



# UpCrane

JIB CRANES AND CHAIN HOISTS

# MANUAL AND ELECTRIC JIB CRANE, ELECTRIC CHAIN HOIST

Liftstyle offers the most complete range of jib cranes, manually or electrically rotated, in column or wall mounted models for loads from 63 to 2000 kg. The quality of the components used and the excellent carpentry finishes allow us to offer a product of excellent quality, constant over time. The purchase of a jib crane has to meet the real and effective working requirements together with the environment conditions where the jib crane will operate. The parameters which have to be carefully considered at the time of choosing a jib crane, to make sure of the optimal solution to take and the certainty over the long term investment of the machine, are the followings:

**THE CAPACITY**, will have to be determined by the maximum weight to load and this load weight must not ever exceed the capacity of the jib crane.

**THE FUNCTIONAL DIMENSIONS**, the height of the column or the positioning of the cantilever on an existing pillar, has to be higher than the height of the machinery found in the work area of the jib crane itself, adding to this quota the obstacles of the jib and the hoist.

**TYPE OF LOAD**, the choice for the lifting speed depends on: the fragility of the load, the precision of the positioning, the delicate nature of the machines to load such as tool machines and so on..

**OPERATIONAL AREA**, considering that the nature of the jib crane is characterised by a high flexibility this becomes even more evident when the load is closer to the maximum working weight and when it is located near the end of the jib.

**WORKING ENVIROMENT**, the jib crane is designed to be operated indoor or in sheltered areas, protected from rain and wind, otherwise extra treatments will be needed on the machine such as sand blasting or varnishing, together with a system of stationary break.

**FREQUENCY OF USE**, if the crane is used very often, with recurrent and repeated movements for loading heavy goods, the crane will be subjected to a high level of stress and the operator as a consequence to a physical tiredness, so in these cases we recommend to direct the choice to an automated electrical one.

# CUSTOMER AND INSTALLER'S TASKS OF JIB CRANES LIFTSTYLE "VB" SERIES

## Preparation of place of installation – Installation and set up

To allow the installation of Jib cranes "VB" series in the place where they will be used, the Customer have to carry out the following operations in advance:

- Check adequacy and suitability of the support and fixing structures and surfaces as plinths, pillars, wall, floor, bodies machine etc., obtaining the relevant declaration signed by an expert and qualified Engineer (definition and expertise of the Engineer in accordance with the standard ISO 9927-1), and check there are not evident lacks on the support structures and fixings;
- Check the suitability of the maneuvering areas (rotation) available for the jib cranes especially if they operate in areas where there are other cranes and operating machines;
- Check the suitability and the correct functioning of the electrical power supply:
- Correspondence between the voltage of the power line and the voltage of the motors;
- Presence and suitability of the power main switch;
- Adequacy of cable section of the electric power line and suitability of the ground system.
- Set up the weights for the dynamic test (nominal load x 1,1) and static test (nominal load x 1,25);
- Set up the equipment for the slinging and lifting of the load tests.

## Installation

The installation of the jib cranes "VB" series, if not correctly carried out, can cause serious risks for the safety of the workers, nearby in the assembly stage and/or use. Why this procedure must be assigned to specialized installers, with a good knowledge and experience in the field of lifting equipment, considering:

- Environmental characteristics of the place of work (ex.: viability of the floor, etc.);
- Height of the work level and load level;
- The dimensions and the weight of the parts to be installed, as well as the available spaces for the handling of the parts to be installed. Before starting with the assembling of the parts and with the installation of the jib crane, the installer has to be sure that the characteristics of the crane are suitable with the use which is intended for, and in particular:
- The capacity of the crane is  $\geq$  compared to the load to lift.
- The characteristics of the fixing structures (plinth, floor, pillar, wall, etc.) have been "Declared suitable" by the Customer or by an "Expert engineer", engaged by the Customer .
- The characteristics of the lifting unit (trolley/hoist), if not part of the supply, are compatible with those of the jib crane in relation to:
- Capacity of the hoist  $\leq$  than capacity of the jib crane;
- Weight of the trolley/hoist  $\leq$  than maximum ones intended;
- Lifting and transverse speed  $\leq$  than the maximum ones allowed;
- Headroom of the figure of trolley/hoist  $\leq$  than those allowed;
- Reaction on the trolley wheels than to the maximum ones intended;
- The flange width of the beam must correspond to the provided one for the wheels of the trolley.
- The installer must follow the instructions content in the user guide of the jib crane and relative hoist.

## Set up-Ready to use

Following the installation activities of the Jib cranes "VB" series it is the precise duty of the installer to:

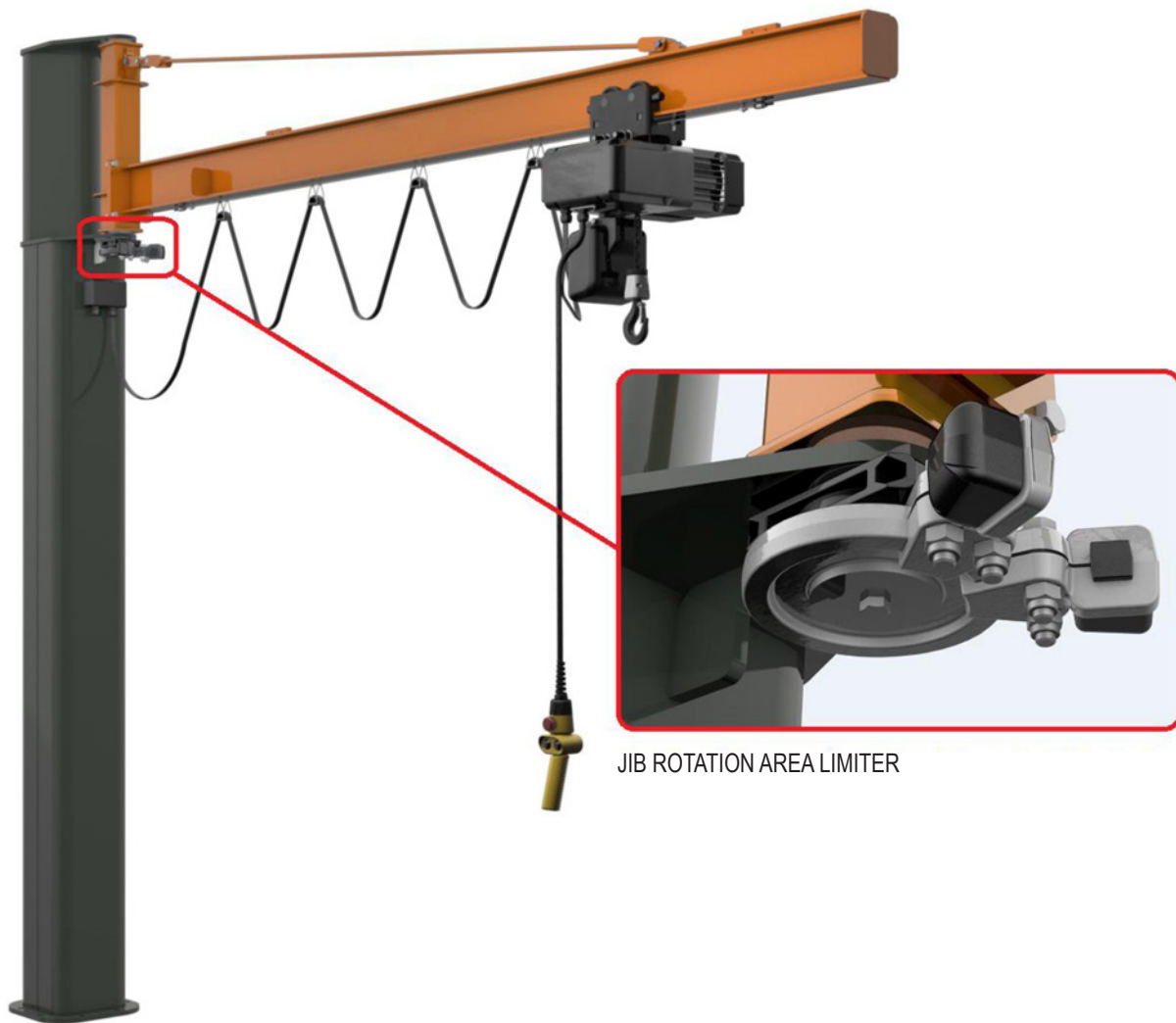
- Lead the activities of the set-up service as described in the User Guide, ensuring that all the safety devices are properly installed and corresponding to the intended use and provide, if necessary, to their adjustment.
- In particular, the installer must be sure about the right installation and functionality of the limit switch of:
- Transverse: end stop of the trolley, must be fixed in order to avoid interference and/or collision of the lifting unit (trolley and hoist)with the structures of the jib crane itself;
- Lifting: limit switch of the hoists must be adjusted in order to avoid the hook contact with the floor;
- Rotation: arm rotating limit device of the jib cranes must be adjusted in order to avoid interference and/or collisions between the arm in rotation and structures on its way.
- Prepare the report "Testing and correct installation" of the jib crane, deliberating the suitability for use
- Take care of the complete editing of the responsibility of part as intended in the Check Register

# JIB'S ROTATION AREA LIMITER OF THE JIB CRANES

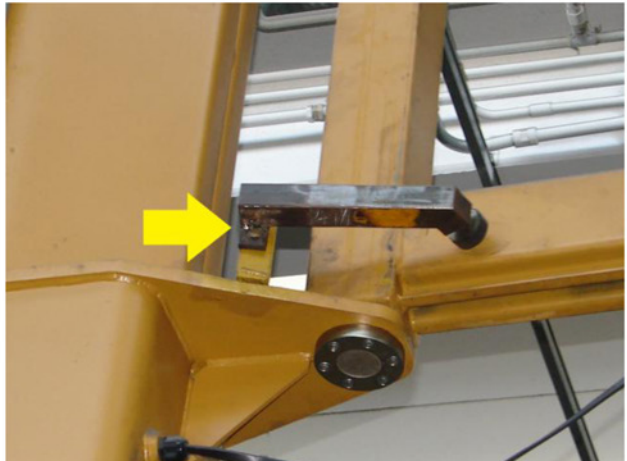
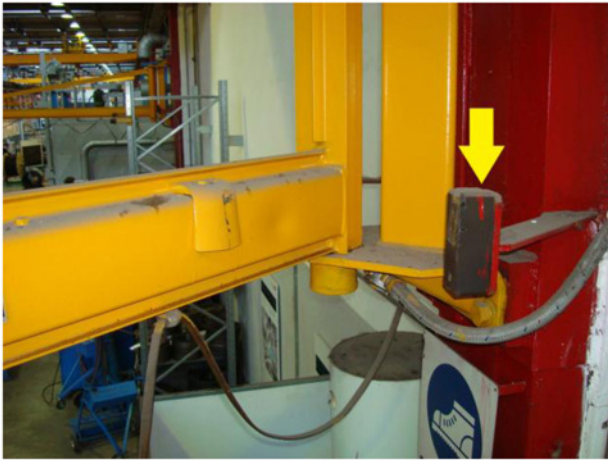
In relation to the characteristics of the installation or the use area of the jib cranes, whether they are column-mounted or wall or pillar-mounted, it is often necessary to limit the area of rotation of their jib, defining in a safe and secure way the working area, to avoid dangerous interferences of the jibs with fixed and/or mobile structures. In this regard, the current and existing laws require to equip the machines with accurate and suitable security devices, which in case of jib cranes, must restrict the area of rotation of the jib to avoid the collision risk due to uncontrolled angular amplitude.

The jib crane includes the jib's rotation area limiter, which as a security device is integrated in the jib crane and covered by the CE Marking and EC Declaration together with the related Manufacturer's Liability of the jib crane itself.

The jib crane does not include the jib's rotation area limiter. When the area limiter is not integral part of the jib crane, not only it results in being inadequate to its function as shown in the examples, so, as a security component put on the market separately, it must be equipped with the CE Marking and EC Declaration of conformity drawn up under the liability of who designed and installed the jib crane.





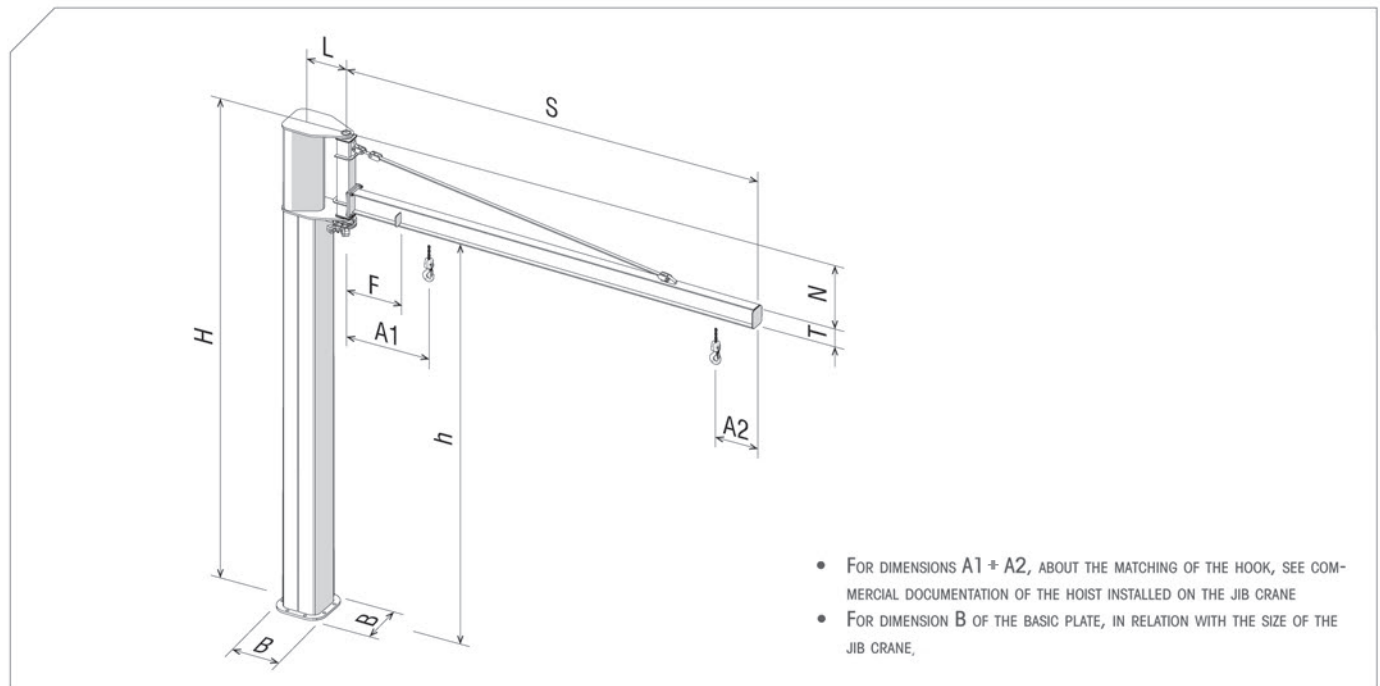


JIB CRANE EXAMPLES WITH SEVERAL TYPES OF "INADEQUATE" JIB AREA ROTATION LIMITER.

Because the possible CE Marking and EC Declaration of the crane does NOT include the conformity of the area limiter, the suitability resolution of this security device/component is drawn by the appointed technical expert from the installation and maintenance activity user.

# Technical data – Overall dimensions and weights

Jib cranes "Column mounted" version "VB-C" series with overbraced arm "T" version

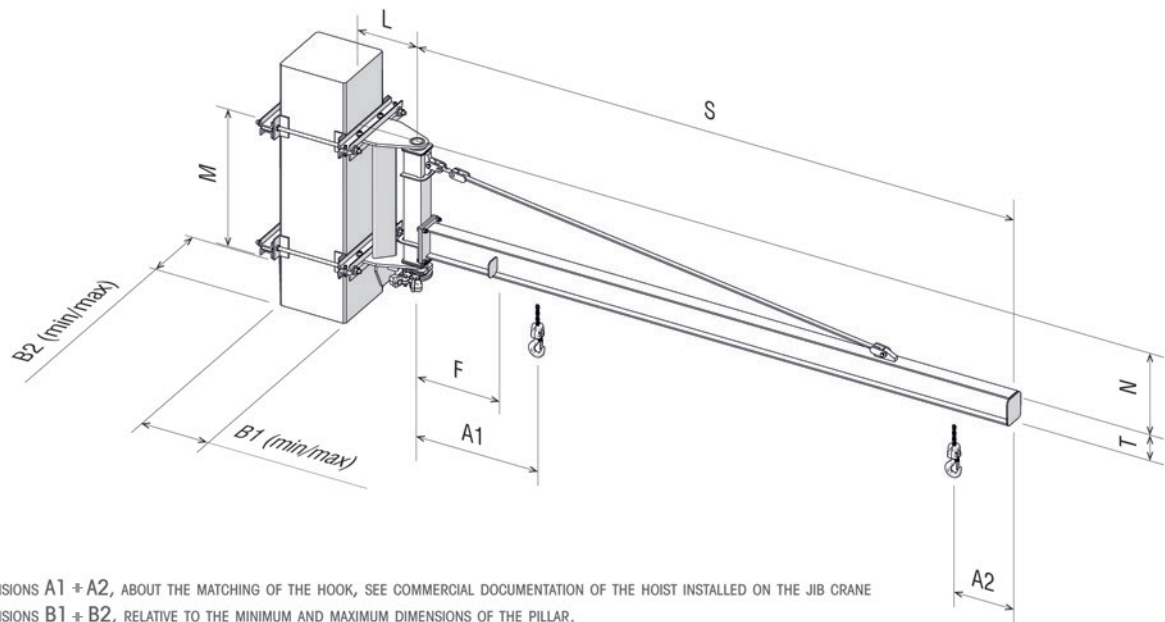


CAPACITY	ARM		HEIGHT		SIZE OF THE JIB	CODE	ARM IN BEAM		OVERALL DIMENSIONS (mm)			WEIGHT	
	NOMINAL	TRUE LENGTH	BASIC COLUMN	UNDER BEAM			IPE OR HEAA		OVERALL DIMENSIONS (mm)			CRANE	COLUMN BY M
	S	mm	H	h			PROFILE TYPE	QUOTE T	L	N	F		
kg	m	mm	m	mm				mm	L	N	F	kg	kg/m
125	3	2980	3	2456	1	BC130T03	IPE 140	140	275	404	490	170	29,2
	4	3980	3	2456	1	BC130T04	IPE 140	140	275	140	550	185	29,2
	5	4980	3	2456	1	BC130T05	IPE 140	140	275	404	610	198	29,2
	6	6000	3.5	2662	2	BC235T06	HEAA 140	128	390	710	787	355	36,2
	7	7000	3.5	2662	2	BC235T07	HEAA 140	128	390	710	857	376	36,2
	8	8000	3.5	2662	2	BC235T08	HEAA 140	128	390	710	917	395	36,2
250	3	3000	3	2456	1	BC130T03	IPE 140	140	275	404	490	170	29,2
	4	4000	3.5	2662	2	BC235T04	IPE 140	140	390	698	677	292	36,2
	5	5000	3.5	2662	2	BC235T05	IPE 140	140	390	698	737	309	36,2
	6	6000	3.5	2662	3	BC335T06	HEAA 140	128	390	710	787	393	50,6
	7	7000	3.5	2662	3	BC335T07	HEAA 140	128	390	710	847	414	50,6
	8	8000	3.5	2662	3	BC335T08	HEAA 140	128	390	710	907	433	50,6
500	3	3000	3.5	2662	2	BC235T03	IPE 140	140	390	698	617	276	36,2
	4	4000	3.5	2662	3	BC335T04	IPE 140	140	390	698	677	329	50,6
	5	5000	3.5	2662	3	BC335T05	IPE 160	160	390	678	737	360	50,6
	6	6000	4	2870	4	BC440T06	HEAA 160	148	520	982	927	595	55,7
	7	7000	4	2870	4	BC440T07	HEAA 160	148	520	982	987	625	55,7
	8	8000	4	2870	4	BC440T08	HEAA 200	186	520	944	1047	743	55,7
1000	3	3000	3.5	2662	3	BC335T03	IPE 140	140	390	698	617	313	50,6
	4	4000	4	2870	4	BC440T04	IPE 180	180	520	950	807	515	55,7
	5	5000	4	2870	4	BC440T05	IPE 180	180	520	950	867	539	55,7
	6	6000	4	2870	5	BC540T06	HEAA 200	186	520	944	927	735	83,2
	7	7000	4	2870	5	BC540T07	HEAA 200	186	520	944	987	776	83,2
	8	8000	4	2870	5	BC540T08	HEAA 200	186	520	944	1047	818	83,2
2000	3	3000	4	2870	4	BC440T03	IPE 180	180	520	950	747	491	55,7
	4	4000	4	2870	5	BC540T04	IPE 180	180	520	950	807	590	83,2
	5	5000	4	2870	5	BC540T05	IPE 240	240	520	890	867	674	83,2



# Technical data – Overall dimensions and weights

Jib cranes “Wall mounted” version “VB-C” series with overbraced arm “T” version

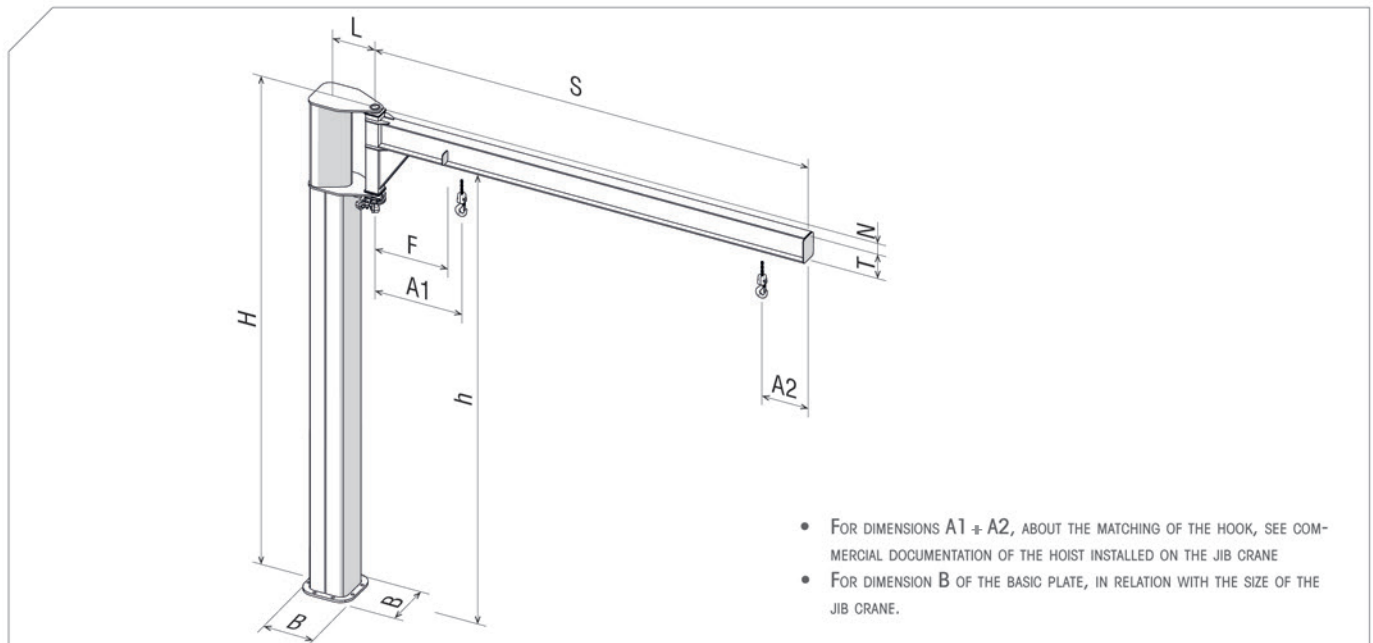


- FOR DIMENSIONS A1 + A2, ABOUT THE MATCHING OF THE HOOK, SEE COMMERCIAL DOCUMENTATION OF THE HOIST INSTALLED ON THE JIB CRANE
- FOR DIMENSIONS B1 + B2, RELATIVE TO THE MINIMUM AND MAXIMUM DIMENSIONS OF THE PILLAR.

CAPACITY	ARM		SIZE	CODE	ARM IN BEAM IPE OR HEAA		OVERALL DIMENSIONS ( mm )				WEIGHT kg
	NOMINAL m	TRUE LENGHT mm			PROFILE TIPO	QUOTE T mm	L	N	F	M	
125	3	2980	1	BM1MET03	IPE 140	140	265	437	490	677	89
	4	3980	1	BM1MET04	IPE 140	140	265	437	550	677	104
	5	4980	1	BM1MET05	IPE 140	140	265	437	610	677	117
	6	6000	2	BM2MET06	HEAA 140	128	337	758	787	1015	218
	7	7000	2	BM2MET07	HEAA 140	128	337	758	857	1015	239
	8	8000	2	BM2MET08	HEAA 140	128	337	758	917	1015	258
250	3	3000	1	BM1MET03	IPE 140	140	265	437	490	677	89
	4	4000	2	BM2MET04	IPE 140	140	337	746	677	1015	155
	5	5000	2	BM2MET05	IPE 140	140	337	746	737	1015	172
	6	6000	2	BM2MET06	HEAA 140	128	337	758	787	1015	256
	7	7000	2	BM2MET07	HEAA 140	128	337	758	847	1015	277
	8	8000	2	BM2MET08	HEAA 140	128	337	758	907	1015	296
500	3	3000	2	BM2MET03	IPE 140	140	337	746	617	1015	139
	4	4000	2	BM2MET04	IPE 140	140	337	746	677	1015	155
	5	5000	2	BM2MET05	IPE 160	160	337	726	737	1015	186
	6	6000	4	BM4MET06	HEAA 160	148	390	1038	927	1331	314
	7	7000	4	BM4MET07	HEAA 160	148	390	1038	987	1331	344
	8	8000	4	BM4MET08	HEAA 200	186	390	1000	1047	1331	462
1000	3	3000	2	BM2MET03	IPE 140	140	337	746	617	1015	139
	4	4000	4	BM4MET04	IPE 180	180	390	1006	807	1331	234
	5	5000	4	BM4MET05	IPE 180	180	390	1006	867	1331	258
	6	6000	4	BM4MET06	HEAA 200	186	390	1000	927	1331	379
	7	7000	4	BM4MET07	HEAA 200	186	390	1000	987	1331	420
	8	8000	4	BM4MET08	HEAA 200	186	390	1000	1047	1331	462
2000	3	3000	4	BM4MET03	IPE 180	180	390	1006	747	1331	210
	4	4000	4	BM4MET04	IPE 180	180	390	1006	807	1331	234
	5	5000	4	BM4MET05	IPE 240	240	390	946	867	1331	318

# Technical data – Overall dimensions and weights

Jib crane "Column mounted" version "VB-C" series with cantilever arm "S" version



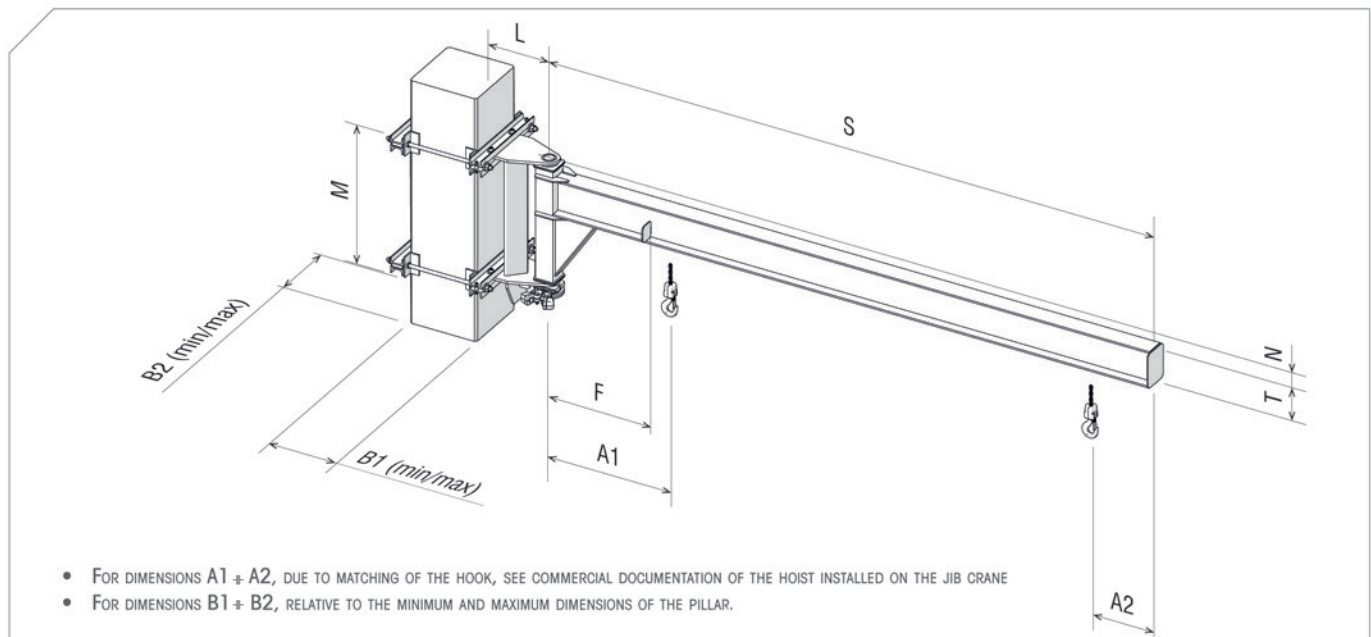
- FOR DIMENSIONS A1 ± A2, ABOUT THE MATCHING OF THE HOOK, SEE COMMERCIAL DOCUMENTATION OF THE HOIST INSTALLED ON THE JIB CRANE
- FOR DIMENSION B OF THE BASIC PLATE, IN RELATION WITH THE SIZE OF THE JIB CRANE.

CAPACITY	ARM		HEIGHT		SIZE OF THE JIB	CODE	ARM IN BEAM		OVERALL DIMENSIONS (mm)			WEIGHT	
	NOMINAL	TRUE LENGTH	BASIC COLUMN	UNDER BEAM			PROFILE	QUOTE T	L	N	F	CRANE	COLUMN BY m
	S	mm	H	h			TYPE	mm					
kg	m	mm	m	mm									
125	2	2000	3	2796	1	BC130S02	IPE 140	140	275	64	500	154	29,2
	3	2960	3	2796	1	BC130S03	IPE 140	140	275	64	500	165	29,2
	4	3960	3	2756	1	BC130S04	IPE 180	180	275	64	560	201	29,2
	5	5000	3	2736	1	BC130S05	IPE 200	200	275	64	620	236	29,2
	6	5935	3.5	3185	2	BC235S06	IPE 240	240	390	75	935	418	36,2
	7	6935	3.5	3185	2	BC235S07	IPE 240	240	390	75	995	449	36,2
	250	2	2000	3	2796	1	BC130S02	IPE 140	140	275	64	500	154
3		2960	3	2756	1	BC130S03	IPE 180	180	275	64	500	184	29,2
4		4000	3.5	3225	2	BC235S04	IPE 200	200	390	75	815	324	36,2
5		4975	3.5	3185	2	BC235S05	IPE 240	240	390	75	875	388	36,2
6		6000	3.5	3155	3	BC335S06	IPE 270	270	390	75	935	488	50,6
7		7000	3.5	3125	3	BC335S07	IPE 300	300	390	75	995	567	50,6
500		2	2000	3.5	3225	2	BC235S02	IPE 200	200	390	75	755	279
	3	3000	3.5	3225	2	BC235S03	IPE 200	200	390	75	755	301	36,2
	4	4000	3.5	3185	3	BC335S04	IPE 240	240	390	75	815	394	50,6
	5	5000	3.5	3155	3	BC335S05	IPE 270	270	390	75	875	452	50,6
	6	6000	4	3586	4	BC440S06	IPE 330	330	520	84	1085	728	55,7
	7	7000	4	3556	4	BC440S07	IPE 360	360	520	84	1145	833	55,7
	1000	2	2000	3.5	3225	3	BC335S02	IPE 200	200	390	75	755	316
3		2935	3.5	3185	3	BC335S03	IPE 140	240	390	75	755	363	50,6
4		4000	4	3616	4	BC440S04	IPE 180	300	520	84	965	602	55,7
5		5000	4	3586	4	BC440S05	IPE 180	330	520	84	1025	679	55,7
6		6000	4	3516	5	BC540S06	IPE 400	400	520	84	1085	906	83,2
7		7000	4	3466	5	BC540S07	IPE 450	450	520	84	1145	1052	83,2
2000		2	2000	4	3616	4	BC440S02	IPE 300	300	520	84	905	518
	3	3000	4	3616	4	BC440S03	IPE 300	300	520	84	905	560	55,7
	4	4000	4	3556	5	BC540S04	IPE 360	360	520	84	965	737	83,2
	5	5000	4	3466	5	BC540S05	IPE 450	450	520	84	1025	896	83,2



# Technical data – Overall dimensions and weights

Jib cranes “Wall mounted” version “VB-C” series with cantilever “S” version

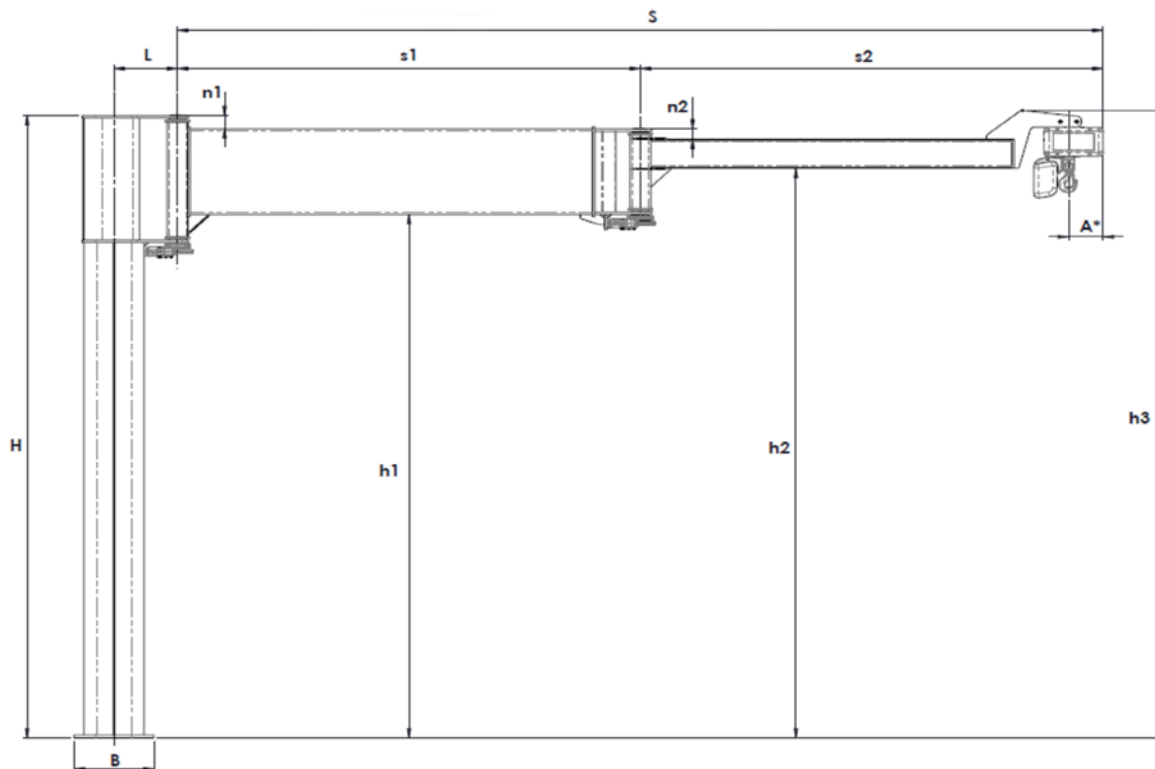


- FOR DIMENSIONS A1 + A2, DUE TO MATCHING OF THE HOOK, SEE COMMERCIAL DOCUMENTATION OF THE HOIST INSTALLED ON THE JIB CRANE
- FOR DIMENSIONS B1 + B2, RELATIVE TO THE MINIMUM AND MAXIMUM DIMENSIONS OF THE PILLAR.

CAPACITY	ARM		SIZE	CODE	ARM IN BEAM IPE OR HEAA		OVERALL DIMENSIONS ( mm )				WEIGHT
	NOMINAL S	TRUE LENGHT			PROFILE TIPO	QUOTE T	L	N	F	M	
kg	m	mm				mm					kg
125	2	2000	1	BM1MES02	IPE 140	140	265	97	500	677	72
	3	2960	1	BM1MES03	IPE 140	140	265	97	500	677	83
	4	3960	1	BM1MES04	IPE 180	180	265	97	560	677	119
	5	5000	1	BM1MES05	IPE 200	200	265	97	620	677	154
	6	5935	2	BM2MES06	IPE 240	240	337	123	935	1015	281
	7	6935	2	BM2MES07	IPE 240	240	337	123	995	1015	312
	250	2	2000	1	BM1MES02	IPE 140	140	265	97	500	677
3		2960	1	BM1MES03	IPE 180	180	265	97	500	677	102
4		4000	2	BM2MES04	IPE 200	200	337	123	815	1015	187
5		4975	2	BM2MES05	IPE 240	240	337	123	875	1015	251
6		6000	2	BM2MES06	IPE 270	270	337	123	935	1015	314
7		7000	2	BM2MES07	IPE 300	300	337	123	995	1015	393
500		2	2000	2	BM2MES02	IPE 200	200	337	123	755	1015
	3	3000	2	BM2MES03	IPE 200	200	337	123	755	1015	164
	4	4000	2	BM2MES04	IPE 240	240	337	123	815	1015	220
	5	5000	2	BM2MES05	IPE 270	270	337	123	875	1015	278
	6	6000	4	BM4MES06	IPE 330	330	390	139	1085	1331	447
	7	7000	4	BM4MES06	IPE 360	360	390	139	1145	1331	552
	1000	2	2000	2	BM2MES02	IPE 200	200	337	123	755	1015
3		2935	2	BM2MES03	IPE 240	240	337	123	755	1015	189
4		4000	4	BM4MES04	IPE 300	300	390	139	965	1331	321
5		5000	4	BM4MES05	IPE 330	330	390	139	1025	1331	398
6		6000	4	BM4MES06	IPE 400	400	390	139	1085	1331	550
7		7000	4	BM4MES07	IPE 450	450	390	139	1145	1331	696
2000		2	2000	4	BM4MES02	IPE 300	300	390	139	905	1331
	3	3000	4	BM4MES03	IPE 300	300	390	139	905	1331	279
	4	4000	4	BM4MES04	IPE 360	360	390	139	965	1331	381
	5	5000	4	BM4MES05	IPE 450	450	390	139	1025	1331	540

# Technical data – Overall dimensions and weights “Articulated Jib”

“Column mounted” Jib crane – “VB-S” series with articulated jib

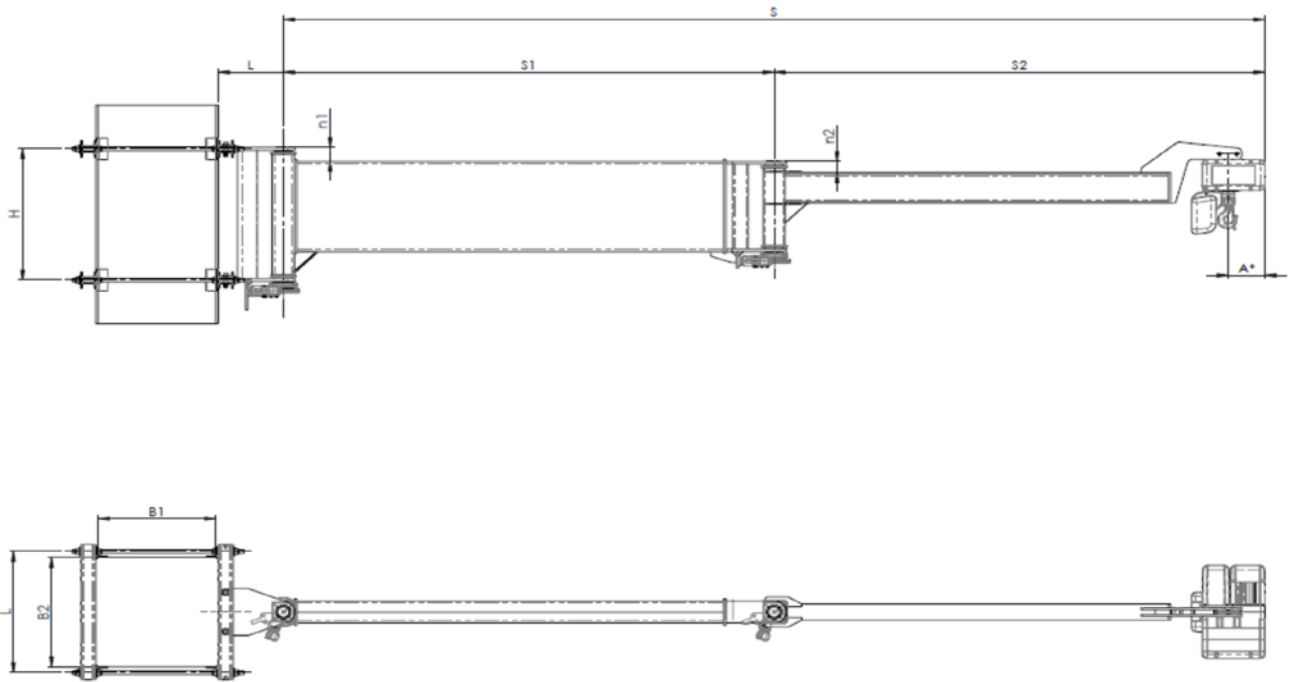


A\* = mm 149 con VK2 e mm 172 con VK3

Capacity	Arm Nominal	Height basic Column	Size of the jib	Code	Overall Dimensions (mm)								Weight	
					S1	S2	h1	h2	h3	L	n1	n2	Crane	Column by M
kg	S	H											kg	kg/m
125	3	3	1	BS130S03	1000	2000	2524	2745	3024	275	64	50	188	29,2
	3	3	1	BS130S03	1500	1500	2524	2745	3024	275	64	50	182	29,2
	4	3	1	BS130S04	1500	2500	2524	2745	3024	275	64	50	194	29,2
	4	3	1	BS130S04	2000	2000	2524	2745	3024	275	64	50	239	29,2
	5	3	1	BS130S05	2000	3000	2524	2745	3024	275	64	50	251	29,2
	5	3	1	BS130S05	2500	2500	2524	2745	3024	275	64	50	263	29,2
	6	3,5	2	BS235S06	2500	3500	2975	3166	3504	390	75	60	470	36,2
	6	3,5	2	BS235S06	3000	3000	2975	3166	3504	390	75	60	490	36,2
250	7	3,5	2	BS235S07	3000	4000	2975	3166	3504	390	75	60	512	36,2
	7	3,5	2	BS235S07	3500	3500	2975	3166	3504	390	75	60	528	36,2
	3	3	1	BS130S03	1000	2000	2524	2745	3024	275	64	50	188	29,2
	3	3	1	BS130S03	1500	1500	2524	2745	3024	275	64	50	182	29,2
	4	3,5	2	BS235S04	1500	2500	2975	3166	3504	390	75	60	373	36,2
	4	3,5	2	BS235S04	2000	2000	2975	3166	3504	390	75	60	389	36,2
	5	3,5	2	BS235S05	2000	3000	2975	3166	3504	390	75	60	412	36,2
	5	3,5	2	BS235S05	2500	2500	2975	3166	3504	390	75	60	428	36,2
500	6	3,5	3	BS335S06	2500	3500	2975	3166	3504	390	75	60	507	50,6
	6	3,5	3	BS335S06	3000	3000	2975	3166	3504	390	75	60	527	50,6
	7	3,5	3	BS335S07	3000	4000	2975	3166	3504	390	75	60	549	50,6
	7	3,5	3	BS335S07	3500	3500	2975	3166	3504	390	75	60	565	50,6
	3	3,5	2	BS235S03	1000	2000	2975	3166	3504	390	75	60	334	36,2
	3	3,5	2	BS235S03	1500	1500	2975	3166	3504	390	75	60	350	36,2
	4	3,5	3	BS335S04	1500	2500	2975	3166	3504	390	75	60	410	50,6
	4	3,5	3	BS335S04	2000	2000	2975	3166	3504	390	75	60	426	50,6
1000	5	3,5	3	BS335S05	2000	3000	2975	3166	3504	390	75	60	449	50,6
	5	3,5	3	BS335S05	2500	2500	2975	3166	3504	390	75	60	465	50,6
	6	4	4	BS440S06	2500	3500	3466	3616	3995	520	84	60	620	55,7
	6	4	4	BS440S06	3000	3000	3466	3616	3995	520	84	60	645	55,7
	7	4	4	BS440S07	3000	4000	3466	3616	3995	520	84	60	660	55,7
	7	4	4	BS440S07	3500	3500	3466	3616	3995	520	84	60	685	55,7
	3	3,5	3	BS335S03	1000	2000	2975	3166	3504	390	75	60	371	50,6
	3	3,5	3	BS335S03	1500	1500	2975	3166	3504	390	75	60	387	50,6
1000	4	4	4	BS440S04	1500	2500	3466	3616	3995	520	84	60	510	55,7
	4	4	4	BS440S04	2000	2000	3466	3616	3995	520	84	60	560	55,7
	5	4	4	BS440S05	2000	3000	3466	3616	3995	520	84	60	590	55,7
5	4	4	BS440S05	2500	2500	3466	3616	3995	520	84	60	620	55,7	

# Technical data – Overall dimensions and weights “Articulated Jib”

“Wall or pillar - mounted” Jib crane – “VB-M” S series with articulated jib



A\* = mm 149 con VK2 e mm 172 con VK3

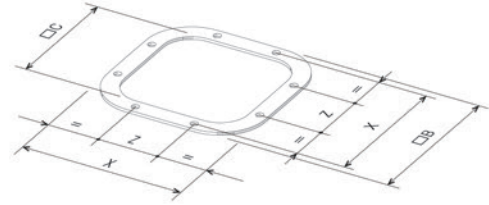
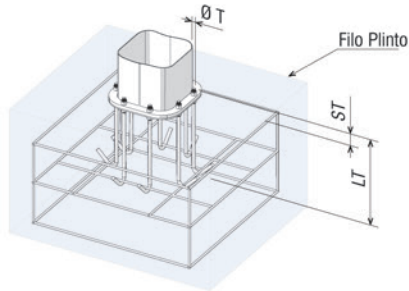
Capacity kg	Arm Nominal S m	Size of the jib	Code	Overall Dimensions (mm)					Weight Crane kg
				S1	S2	L	N1	N2	
125	3	1	BS1MES03	1500	2500	265	64	50	106
	3	1	BS1MES03	1500	1500	265	64	50	102
	4	1	BS1MES04	1500	2500	265	64	50	112
	4	1	BS1MES04	2000	2000	265	64	50	157
	5	1	BS1MES05	2000	3000	265	64	50	169
	5	1	BS1MES05	2500	2500	265	64	50	181
	6	2	BS2MES06	2500	3500	337	75	60	333
	6	2	BS2MES06	3000	3000	337	75	60	353
	7	2	BS2MES07	3000	4000	337	75	60	375
7	2	BS2MES07	3500	3500	337	75	60	391	
250	3	1	BS1MES03	1000	2000	265	64	50	106
	3	1	BS1MES03	1500	1500	265	64	50	102
	4	2	BS2MES04	1500	2500	337	75	60	236
	4	2	BS2MES04	2000	2000	337	75	60	252
	5	2	BS2MES05	2000	3000	337	75	60	275
	5	2	BS2MES05	2500	2500	337	75	60	291
	6	2	BS2MES06	2500	3500	337	75	60	333
	6	2	BS2MES06	3000	3000	337	75	60	353
	7	2	BS2MES07	3000	4000	337	75	60	375
7	2	BS2MES07	3500	3500	337	75	60	391	
500	3	2	BS2MES03	1000	2000	337	75	60	197
	3	2	BS2MES03	1500	1500	337	75	60	213
	4	2	BS2MES04	1500	2500	337	75	60	236
	4	2	BS2MES04	2000	2000	337	75	60	252
	5	2	BS2MES05	2000	3000	337	75	60	275
	5	2	BS2MES05	2500	2500	337	75	60	291
	6	4	BS4MES06	2500	3500	390	84	60	339
	6	4	BS4MES06	3000	3000	390	84	60	364
	7	4	BS4MES07	3000	4000	390	84	60	379
1000	7	4	BS4MES07	3500	3500	390	84	60	404
	3	2	BS2MES03	1000	2000	337	75	60	197
	3	2	BS2MES03	1500	1500	337	75	60	213
	4	4	BS4MES04	1500	2500	337	84	60	229
	4	4	BS4MES04	2000	2000	390	84	60	279
	5	4	BS4MES05	2000	3000	390	84	60	309
5	4	BS4MES05	2500	2500	390	84	60	339	



# Technical data – Overall dimensions and weights

## Of the jib cranes Liftstyle “VB” series

BASIC PLATES AND FOUNDATION FRAMES FOR JIB CRANES “COLUMN MOUNTED” VERSION “VB-C” SERIES



SIZE OF THE JIB CRANE	1	2	3	4	5	
OVERALL DIMENSIONS OF THE BASIC PLATES AND FOUNDATION FRAMES	□ C ( mm )	264	354	494		
	□ B ( mm )	345	450	630		
	X ( mm )	305	404.5	564		
	Z ( mm )	126	167.5	234		
CHARACTERISTICS OF THE STAY BOLTS ( MINIMUM BREAK RESISTANCE OF ONE STAY BOLT = 430 N/mm <sup>2</sup> )	Ø T ( mm )	16	20	30		
	LT ( mm )	450	550	600		
	ST ( mm )	45	55	80		

NOTE: THE FOUNDATION PLINTH MUST BE DIMENSIONED CONSIDERING THE MAXIMUM PRESSURE ALLOWED BY THE GROUND AND CONSIDERING THE MOMENTUMS AND REACTIONS.

### FIXING TO THE FLOOR WITH CHEMICAL BOLTS OF THE JIB CRANES “COLUMN MOUNTED” VERSION “VB-C” SERIES

THE JIB CRANES “COLUMN MOUNTED” VERSION “VB” SERIES, CAN BE FIXED DIRECTLY WITH CHEMICAL BOLTS WITHOUT COUNTER PLATE, PROVIDING THAT THEY ENSURE THE CHARACTERISTICS OF THE FLOOR STATED IN THE TABLE, WITH THE USE OF THE FOLLOWING FIXING KIT:

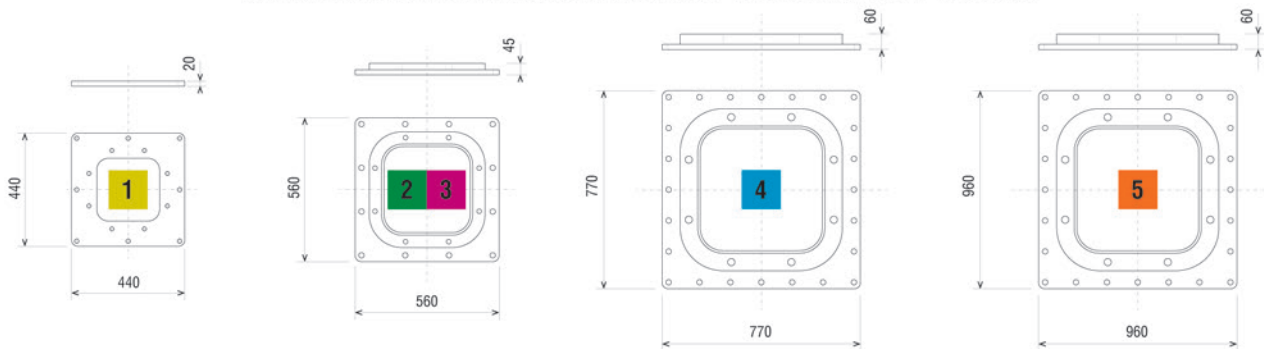
- N° 8 CHEMICAL BOLTS M16 COMPOSED BY VIAL HILTI HVU WITH THREADED BARS HILTI HAS
- N° 8 SPECIAL WASHERS ( EXCEPTED THE SIZE 1 )

NOTE: FIXING BY MEANS OF CHEMICAL BOLTS DIFFERENT BY THOSE PRESCRIBED OR WITH MECHANICAL EXPANSION MUST BE APPROVED SUITABLE BY THE CUSTOMER.

SIZE OF THE JIB CRANE	1	2	3	4	5
CLASSE RCK MIN. OF THE CONCRETE ( kg/cm <sup>2</sup> )					C 20/25
TYPE OF THE CHEMICAL VIAL AND BOLTS ( VIAL HILTI HVU WITH BARS HILTI HAS )					M16
Q.TY OF THE BOLTS ( N° )					8
MINIMUM THICKNESS OF THE FLOOR ( mm )					170
HOLES DIAMETER ( mm )					18
DEPTH OF THE HOLE IN THE CONCRETE FLOOR ( mm )					125

NOTE: THE JIB CRANES SIZE 1 AND 2 CAN BE FIXED TO THE FLOOR WITH MINIMUM THICKNESS OF 140 mm, WITH THE COUNTER PLATE AS PER THE NEXT TABLE

COUNTER PLATE FOR FIXING WITH CHEMICAL BOLTS OF THE JIB CRANES “COLUMN MOUNTED” VERSION “VB-C” SERIES



JIB CRANE SIZE AND COUNTER PLATE TYPES	1	2	3	4	5
CLASSE RCK MIN. OF THE CONCRETE ( kg/cm <sup>2</sup> )	C 20/25	C 20/25	C 20/25	C 20/25	C 20/25
TYPE OF THE CHEMICAL VIAL AND BOLTS ( VIAL HILTI HVU WITH BARS HILTI HAS )	M12	M16	M16	M16	M20
Q.TY OF THE BOLTS ( N° )	8	12	24	24	
MINIMUM THICKNESS OF THE FLOOR ( mm )	140	170	170	220	
HOLES DIAMETER ( mm )	14	18	18	24	
DEPTH OF THE HOLE IN THE CONCRETE FLOOR ( mm )	110	125	125	170	

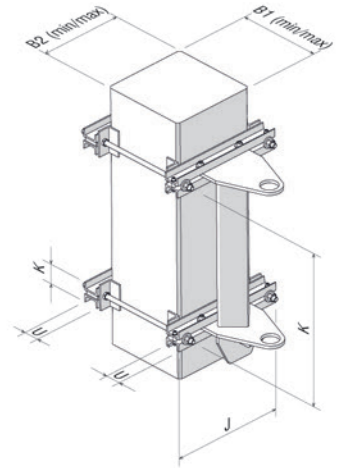
NOTE: THE FIXING BY MEANS OF CHEMICAL BOLTS REQUIRES CHECK OF SUITABILITY OF THE FLOOR, CONSIDERING THE MOMENTUM AND REACTIONS.

# Technical data – Overall dimensions and weights

Of the jib cranes Lifestyle "VB" series

## BRACKET AND STAYBOLTS FOR JIB CRANES "WALL MOUNTED" VERSION "VB-M" SERIES INSTALLED ON PILLAR

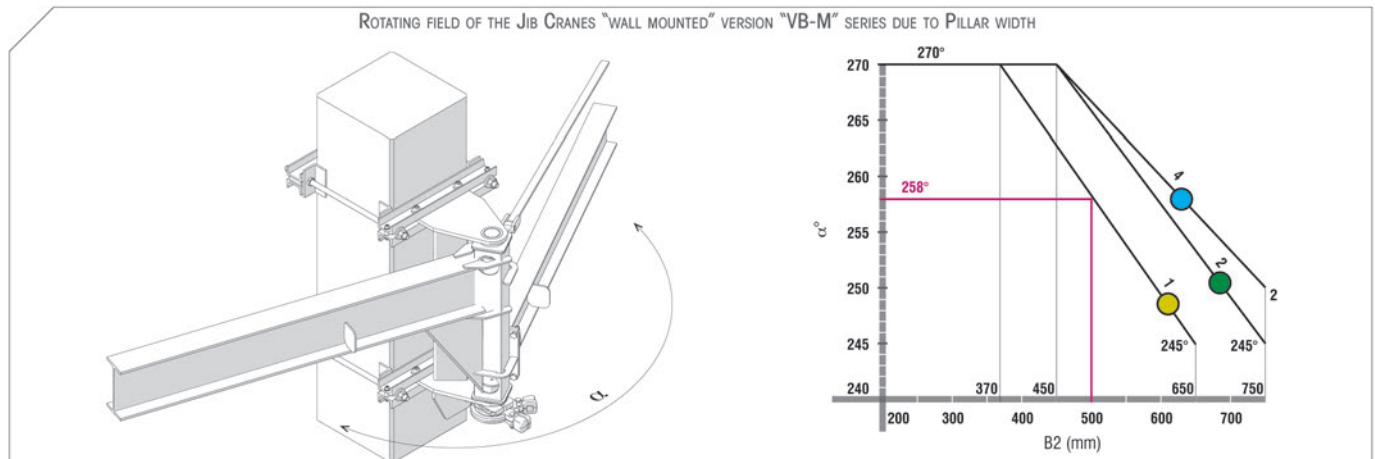
SIZE OF THE JIB CRANE		1	2	4
FIXING STAYBOLT ON PILLAR	Ø	M16	M24	M30
VERTICAL DISTANCE BETWEEN STAYBOLTS	y (mm)	600	900	1200
BRACKET WIDTH	U (mm)	60	80	100
BRACKET HEIGHT	K (mm)	77	115	131
SHORT BRACKETS - "C"	J (mm)	450	560	600
PILLAR DIMENSIONS B2	MIN. (mm)	200	280	300
	MAX. (mm)	330	400	400
MEDIUM BRACKETS - "M"	J (mm)	620	720	750
PILLAR DIMENSIONS B2	MIN. (mm)	330	400	400
	MAX. (mm)	500	550	550
LONG BRACKET - "L"	J (mm)	770	920	950
PILLAR DIMENSIONS B2	MIN. (mm)	500	550	550
	MAX. (mm)	650	750	750
PILLAR DEPTH B1	MAX. (mm)	780	750	700



- THE KIT CONSISTS OF N° 4 STAYBOLTS FOR FIXING ON PILLAR WITH LENGTH OF 800 mm EACH.
- FOR PILLAR WITH DIMENSION B1 MORE THAN STATED IN THE TABLE ARE AVAILABLE, ON REQUEST, STAYBOLTS WITH LENGTH 1.000 mm OR 1.200 mm

NOTE: THE INSTALLATION OF THE JIB CRANE ON PILLAR REQUIRES CHECK OF SUITABILITY OF THE SAME, CONSIDERING THE MOMENTS AND REACTIONS.

## ROTATING FIELD OF THE JIB CRANES "WALL MOUNTED" VERSION "VB-M" SERIES DUE TO PILLAR WIDTH

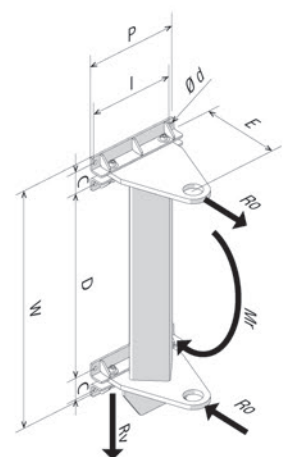


THE ROTATING ANGLE  $\alpha^\circ$  MAX. OF  $270^\circ$  IS POSSIBLE FOR PILLAR WITH WIDTH B2 MAX. OF 370 mm FOR SIZE 1 AND OF 450 mm FOR SIZE 2 E 4. FOR PILLARS WITH MORE WIDTH THE ROTATING ANGLE  $\alpha^\circ$  DECREASES, AS STATED IN THE DIAGRAM, UP TO A MINIMUM OF:  $245^\circ$  FOR SIZE 1 ON PILLAR WIDTH OF 650 mm,  $245^\circ$  FOR SIZE 2 ON PILLAR WIDTH OF 750 mm AND  $250^\circ$  FOR SIZE 4 ON PILLAR WIDTH OF 750 mm.

EXAMPLE: JIB CRANE SIZE 1 ON PILLAR WIDTH OF 500 mm, WITH MEDIUM BRACKETS "M", ROTATING ANGLE  $\alpha^\circ = 258^\circ$

## BRACKETS AND FIXING BOLTS FOR JIB CRANES "WALL MOUNTED" VERSION "VB-M" SERIES ON WALL

SIZE OF THE JIB CRANE		1	2	4
N° 8 FIXING BOLTS ON WALL	Ø	M12	M16	M24
CHARACTERISTICS OF THE BRACKETS ON WALL - "P"	P (mm)	310	400	450
	l (mm)	280	365	400
	C (mm)	77	90	122
	D (mm)	523	810	1074
	E (mm)	262	334	385
	W (mm)	717	1041	1383
	Ø d. (mm)	15	19	29



NOTE:

THE INSTALLATION OF THE JIB CRANE ON PILLAR REQUIRES CHECK OF SUITABILITY OF THE SAME, CONSIDERING THE MOMENTS AND REACTIONS.

# ELECTRIC CHAIN HOISTS

## “VK” SERIES

The electric chain hoists “VK” series, for capacity from 125 to 2.000 kg, are designed and manufactured using cutting-edge design techniques, which use a 3D CAD system integrated with finite element methods. The rigorous life and reliability testing, which the electric chain hoists “VK” are submitted in the modern experience department specifically set up at the Manzelli, assure compliance to the standard rules and project data, within the highest quality.

### A RIGOROUS PROCESS CONTROL

Liftstyle S.r.l. produces, in a highly serialized way, electric chain hoists “VK”, with the benefit of industrialized production processes controlled by a quality system conducted according to UNI EN ISO 9001:2000.

### THE ELECTRIC CHAIN HOISTS “VK” SERIES AND THEIR TROLLEYS “VT” SERIES

- The electric chain hoists “VK” series, for capacity from 125 to 2000 kg, are machine generally used to lift an unguided load by means of a hook or handling accessories suitable for the purpose.
- The trolleys “VT” series, electric or manual, suitable to run on a beam, when combined with a hoist ensures the integrated handling of lifting and horizontal movements of the load.
- The electric chain hoists “VK” series with related trolleys “VT” series can be fitted on monorails or can constitute the lifting unit of other machines in which they have been incorporated in lifting, such as: jib cranes, bridges crane, etc.
- The electric chain hoists “VK” series are also used for lift loads in a fixed position.

### ELECTRIC CHAIN HOISTS “VK” WITH ONLY 1 FALL CHAIN = SAFETY AND RELIABILITY

- All the electric chain hoists “VK” series, for capacity from 125 to 2000 kg, besides being characterized by a modern and compact design that ensures maximum use of hook travel, are designed exclusively to a single fall of the chain. This solution provides maximum safety for the operator because, due to the absence of the transmission reel in the hook block, completely eliminate all potential causes of hazards due to possible kinking of the chain. Moreover, for the absence of transmission reels in the execution to a single fall of the chain, the wear of the chain itself is reduced to a minimum with the increase of its life. This leads to an important reduction of maintenance costs and to the highest functional reliability.
- Safety and Reliability = 3 years warranty from the delivery date.





# THE RANGE OF ELECTRIC CHAIN HOISTS

## “VK” SERIES:



The range of the electric chain hoists is produced in 3 sizes: “VK2” - “VK3” - “VK4”; for capacity from 125 to 2.000 kg; in the FEM service groups FEM 2m (ISO M5) and FEM 3m (ISO M6); with one or two lifting speed (4 m/min - 8 m/min - 16 m/min or 4/1 m/min - 8/2 m/min - 16/4 m/min); with standard lifting height up to 12 m.

### STANDARD EXECUTIONS:

- **Fixed configuration**, suspended with eyebolt or hook on request;
- **Hoist with manual trolley**, the horizontal movement is done by pushing of the load;
- **Hoist with electric trolley**, the horizontal movement is done by an electric motor and is controlled by the hoist push button panel.

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