0,0324	0,09
	0,5	15	0,15	0,850	**0,500**	0,0188	0,075
	0,4	15	0,15	1,000	**0,400**	0,0096	0,06
		100%	1			0,4888	0,7250

	per: FEM	EN 13001	
Net load spectrum factor, k_P =	0,4888	0,4888	**Average lifted load = 0,7** t
Net load spectrum class =	Q3	Q4	**Mass lifted per year = 4 089** t
Class of utilization =	U3	U3	
=> Class of the crane as a whole =	A4	(= Ux + Qy -2)	

Handling of empty hook		Total hoisting time, T
Relative empty hook handling distance = Xo/X =	**1,000**	T = C*(X+Xo)/vh
Cumulative relative handl. time = 1 + Xo/X =	**2,000**	T = 250667 min
Mass of hook related to the rated capacity, mh/mQ =	**0,0150**	**T = 4178 h**
Mass of hook related to max. hoist load, mh/(mh+mQ) =	**0,0148**	**=>T5**

11.2.2 Calculation of the Group of Hoist Mechanism

Hoist load spectrum factor

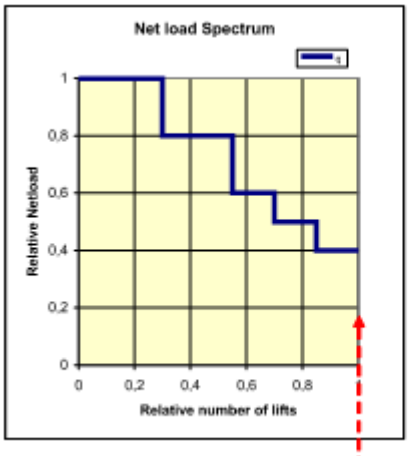
Relative handling time	Cumulative relative time	Load related to rated capacity	Load related to maximum hoist load	Time related to total time	qubic value
0,3	0,300	1,015	**1,000**	**0,150**	0,15000
0,25	0,550	0,815	**0,803**	**0,125**	0,06471
0,15	0,700	0,615	**0,606**	**0,075**	0,01668
0,15	0,850	0,515	**0,507**	**0,075**	0,00980
0,15	1,000	0,415	**0,409**	**0,075**	0,00513
1,000	2,000	0,015	**0,015**	**0,500**	0,00000
sum = 2,00		**max = 1,02**		**1**	**0,246320**
				km =	**0,2463**

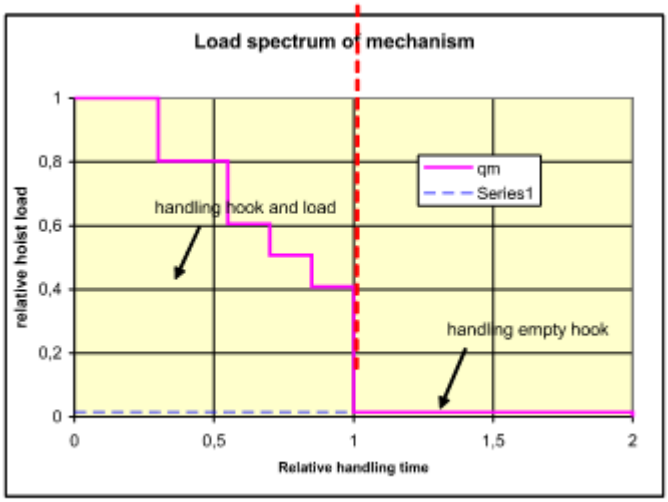
Hoist load spectrum factor, k_m = 0,2463

Hoist load spectrum class = L2

Class of utilization = T5

=> Class of the Hoist Mechanism = M5



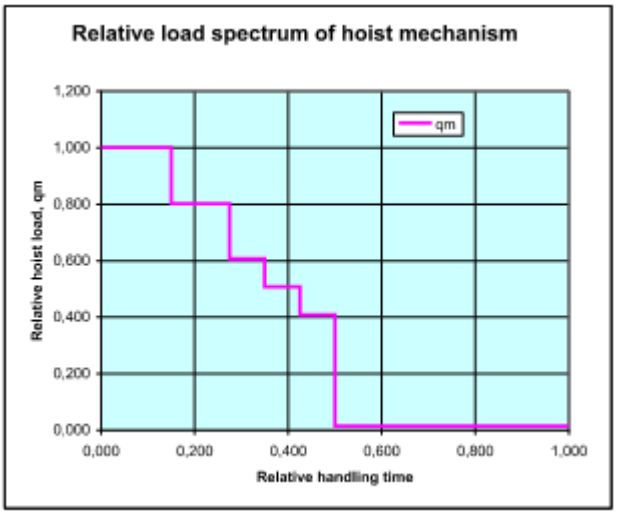


For this application:

Please, select a hoist that meets the specified load and hoisting speed as well as the required range of lift and class of mechanism = M5

Production check:

Please, check that the required tons / year can be lifted by this hoist considering that a same mass may be lifted more than once.



11.3 Q3 U4 Class

11.3.1 Classification of crane and hoist mechanism

Ref. FEM 1.001: 1998, ISO 4301-1, EN 13001-1

Crane application =Pillar jib crane: Q = 1 t; R = 6 m; lift up = 3.5 m

Load handling classification parameters

Rated capacity, **mQ =1** t	- Loading cycles / hour: **6**
Mass of the hook, **mh =0,015** t	- Working hours / day: **8**
Hoisting speed, **vh = 6,3** m/min	- Working days / week: **5**
Average distance of hoisting and lowering loads, **X = 7** m	- Working weeks / a: **47**
Aver. dist. of hoisting and lowering empty hook, **Xo = 7** m	- Lifetime in years: **20**
Sum(X) = 14m	Total number of work cycles, **C = 225600** => U4
	Daily run time, t_d **=1,78** h

Handling of lifted loads

	Lifted payload level (t)	Relative No. of lifts of load level (%)	Relative portion of load level	Cumulative relative No. of cycles	Relative load	qubic value	Relative mean load value
Rated capacity (SWL) →	**1**	5	0,05	0,050	**1,000**	0,0500	0,05

0,8	10	0,1	0,150	**0,800**	0,0512	0,08
0,63	20	0,2	0,350	**0,630**	0,0500	0,126
0,5	40	0,4	0,750	**0,500**	0,0500	0,2
0,4	25	0,25	1,000	**0,400**	0,0160	0,1
	100%	1			0,2172	0,5560

	per: FEM	EN 13001	
Net load spectrum factor, k_P =	**0,2172**	**0,2172**	**Average lifted load = 0,6 t**
			Mass lifted per year = 6 272 t
Net load spectrum class =	**Q2**	**Q3**	
Class of utilization =	**U4**	**U4**	
=> Class of the crane as a whole =	**A4**	(= Ux + Qy -2)	

Handling of empty hook		Total hoisting time, T
Relative empty hook handling distance = Xo/X =	**1,000**	T = C*(X+Xo)/vh
Cumulative relative handl. time = 1 + Xo/X =	**2,000**	T = 501333 min
Mass of hook related to the rated capacity, mh/mQ =	**0,0150**	**T = 8356 h**
Mass of hook related to max. hoist load, mh/(mh+mQ) =	**0,0148**	**=>T6**

11.3.2 Calculation of the Group of Hoist Mechanism

Hoist load spectrum factor

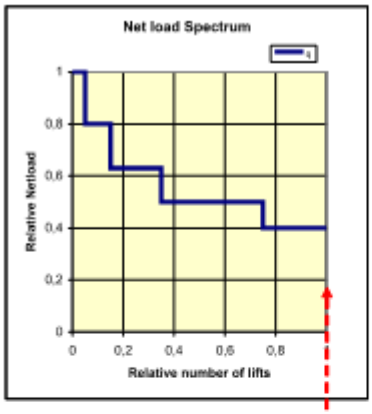
Relative handling time	Cumulative relative time	Load related to rated capacity	Load related to maximum hoist load	Time related to total time	qubic value
0,05	0,050	1,015	**1,000**	**0,025**	0,02500
0,1	0,150	0,815	**0,803**	**0,050**	0,02588
0,2	0,350	0,645	**0,635**	**0,100**	0,02566
0,4	0,750	0,515	**0,507**	**0,200**	0,02612
0,25	1,000	0,415	**0,409**	**0,125**	0,00854
1,000	2,000	0,015	**0,015**	**0,500**	0,00000
sum = 2,00		**max = 1,02**		**1**	**0,111217**
				km =	**0,1112**

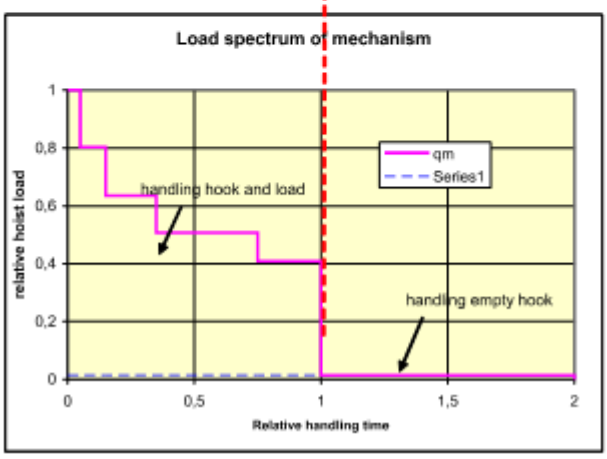
Hoist load spectrum factor, k_m = 0,1112

Hoist load spectrum class = L1

Class of utilization = T6

=> Class of the Hoist Mechanism = M5



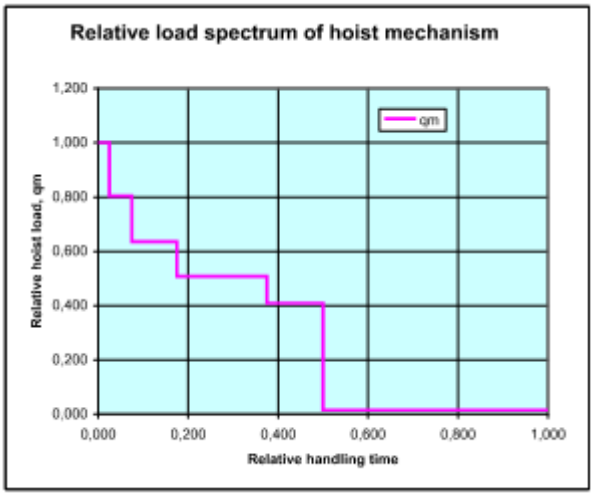


For this application:

Please, select a hoist that meets the specified load and hoisting speed as well as the required range of lift and class of mechanism = M5

Production check:

Please, check that the required tons / year can be lifted by this hoist considering that a same mass may be lifted more than once.



11.4 Q2 U5 Class

11.4.1 Classification of crane and hoist mechanism

Ref. FEM 1.001: 1998, ISO 4301-1, EN 13001-1

Crane application =Pillar jib crane: Q = 1 t; R = 6 m; lift up = 3.5 m

Load handling classification parameters

Rated capacity, **mQ =1** t	- Loading cycles / hour: **13**
Mass of the hook, **mh =0,015** t	- Working hours / day: **8**
Hoisting speed, **vh = 6,3** m/min	- Working days / week: **5**
Average distance of hoisting and lowering loads, **X = 7** m	- Working weeks / a: **47**
Aver. dist. of hoisting and lowering empty hook, **Xo = 7** m	- Lifetime in years: **20**
Sum(X) = 14m	Total number of work cycles, **C = 488800** => U5
	Daily run time, t_d **=3,85** h

Handling of lifted loads

	Lifted payload level (t)	Relative No. of lifts of load level (%)	Relative portion of load level	Cumulative relative No. of cycles	Relative load	qubic value	Relative mean load value
Rated capacity (SWL) →	**1**	5	0,05	0,050	**1,000**	0,0500	0,05
	0,66	10	0,1	0,150	**0,660**	0,0287	0,066
	0,5	20	0,2	0,350	**0,500**	0,0250	0,1
	0,32	40	0,4	0,750	**0,320**	0,0131	0,128
	0,25	25	0,25	1,000	**0,250**	0,0039	0,0625
		100%	1			0,2172	0,4065

per: FEM	EN 13001

Net load spectrum factor, k_P =	0,1208	0,1208	**Average lifted load =** **0,4** t
			Mass lifted per year **=** **9 935** t
Net load spectrum class =	**Q1**	**Q2**	
Class of utilization =	**U5**	**U5**	
=> Class of the crane as a whole =	**A4**	(= Ux + Qy -2)	

Handling of empty hook		Total hoisting time, T
Relative empty hook handling distance = Xo/X =	**1,000**	T = C*(X+Xo)/vh
Cumulative relative handl. time = 1 + Xo/X =	**2,000**	T = 1086222 min
Mass of hook related to the rated capacity, mh/mQ =	**0,0150**	**T = 18104 h**
Mass of hook related to max. hoist load, mh/(mh+mQ) =	**0,0148**	**=>T7**

11.4.2 Calculation of the Group of Hoist Mechanism

Hoist load spectrum factor

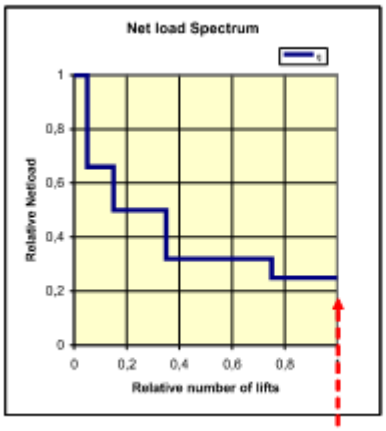
Relative handling time	Cumulative relative time	Load related to rated capacity	Load related to maximum hoist load	Time related to total time	qubic value
0,05	0,050	1,015	**1,000**	**0,025**	0,02500
0,1	0,150	0,675	**0,665**	**0,050**	0,01417
0,2	0,350	0,515	**0,507**	**0,100**	0,01306
0,4	0,750	0,335	**0,330**	**0,200**	0,00719
0,25	1,000	0,265	**0,261**	**0,125**	0,00222
1,000	2,000	0,015	**0,015**	**0,500**	0,00000
sum = 2,00		**max = 1,02**		**1**	**0,062185**
				km =	**0,0622**

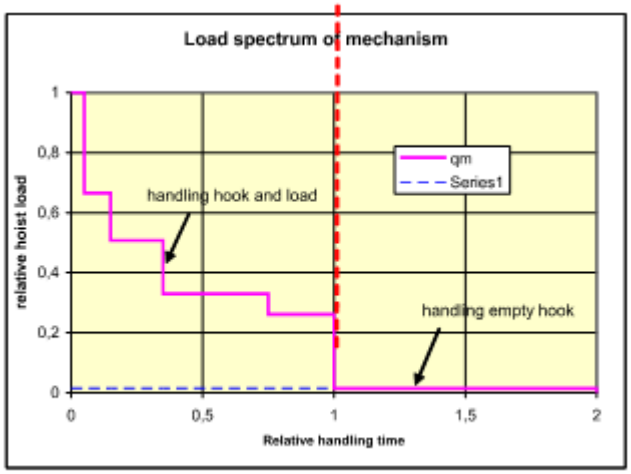
Hoist load spectrum factor, k_m = 0,0622

Hoist load spectrum class = L0

Class of utilization = T7

=> Class of the Hoist Mechanism = M5





For this application:

Please, select a hoist that meets the specified load and hoisting speed as well as the required range of lift and class of mechanism = M5

Production check:

Please, check that the required tons / year can be lifted by this hoist considering that a same mass may be lifted more than once.