manual and electric jib cranes

series

GBA
GBP
CBB
MBB
CBE
MBE
GBR

donati

GBA, GBP, CBB, MBB, CBE, MBE, GBR series

JIB CRANES

*The **jib cranes** made by Donati Sollevamenti offer the most complete range of solutions for the handling of loads up to 10.000 kg, based on in-depth knowledge of the most varied applications and on more than 70 years of experience in lifting.*

Mass production carried out with industrialised processes allows the production via economies of scale of completely reliable cranes which are technically innovative and offer excellent value for money.

The quality of the components used and the excellent finish of the steel structures as well as the quality system certified UNI EN ISO 9001: 2008 allows us to offer a product of superior quality, which is long-lasting and in line with the latest international regulation standards.

The jib cranes are part of the range of products for lifting built by Donati, the leading Italian company and one of the biggest at world level in the lifting sector.

DONATI SOLLEVAMENTI S.r.l. designs and builds jib cranes and wire rope hoists.
This harmony in design and construction ensures perfect integration of components and allows us to offer the market 3 years of warranty.

donati

DESIGN, CONSTRUCTION AND RANGE

The jib cranes, manually or electrically rotated in column- or wall-mounted models, are designed to handle goods inside a plant, in a large square or to serve operative positions.
The jib cranes have three functions:
Lifting a load vertically using the hook of the lifting unit, generally consisting of a DMK chain hoist or a DRH wire rope hoist;
Travel the load with the help of a hoist-carrying trolley, electric or manual, which run along the jib of the crane (with the exclusion of the crane with an articulated arm where the hoist normally does not run with the trolley because the hoist is fixed at the ends of the arm);
Rotating the load, around the connection axis of the arm, using a manual push action on the load itself or electrically by means of a motor reducer, using the circular area underneath it, bound by the rotation range of the arm.

The jib cranes are available in standard models for loads from 63kg to 10.000kg and jibs from 2m to 10.5 m in the following combinations:

Manually rotated jib cranes, maximum lifting capacity 2.000kg
- GBA column-mounted series, rotation 300°
- GBP wall-mounted series, rotation 270°

Jib cranes with articulated arm, maximum lifting capacity 500kg
- CBB column-mounted series, manually rotated 360°
- MBB wall-mounted series, manually rotated 360°

Jib cranes with motorised arm, maximum lifting capacity 2.000kg
- CBE column-mounted series, electrically rotated 300°
- MBE wall-mounted series, electrically rotated 270°

Continuously electrically rotated jib cranes, maximum lifting capacity 10.000kg
- GBR column-mounted series, electrically rotated 360°

CONSTRUCTION SPECIFICATIONS

Modularity of the components
All the jib cranes built by Donati Sollevamenti Srl are made according to the conception of modular components which assembled together in relation to commercial needs, as well as the standard versions always available from the warehouse, allow the rapid, economical realisation of numerous standardised and special applications. The base components, columns, brackets and arms, thanks to their extreme compactness are assemblable together so as to guarantee the maximum use of the hook run and, thanks to their minimum lateral encumbrance, allow the optimal use of the area in which the jib crane operates.

The column-mounted model
The column-mounted crane consists of a supporting column, made of press-forged steel with a tubular structure with a polygonal section. This allows a high rigidity and stability of the crane and is fixed to the base with a base plate and a system of bolts and log bolts. In the upper part a pair of plates support the arm and allow it to rotate.

Support bracket
The wall-mounted jib crane consists of a bracket support structure. This is formed by a pair of plates made of press-forged steel, fixed to the wall or anchored to a pillar with staybolts or screws which act as a support to the arm and allow it to rotate.

Rotating arm
The arm, rotating around its own axis, consists of a supporting girder for the run of the hoist-carrying trolley.
Depending on the model it can be made in profile or channel version designed by Donati.

The braking device of the arm
The arm of the manually rotated jib crane is fitted in all models with a braking system.
The brake, with clutch with asbestos-free friction material, allows the regulation of the force of rotation of the arm and ensures the stability of positioning.

Fixing systems of the crane
Foundation frame with log bolts
The jib cranes are generally designed to be fixed to the ground using the foundation frame with log bolts inserted in a foundation plinth.
Chemical dowelling
The fixing of the column to the floor can be done using chemical dowelling, also with a counterplate where necessary which allows better distribution of forces.
The brackets and staybolts unit
This is used for fixing the bracket jib crane to a supporting pillar and is fitted with a pressure screws system which guarantees a better adhesion of the staybolts to the pillar.

Donati lifting equipment
Safe, versatile DMK electric chain hoists are used and for higher loads the DRH electric wire rope hoists with 1 or 2 lifting speed and moving speeds.

The height of columns and the length of arms
The range of the jib cranes is characterised by a vast availability of standard models and made-to-measure in special models.
All the cranes with a column of "base" height and also in half-metre variation the cranes up to a top height of two metres as shown in the following table are standard models:

"Standard" heights of the columns (m)							
Series	Crane Height	Dimension	Height "Base"	other "Standard" heights			
GBA-CBB-CBE	R-S	H	3	3.5	4	4.5	5
	T-U	H	3.5	4	4.5	5	5.5
	V-Z	H	4	4.5	5	5.5	6
GBR	2-3-4-5-6	h	4	4.5	5	5.5	6

All the cranes with columns of heights different from the standard ones with "made to measure" heights are made in special execution or exceeding two metres or of a lower height with respect to the "base" column. Moreover the cranes with an arm of a length different to the standard ones shown in the relevant technical tables are special models.

Finishing
Protection from atmospheric agents and environmental ones (dust, gas, etc.) is guaranteed by the varnishing treatment which includes the application of yellow paint with a base coat of a thickness of 40 microns and a top coat of thickness of 40 microns, subject to preparation of the surfaces by metallic sandblasting with SA2 grade.
The drying in an oven for 40 minutes at a temperature of 80° C concludes the cycle.

Service class
The structural elements of the manually or electrically rotated, column-mounted or wall-mounted, jib cranes are dimensioned in the class of service ISO A5 (according to ISO 4301/88).

Protection and insulation of electrical parts
Rotation motor: Protection IP54 (motors) IP23 (brakes); insulation class "F" (where necessary)
Electrical panel: Minimum protection IP55 – Maximum power of insulation 1500V (where necessary)
Push-button panel: Protection IP65 - Maximum tension of insulation 500V (where necessary)
Collector: Protection IP65 – Maximum power of insulation 600V (where necessary)
Rotation limit switch: Protection IP65 – Maximum power of insulation 500V (where necessary).

Connector blocks: Minimum protection IP65 – Maximum power of insulation 1500V
Cables: CEI 20/22 – Maximum power insulation 450/750V.

Electrical power supply
The electrical jib cranes are designed to be powered with alternate electric power three-phase of: 400V according to IEC38-1.
The CBE series "column" and MBE "wall" electrically rotated jib cranes must be powered with alternate electrical power with three-phase power +neutral+earth (-3+N+T).

Environmental conditions of use
Use temperature: minimum –10°C; maximum +40°C
Maximum relative humidity: 80% - Maximum altitude 1000m above sea level.
The standard **crane** must be installed in a ventilated environment, free from corrosive vapours (acid vapours, saline clouds, etc) and is designed for use in an indoor area (protected from bad weather).
On request the crane can be supplied in the version designed for outdoor use.

Noise
The level of acoustic pressure emitted by the hoist is always lower than 85dB(A).
The incidence of environmental characteristics such as transmission of sound by metallic structures, reflection caused by combined machines and walls, is not included in the figure shown.

SPECIAL VERSIONS

On request the following can be supplied for all the cranes:

Special anticorrosive **paint.**
Protection **cover** for motors and control panel.
Rotation **motor** with stainless steel brake blocks and /or tropicalisation (for electrically rotated cranes).
Anticondensation **heaters.**
Area limiters.

Supplementary electrical safety limit **switches.**
Power supply **voltages** different from the standard ones (for electrically rotated cranes).
Columns with a double arm.
Personalised column **heights** and arm **lengths.**

MANUALLY ROTATED JIB CRANES

GBA *"column" series*
Maximum rotation field 300°
(290° in the T version)

GBP *"wall" series*
Maximum rotation field 270°
(250° in the T version)

The manually rotated **jib cranes** in the **GBA"column" series** and the **GBP "wall" series** are designed for the handling of goods inside a plant, in a square or to serve operative positions.
The standard models are available for **lifting capacities from 125 kg to 2000kg and jibs from 2m to 8m**
The **C-T-H** versions are designed according to the three different versions of the arm.

"C" Channel version for lifting capacities from 63kg to 1000kg and jibs from 2m to 7m
The arm is made using a special section bar made of folded sheet metal, inside which the hoist-carrying trolley run.
The arm is fitted with one or two staybolts which support the profile and connect it to the rotation tube.
This version is characterised by the extreme ease of handling due to the low inertia derived from its own reduced weight.
The arm is normally fitted with a special "channel" profile trolley, which allows it to be pushed with maximum fluidity.

"T" cantilever version, for lifting capacities from 63kg to 2000kg and jibs from 2 m to 5 m
The arm is made using a laminate T-beam form: the hoist-carrying trolley run on the lower flange of the T-beam.
The girder is self-supporting and cantilevered, so it has no support staybolts, and it is directly integral with, via suitable reinforcements, the rotation tube.
This version allows the optimum use of the

available space at a height due to the absence of staybolts and allows the maximum use of the hook run. The arm allows the addition of electrical or mechanical push-trolleys.

"H" overbraced version, for lifting capacities from 125kg to 2000kg and jibs from 4m to 8m
The arm is made using a H-beam section, the hoist-carrying trolley run on the lower flange of the H-beam. The arm is fitted with one or two staybolts to support the profile which connects it to the rotation tube.
This version allows the use of the jib crane for loads and jibs superior to those possible with the C and T versions. The arm allows the addition of electrical and mechanical push-trolleys.

Electrical power supply
This is designed to power the hoist and/or electrical trolley, which run along the jib of the crane.
It uses a connection box for the connection between the line and the power festoon cable, situated on the top of the column crane or near the bracket support in the wall version.

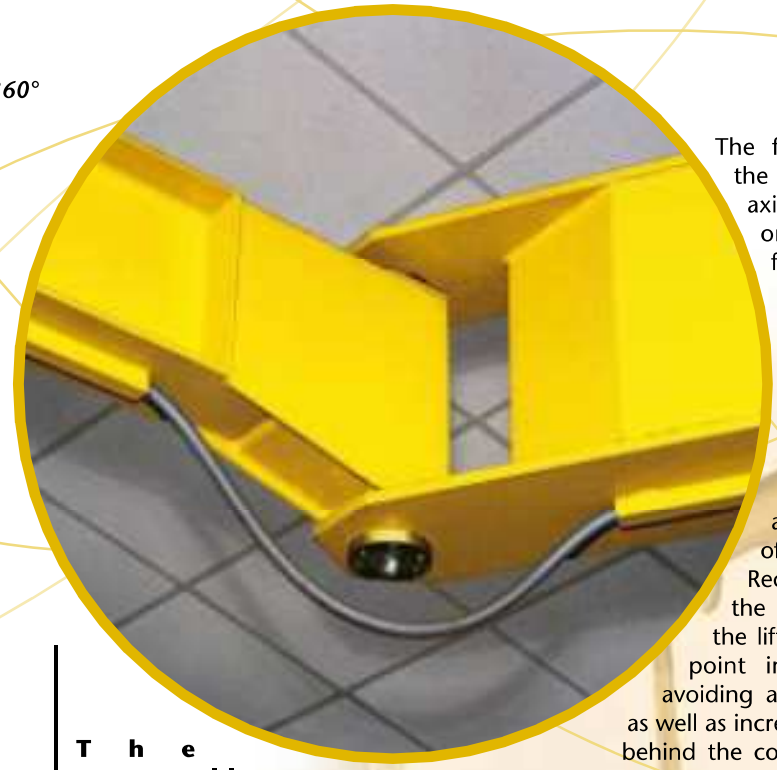
The column crane can be supplied, on request, with a **main on/off line switch** which can be padlocked. The distribution of energy takes place via a flat festoon cable which slides on trolley along the arm.

Technical cards on pages 18-19-20

JIB CRANES WITH AN ARTICULATED ARM

***CBB**: "column with articulated arm" series*
Maximum rotation field 360°

***MBB**: "wall with articulated arm"series*
Maximum rotation field 360°



The manually rotated jib cranes with an articulated arm in the CBB "column" series and the MBB "wall" series, are designed for the handling of goods inside a plant or a building site where the presence of fixed obstacles would impede the free rotation in terms of the mobility of the arm when it is formed by one rigid element.
The cranes **"with an articulated jib"** are fitted with an arm made of two hinged "pantograph-shaped" segments which allow it to avoid fixed obstacles during rotation.
The standard models are available for **lifting capacities from 125 kg to 500 kg and jibs from 2 m to 7 m.**
In the version designed for the application of manipulators the maximum load is 125 kg.

Articulated jib
The jib cranes, both in the wall and column versions, are fitted with an "articulated arm", which rotates on its own axis.
The articulated arm is made using two cantilevered girders, which form the two hinged segments (semi-arms).
The semi-arm on the "tie" side is generally made in boxed casing, while the "cantilever" side can be made using a T-beam or a tubular profile.

The first segment (semi-arm on the tie side) rotates around the axis situated on the column or on the bracket where it is fastened.
The second segment (semi-arm on the cantilever side) rotates on the ends of the first segment and is fitted with a planarity regulation system.
The two semi-arms can be of different lengths and are able to rotate independently of each other.
Reciprocal mobility, thanks to the "pantograph" effect, allows the lifting equipment to reach any point in the area to be served, avoiding any obstacles to the rotation as well as increasing the surface area served behind the column or fixing pillar of the bracket.
The entire articulated arm is directly integral with, via suitable reinforcements, the rotation tube.
The two semi-arms, rotating on their own rotation axes via bearings, allow the optimal use of the available space at a height due to the absence of staybolts.

Electrical power supply
This powers the hoist and for the connection between the line and the power cable has:
Terminal box near the support bracket in the MBB wall version.
A **main on/off line switch** which can be padlocked is positioned on the column in the CBB version.
The distribution of energy takes place via cable.
Electrical line with round multipolar flexible cable inserted in a channel welded under the flange of the jib.
Push-button panel hanging from the hoist.

crane with an articulated arm

Technical cards on pages 21 - 22 - 23

JIB CRANES WITH MOTORISED ARM

***CBE**: "column" series*
Maximum rotation field 300°
(290° in the T version)

***MBE**: "wall" series*
Maximum rotation field 270°
(250° in the T version)

The electrically rotated jib cranes with a motorised arm in the CBE"Column" version or the MBE "wall" version are designed for handling goods in areas which are difficult to reach, where the presence of fixed obstacles would impede the practicability of the working area.
They are used also when the frequency of manoeuvres, the entity of the load and the push forces, could cause excessive wear and tear if carried out manually.
Available in standard versions for **lifting capacities from 250 kg to 2000kg and jibs from 2m to 8m,** in **T and H** models according to the different layouts of the arm.

"T" cantilever version, for loads from 500kg to 2000kg and jibs from 3m to 6m
Made using solid section T-beam: the hoist-carrying trolley run on the lower flange of this.
The girder is self-supporting and cantilevered, so without support staybolts, and is directly integral with, via suitable reinforcements, the rotation tube.
This version allows the optimal use of the available space at a height due to the absence of staybolts and allows the maximum use of the hook run.
The arm allows the addition of electrical or mechanical push-trolleys.

"H" overbraced version, for lifting capacities from 250 kg to 2000kg and jibs from 4m to 8m
Made using an H-beam section girder, where the hoist-carrying trolley run on the lower flange. The arm is fitted with one or two staybolts to support the profile which connects it to the rising rotation tube.
This version allows the use of the jib crane for lifting capacities and ranges superior to those of the T version.
The arm allows the addition of electrical or mechanical push-trolleys.

Rotating arm
The arm, swivelling on its own axis on revolving bearings, is formed by a supporting girder for the run of the hoist-carrying trolley.

The rotation mechanism
Formed by a motor reducer fixed vertically in the lower part of the support bracket, made with a reducer of epicycloidal type, with gears in a permanent oil and self-braking conical brake motor.
The drive sprocket of the motor reducer fits together with a toothed crown integral with the arm which it powers.The progressive starting up and braking are ensured by a variator of frequency (inverter) powered by alternate monophase power with 230V voltage.

Electrical power supply

To power the hoist and the trolley which run along the arm of the crane as well as the rotation motoreducer.

The power supply includes **two electrical control panels**, one for the control of the lifting and travel unit of the hoist, while the rotation control equipment is integrated with the motoreducer.

Inside the panels the contactors for the control of all the movements of the crane are positioned. The control circuits are low voltage (48V) obtained via a transformer protected by fuses.

An easy-to-use connection terminal box, with numbered terminals, ensures simplicity and safety of the cabling of the cables related to all the external functions making any inspection easy to perform.

Power line to power the trolley-hoist formed by flexible flat multipolar cables festooned on the sliding trolleys on the lower flange of the beam.

Push-button control panel, suspended on the hoist, with a case in shockproof thermoplastic, supported by a self supported round multipolar cable.

When necessary it is fitted with a rapid socket with obliged polarity to make it easier to assemble and to replace.

On request an independent, sliding, push-button panel can be installed along the jib of the crane, via cable-carrying sleds running inside a channel profile.

Acoustic alarm, when included, controlled by an "alarm" button serves the function of acoustic warning to indicate any dangerous situations during handling.

Electric safety **limit switch** on the rotation movements, installed as standard to delineate the rotation field of the arm of the crane.

Working on the auxiliary circuits at low voltage, two thresholds of intervention both in right rotation and left, also carries out the emergency function in safety if there is any breakdown or malfunctioning of the first threshold of intervention.

For the connection to the line there is:

- on the jib crane a main on/off line switch which can be padlocked
- on the bracket crane a connector block.

Powered by alternate electric power with three-phase voltage + neutral+earth (- 3+N+T).

Technical cards on pages 24-25

360° ELECTRICALLY ROTATED JIB CRANES

Series GBR: 360° slew

The GBR series electrically rotated jib cranes are used to handle loads whose mass (high or bulky) does not allow manual handling. They are also used when fixed obstacles impede the practicability of the working surface.
They are the ideal solution for handling:

- in outdoor squares or deposits
- on wharves, to load and unload materials for watercraft
- on wharves to haul boats
- on loading ramps, for handling materials for lorries
- for services of big operating units or assembling machines

Available as standard for **lifting loads from 1000kg to 10.000kg and jibs from 4m to 10.5m.**

Column
Made of press-forged steel section welded to the tubular structure with polygonal section it allows a high rigidity and stability; it is fixed with a base plate and a system of bolts and logbolts. The upper part is fitted with a flange for fixing the rotation thrust bearing.

Rotating arm
This is formed by a supporting girder and, in relation to the lifting capacity and/or the jib lenght, can be made with an H beam or with a box beam designed to guarantee the maximum flexotorsional stability. In the construction of the box beam high-quality section steel is used and welding carried out with continuous line procedure to ensure optimal safety conditions and operative reliability of the crane.
It is fitted with a flange with holes for the application of the thrust bearing to which it is fixed using high resistance bolts.
The rotation of the arm of the crane, which is mounted on a rotating thrust bearing, is ensured via a motoreducer.
The circular area served by the arm can, according to necessity, be limited by electrical limit switches, or allow continual rotation, without end, of the arm itself in both directions by a collector ring.

Rotation mechanisms
Base bearing or thrust bearing, able to support both axial pushes, due to vertical forces and the tilting momentum due to the movement.

Motoreducer, fitted on the arm, fitted with a self-braking motor with progressive start-up and braking where the sprocket, keyed on the slow shaft, fits together with the internal toothing of the thrust bearing to which it gives movement.

Fixing system
The foundation frame with log bolts is supplied, on request, for fixing the column to the base (foundation plinth).

Electrical power supply
Made for powering the hoist and trolley which run along the arm of the crane as well as to power the rotation motoreducer and includes **two electrical control panels,** one to control the lifting and moving on board the trolley/hoist unit, while the control apparatus of the rotation motoreducer is integral with to the arm. Inside the panels there are the contactors for the control of all the movements of the crane, as well as protection fuses against short circuits.
The control circuits are at low voltage obtained via a transformer protected by fuses. A connection terminal box, with numbered terminals, ensures simplicity and safety of the cabling of the cables relative to all the external functions making any inspection easy to perform.
Alternatively, on request, the crane can be supplied with **one electrical panel only** made of press-forged sheet, which contains the contactors and the timers to control all the movements of the crane, as well as protection fuses against short circuits. The control circuits are low voltage. A connection terminal box ensures simplicity and safety of cabling of the cables relative to all the external functions

electrically rotated cranes

making any inspection easy to perform.
The electrical line to power the trolley-hoist formed of flat flexible multipolar cables festooned on the trolleys which slide inside a channel section.
A hanging **push-button control panel**, with a shockproof thermoplastic casing, sliding, along the crane girder, via trolleys inside a channel section using festooned flexible multipolar cable.
It is supported by a self supported round multipolar cable.
It is generally fitted with a connector with fast connectors and obliged polarity, to make assembly and replacement easier.
Acoustic alarm, when necessary, controlled using an "alarm" button it serves the function of acoustic warning to indicate any dangerous situations during handling.
Rotating **collector ring** installed when the arm of the crane is free from obstacles in every point of its rotation and the arm itself is required to rotate continuously in both directions.

Electric safety **limit switches** on the movements of rotation installed to limit the rotation field of the arm of the crane. Acting on the low voltage auxiliary circuits, with two intervention threshold both rotating right and left and it serves the function of emergency in safety in case of any breakdown or malfunctioning of the first intervention threshold.

Technical cards on pages 26-27

QUALITY PRODUCTS FROM A LEADING COMPANY

The range of products covers every aspect of industrial lifting offering unbeatable value for money together with pleasing, professional design.
The DMK electric chain hoists for lifting loads up to 4000kg, the manually and electrically rotated jib cranes, the DRH wire rope hoists with lifting capacity up to 40.000kg, the DSC suspended modular systems and the DGP drive units are all a safe, reasonably-priced choice for every situation.
The special versions of each product, on request some also with CSA/UL homologation, complete the range guaranteeing an answer to the most varied and specific application needs.
The constant attention paid by **DONATI SOLLEVAMENTI S.r.l** to the maximum satisfaction of its clients is focused on creating a long-term relationship of mutual esteem and trust thanks to the flexibility and promptness of its organisation and the direct personal touch. The after sales service aims to resolve problems immediately whether they involve spare parts, assistance or guarantee.

Since 1930 DONATI SOLLEVAMENTI S.r.l. has been on the world market of industrial lifting with growing success with competence, flexibility and both technological and planning innovative capacity.
The experience gained in long years of qualified presence in the sector and the precise will to tackle without compromise the problems related to safety and conformity to regulations are a guarantee.
Consistancy in quality and reliability of all our products and services is guaranteed by the certification of our system of quality assurance which since 1993 regulates in Donati organisation, the control of materials, the production processes and the finished products.

DONATI SOLLEVAMENTI S.r.l. offers a product which is always in line with the most modern international regulation standards.


donati


11

REGULATIONS COMPLIANCE

Legislative reference framework
The manually or electrically rotated column and wall-mounted jib cranes are designed and produced in consideration of the "Essential Safety Requirements" of **Enclosures 1 of the Communitary Machines Directive 2006/42/CE.** The jib cranes are put on the market with the EC mark and the EC Conformity Declaration – Enclosures IIA.
Moreover the jib cranes conform with the following directives:
– Low Voltage Directive 2006/95/CE
– Electromagnetic Compatibility Directive 2004/108/CE

Regulations reference framework:

In the planning and construction of the manually and electrically rotated, column and wall-mounted, jib cranes, the following norms and main technical rules have been taken into consideration:

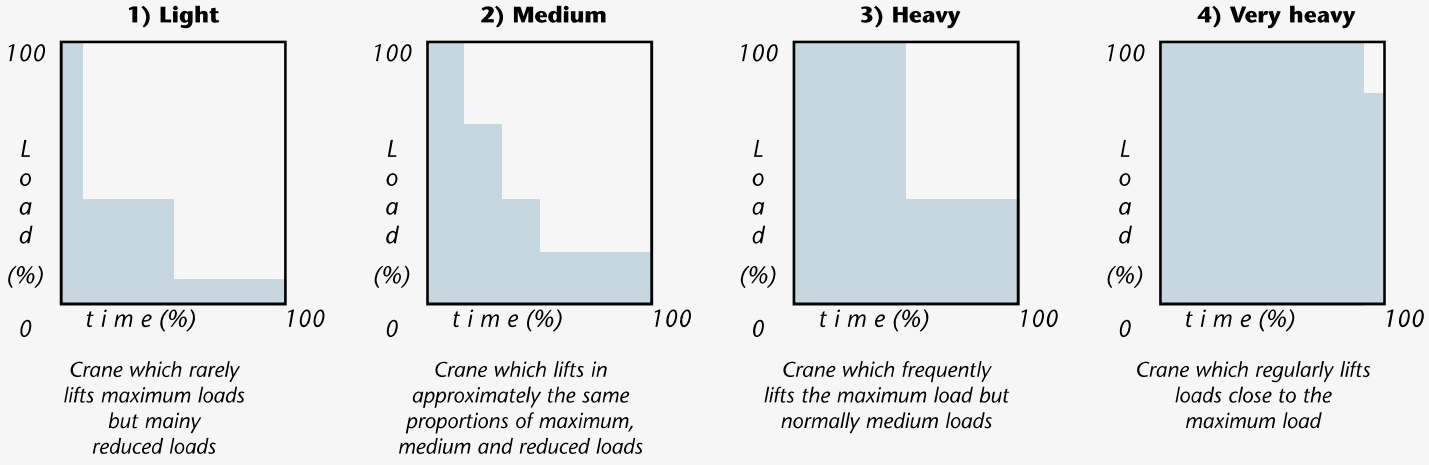
- EN ISO 12100 part: 1ª - 2ª/2005 – Safety of the machinery
- EN ISO 13849-1/2008 – General principles for design
- EN 60204-32/98 – Safety of machinery electrical equipment of machines
- EN 60529/92 – Degrees of protection provided by enclosures (IP code)
- ISO 4301/88 – Lifting equipment classification
- FEM 1.001/98 – Rules for the design of hoisting appliances
- FEM 9.683/95 – Selection of lifting and travel motors
- FEM 9.755/93 – Measures for achieving safe working periods for serial hoists units (S.W.P.)
- FEM 9.941/95 – Graphical symbols for controls devices

CRITERIA OF CHOICE AND LIMITS OF USE OF THE JIB CRANES

To obtain the complete responsiveness of the jib cranes, for the service they are intended for, it is necessary to check the parameters which characterise the limits of use and, thus, the right choice.
These are essentially the **effective carrying capacity**, the **state of stress** and the **functional parameters**

1) Actual lifting capacity
This is determined by the heaviest load to be lifted

2) Stress level
The stress level is determined considering the actual entity of the loads to be lifted and it is ascribable to one of the four load regimes shown below.



Crane which rarely lifts maximum loads but mainy reduced loads

Crane which lifts in approximately the same proportions of maximum, medium and reduced loads

Crane which frequently lifts the maximum load but normally medium loads

Crane which regularly lifts loads close to the maximum load

Check, on the basis of the state of stress intended for the crane, that the limits of use, type of service and n° of cycles intended in 10 years of work is not in contrast with the following table.

Limits of use of the jib cranes of the service class ISO A5 (according to ISO 4301/88)				
State of stress	**1) Light**	**2) Medium**	**3) Heavy**	**4) Very heavy**
Type of service	intense irregular use	intermittent regular use	regular light use	irregular use
Conditions of use	U 6	U 5	U 4	U 3
N° of operative cycles in 10 years	1.000.000	500.000	250.000	125.000

3) Functional parameters
The functional parameters which must be carefully considered in the choice of jib cranes are:

• **Functional dimensions:** height of the arm, which determines the hook run of the hoist, and its jump (jib) must be selected so as to guarantee the functional coverage of the area to be served in consideration of the surrounding encumbrances.

• **Type of movement** (where necessary): manual or electric in relation to the characteristics of the mass to handle and the type of arm already selected.

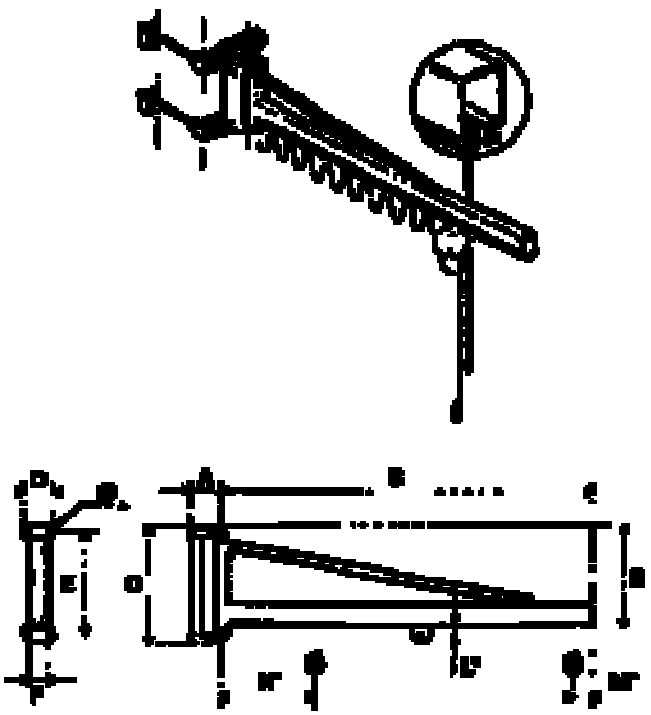
• **Nature of the load:** delicate or not determines by its positioning the choice of the most suitable speeds of handling (lifting and moving). In some cases it is indispensable to use hoists with two speeds with a slow speed of positioning.

• **Area of use:** the jib crane is characterised, by its conception, by intrinsic high elasticity which becomes even more evident when it is used for handling with loads close to the maximum lifting capacity and/or with prevalent localisation at the ends of the arm.

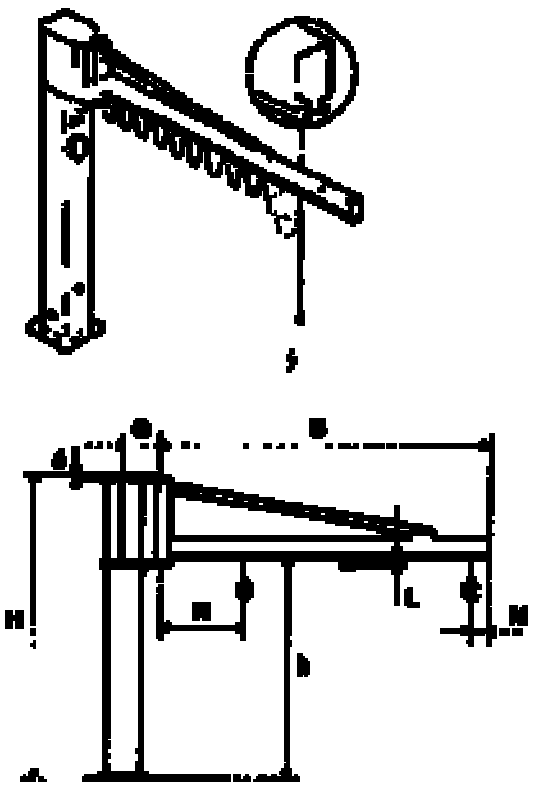
• **Area of use:** the jib cranes are intended to be used inside and/or in a covered area, sheltered from bad weather and wind. In the case of use outside measures must be taken in relation to the surface treatment (sandblasting - painting) as well as:
- **in the case of manually rotated cranes:** a system of stopping brake and an adequate protection cover for the hoist-trolley.
- **in the case of electrically rotated cranes:** adequate protection covers for the hoist-trolley, for the motoreducer and for the electrical panel.

• **Frequency of use:** if use is very high (frequent and/or repeated manoeuvres) with loads close to the maximum load the consequent fatigue of the operator due to the manual handling must be taken into consideration.

GBP/GBA SERIES JIB CRANES – C VERSION – CHANNEL PROFILE VERSION



Wall-mounted jib crane – Rotation 270°

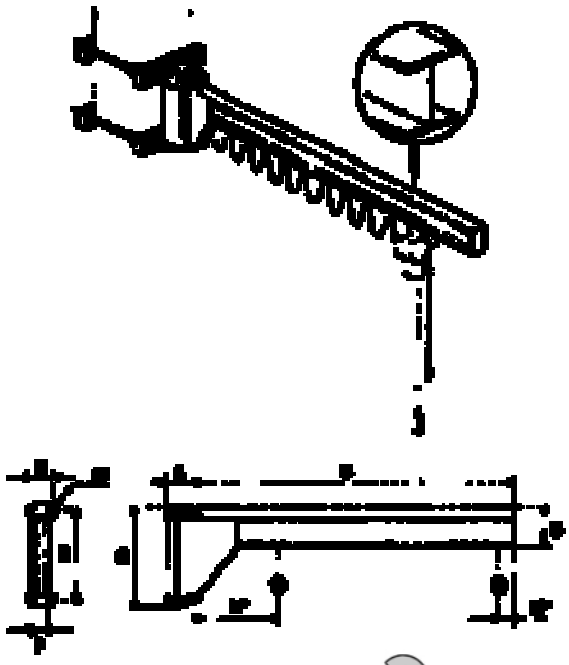


Column-mounted jib crane – Rotation 300°

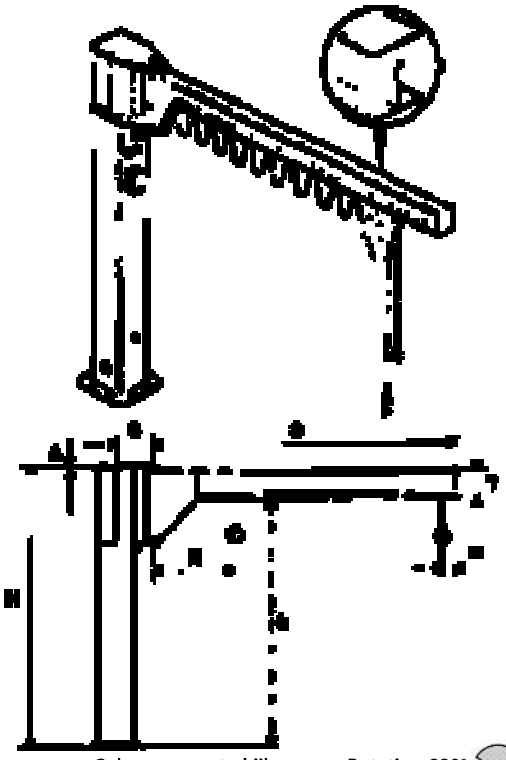
Heights M* and N* for wall-mounted jib cranes: See corresponding heights relative to column-mounted jib cranes

Lifting capacity	Arm S		Size of jib crane		GBP series wall-mounted jib cranes - C version									GBA series column-mounted jib crane – C version												
					Type	Overall dimensions (mm)								weight of crane	Type	Total Height m ±		Overall dimensions (mm)						Weight	
	Nominal	True Lenght	Bracket	Column											base	max.	Under beam						Crane	Column by m
kg	m	mm				A	B	C	D	E	F	Ø	kg				h	G	L	M	N	Δ	kg	kg
63	4	4056	A	R	C01A40	170	552	644	200	594	150	15	74	C30R40	3	5	2496	228	34	140	585	12	127	18.2
	5	5056	A	R	C01A50	170	552	644	200	594	150	15	87	C30R50	3	5	2496	228	34	140	645	12	140	18.2
	6	6056	B	S	C01B60	170	552	644	200	594	150	15	100	C30S60	3	5	2496	274	34	140	705	12	175	22.8
	7	7056	B	S	C01B70	170	552	644	200	594	150	15	113	C30S70	3	5	2496	274	34	140	765	12	188	22.8
125	2	2056	A	R	C01A20	170	552	644	200	594	150	15	48	C30R20	3	5	2496	228	34	140	525	12	101	18.2
	3	3056	A	R	C01A30	170	552	644	200	594	150	15	61	C30R30	3	5	2496	228	34	140	585	12	114	18.2
	4	4056	B	S	C01B40	170	552	644	200	594	150	15	74	C30S40	3	5	2496	274	34	140	585	12	149	22.8
	5	5056	B	S	C01B50	170	552	644	200	594	150	15	87	C30S50	3	5	2496	274	34	140	645	12	162	22.8
	6	6066	C	T	C02C60	210	820	930	250	870	190	22	135	C35T60	3.5	5.5	2738	323	34	140	785	17	260	35
	7	7066	C	T	C02C70	210	820	930	250	870	190	22	150	C35T70	3.5	5.5	2738	323	34	140	845	17	275	35
250	2	2056	B	S	C01B20	170	552	644	200	594	150	15	48	C30S20	3	5	2496	274	34	140	525	12	123	22.8
	3	3056	B	S	C01B30	170	552	644	200	594	150	15	61	C30S30	3	5	2496	274	34	140	585	12	136	22.8
	4	4066	C	T	C02C40	210	820	930	250	870	190	22	105	C35T40	3.5	5.5	2738	323	34	140	665	17	230	35
	5	5066	C	T	C02C50	210	820	930	250	870	190	22	120	C35T50	3.5	5.5	2738	323	34	140	725	17	245	35
	6	6066	D	U	C02D60	210	820	930	250	870	190	22	202	C35U60	3.5	5.5	2738	386	43	156	820	17	376	43.5
	7	7066	D	U	C02D70	210	820	930	250	870	190	22	228	C35U70	3.5	5.5	2738	386	43	156	880	17	402	43.5
500	2	2066	C	T	C02C20	210	820	930	250	870	190	22	75	C35T20	3.5	5.5	2738	323	34	265	730	17	200	35
	3	3066	C	T	C02C30	210	820	930	250	870	190	22	90	C35T30	3.5	5.5	2738	323	34	265	790	17	215	35
	4	4066	D	U	C02D40	210	820	930	250	870	190	22	113	C35U40	3.5	5.5	2738	386	34	265	820	17	287	43.5
	5	5066	D	U	C02D50	210	820	930	250	870	190	22	129	C35U50	3.5	5.5	2738	386	34	265	880	17	303	43.5
	6	6076	E	V	C03E60	255	1100	1240	300	1160	220	34	270	C40V60	4	6	2980	443	43	156	880	20	567	64
	7	7076	E	V	C03E70	255	1100	1240	300	1160	220	34	300	C40V70	4	6	2980	443	43	156	940	20	597	64
1000	2	2066	D	U	C02D20	210	820	930	250	870	190	22	93	C35U20	3.5	5.5	2738	386	60	306	790	17	267	43.5
	3	3066	D	U	C02D30	210	820	930	250	870	190	22	163	C35U30	3.5	5.5	2738	386	60	306	850	17	337	43.5
	4	4076	E	V	C03E40	255	1100	1240	300	1160	220	34	212	C40V40	4	6	2980	443	60	306	910	20	509	64
	5	5076	E	V	C03E50	255	1100	1240	300	1160	220	34	241	C40V50	4	6	2980	443	60	306	970	20	538	64
	6	6076	F	Z	C03F60	255	1100	1240	300	1160	220	34	298	C40Z60	4	6	2980	513	60	306	1100	20	680	75.2
	7	7076	F	Z	C03F70	255	1100	1240	300	1160	220	34	331	C40Z70	4	6	2980	513	60	306	1160	20	713	75.2

GBP/GBA SERIES JIB CRANES – T VERSION – CANTILEVER VERSION



Wall-mounted jib crane - Rotation 250°

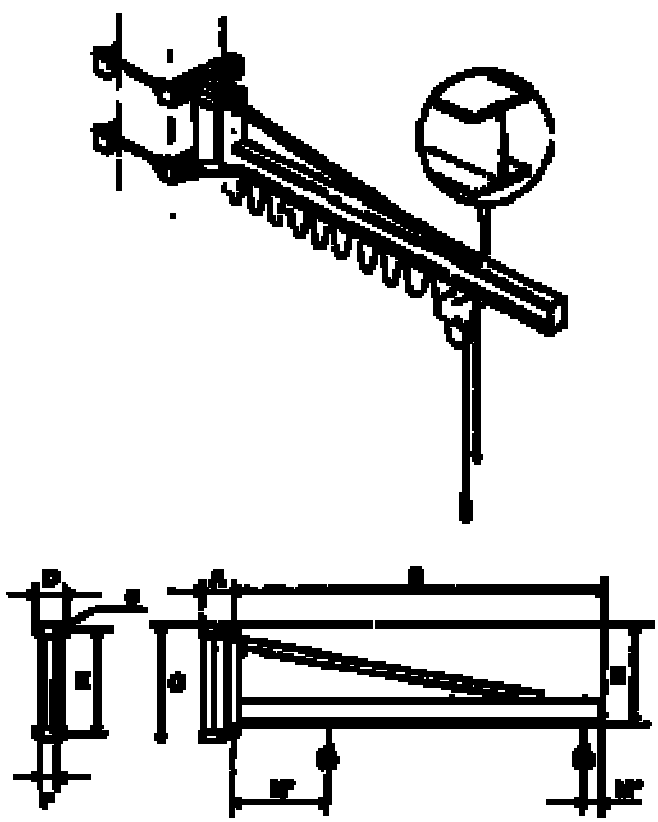


Column-mounted jib crane - Rotation 290°

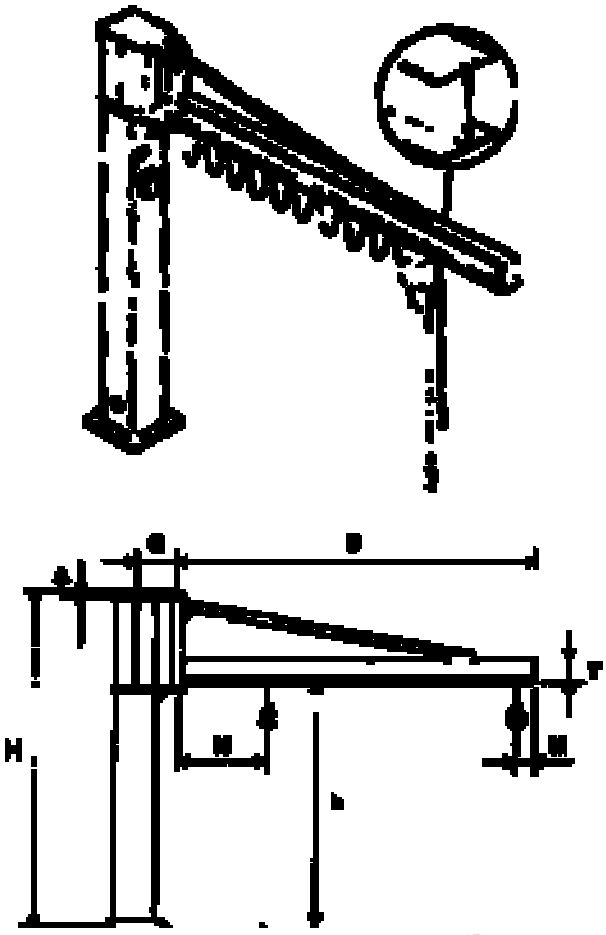
Heights M* and N* for wall-mounted jib cranes: see corresponding heights relative to column-mounted jib cranes

Lifting capacity	Arm	Grandezza gru		GBP series wall-mounted jib cranes – T version									GBA series column-mounted jib cranes – T version											
				Type	Overall dimensions (mm)							Weight of crane	Total Height H m		Type	Overall dimensions						Weight	
		Bracket	Column										base	max.		Under beam						Crane	Column by m
kg	m				A	B	C	D	E	F	Ø	kg				h	G	M	N	T (IPE)	Δ	kg	kg
63	4	A	R	T01A40	170	248	644	200	594	150	15	95	3	5	T30R40	2800	228	190	655	160	12	148	18.2
	5	A	R	T01A50	170	248	644	200	594	150	15	111	3	5	T30R50	2800	228	190	715	160	12	164	18.2
125	2	A	R	T01A20	170	248	644	200	594	150	15	63	3	5	T30R20	2800	228	190	595	160	12	116	18.2
	3	A	R	T01A30	170	248	644	200	594	150	15	79	3	5	T30R30	2800	228	190	655	160	12	132	18.2
	4	B	S	T01B40	170	288	644	200	594	150	15	125	3	5	T30S40	2760	274	190	725	200	12	200	22.8
	5	B	S	T01B50	170	288	644	200	594	150	15	147	3	5	T30S50	2760	274	190	785	200	12	222	22.8
250	2	B	S	T01B20	170	288	644	200	594	150	15	81	3	5	T30S20	2760	274	190	665	200	12	156	22.8
	3	B	S	T01B30	170	288	644	200	594	150	15	103	3	5	T30S30	2760	274	190	725	200	12	178	22.8
	4	C	T	T02C40	210	346	930	250	870	190	22	195	3.5	5.5	T35T40	3212	323	190	800	240	17	320	35
	5	C	T	T02C50	210	346	930	250	870	190	22	226	3.5	5.5	T35T50	3212	323	190	860	240	17	351	35
	6	D	U	T02D62	210	406	930	250	870	190	22	340						190	1000	300			
	6	E	V	T03E62	255	500	1240	300	1160	220	34	410	4	6	T40V62	3640	443	190	1065	300	20	705	64
	7	E	V	T03E72	255	500	1240	300	1160	220	34	555	4	6	T40V72	3580	443	190	1135	360	20	852	64
500	2	C	T	T02C20	210	346	930	250	870	190	22	134	3.5	5.5	T35T20	3212	323	190	740	240	17	260	35
	3	C	T	T02C30	210	346	930	250	870	190	22	165	3.5	5.5	T35T30	3212	323	190	800	240	17	290	35
	4	D	U	T02D40	210	406	930	250	870	190	22	256	3.5	5.5	T35U40	3152	386	190	880	300	17	430	43.5
	5	D	U	T02D50	210	406	930	250	870	190	22	298	3.5	5.5	T35U50	3152	386	190	940	300	17	472	43.5
	6	E	V	T03E65	255	500	1240	300	1160	220	34	482	4	5	T40V65	3580	443	190	1140	360	20	779	64
	6	F	Z										4	6	T40Z62	3580	513	190	1140	360	20	864	75.2
	7	E	V	T03E75	255	540	1240	300	1160	220	34	596	4	4	T40V75	3540	443	190	1270	400	20	893	64
	7	F	Z										4	6	T40Z72	3540	513	190	940	1270	400	978	75.2
1000	2	D	U	T02D20	210	406	930	250	870	190	22	172	3.5	5.5	T35U20	3152	386	190	820	300	17	346	43.5
	3	D	U	T02D30	210	406	930	250	870	190	22	214	3.5	5.5	T35U30	3152	386	190	880	300	17	388	43.5
	4	E	V	T03E40	255	499	1240	300	1160	220	34	381	4	6	T40V40	3580	443	190	945	360	20	678	64
	5	E	V	T03E50	255	499	1240	300	1160	220	34	438	4	6	T40V50	3580	443	190	1005	360	20	735	64
	6	F	Z	T03F65	255	540	1240	300	1160	220	34	530	4	4	T40Z65	3540	513	190	1190	400	20	912	75.2
	7	F	Z	T03F75	255	499	590	1240	300	1160	34	688						190	1270	450			
1600	6	F	Z	T03F67	255	590	1240	300	1160	220	34	610						190	1270	450			
2000	2	E	V	T03E20	255	499	1240	300	1160	220	34	267	4	6	T40V20	3580	443	210	900	360	20	564	64
	3	E	V	T03E30	255	499	1240	300	1160	220	34	324	4	6	T40V30	3580	443	210	960	360	20	621	64
	4	F	Z	T03F40	255	540	1240	300	1160	220	34	400	4	6	T40Z40	3540	513	210	1070	400	20	780	75.2
	5	F	Z	T03F50	255	590	1240	300	1160	220	34	535						210	1220	450			

GBP/GBA SERIES JIB CRANES – H VERSION – OVERBRACED VERSION



Wall-mounted jib crane – Rotation 270°



Column-mounted jib crane – Rotation 300°

Heights M* and N* for wall-mounted jib cranes: see corresponding heights relative to column-mounted jib cranes

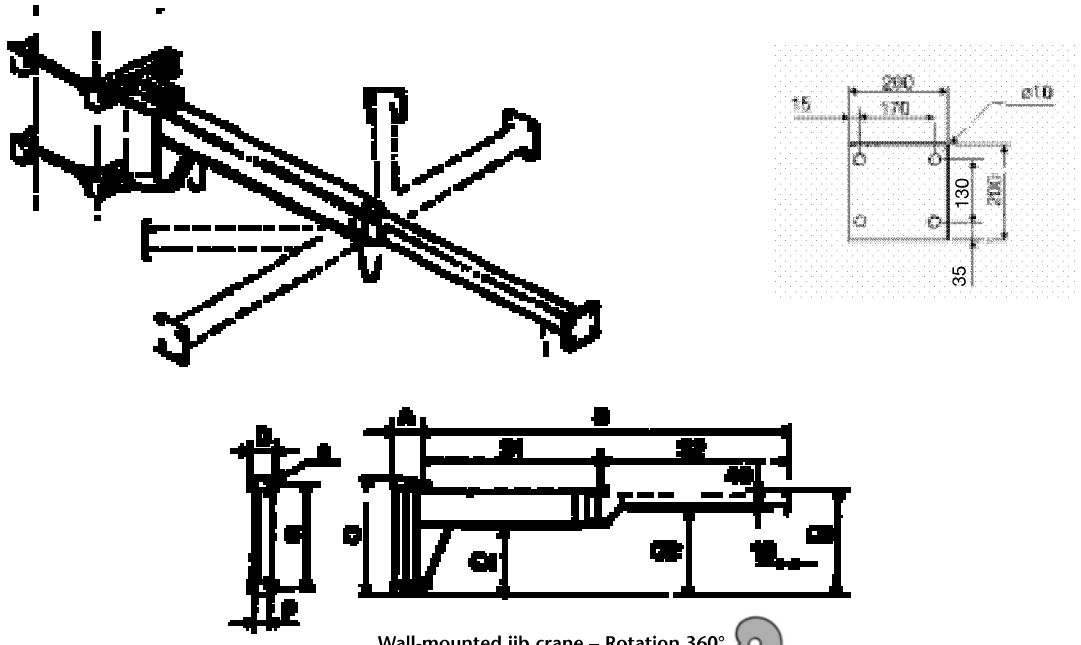
GBP series wall-mounted jib crane – H version

Lifting capacity	Arm	Size of jib crane		Type	Overall dimensions (mm)							Weight of crane
	S	Bracket	Column		A	B	C	D	E	F	Ø	
kg	m											kg
125	6	C	T	H02C60	210	820	930	250	870	190	22	160
	7	C	T	H02C70	210	820	930	250	870	190	22	180
	8	D	U	H02D80	210	820	930	250	870	190	22	251
250	4	C	T	H02C40	210	820	930	250	870	190	22	122
	5	C	T	H02C50	210	820	930	250	870	190	22	141
	6	D	U	H02D60	210	820	930	250	870	190	22	200
	7	D	U	H02D70	210	820	930	250	870	190	22	226
	8	E	V	H03E80	255	1100	1240	300	1160	220	34	303
500	4	D	U	H02D40	210	820	930	250	870	190	22	149
	5	D	U	H02D50	210	820	930	250	870	190	22	175
	6	E	V	H03E60	255	1100	1240	300	1160	220	34	262
	7	E	V	H03E70	255	1100	1240	300	1160	220	34	293
	8	F	Z	H03F80	255	1100	1240	300	1160	220	34	389
1000	4	E	V	H03E40	255	1100	1240	300	1160	220	34	200
	5	E	V	H03E50	255	1100	1240	300	1160	220	34	231
	6	F	Z	H03F60	255	1100	1240	300	1160	220	34	312
	7	F	Z	H03F70	255	1100	1240	300	1160	220	34	351
	8	F	Z	H03F85	255	1100	1240	300	1160	220	34	430
1600	6	F	Z	H03F67	255	1100	1240	300	1160	220	34	312
2000	4	F	Z	H03F40	255	1100	1240	300	1160	220	34	233
	5	F	Z	H03F50	255	1100	1240	300	1160	220	34	272

GBA series column-mounted jib crane - H version

± Total Height m		Type	Overall dimensions (mm)						Weight	
base	max.		Under beam						Crane	Column by m
			h	G	M	N	T	Δ		
									kg	kg
3.5	5.5	H35T60	2738	323	190	900	160	17	285	35
3.5	5.5	H35T70	2738	323	190	960	160	17	305	35
3.5	5.5	H35U80	2738	386	190	1070	200	17	425	43.5
3.5	5.5	H35T40	2738	323	190	780	160	17	247	35
3.5	5.5	H35T50	2738	323	190	840	160	17	266	35
3.5	5.5	H35U60	2738	386	190	950	200	17	374	43.5
3.5	5.5	H35U70	2738	386	190	1010	200	17	400	43.5
4	6	H40V80	2980	443	190	1140	200	20	620	64
3.5	5.5	H35U40	2738	386	190	830	200	17	323	43.5
3.5	5.5	H35U50	2738	386	190	890	200	17	349	43.5
4	6	H40V60	2980	443	190	1020	200	20	559	64
4	6	H40V70	2980	443	190	1080	200	20	590	64
4	6	H40Z80	2980	513	190	1140	240	20	771	75.2
4	6	H40V40	2980	443	190	900	200	20	497	64
4	6	H40V50	2980	443	190	960	200	20	528	64
4	6	H40Z60	2980	513	190	1020	240	20	694	75.2
4	6	H40Z70	2980	513	190	1080	240	20	733	75.2
4	6	H40Z85	2980	513	190	1140	152	20	812	75.2
4	6	H40Z67	2980	513	210	1040	240	20	694	75.2
4	6	H40Z40	2980	513	210	920	240	20	615	75.2
4	6	H40Z50	2980	513	210	980	240	20	654	75.2

JIB CRANES WITH ARTICULATED ARM, DESIGNED FOR THE APPLICATION OF MANIPULATORS – MBB/CBB SERIES

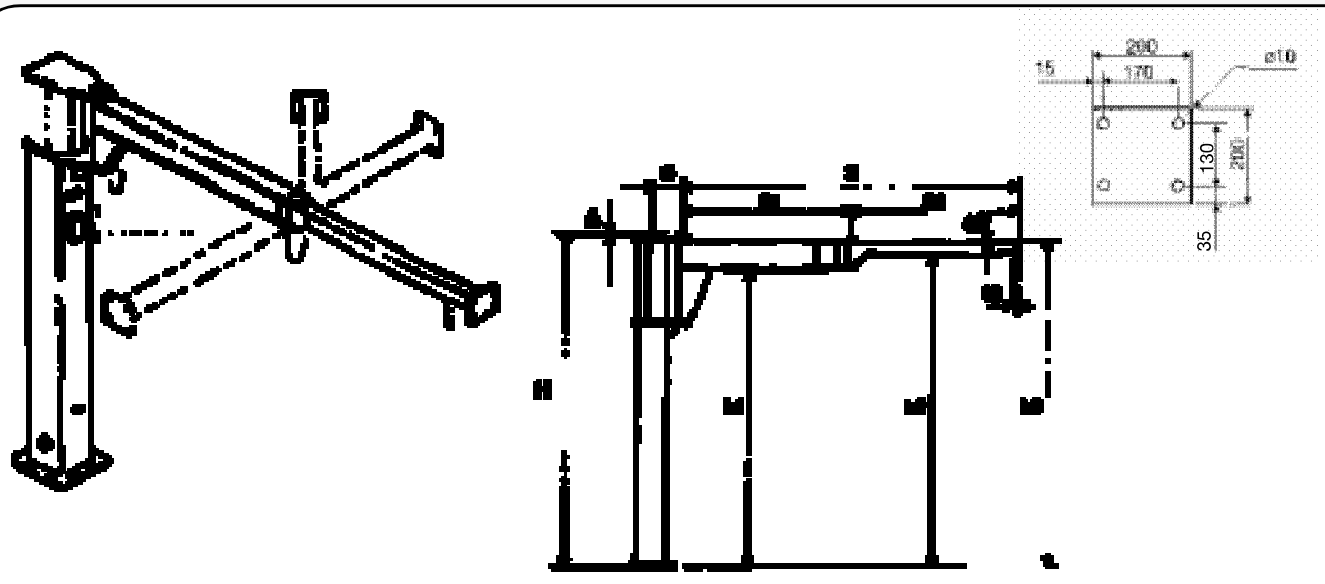


Wall-mounted jib crane – Rotation 360°

Lifting capacity kg	Arm S m	Size of jib crane
125	3	A

Wall-mounted jib crane designed for the application of manipulators – MBB series

Type	Overall dimensions (mm)											Weight of crane
	S1	S2	A	C	C1	C2	C3	D	E	F	Ø	kg
A01A3L	1000	2000	225	644	200	373	563	200	594	150	15	122
A01A3M	1500	1500	225	644	200	373	563	200	594	150	15	144
A01A3N	2000	1000	225	644	200	373	563	200	594	150	15	166



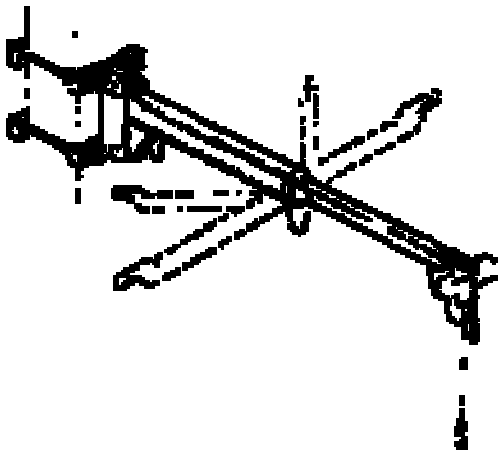
Column-mounted jib crane – Rotation 360°

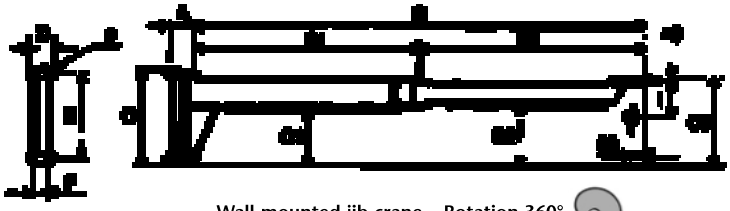
Lifting capacity kg	Arm S m	Size of jib crane
125	3	R

Column-mounted jib crane designed for the application of manipulators – CBB series

Height H mm base	Height H mm max.	Type	Overall dimensions (mm) S1	S2	H1	H2	H3	G	Δ	Weight Crane kg	Weight Column by m kg
3020	5020	A30R3L	1000	2000	2603	2777	2967	228	20	174	18.2
		A30R3M	1500	1500	2603	2777	2967	228	20	196	18.2
		A30R3N	2000	1000	2603	2777	2967	228	20	218	18.2

WALL-MOUNTED JIB CRANES WITH ARTICULATED ARM, WITH FIXED HOIST – MBB SERIES

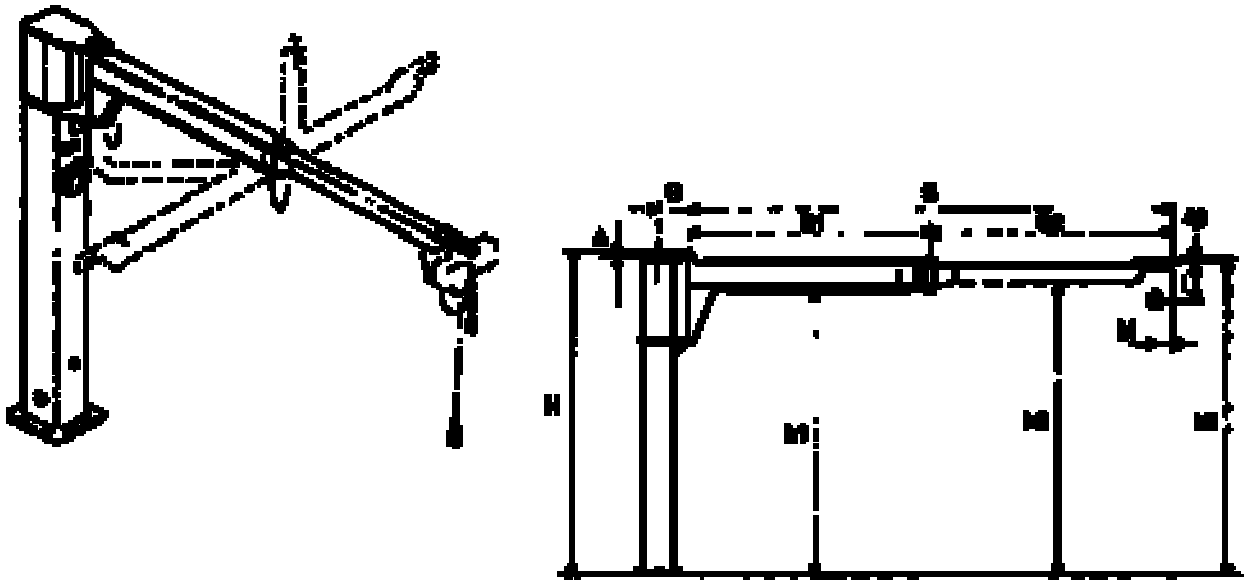




Wall-mounted jib crane – Rotation 360°

Lifting capacity kg	Arm S m	Size of jib crane	Type	Overall dimensions (mm) S1	S2	A	C	C1	C2	C3	D	E	F	Ø	M	Added hoist DMK	Added hoist Height I	Weight of crane kg
125	3	A	A01A3A	1000	2000	225	644	200	373	591	200	594	150	15	180	1	285	114
			A01A3B	1500	1500	225	644	200	373	591	200	594	150	15	180	1	285	138
			A01A3C	2000	1000	225	644	200	373	591	200	594	150	15	180	1	285	160
	4	B	A01B4A	1000	3000	225	644	200	333	591	200	594	150	15	180	1	285	141
			A01B4B	1500	2500	225	644	200	333	591	200	594	150	15	180	1	285	163
			A01B4C	2000	2000	225	644	200	373	591	200	594	150	15	180	1	285	171
	5	B	A01B5A	2000	3000	225	644	200	333	591	200	594	150	15	180	1	285	198
			A01B5B	2500	2500	225	644	200	333	591	200	594	150	15	180	1	285	220
			A01B5C	3000	2000	225	644	200	373	591	200	594	150	15	180	1	285	230
	6	C	A02C6B	2500	3500	280	930	455	592	850	250	870	190	22	180	1	285	326
			A02C6C	3000	3000	280	930	455	592	850	250	870	190	22	180	1	285	361
	7	C	A02C7A	3000	4000	280	930	455	572	850	250	870	190	22	180	1	285	389
			A02C7B	3500	3500	280	930	455	592	850	250	870	190	22	180	1	285	410
250	3	B	A01B3A	1000	2000	225	644	200	333	591	200	594	150	15	180	1-2	285-318	124
			A01B3B	1500	1500	225	644	200	333	591	200	594	150	15	180	1-2	285-318	145
	4	C	A02C4A	1000	3000	280	930	455	552	850	250	870	190	22	180	1-2	285-318	218
			A02C4C	2000	2000	280	930	455	592	850	250	870	190	22	180	1-2	285-318	258
	5	C	A02C5A	2000	3000	280	930	455	552	850	250	870	190	22	180	1-2	285-318	295
			A02C5B	2500	2500	280	930	455	552	850	250	870	190	22	180	1-2	285-318	324
	6	D	A02D6B	2500	3500	280	930	455	552	850	250	870	190	22	180	1-2	285-318	348
			A02D6C	3000	3000	280	930	455	552	850	250	870	190	22	180	1-2	285-318	380
	7	D	A02D7A	3000	4000	280	930	455	552	850	250	870	190	22	180	1-2	285-318	405
			A02D7B	3500	3500	280	930	455	552	850	250	870	190	22	180	1-2	285-318	432
500	3	C	A02C3A	1000	2000	280	930	455	592	850	250	870	190	22	180	2	318	182
			A02C3F	1000	2000	280	930	455	592	850	250	870	190	22	190	3	385	182
			A02C3B	1500	1500	280	930	455	592	850	250	870	190	22	180	2	318	215
			A02C3G	1500	1500	280	930	455	592	850	250	870	190	22	190	3	385	215
	4	D	A02D4A	1000	3000	280	930	455	552	850	250	870	190	22	180	2	318	218
			A02D4F	1000	3000	280	930	455	552	850	250	870	190	22	190	3	385	218
			A02D4C	2000	2000	280	930	455	592	850	250	870	190	22	180	2	318	258
			A02D4H	2000	2000	280	930	455	592	850	250	870	190	22	190	3	385	258
	5	D	A02D5A	2000	3000	280	930	455	552	850	250	870	190	22	180	2	318	295
			A02D5F	2000	3000	280	930	455	552	850	250	870	190	22	190	3	385	295
			A02D5B	2500	2500	280	930	455	552	850	250	870	190	22	180	2	318	324
			A02D5G	2500	2500	280	930	455	552	850	250	870	190	22	190	3	385	324
	6	E	A03E6A	2000	4000	315	1240	725	780	1118	300	1160	220	34	180	2	318	518
			A03E6F	2000	4000	315	1240	725	780	1118	300	1160	220	34	190	3	385	518
			A03E6C	3000	3000	315	1240	725	820	1118	300	1160	220	34	180	2	318	575
			A03E6H	3000	3000	315	1240	725	820	1118	300	1160	220	34	190	3	385	575
	7	E	A03E7A	3000	4000	315	1240	725	780	1118	300	1160	220	34	180	2	318	633
			A03E7F	3000	4000	315	1240	725	780	1118	300	1160	220	34	190	3	385	633
			A03E7B	3500	3500	315	1240	725	780	1118	300	1160	220	34	180	2	318	683
			A03E7G	3500	3500	315	1240	725	780	1118	300	1160	220	34	190	3	385	683

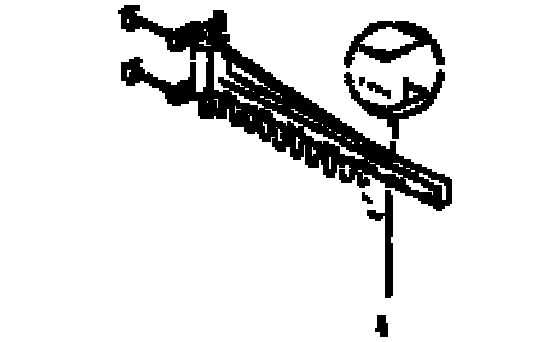
COLUMN-MOUNTED JIB CRANES WITH ARTICULATED ARM, WITH FIXED HOIST – CBB SERIES



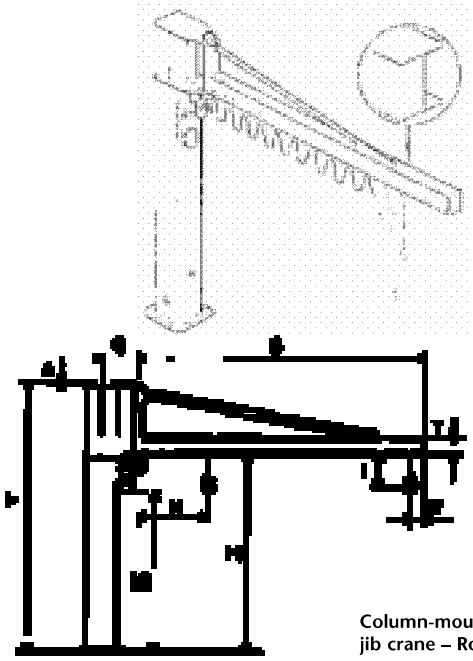
Column-mounted jib crane – Rotation 360°

Lifting capacity kg	Arm S m	Size of jib crane	Height H mm base	Height H mm max.	Type	Under beam h1	Under beam h2	h3	S1	S2	G	M	Δ	Added hoist DMK	Added hoist Height I	Weight Crane kg	Weight Column by m kg
						Column-mounted jib crane with articulated arm with fixed hoist – CBB series – Overall dimensions (mm)											
125	3	R	3020	5020	A30R3A	2603	2777	2995	1000	2000	228	180	32	1	285	166	18.2
			3020	5020	A30R3B	2603	2777	2995	1500	1500	228	180	32	1	285	190	18.2
			3020	5020	A30R3C	2603	2777	2995	2000	1000	228	180	32	1	285	212	18.2
	4	S	3020	5020	A30S4A	2603	2737	2995	1000	3000	274	180	32	1	285	215	22.8
			3020	5020	A30S4B	2603	2737	2995	1500	2500	274	180	32	1	285	237	22.8
			3020	5020	A30S4C	2603	2777	2995	2000	2000	274	180	32	1	285	245	22.8
	5	S	3020	5020	A30S5A	2603	2737	2995	2000	3000	274	180	32	1	285	272	22.8
			3020	5020	A30S5B	2603	2737	2995	2500	2500	274	180	32	1	285	294	22.8
			3020	5020	A30S5C	2603	2777	2995	3000	2000	274	180	32	1	285	304	22.8
	6	T	3525	5525	A35T6B	3083	3220	3478	2500	3500	323	180	42	1	285	450	35
			3525	5525	A35T6C	3083	3220	3478	3000	3000	323	180	42	1	285	485	35
	7	T	3525	5525	A35T7A	3083	3200	3478	3000	4000	323	180	42	1	285	513	35
			3525	5525	A35T7B	3083	3220	3478	3500	3500	323	180	42	1	285	534	35
250	3	S	3020	5020	A30S3A	2603	2737	2995	1000	2000	274	180	32	1-2	285-318	198	22.8
			3020	5020	A30S3B	2603	2737	2995	1500	1500	274	180	32	1-2	285-318	220	22.8
	4	T	3525	5525	A35T4A	3083	3180	3478	1000	3000	323	180	42	1-2	285-318	342	35
			3525	5525	A35T4C	3083	3220	3478	2000	2000	323	180	42	1-2	285-318	382	35
	5	T	3525	5525	A35T5A	3083	3180	3478	2000	3000	323	180	42	1-2	285-318	419	35
			3525	5525	A35T5B	3083	3180	3478	2500	2500	323	180	42	1-2	285-318	448	35
	6	U	3525	5525	A35U6B	3083	3180	3478	2500	3500	386	180	42	1-2	285-318	520	43.5
			3525	5525	A35U6C	3083	3180	3478	3000	3000	386	180	42	1-2	285-318	552	43.5
	7	U	3525	5525	A35U7A	3083	3180	3478	3000	4000	386	180	42	1-2	285-318	577	43.5
			3525	5525	A35U7B	3083	3180	3478	3500	3500	386	180	42	1-2	285-318	604	43.5
500	3	T	3525	5525	A35T3A	3083	3220	3478	1000	2000	323	180	42	2	318	306	35
			3525	5525	A35T3F	3083	3220	3478	1000	2000	323	190	42	3	385	306	35
			3525	5525	A35T3B	3083	3220	3478	1500	1500	323	180	42	2	318	339	35
			3525	5525	A35T3G	3083	3220	3478	1500	1500	323	190	42	3	385	339	35
	4	U	3525	5525	A35U4A	3083	3180	3478	1000	3000	386	180	42	2	318	390	43.5
			3525	5525	A35U4F	3083	3180	3478	1000	3000	386	190	42	3	385	390	43.5
			3525	5525	A35U4C	3083	3220	3478	2000	2000	386	180	42	2	318	430	43.5
			3525	5525	A35U4H	3083	3220	3478	2000	2000	386	190	42	3	385	430	43.5
	5	U	3525	5525	A35U5A	3083	3180	3478	2000	3000	386	180	42	2	318	467	43.5
			3525	5525	A35U5F	3083	3180	3478	2000	3000	386	190	42	3	385	467	43.5
			3525	5525	A35U5B	3083	3180	3478	2500	2500	386	180	42	2	318	496	43.5
			3525	5525	A35U5G	3083	3180	3478	2500	2500	386	190	42	3	385	496	43.5
	6	V	4025	6025	A40V6A	3565	3620	3958	2000	4000	443	180	45	2	318	796	64
			4025	6025	A40V6F	3565	3620	3958	2000	4000	443	190	45	3	385	796	64
			4025	6025	A40V6C	3565	3660	3958	3000	3000	443	180	45	2	318	853	64
			4025	6025	A40V6H	3565	3660	3958	3000	3000	443	190	45	3	385	853	64
	7	V	4025	6025	A40V7A	3565	3620	3958	3000	4000	443	180	45	2	318	911	64
			4025	6025	A40V7F	3565	3620	3958	3000	4000	443	190	45	3	385	911	64
			4025	6025	A40V7B	3565	3620	3958	3500	3500	443	180	45	2	318	961	64
			4025	6025	A40V7G	3565	3620	3958	3500	3500	443	190	45	3	385	961	64

MBE/CBE SERIES JIB CRANES – H VERSION – MOTORISED ARM OVERBRACED VERSION



Wall-mounted jib crane – Rotation 290°



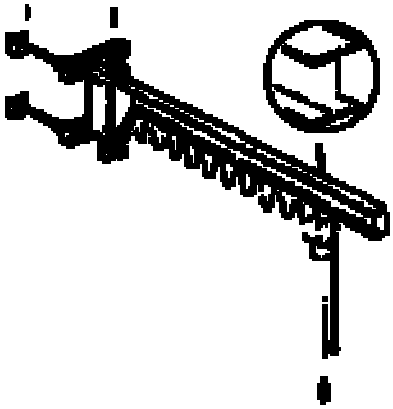
Column-mounted jib crane – Rotation 280°

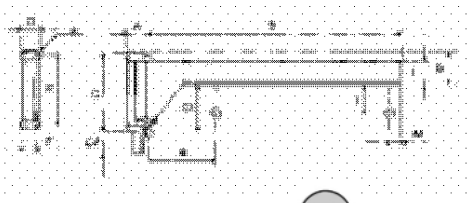
Height 1: see commercial catalogue for DMK series electric chain hoist

Lifting capacity kg	Arm S m	Size of jib crane	MBE series wall-mounted jib crane - H Version – Motorised arm overbraced version Type	Overall dimensions (mm) A	B	C	C1	C2	D	E	F	Ø	M	N	T	Speed of arm n° of revolution r.p.m.	Speed of arm peripheric m/min	Motor power kw	Weight of crane kg
250	6	D	EH02D60	340	778	930	152	378	250	870	190	22	190	1080	200	0.6	23	0.4	258
	7	D	EH02D70	340	778	930	152	378	250	870	190	22	190	1200	152	0.6	26	0.4	340
	8	E	EH03E80	365	1058	1240	182	348	300	1160	220	34	190	1210	152	0.6	30	0.4	497
500	4	D	EH02D40	340	778	930	152	378	250	870	190	22	190	960	200	1	25	0.4	207
	5	D	EH02D50	340	778	930	152	378	250	870	190	22	190	1020	200	0.8	25	0.4	233
	6	E	EH03E60	365	1058	1240	182	348	300	1160	220	34	190	1090	200	0.6	23	0.4	334
	7	E	EH03E70	365	1058	1240	182	348	300	1160	220	34	190	1210	152	0.6	26	0.4	451
	8	F	EH03F80	365	1058	1240	182	348	300	1160	220	34	190	1210	152	0.6	30	0.4	497
1000	4	E	EH03E40	365	1058	1240	182	348	300	1160	220	34	190	970	200	1	25	0.4	272
	5	E	EH03E50	365	1058	1240	182	348	300	1160	220	34	190	1030	200	0.8	25	0.4	304
	6	F	EH03F60	365	1058	1240	182	348	300	1160	220	34	190	1090	240	0.6	23	0.4	384
	7	F	EH03F70	365	1058	1240	182	348	300	1160	220	34	190	1210	152	0.6	26	0.4	451
	8	F	EH03F85	365	1058	1240	182	348	300	1160	220	34	190	1210	152	0.6	30	0.4	497
1600	6	F	EH03F67	365	1058	1240	182	348	300	1160	220	34	210	1170	152	0.6	23	0.4	420
2000	4	F	EH03F40	365	1058	1240	182	348	300	1160	220	34	210	990	240	0.8	20	0.4	306
	5	F	EH03F50	365	1058	1240	182	348	300	1160	220	34	210	1050	240	0.6	20	0.4	344

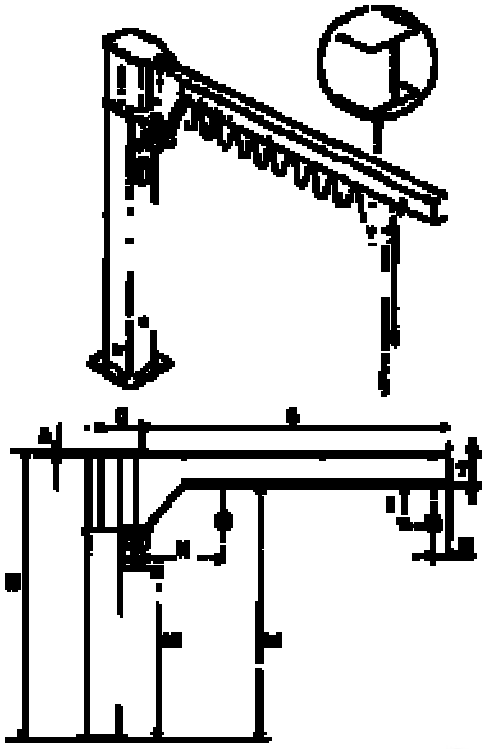
Lifting capacity kg	Arm S m	Size of jib crane	CBE column-mounted jib cranes – H version - Motorised arm overbraced version Total height H m base	Total height H m max.	Type	Overall dimensions (mm) Under beam h1	h2	G	M	N	T	Δ	Speed of arm n° of revolution r.p.m.	Speed of arm Peripheric m/min	Motor power kw	Weight Crane kg	Weight Column by m kg
250	6	U	3.5	5.5	EH35U60	2780	2250	436	190	1080	200	17	0.6	23	0.4	420	43.5
	7	U	3.5	5.5	EH35U70	2780	2250	436	190	1200	152	17	0.6	26	0.4	507	43.5
	8	V	4	6	EH40V80	3022	2492	463	190	1210	152	20	0.6	30	0.4	765	64
500	4	U	3.5	5.5	EH35U40	2780	2250	436	190	960	200	17	1	25	0.4	370	43.5
	5	U	3.5	5.5	EH35U50	2780	2250	436	190	1020	200	17	0.8	25	0.4	395	43.5
	6	V	4	6	EH40V60	3022	2492	463	190	1090	200	20	0.6	23	0.4	600	64
	7	V	4	6	EH40V70	3022	2492	463	190	1210	152	20	0.6	26	0.4	720	64
	8	Z	4	6	EH40Z80	3022	2492	513	190	1210	152	20	0.6	30	0.4	850	75.2
1000	4	V	4	6	EH40V40	3022	2492	463	190	970	200	20	1	25	0.4	538	64
	5	V	4	6	EH40V50	3022	2492	463	190	1030	200	20	0.8	25	0.4	570	64
	6	Z	4	6	EH40Z60	3022	2492	513	190	1090	240	20	0.6	23	0.4	737	75.2
	7	Z	4	6	EH40Z70	3022	2492	513	190	1210	152	20	0.6	26	0.4	805	75.2
	8	Z	4	6	EH40Z85	3022	2492	513	190	1210	152	20	0.6	30	0.4	850	75.2
1600	6	Z	4	6	EH40Z67	3022	2492	513	210	1170	152	20	0.6	23	0.4	767	75.2
2000	4	Z	4	6	EH40Z40	3022	2492	513	210	990	240	20	0.8	20	0.4	660	75.2
	5	Z	4	6	EH40Z50	3022	2492	513	210	1050	240	20	0.6	20	0.4	697	75.2

MBE/CBE SERIES JIB CRANE - T VERSION – MOTORISED ARM CANTILEVER VERSION





Wall-mounted jib crane – Rotation 290°



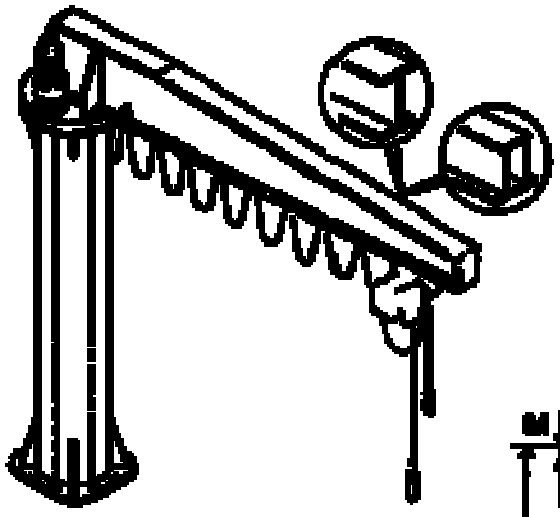
Column-mounted jib crane – Rotation 290°

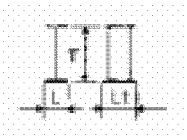
Height 1: See commercial catalogue for DMK series electric chain hoist

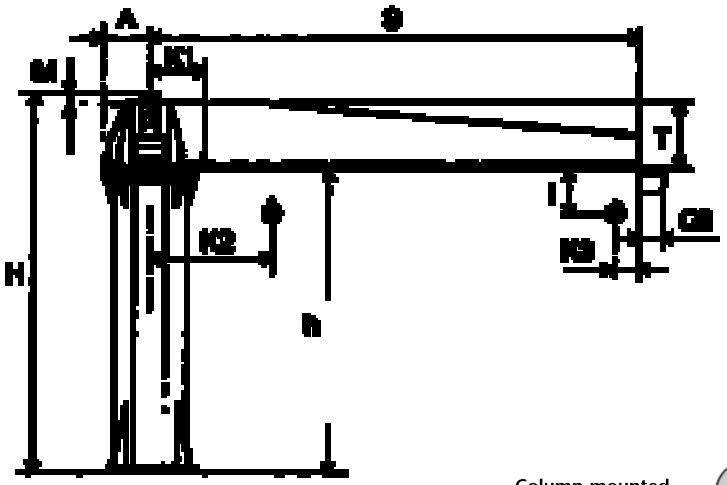
Lifting capacity kg	Arm S m	Size of jib crane	Type	Overall dimensions (mm) A	B	C	C1	C2	D	E	F	Ø	M	N	T	Speed of arm n° of revolutions r.p.m.	peripheric m/min	Motor power kw	Weight of crane kg
			MBE series wall-mounted jib crane – T version – Motorised arm in cantilever version																
500	4	D	ET02D40	340	406	930	524	378	250	870	190	22	190	910	300	1	25	0.4	313
	5	D	ET02D50	340	406	930	524	378	250	870	190	22	190	970	300	0.8	25	0.4	355
	6	E	ET03E60	365	500	1240	740	348	300	1160	220	34	190	1080	360	0.6	23	0.4	574
	7	E	ET03E70	365	540	1240	700	348	300	1160	220	34	190	1270	400	0.6	26	0.4	680
1000	2	D	ET02D20	340	406	930	524	378	250	870	190	22	190	850	300	1.6	20	0.4	229
	3	D	ET02D30	340	406	930	524	378	250	870	190	22	190	910	300	1.2	23	0.4	271
	4	E	ET03E40	365	500	1240	740	348	300	1160	220	34	190	970	360	1	25	0.4	456
	5	E	ET03E50	365	500	1240	740	348	300	1160	220	34	190	1030	360	0.8	25	0.4	514
	6	F	ET03F60	365	500	1240	740	348	300	1160	220	34	190	1080	360	0.6	23	0.4	574
1600	6	F	ET03F67	365	590	1240	650	348	300	1160	220	34	210	1200	450	0.6	23	0.4	714
2000	2	E	ET03E20	365	500	1240	740	348	300	1160	220	34	210	930	360	1.6	20	0.4	341
	3	E	ET03E30	365	500	1240	740	348	300	1160	220	34	210	990	360	1.2	23	0.4	399
	4	F	ET03F40	365	540	1240	700	348	300	1160	220	34	210	1080	400	0.8	20	0.4	508
	5	F	ET03F50	365	590	1240	650	348	300	1160	220	34	210	1130	450	0.6	20	0.4	635

Lifting capacity kg	Arm S m	Size of jib crane	Total Height H m base	max.	Type	Under beam H1	h2	G	M	N	T	Δ	Speed of arm n° of revolutions r.p.m.	peripheric m/min	Motor power kw	Weight Crane kg	Column by m kg
			CBE series column-mounted jib-crane – T version – Motorised arm in cantilever version														
500	4	U	3.5	5.5	ET35U40	3152	2250	436	190	910	300	17	1	25	0.4	476	43.5
	5	U	3.5	5.5	ET35U50	3152	2250	436	190	970	300	17	0.8	25	0.4	518	43.5
	6	V	4	5	ET40V60	3580	2492	463	190	1080	360	20	0.6	23	0.4	840	64
	6	Z	4	6	ET40Z65	3580	2492	513	190	1080	360	20	0.6	23	0.4	927	75.2
	7	V	4	4	ET40V70	3540	2452	463	190	1270	400	20	0.6	26	0.4	945	64
	7	Z	4	6	ET40Z75	3540	2452	513	190	1270	400	20	0.6	26	0.4	1032	75.2
1000	2	U	3.5	5.5	ET35U20	3152	2250	436	190	850	300	17	1.6	20	0.4	392	43.5
	3	U	3.5	5.5	ET35U30	3152	2250	436	190	910	300	17	1.2	23	0.4	434	43.5
	4	V	4	6	ET40V40	3580	2492	463	190	970	360	20	1	25	0.4	722	64
	5	V	4	6	ET40V50	3580	2492	463	190	1030	360	20	0.8	25	0.4	780	64
	6	Z	4	6	ET40Z60	3580	2492	513	190	1080	360	20	0.6	23	0.4	927	75.2
2000	2	V	4	6	ET40V20	3580	2492	463	210	930	360	20	1.6	20	0.4	607	64
	3	V	4	6	ET40V30	3580	2492	463	210	990	360	20	1.2	23	0.4	665	64
	4	Z	4	6	ET40Z40	3540	2492	513	210	1080	400	20	0.8	20	0.4	832	75.2

GBR SERIES COLUMN-MOUNTED JIB CRANE –ELECTRICALLY ROTATED AT 360° CONTINUOUSLY







Column-mounted crane - Rotation 360°

GBR jib cranes with DRH electrical wire rope hoist:
K2 = K1+(C+I1-S3)* referring to fixed mechanical limit switch
K3 = (C+S3)* referring to fixed mechanical limit switch
I* and C2* = (*) See commercial catalogue for DRH hoists

GBR jib cranes with DMK electrical caihn hoist:
K2 = K1+(M/2)* referring to fixed mechanical limit switch
K3 = (M/2)* referring to fixed mechanical limit switch
I* = (*) See commercial catalogue for DMK hoists

Lifting capacity kg	Arm S m	Size of jib crane	GBR series column-mounted jib crane – Electrically rotated at 360° continuously															
			Type	Under beam h	Overall dimensions (mm) H	K1	A	M	T	L	L1	Speed of arm n° of revolutions r.p.m.	peripheric m/min	Motor power kw	Tilting momentum kNm	Maximum fall on the logbolt kN	Weight Crane kg	Column by m kg
1000	4	2	2E4040	4000	4665	525	425	335	330	160	–	0.93	23.4	0.25	62	79	1100	122.5
	4.5	2	2E4540	4000	4665	525	425	305	360	170	–	0.93	26.3	0.25	71	79	1140	122.5
	5	2	2E5040	4000	4665	525	425	305	360	170	–	0.93	29.2	0.25	81	79	1170	122.5
	5.5	2	2E5540	4000	4785	525	425	385	400	180	–	0.57	19.7	0.25	90	79	1300	122.5
	6	2	2E6040	4000	4785	525	425	385	400	180	–	0.57	21.5	0.25	102	79	1335	122.5
	6.5	2	2E6540	4000	4785	525	425	220	565	–	300	0.57	23.3	0.25	112	79	1460	122.5
	7	2	2E7040	4000	4785	525	425	220	565	–	300	0.57	25	0.25	125	79	1500	122.5
	7.5	2	2E7540	4000	4785	525	425	220	565	–	300	0.57	27.3	0.25	135	79	1540	122.5
	8	3	3E8040	4000	4850	575	475	233	617	–	300	0.43	26.9	0.25	149	126	1800	141.6
	8.5	3	3E8540	4000	4850	575	475	233	617	–	300	0.43	23	0.25	160	126	1850	141.6
	9	3	3E9040	4000	4850	575	475	227	623	–	300	0.43	24.3	0.25	181	126	2280	141.6
	9.5	3	3E9540	4000	4850	575	475	227	623	–	300	0.43	25.6	0.25	195	126	2360	141.6
	10	3	3E1040	4000	4850	575	475	227	623	–	300	0.43	27	0.25	208	126	2440	141.6
	10.5	3	3E1540	4000	4850	575	475	227	625	–	300	0.43	28.3	0.25	221	126	2520	176.5
2000	4	2	2H4040	4000	4665	525	425	265	400	180	–	0.87	21.9	0.37	109	79	1160	122.5
	4.5	2	2H4540	4000	4785	525	425	335	450	190	–	0.78	22	0.37	126	79	1300	122.5
	5	2	2H5040	4000	4785	525	425	335	450	190	–	0.78	24.5	0.37	142	79	1340	122.5
	5.5	2	2H5540	4000	4785	525	425	220	565	–	300	0.78	27	0.37	161	79	1380	122.5
	6	2	2H6040	4000	4785	525	425	220	565	–	300	0.78	29.4	0.37	179	79	1530	152.6
	6.5	3	3H6540	4000	4850	575	475	227	623	–	300	0.53	21.5	0.37	202	126	1860	141.6
	7	3	3H7040	4000	4850	575	475	227	623	–	300	0.53	23.2	0.37	221	126	2045	176.5
	7.5	3	3H7540	4000	4850	575	475	177	673	–	300	0.53	24.8	0.37	241	126	2130	176.5
	8	3	3H8040	4000	4850	575	475	177	673	–	300	0.53	26.5	0.37	260	126	2185	176.5
	8.5	4	4H8540	4000	4820	588	488	147	673	–	300	0.49	26.4	0.37	282	183	2550	219.7
	9	4	4H9040	4000	4820	588	488	147	673	–	300	0.49	27.9	0.37	303	183	2590	219.7
	9.5	4	4H9540	4000	4820	588	488	97	723	–	300	0.49	29.5	0.37	326	183	2870	273.5
	10	5	5H1040	4000	4820	686	586	97	723	–	300	0.4	25.4	0.37	348	183	2880	183.6
	10.5	5	5H1540	4000	4820	686	586	97	723	–	300	0.4	26.6	0.37	372	183	2925	183.6

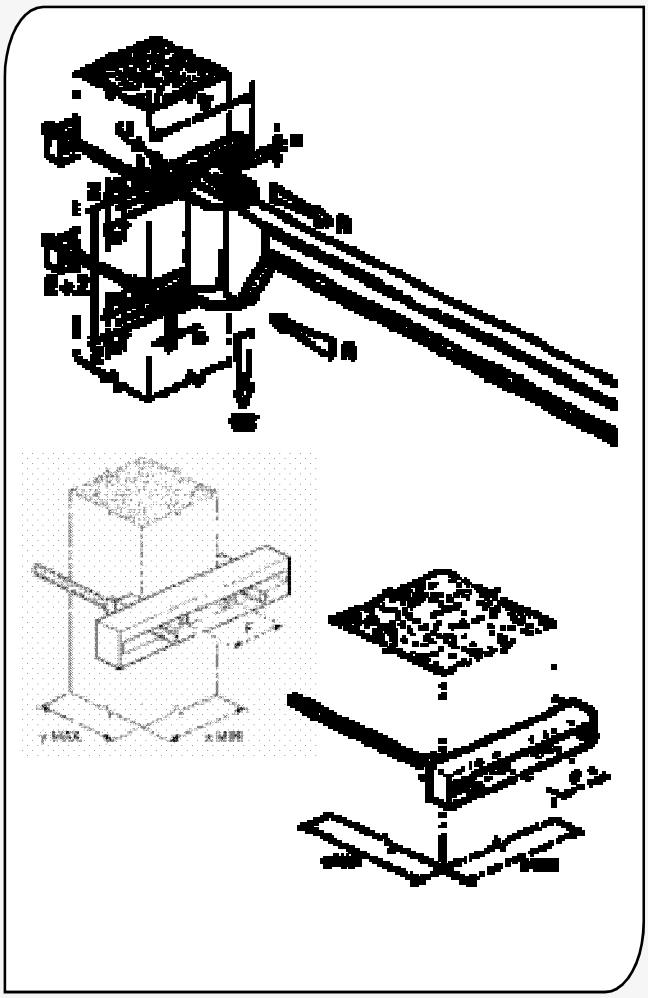
GBR SERIES COLUMN-MOUNTED JIB CRANE - ELECTRICALLY ROTATED AT 360° CONTINUOUSLY

Lifting capacity kg	Arm S m	Size of jib crane	GBR series column-mounted jib crane – Electrically rotated at 360° continuously: Type	Under beam h	Overall dimensions (mm) H	K1	A	M	T	L	L1	Arm speed n° of revolutions r.p.m.	Arm speed peripheric m/min	Motor power kw	Tilting momentum kNm	Maximum fall on the logbolt kN	Weight Crane kg	Weight Column by m kg
3200	4	2	2J4040	4000	4785	525	425	335	450	190	–	0.93	23.4	0.37	164	79	1380	152.6
	4.5	3	3J4540	4000	4785	575	475	168	617	–	300	0.91	25.7	0.37	191	126	1490	141.6
	5	3	3J5040	4000	4785	575	475	168	617	–	300	0.91	28.6	0.37	215	126	1525	141.6
	5.5	3	3J5540	4000	4850	575	475	227	623	–	300	0.63	21.8	0.37	242	126	1755	141.6
	6	3	3J6040	4000	4850	575	475	227	623	–	300	0.63	23.8	0.37	268	126	1940	176.5
	6.5	4	4J6540	4000	4820	588	488	147	673	–	300	0.59	24.2	0.37	295	183	2330	219.7
	7	4	4J7040	4000	4820	588	488	147	673	–	300	0.49	21.8	0.37	322	183	2585	273.5
	7.5	5	5J7540	4000	4820	686	586	97	723	–	300	0.5	23.8	0.37	353	183	2575	183.6
	8	5	5J8040	4000	4820	686	586	47	773	–	300	0.5	25.4	0.37	381	183	2695	183.6
	8.5	5	5J8540	4000	4820	686	586	44	776	–	300	0.4	21.6	0.37	411	183	2990	229
	9	5	5J9040	4000	4820	686	586	44	776	–	300	0.4	22.8	0.37	440	183	3055	229
	9.5	5	5J9540	4000	4915	686	586	89	826	–	300	0.35	21	0.55	472	183	3235	229
	10	5	5J1040	4000	4915	686	586	89	826	–	300	0.35	22	0.55	502	183	3485	274
	10.5	5	5J1540	4000	4915	686	586	89	826	–	300	0.35	23.2	0.55	535	183	3555	274
4000	4	3	3K4040	4000	4785	575	475	112	673	–	300	0.91	22.9	0.37	208	126	1575	141.6
	4.5	3	3K4540	4000	4785	575	475	112	673	–	300	0.91	25.7	0.37	239	126	1770	176.5
	5	3	3K5040	4000	4785	575	475	112	673	–	300	0.91	28.6	0.37	270	126	1835	176.5
	5.5	4	4K5540	4000	4820	588	488	147	673	–	300	0.64	22.1	0.55	301	183	2415	273.5
	6	4	4K6040	4000	4820	588	488	47	773	–	300	0.64	24.1	0.55	335	183	2525	273.5
	6.5	5	5K6540	4000	4820	686	586	47	773	–	300	0.53	21.6	0.55	367	183	2510	183.6
	7	5	5K7040	4000	4820	686	586	44	776	–	300	0.53	23.3	0.55	402	183	2805	229
	7.5	5	5K7540	4000	4820	686	586	44	776	–	300	0.53	25	0.55	435	183	2860	229
	8	5	5K8040	4000	4826	686	586	-6	826	–	300	0.53	26.6	0.55	471	183	2965	229
	8.5	5	5K8540	4000	4915	686	586	89	826	–	300	0.44	23.5	0.55	505	183	3280	274
	9	5	5K9040	4000	4915	686	586	89	826	–	300	0.44	24.9	0.55	540	183	3350	274
	9.5	5	5K9540	4000	4902	700	600	72	830	–	300	0.44	26.2	0.55	578	183	3575	274
	10	5	5K1040	4000	4902	700	600	72	830	–	300	0.35	22.1	0.55	619	183	3655	341.6
	10.5	5	5K1540	4000	4902	700	600	72	830	–	300	0.35	23.2	0.55	648	183	3725	341.6
5000	4	3	3L4040	4000	4785	725	475	112	673	–	300	0.91	22.9	0.37	253	126	1705	176.5
	4.5	4	4L4540	4000	4820	738	488	97	723	–	300	0.77	21.7	0.55	291	183	2105	219.7
	5	4	4L5040	4000	4820	738	488	97	723	–	300	0.77	24.1	0.55	328	183	2150	219.7
	5.5	5	5L5540	4000	4915	836	586	192	723	–	300	0.66	22.7	0.55	365	183	2415	183.6
	6	5	5L6040	4000	4915	836	586	139	776	–	300	0.66	24.8	0.55	405	183	2560	183.6
	6.5	5	5L6540	4000	4915	836	586	89	826	–	300	0.53	21.5	0.55	446	183	2850	229
	7	5	5L7040	4000	4915	836	586	89	826	–	300	0.53	23.1	0.55	485	183	2910	229
	7.5	5	5L7540	4000	4915	836	586	89	826	–	300	0.53	24.8	0.55	525	183	2980	229
	8	5	5L8040	4000	4902	850	600	72	830	–	300	0.53	26.5	0.55	567	183	3360	274
	8.5	5	5L8540	4000	4952	850	600	122	830	–	300	0.36	19.3	0.75	608	183	3715	341.6
	9	5	5L9040	4000	4952	850	600	122	830	–	300	0.36	20.4	0.75	649	183	3785	341.6
	9.5	6	6L9540	4000	4952	923	673	122	830	–	300	0.41	24.4	0.75	691	183	4025	311.5
	10	6	6L1040	4000	4952	923	673	122	830	–	300	0.33	20.6	0.75	733	183	4110	311.5
	10.5	6	6L1540	4000	4952	923	673	122	830	–	300	0.33	21.6	0.75	777	183	4180	311.5
6300	4	4	4M4040	4000	4820	738	488	97	723	–	300	0.96	24.1	0.55	327	183	2050	219.7
	4.5	5	5M4540	4000	4820	836	586	97	723	–	300	0.98	27.7	0.55	376	183	2250	183.6
	5	5	5M5040	4000	4820	836	586	47	773	–	300	0.78	24.6	0.55	425	183	2340	183.6
	5.5	5	5M5540	4000	4965	836	586	192	773	–	300	0.66	22.7	0.75	475	183	2470	183.6
	6	5	5M6040	4000	4965	836	586	189	776	–	300	0.66	24.8	0.75	526	183	2740	229
	6.5	5	5M6540	4000	4952	850	600	176	776	–	300	0.53	21.5	0.75	577	183	3045	274
	7	5	5M7040	4000	4952	850	600	126	826	–	300	0.53	23.1	0.75	630	183	3425	341.6
	7.5	6	6M7540	4000	4952	923	673	126	826	–	300	0.48	22.5	0.75	682	183	3675	311.5
	8	6	6M8040	4000	4952	923	673	122	830	–	300	0.48	24	0.75	736	183	3820	311.5
	8.5	6	6M8540	4000	4952	923	673	122	830	–	300	0.48	25.5	0.75	788	183	3910	311.5
8000	4	5	5N4040	4000	5003	736	586	177	826	–	300	0.88	22.1	1.5	401	183	2365	183.6
	4.5	5	5N4540	4000	5003	736	586	177	826	–	300	0.88	24.9	1.5	461	183	2425	183.6
	5	5	5N5040	4000	5003	736	586	173	830	–	300	0.7	22.1	1.5	522	183	2725	229
	5.5	5	5N5540	4000	5080	750	600	250	830	–	300	0.59	20.4	1.5	583	183	3130	274
	6	5	5N6040	4000	5080	750	600	250	830	–	300	0.59	22.3	1.5	644	183	3470	341.6
	6.5	6	6N6540	4000	5080	823	673	250	830	–	300	0.54	21.9	1.5	705	183	3670	311.5
10000	4	5	5O4040	4000	5080	750	600	250	830	–	300	0.88	22.2	1.5	487	183	2750	229
	4.5	5	5O4540	4000	5080	750	600	250	830	–	300	0.88	25	1.5	560	183	2985	274
	5	5	5O5040	4000	5080	750	600	250	830	–	300	0.74	23.2	1.5	633	183	3060	274
	5.5	6	6O5540	4000	5080	823	673	250	830	–	300	0.67	23.1	1.5	707	183	3540	311.5

FIXING SYSTEMS FOR JIB CRANES

BRACKET AND STAYBOLTS UNIT FOR GBP/MBB/MBE WALL-MOUNTED CRANES

Size of crane		A	B	C	D	E	F
Reactions (kN)	Q2	2.95	5	9.2	16.85	26.10	25.6
	R	11.9	21.75	27.05	49	66.8	120
Type of bracket		01		02		03	
Ø Staybolts		M14		M20		M30	
Clamping couples (Nm)		67		200		685	
Bracket type: Short (mm)	Code	GBP010110		GBP020110		GBP030110	
	U	50		60		80	
	V	400		490		532	
	Z	75		90		135	
	Weight (kg)	21		36		75	
Pillar dimensions (mm)	x min	200		250		300	
	x max	330		400		400	
	y max	850		810		750	
Bracket type: Medium (mm)	Code	GBP010120		GBP020120		GBP030120	
	U	50		80		100	
	V	530		640		682	
	Z	75		120		145	
	Weight (kg)	26		60		96	
Pillar dimensions (mm)	x min	200		250		400	
	x max	460		550		550	
	y max	850		770		710	
Bracket type: Long (mm)	Code	GBP010130		GBP020130		GBP030130	
	U	60		80		120	
	V	720		840		882	
	Z	85		120		155	
	Weight (kg)	40		74		132	
Pillar dimensions (mm)	x min	460		550		550	
	x max	650		750		750	
	y max	830		770		670	

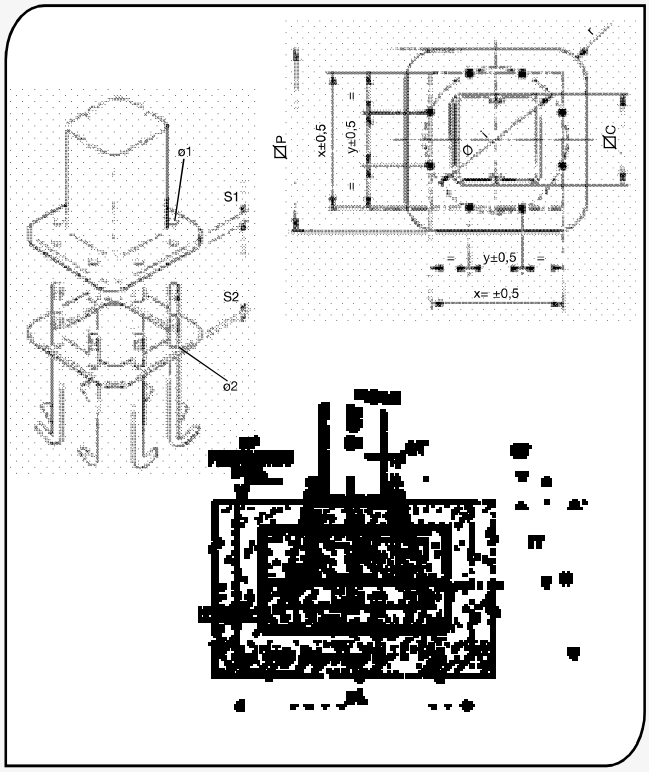


Note: The bracket and staybolts unit, used in the wall-mounted version for fixing the bracket to a pillar, is available on request.

BASE PLATES, FOUNDATION FRAMES AND PLINTHS FOR GBA/CBB/CBE SERIES COLUMN-MOUNTED CRANES

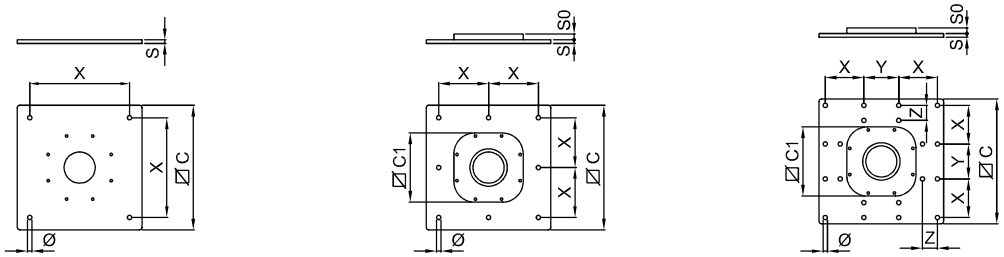
Size		R	S	T	U	V	Z
Base plate and foundation (mm)	⊠ C	205	258	296	372	435	515
	⊠ P	275	340	380	475	555	660
	S1	15	15	15	20	20	25
	S2	8	8	8	8	8	8
	x	247	305	345	432	506	599
	y	103	126	143	179	210	248
	Ø	268	330	373	468	548	648
	r	88	104	116	145	165	197
	ø1	16	20	20	25	29	35
	ø2	13	17	17	21	25	31
Tirafondi (mm)	ØT	M12	M16	M16	M20	M24	M30
	LT	400	450	450	550	600	700
	ST	40	45	45	55	60	75
Clamping couples (Nm)		45	105	105	200	350	680
Frame/bolts weight (kg)		5	10	11	17	26	47
Foundation plinth (mm)	⊠ L	1200	1300	1400	1700	2000	2400
	H	800	800	900	900	1100	1100
Reaction (kN)	Q1	3.3	5.7	10.15	18.4	28.7	29.35
Momentum (kNm)	MF	10	16	30	56	107	163

The dimensions of the plinths are purely indicative! The plinth must be dimensioned by expert, qualified technicians considering the real consistency of the groundand the maximum pressure allowed by this.



Note: The foundation frame with logbolts, used in the column-mounted version for fixing the column itself to the foundation plinth is supplied on request.

COUNTERPLATES FOR FIXING TO THE FLOOR WITH CHEMICAL BOLTS OF THE GBA/CBB/CBE COLUMN-MOUNTED CRANES



N° 4 chevilles chimiques — COUNTERPLATES R | S

N° 8 chevilles chimiques — COUNTERPLATES T | U

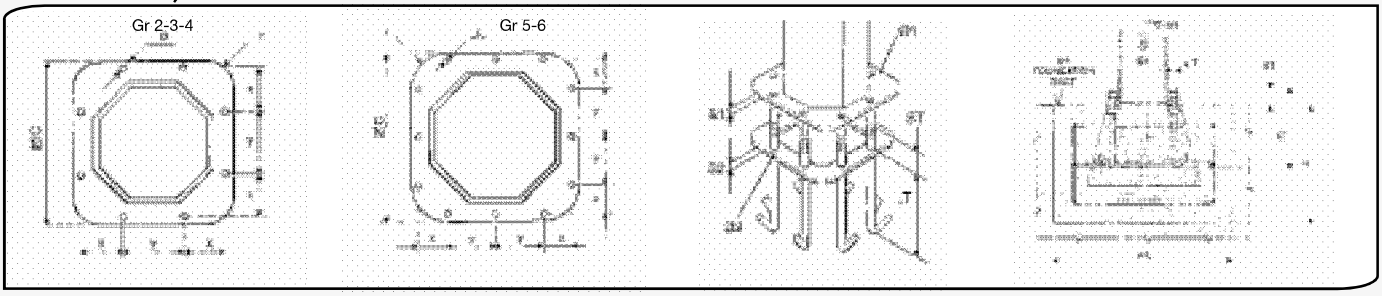
N° 20 chevilles chimiques — COUNTERPLATES V | Z

The fixing of the column using chemical bolts, needs a scrupulous check of suitability in relation to the type of support flooring. The suitability checks are the responsibility of the user and must be carried out by expert, qualified technicians who will evaluate the feasibility and formally assume the relative responsibilities.

Size of jib crane		R	S	T	U	V	Z
Counterplate code		GBA1R0PS0	GBA1S0PS0	GBA1T0PS0	GBA1U0PS0	GBA1V0PS0	GBA1Z0PS0
Counterplate measurements (mm)	⍁ C	500	500	700	700	1000	1200
	⍁ C1	-	-	380	475	555	660
	S	15	20	15	20	20	20
	S0	-	-	20	25	30	40
	X	340	400	250	300	300	370
	Y	-	-	-	-	300	380
	Z	-	-	-	-	120	185
	Nr x Ø	4x15	4x19	8x19	8x25	20x25	20x25
Counterplate weight (kg)		26	31	66	95	190	307
Maximum tiliting momentum allowed (kNm)	Mf	10.3	16	30	56	107	163.5
Fixing characteristics: Type of concrete of the floor: Class Rck minimum (kg/cm²)		250	250	250	250	250	250
Type of chemical bolts (e.g. HILTI HVU with threaded bars HILTI HAS)		M12	M16	M16	M20	M20	M20
Minimum thickness of the block of the floor (mm)		140	170	170	220	220	220
Diameter of the hole in the floor (mm)		14	18	18	24	24	24
Depth of the hole in the concrete of the floor (mm)		110	125	125	170	170	170
Clamping couples of the anchors (HILTI) (Nm)		50	100	100	160	160	160
Minimum resistance to traction of one anchor (kN)		18	26	26	38	38	38

For the clamping couples of the bolts between the column and the counterplate, see the relative clamping couples for the logbolts page 28

BASE PLATES, FOUNDATION FRAMES FOR GBR SERIES COLUMN-MOUNTED CRANE



Size of jib crane		2	3	4	5	6
Base plate and foundation frame (mm)	⍁ C	750	860	910	1100	1220
	S1	20	25	30	35	40
	S2	10	10	10	10	10
	x	199	230	241	185	215
	y	281	325	341	320	350
	Ø1	27	33	39	39	39
	Ø2	25	31	37	37	37
	r	150	170	180	220	240
Anchorage bolts (mm)	ØT	M 24x3	M 30x3.5	M 36x4	M 36x4	M 36x4
	LT	600	700	800	800	800
	ST	90	105	125	130	135
Clamping couples for the logbolts (Nm)		350	680	1200	1200	1200
Weight of the frame with logbolts (kg)		34.5	52.5	80	113	120
Foundation plinth (mm) (see warnings on the preceding page)	⍁ L	2500	3000	3200	4000	4200
	H	1150	1300	1300	1300	1300
Jib crane max. weight (without hoist and trolley)	Q1	1540	2520	2870	3785	4180
Maximum tilting momentum (kNm)	Mf	179	270	335	649	788

DUTIES AND RESPONSIBILITIES OF THE CLIENT AND/OR THE INSTALLER OF THE JIB CRANE

Preparation of the place of installation of the jib crane
To allow the installation of the jib crane it is necessary to carry out the following operations in advance:
- check suitability, adequacy of the support structures, obtaining the relevant declaration signed by an expert, qualified technician;
- check there are no obvious defects on the support structures and the fixing;
- check the suitability of the maneuvering areas (rotation) available to the jib crane, especially if it operates in areas where there are other cranes and manufacturing machines;
- check the suitability and the correct functioning of the electrical power supply:
  1) correspondence between the voltage of the power line with the voltage for the motors
  2) that there is a suitable switch, selector of the electric line;
  3) adequacy of the section of cable of the electric power line;
  4) the presence and suitability of the earthing system

  Set up the weights for the **test runs as equal to: nominal lifitng capacity x 1.1**
  Set up the weights for the **static runs as equal to: nominal lifting capacity x 1.25.**
  Set up the equipment for the slinging and the lifting of the weights for the load runs.

Installation of the jib crane
The installation of the jib crane, for the importance of the operations, if not carried out correctly can cause **serious risks for the safety of people** nearby in the assembly stage and the successive phase of use of the crane.
In any case this task must be entrusted to specialised installers for the assembly of industrial systems, following careful evaluation of the following parameters:
- environmental characteristics of the place of work (e.g.working surface,etc)
- height of the work level at a height with respect to the load level
- dimensions and weight of the parts to be installed
- available space for the handling of the parts to be installed.

Fixing of the crane to the structures
The check of the suitability of the anchorings to the pillar or to the floor as well as the sizing of the plinths must always be carried out by expert, qualified technicians who will formally assume their responsibilities.

Assembly of the jib crane
Before proceeding to the assembly of the parts and to to the putting into action of the jib crane, the installer must ensure that the characteristics of the crane are adequate to the use which it is intended for and in particular:
1) the lifting capacity of the crane is ≥ with respect to the loads to lift.
2) the characteristics of the fixing structures (plinth, floor, wall, pillar,etc.) have been **"declared suitable"** by the user or by expert technicians, engaged by the user.
3) 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:
   a. Lifting capacity of the hoist: must be ≤ with respect to the lifting capacity of the jib crane.
   b. **Weight of the trolley/hoist:** must be ≤ with respect to the maximum ones intended
   c. **Lifting/moving speed:** must be ≤ with respect to the maximum ones allowed.
   d. **Headroom of the figure of the hoist trolley:** must be ≤ with respect to those allowed.
   e. **Reactions on the trolley wheels:** must be ≤ with respect to the maximum ones allowed.

In the case of the jib crane with laminate girder, check the width of the wing of the girder which must correspond to that intended for the wheels of the trolley.
Following the installation activities of the jib cranes, it is the precise duty of the installer to:
1) lead the activiiteis of the putting into service as described in the manual of "Instructions for use"
2) fill in the report of the "check and corrrect installation" of the crane, deliberating over the "suitability for use"
3) take care of the complete editing of the responsibility of parts as intended in the checks register.

MADE IN ITALY
DESIGNED FOR THE WORLD

We have created machines for lifting which are simple to install, easy to maneuver and which offer excellent value-for-money.
Available manually or electrically rotated with lifting capacity up to 10.000kg, Donati jib cranes are able to meet the widest requests from the manufacturing and distribution worlds for internal handling of goods and materials.
Designed and planned for uses even in difficult environmental conditions, the jib cranes are real operating machines if used integrated with production centres, tools or work benches. They use normalised elements which allow numerous realisations all standardised.

Donati Sollevamenti is a leader in Italy in the manufacturing of components and products for industrial lifting and handling of goods and materials and for more than 70 years one of the best known and valued companies on the world market.

since 1930

ARTESTAMPA, Galliate Lombardo 03/2011

MAN05CG05

DONATI SOLLEVAMENTI S.R.L.

Via Roma, 55 - 21020 Daverio (Varese) - Italy - tel. +39 0332 942.611 - fax +39 0332 949.597
E-mail: info@donati-europe.com - www.donati.co.uk

DONATI U.K.

Unit 40 - Farriers Way Ind. Est. - NETHERTON - LIVERPOOL L30 4XL
tel. +44 (0)151 530 1139 - fax +44 (0)151 525 6613 - E-mail: sales@donati.co.uk

donati

ISO 9001
Cert. n. 0114