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# MANUAL AND ELECTRIC JIB CRANES



**GBA/GBP/CBB/MBB  
CBE/MBE/GBR/GBL  
SERIES**

# TOP QUALITY PRODUCTS FROM A LEADING COMPANY

**Donati Sollevamenti offers a product in line with the most international standards.**

Donati Sollevamenti was founded in Italy in 1930 and has since then earned a leading position on the international market for lifting and handling equipment, with exports accounting for around two thirds of its total turnover.

The advanced design and construction features of all Donati products, are the basis for the competitiveness and reliability of the entire range, which is suitable for all industries.

Donati designs and manufactures its products in Italy, its marketing mix is known for its vast range (standard and special solutions), excellent quality/price ratio, fast response and delivery; it is the ideal partner for overhead travelling crane manufacturers, material handling integrators and distributors as well as service companies specialised in retrofitting/refurbishing. Donati is known in the market for its

constant focus on customer satisfaction, its in-house priorities are the quality of processes, health and safety as well as environment protection (Donati is ISO 9001 - ISO 14001 - OHSAS 18001 certified). Donati also complies with the provisions of the Italian Legislative Decree 231/01 concerning the administrative responsibility of legal entities and companies (governing Compliance, and also Safety and Environmental issues).





## THE DONATI LIFTING RANGE

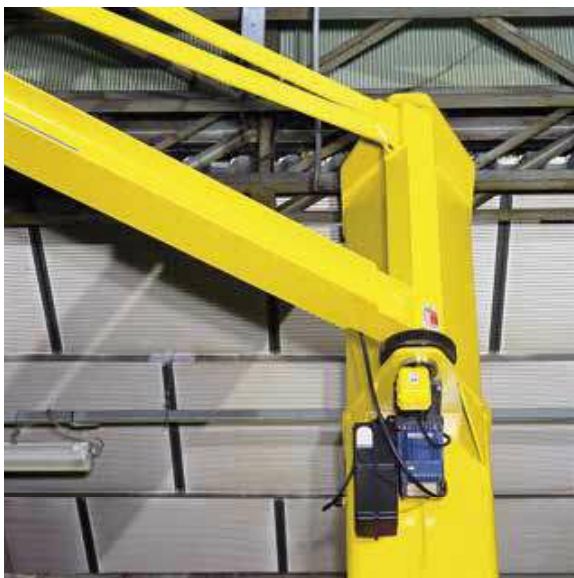
The product range covers all aspects of Industrial lifting always offering an unbeatable value for money combined with a pleasing and professional design.

DMK electric chain hoists for capacities up to 4,000 kg, jib cranes with manual or electric rotation, DRH electric wire rope hoists with capacities up to 50,000 kg, 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, and on request, CSA homologation for DMK and DRH hoists, complete the range

ensuring an answer to the most diverse and specific application needs.

Donati Sollevamenti S.r.l.'s constant attention is always focused on maximum Customer satisfaction and is aimed at starting a long-term relationship based on mutual esteem and trust thanks to the flexibility and promptness of its organisation and direct personal contact.

The after sales service aims to resolve problems immediately, whether for spare parts, assistance or warranties.





Donati Sollevamenti designs and manufactures both jib cranes and hoists, with wire rope or chains, which are the natural completion. This design and manufacturing harmony ensures the perfect integration of the components and lets us offer the market a 3 year warranty.

# JIB CRANES

**GBA, GBP, CBB, MBB, CBE, MBE, GBR, GBL SERIES**

Donati Sollevamenti jib cranes offer the most complete range of solutions for local handling of loads up to 10,000 kg and are the result of in-depth knowledge of the most wide ranging application and more than 70 years of expertise with lifting.

Mass production performed with industrialised processes makes it possible to create, through economies of scale, completely reliable and technically innovative cranes with an excellent price/performance ratio.

The quality of the components used, and the excellent finishing of the metal structural work, as well as the EN ISO 9001 certified quality system allows us to offer a higher quality product, constant over time and always in line with the most modern international standards.

The jib cranes are part of the product range for lifting manufactured by Donati, a leading Italian company, one of the top in the lifting sector on a worldwide level.





## CONCEPT, CONSTRUCTION AND THE RANGE

Jib cranes, with manual or electric rotation in column or wall versions, are created to locally handle goods inside a plant, on a square or along with operating stations.

Studied and designed also for use in difficult environmental conditions, jib cranes become full operating machines if used and integrated into production centres, machine tools or work benches. They adopt standardised parts which make it possible to create completely standardised configurations.

Jib cranes perform three operations:

- they vertically lift the load in space, using the hook of the lifting unit, generally composed of a DMK chain hoist or DRH wire rope hoist;
- they move the load transversally in space, with the use of a hoist-carrying trolley, either electric or manual, which moves along the radial axis of the crane arm (with the exception of cranes with articulated arm where the hoist normally does not move on the trolley since it is connected in a fixed position at the end of the arm);
- they rotate the load in space, around the constrained axis of the arm, through a manual push action of the load or electrically by means of a gear motor, serving the circular area below, limited by the rotation radius of the arm.

Jib cranes are mass produced for capacities starting from 63 to 10,000 kg and jibs from 2 to 10.5 m in the following executions:

- Jib cranes with manual rotation, max. capacity 2,000 kg
  - **GBA SERIES** column-mounted, 300° rotation
  - **GBP SERIES** wall-mounted, 270° rotation
- Jib cranes with articulated arm, max. capacity 500 kg
  - **CBB SERIES** column-mounted, 360° manual rotation
  - **MBB SERIES** wall-mounted, 360° manual rotation
- Jib cranes with motorised arm, max. capacity 2,000 kg
  - **CBE SERIES** column-mounted, 300° electric rotation
  - **MBE SERIES** wall-mounted, 270° electric rotation
- Jib cranes with continuous electric rotation, max. capacity 10,000 kg
  - **GBR SERIES** column-mounted, 360° electric rotation
- Jib cranes with continuous electric rotation, max. capacity 5,000 kg and max. manual capacity 2,000 kg
  - **GBL SERIES** column-mounted, 360° continuous rotation

# CONSTRUCTION CHARACTERISTICS



## MODULAR COMPONENTS

Thanks to the modular components all Donati jib cranes are tailored for customer needs in a fast and efficient way - as standardised as well as special configurations.

Basis versions are always available in the warehouse. Because of their extreme compactness the base components, columns, brackets and arms, enable the maximum use of the hook run and, thanks to their minimum lateral headroom, allow the optimal use in the operating area.

## COLUMN

The column jib 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 lug 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.

## BRAKING DEVICE OF THE ARM

The arm of the manually rotated jib crane is fitted in all models with a braking system. The brake, the 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 lug bolts. The jib cranes are generally designed to be fixed to the ground using the foundation frame with lug bolts inserted in the foundation plinth.
- Chemical bolts. The fixing of the column to the floor can be done using chemical bolts, also with a counterplate where necessary which allows better distribution of forces.
- Brackets and staybolts unit. This is used for fixing the bracket jib crane to a supporting pillar and is fitted with a pressure screw 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 (installed only on GBR and GBL series cranes) with 1 or 2 lifting and moving speeds.

## HEIGHT OF COLUMNS AND 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:

SERIES	"STANDARD" HEIGHT OF THE COLUMNS (m)						
	CRANE HEIGHT	DIMENSION	"BASE" HEIGHT	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
GBL	2-3	h	3,5	4	-	-	-
	5	h	4	4.5	-	-	-

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.

There are also special cranes with arms lengths other than the standard ones in the technical tables.

### FINISHING

Protection from atmospheric agents (dust, etc.) is guaranteed by a painting treatment that includes the application of a coat of yellow two component acrylic polyurethane enamel with a 50 micron thickness, after preparation of the surfaces with metallic sandblasting with SA2 grade. Drying in an oven for 15 minutes at a temperature of 45/50°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 4301-1/88).

### PROTECTION AND INSULATION OF ELECTRICAL PARTS

- Rotation motor: Protection IP54 (motors) IP23 (brakes); insulation class "F" (where necessary)
- Electrical panel: Minimum protection IP55 - Maximum voltage insulation 1500V (where necessary)
- Push-button panel: Protection IP65 - Maximum voltage insulation 500V (where necessary)
- Collector ring: Protection IP65 - Maximum voltage insulation 600V (where necessary)
- Rotation limit switch: Protection IP65 - Maximum voltage insulation 500V (where necessary)
- Connector blocks: Minimum protection IP65 - Maximum voltage 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

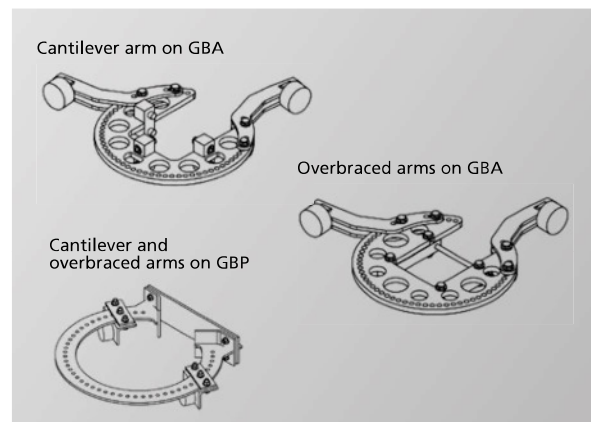
Use temperatures: minimum - 10° C; maximum + 40° C  
Maximum relative humidity: 80% - Maximum altitude 1000 m above sea level. The standard crane must be installed in a ventilated environment, free from corrosive vapours (acid vapours, saline clouds, etc) and is designed for use in an indoor area (protected 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 85 dB (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.

### Rotation stops for arms on GBA and GBP



### SPECIAL VERSIONS

On request the following can be supplied for jib cranes:

- Special anticorrosive paint.
- Protection cover for motors and control panel (GBR series). Hoist-trolley protection cover in standby position (GBA/GBP - CBE/MBE series).
- Gear protection guard (CBE/MBE series).
- Rotation motor with stainless steel brake blocks and / or tropicalisation (for electrically rotated cranes).
- Anti-condensation heaters.
- Rotation stops (GBA/GBP series).
- Supplementary electrical safety limit switches (for electrically rotated cranes).
- Power supply voltages different from the standard ones (for electrically rotated cranes).
- Columns with double opposite and parallel arms (GBA series).
- Customised column heights and arm lengths.
- Galvanised treatment for GBA/GBP series cranes with T and H version arm.



# 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 purposes. The standard models are available for lifting capacities from 125 to 2,000 kg and jibs from 2 to 8 m. The C-T-H- versions are designed according to the three different versions of the arm.

**"C" CHANNEL VERSION FOR LIFTING CAPACITIES FROM 63 kg TO 1,000 kg AND JIBS FROM 2 TO 7 m**

The arm is made using a special section bar made of folded sheet metal, inside which the hoist-carrying trolley runs. 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 63 kg TO 2,000 kg AND JIBS FROM 2 TO 5 m**

The arm is made using a laminated double T-beam form: the hoist carrying trolley runs 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 additional of electrical or mechanical push-trolleys.



**"H" OVERBRACED VERSION FOR LIFTING CAPACITIES FROM 12563 kg TO 2,000 kg AND JIBS FROM 4 TO 8 m**

The arm is made using a laminated double T-beam form: the hoist carrying trolley runs on the lower flange of the T-beam. The arm is fitted with one or two staybolts to support the profile which connect 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 additional 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 at the top of the column crane near the bracket support in the wall version.

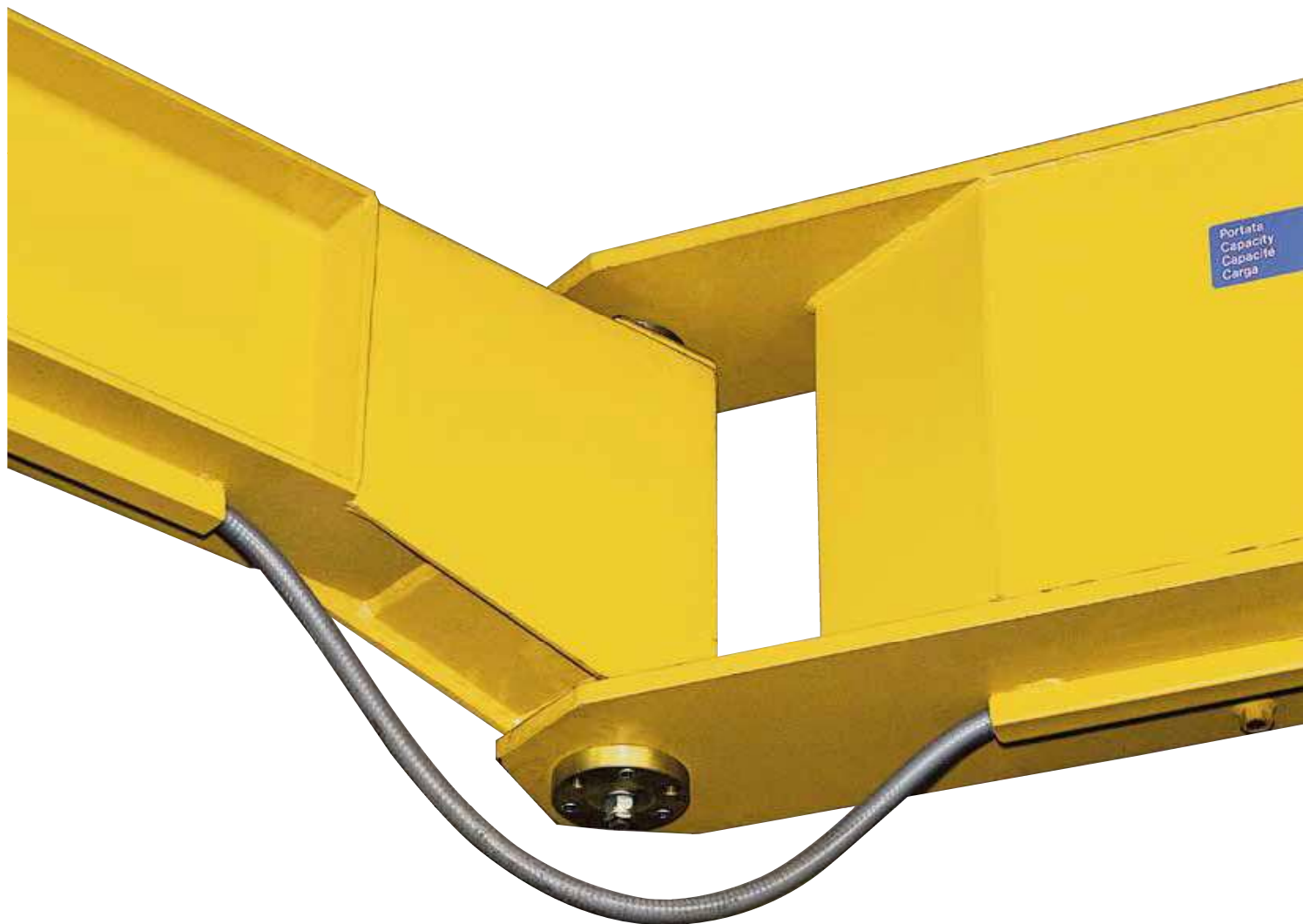
The column crane can be supplied, on request, with a main on / off line switch which can be padlocked. The distribution of energy takes place via a flame-retardant flat festoon cable which slides on specific trolleys or slides along the arm.

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# JIB CRANES WITH 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 ARTICULATED ARM  
IN THE CBB "COLUMN" SERIES  
AND THE MBB "WALL" SERIES**

are designed for the handling of goods inside the 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 arm" 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 capacities from 125 to 500 kg and jibs from 2 to 7 m.

**ARTICULATED JIB**

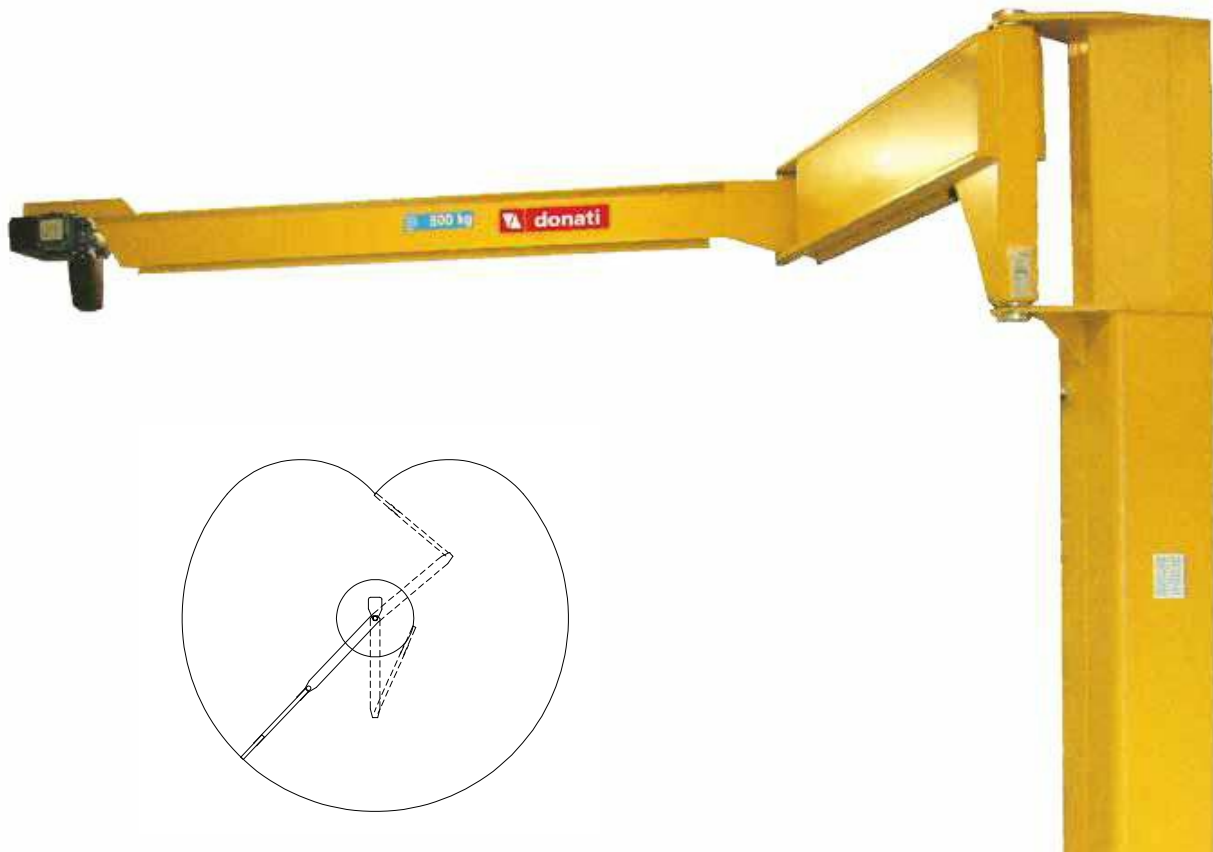
The jib cranes both in wall and column versions, are fitted with an "articulated arm", which rotates on its own axis. The articulated arm is made using two

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 laminated double T-beam form. The first segment (semi-arm on the tie side) rotates around the axis situated on the column or 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, thus avoiding any obstacles to the rotation as well as increasing the surface area served behind the column or the fixing pillar of the

bracket. The entire articulated arm is directly integral with, via suitable reinforcements, the rotation tube. The two-rotation 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 on the column in the CBB version. The distribution of energy takes place via the fire-retardant cable. Electrical line with round multipolar flexible cable inserted on a channel welded under the flange of the jib. Push-button panel hanging from the hoist.



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# 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 MOTORISED ARM IN THE CBE "COLUMN" SERIES AND THE MBE "WALL" SERIES**

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 to 2,000 kg and jibs from 2 to 8 m. The T and H versions are designed according to the different layouts of the arm.

### **"T" CANTILEVER VERSION FOR LOADS FROM 500 KG TO 2,000 KG AND JIBS FROM 3 TO 6 M**

Made using a rolled steel I-beam form: the hoist carrying trolley runs on the lower flanges 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 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 additional of electrical or mechanical push-trolleys.



### **"H" OVERBRACED VERSION FOR LIFTING CAPACITIES FROM 250 KG TO 2,000 KG AND JIBS FROM 4 TO 8 M**

Made using a laminated double T-beam form: the hoist carrying trolley runs on the lower flange of the T-beam. The arm is fitted with one or two staybolts to support the profile which connect it to the 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 additional of electrical or mechanical push-trolleys.

### **ROTATING ARM**

The arm, rotating around its own axis on rolling bearings, consists of 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 epicyclic type, with gears in a thermally treated oil bath and self-braking conical brake motor. The drive sprocket of the motor reducer fits together with the toothed crown integral with the arm which it powers. The progressive starting up and braking are ensured by a frequency variator (inverter) powered by alternate monophase 230V voltage. A three phase inverter is needed to supply cranes other than 400 V.

### **ELECTRICAL POWER SUPPLY**

To power the hoist and trolley, which run along the jib of the crane as well as the rotation motor reducer- 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 of 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 wiring of the cables related to all the external functions making any inspections easy to perform. The power line to power the trolley-hoist formed by flexible flat fire-retardant multipolar cables festooned on the sliding trolleys on the lower flange of the beam. The push-button control panel, suspended on the hoist, with a shockproof thermoplastic case, supported by a round multipolar cable and suspended with specific ropes.

When necessary it is fitted with a rapid socket with obliged polarity to make it easier to assemble and replace. On request an independent, sliding, push-button panel can be installed along the jib of the crane, via cable-carrying trolleys inside a channel profile via multipolar cable with festoons. 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 carry out the emergency function in safety if there is any fault or malfunctioning of the first threshold of intervention. For the connections to the line, there are:

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

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



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# 360° ELECTRICALLY ROTATED JIB CRANES

## GBR "COLUMN" SERIES

ROTATION FIELD 360° CONTINUOUS ROTATION



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### 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 and deposits
- on harfs, to load and unload materials for watercraft
- on harfs 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 1,000 to 10,000 Kg and jibs from 4 to 10.5 m.

#### COLUMN

Made of press-forged steel sheet welded to the tubular structure with octagonal section it allows a high rigidity and stability; it is fixed with a base plate and a system of bolts or lug bolts. 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 length, can be made rolled steel I-beam form or box beam designed to guarantee the maximum flexotorsional stability. In the construction of the supporting box beam high quality section steel is used and welded 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 rotations, 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 lug 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 lifting and movement unit on the trolley/hoist, while the control apparatus of the rotation motoreducer is integral with the arm. Inside the panels there are the contactors for the control of all of the movements, as well as protection fuses against short circuits. The control circuits are low voltage obtained via a transformer protected by fuses. A connection terminal box, with numbered terminals, ensures simplicity and safety of the wiring 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 the wiring of the cables related to all the external functions making any inspections easy to perform.

The electrical line to power the trolley-hoist formed by flexible flat fire-retardant multipolar cables festooned on the trolleys which slide inside a channel section.

A hanging push-button control panel, with shockproof thermoplastic casing, sliding, along the crane girder, via trolleys inside a channel section using festooned flexible multipolar cable. It is supported by a round multipolar cable and suspended by specific ropes. It is generally fitted with a rapid socket with obliged polarity to make it easier to assemble and replace.

Acoustic alarm, when included, controlled by an "alarm" button 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 switch on the rotation movements, installed to delineate the rotation field of the arm of the crane. Acting on the auxiliary circuits at low voltage, two thresholds of intervention both in right rotation and left, also carry out the emergency function in safety if there is any fault or malfunctioning of the first threshold of intervention.



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# ELECTRICALLY AND MANUALLY ROTATED JIB CRANES 360°

## GBL "COLUMN" SERIES

360° ROTATION WITH CONTINUOUS ROTATION



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### THE GBL SERIES ELECTRICALLY OR MANUALLY ROTATED JIB CRANES

Are the ideal solution for handling loads in internal environments. Available as standard for lifting loads from 1,000 to 5,000 kg and jibs from 4 to 8 m with electrical rotation and up to 2,000 kg with manual rotation.

### COLUMN

Made of press-forged steel sheet welded to the tubular structure with octagonal section it allows a high rigidity and stability; it is fixed with a base plate and a system of lug bolts. The upper part is equipped with a flange for fixing the sprocket (for electrical rotation of the arm) and ball bearing for centring and rotation of the arm on the column and a rolling track.





### **ROTATING ARM**

This is formed by a supporting girder made in rolled steel I-beam, a centring pin on the vertical axis of the column and a reaction arm with roller box which slide on the rolling track of the column.

The electrical rotation of the crane arm is ensured by a motoreducer which is connected to the arm. The circular area served by the arm can, according to necessity, be limited by electrical limit switches, or allows continual rotations in both directions through the use of a rotating collector ring.

### **ROTATION MECHANISMS**

Composed of a 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 external tothing of the crown attached to the column.

### **FIXING SYSTEM**

The foundation frame with lug bolts is supplied, on request, for fixing the column to the base (foundation plinth). For cranes with capacity up to 2,000 kg and jig up to 8 m, the fixing may also be done with the use of chemical bolts and specific counterplate.

### **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 lifting and movement unit on the hoist/trolley, while the control apparatus of the rotation motoreducer is integral with the arm. Inside the panels there are the contactors for the control of all of the movements, as well as protection fuses against short circuits. The control circuits are low voltage obtained via a transformer protected by fuses. A connection terminal box, with numbered terminals, ensures simplicity and safety of the wiring of the cables related to all the external functions making any inspections easy to perform.

The electrical line to power the trolley-hoist formed by flexible flat fire-retardant multipolar cables festooned on the trolleys which slide inside a channel section.

Push-button panel hanging from the hoist/trolley control equipment. It is supported by a round multipolar cable and suspended by specific ropes.

Remote control when requested as an alternative to the traditional push-button panel, in cases of bulky loads in order to remotely control all movements.

Acoustic alarm, controlled by an "alarm" button 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 switch on the rotation movements, when requested, installed to delineate the rotation field of the arm of the crane. Acting on the low voltage auxiliary circuits, it has two thresholds of intervention both in right rotation and left, also carry out the emergency function in safety if there is any fault or malfunctioning of the first threshold of intervention.

# 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 Annex I of Machinery Directive 2006/42/EC** and are put on the market with the **CE mark** and **CE Declaration of Conformity - Annex II A.**

In addition the jib cranes are in compliance with the following directives:

- **LOW VOLTAGE DIRECTIVE 2014/35/UE**
- **ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2014/30/UE**

## REGULATORY REFERENCE FRAMEWORK

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

- EN ISO 1210:2010 “General principles for design”
- EN ISO 13849-1:2008 “Safety-related parts of control systems (where required)”
- EN 12077-2:2008 “Limiting and indicating devices”
- EN 60204-32:2009 “Safety of machinery. Electrical equipment of machines. Requirements for hoisting machines”
- EN 60529:1997 “Degrees of protection provided by enclosures (IP Code)”
- ISO 4301-1:1988 “Cranes and lifting appliances Classification”
- FEM 1.001/98 “Rules for the design of hoisting appliances”



# 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 their limits of use and, thus, the right choice. These are essentially the actual lifting capacity, the stress level and the functional parameters.

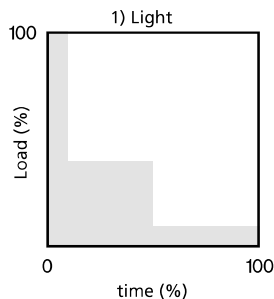
LIMITS OF USE OF THE JIB CRANES OF THE SERVICE CLASS ISO A5 (ACCORDING TO ISO 4301-1/88)				
STRESS LEVEL	1) LIGHT	2) MEDIUM	3) HEAVY	4) VERY HEAVY
Type of service	intense irregular use	intermittent irregular use	regular light use	irregular use
Conditions of use	U 6	U 5	U 4	U 3
N° of operative cycles in 10 years	1.000.000	500.000	250.000	125.000

## ACTUAL LIFTING CAPACITY

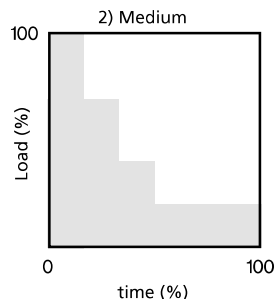
This is determined by the heaviest load to be lifted.

## STRESS LEVEL

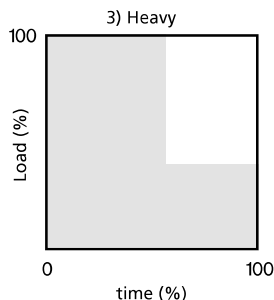
The stress level is determined considering the actual entity of the loads to be lifted and it is ascribable to one of the four load regimes shown below.



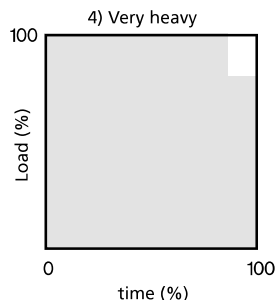
Crane which rarely lifts maximum loads but mainly reduced loads.



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 stress level intended for the crane, that the limits of use, type of service and n° of cycles intended in 10 years of work are not in contrast with the following table.

## FUNCTIONAL PARAMETERS

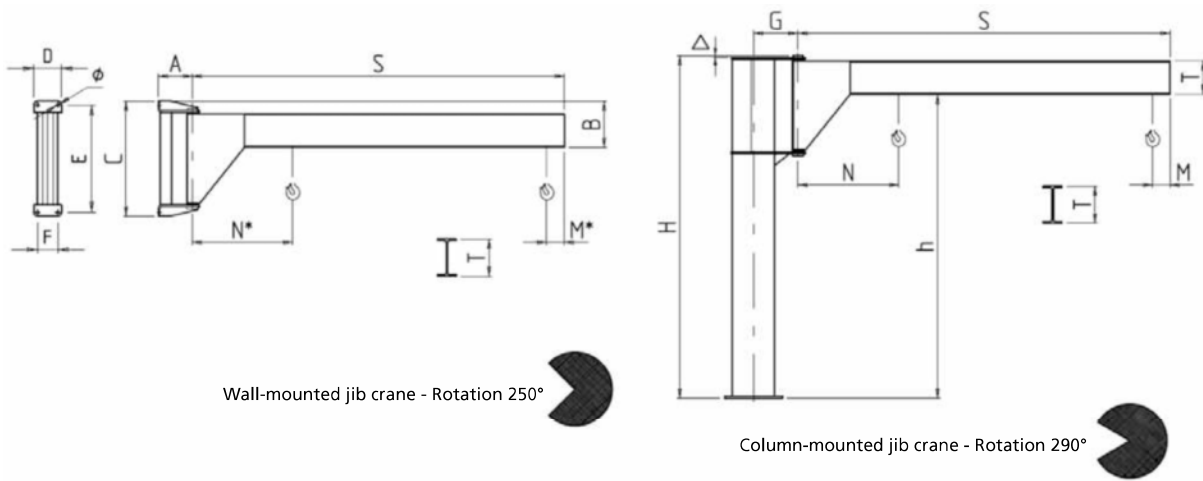
The functional parameters which must be carefully considered in the choice of jib cranes are:

- Functional dimensions: height of the arm, which determines the hook run of the hoist, and its jib must be selected so as to guarantee the functional coverage of the area to be served in consideration of the surrounding environment.
- Type of travel (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 travel).. 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 the wind. Measures must be taken for outdoor use for a suitable surface treatment (sandblasting - painting (as well as):
  - for manually rotated cranes: an arm parking brake system and an adequate protection cover for the hoist-trolley.
  - for electrically rotated cranes: adequate protective covers for the hoist-trolley, for the motoreducer and for the electric 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 manual handling must be taken into consideration.





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



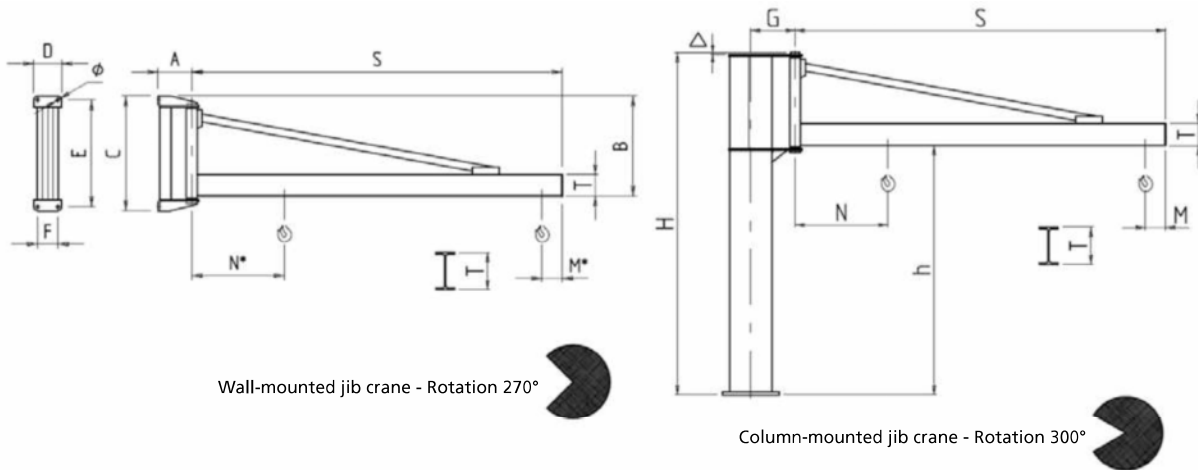
Wall-mounted jib crane - Rotation 250°

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	SIZE OF JIB CRANE		GBP SERIES WALL-MOUNTED JIB CRANES - T VERSION										GBA SERIES COLUMN-MOUNTED CRANE - VERSION T										
				TYPE	OVERALL DIMENSIONS (mm)								WEIGHT JIB CRANE	HEIGHT		TYPE	OVERALL DIMENSIONS (mm)						WEIGHT	
					A	B	C	D	E	F	Ø	kg		BASE	MAX.		UNDER BEAM	h	G	M	N	T (IPE)	Δ	JIB CRANE
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	
250	5	B	S	T01B50	170	288	644	200	594	150	15	147	3	5	T30S50	2760	274	190	785	200	12	222	22.8	
	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	
500	7	E	V	T03E72	255	500	1240	300	1160	220	34	555	4	6	T40V72	3580	443	190	1135	360	20	852	64	
	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	
1000	7	E	V	T03E75	255	540	1240	300	1160	220	34	596	4	4	T40V75	3540	443	190	1270	400	20	893	64	
	4	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	
1600	6	F	Z	T03F65	255	540	1240	300	1160	220	34	530	4	4	T40Z65	3540	513	190	1190	400	20	912	75.2	
	6	F	Z	T03F75	255	590	1240	300	1160	220	34	688	190 1270 450											
	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

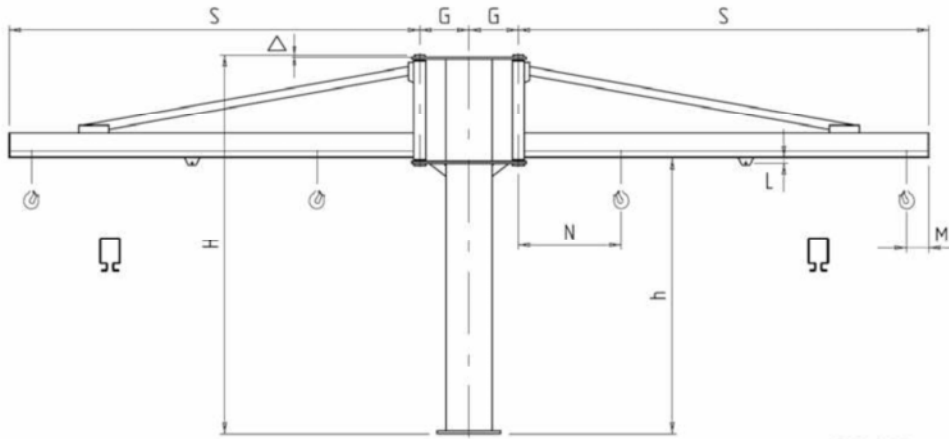


Heights M\* and N\* for wall-mounted jib cranes. See corresponding heights relative to column-mounted jib cranes.

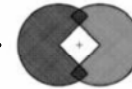
LIFTING CAPACITY kg	ARM S m	SIZE OF JIB CRANE		GBP SERIES WALL-MOUNTED JIB CRANES - H VERSION										GBA SERIES COLUMN-MOUNTED CRANE - VERSION H										
		BRACKET	COLUMN	TYPE	OVERALL DIMENSIONS (mm)								WEIGHT JIB CRANE kg	HEIGHT H m		TYPE	OVERALL DIMENSIONS (mm)						WEIGHT	
					A	B	C	D	E	F	Ø	BASE		MAX.	UNDER BEAM h		G	M	N	T (IPE)	Δ	JIB CRANE kg	COLUMN BY m kg	
125	6	C	T	H02C60	210	820	930	250	870	190	22	160	3.5	5.5	H35T60	2738	323	190	900	160	17	285	35	
	7	C	T	H02C70	210	820	930	250	870	190	22	180	3.5	5.5	H35T70	2738	323	190	960	160	17	305	35	
	8	D	U	H02D80	210	820	930	250	870	190	22	251	3.5	5.5	H35U80	2738	386	190	1070	200	17	425	43.5	
250	4	C	T	H02C40	210	820	930	250	870	190	22	122	3.5	5.5	H35T40	2738	323	190	780	160	17	247	35	
	5	C	T	H02C50	210	820	930	250	870	190	22	141	3.5	5.5	H35T50	2738	323	190	840	160	17	266	35	
	6	D	U	H02D60	210	820	930	250	870	190	22	200	3.5	5.5	H35U60	2738	386	190	950	200	17	374	43.5	
	7	D	U	H02D70	210	820	930	250	870	190	22	226	3.5	5.5	H35U70	2738	386	190	1010	200	17	400	43.5	
500	8	E	V	H03E80	255	1100	1240	300	1160	220	34	303	4	6	H40V80	2980	443	190	1140	200	20	620	64	
	4	D	U	H02D40	210	820	930	250	870	190	22	149	3.5	5.5	H35U40	2738	386	190	830	200	17	323	43.5	
	5	D	U	H02D50	210	820	930	250	870	190	22	175	3.5	5.5	H35U50	2738	386	190	890	200	17	349	43.5	
	6	E	V	H03E60	255	1100	1240	300	1160	220	34	262	4	6	H40V60	2980	443	190	1020	200	20	559	64	
	7	E	V	H03E70	255	1100	1240	300	1160	220	34	293	4	6	H40V70	2980	443	190	1080	200	20	590	64	
	8	F	Z	H03F80	255	1100	1240	300	1160	220	34	389	4	6	H40Z80	2980	513	190	1240	240	20	771	75.2	
	4	E	V	H03E40	255	1100	1240	300	1160	220	34	200	4	6	H40V40	2980	443	190	900	200	20	497	64	
	5	E	V	H03E50	255	1100	1240	300	1160	220	34	231	4	6	H40V50	2980	443	190	960	200	20	528	64	
1000	6	F	Z	H03F60	255	1100	1240	300	1160	220	34	312	4	6	H40Z60	2980	513	190	1120	240	20	694	75.2	
	7	F	Z	H03F70	255	1100	1240	300	1160	220	34	351	4	6	H40Z70	2980	513	190	1180	240	20	733	75.2	
	8	F	Z	H03F85	255	1100	1240	300	1160	220	34	430	4	6	H40Z85	2980	513	190	1180	*152	20	812	75.2	
1600	6	F	Z	H03F67	255	1100	1240	300	1160	220	34	312	4	6	H40Z67	2980	513	210	1140	240	20	694	75.2	
2000	4	F	Z	H03F40	255	1100	1240	300	1160	220	34	233	4	6	H40Z40	2980	513	210	1020	240	20	615	75.2	
	5	F	Z	H03F50	255	1100	1240	300	1160	220	34	272	4	6	H40Z50	2980	513	210	1080	240	20	654	75.2	

\* Profiled girder type HEA160

# GBA SERIES JIB CRANES WITH DOUBLE ARM – C VERSION – PROFILED CHANNEL



Column-mounted jib crane - Rotation 260°+260°

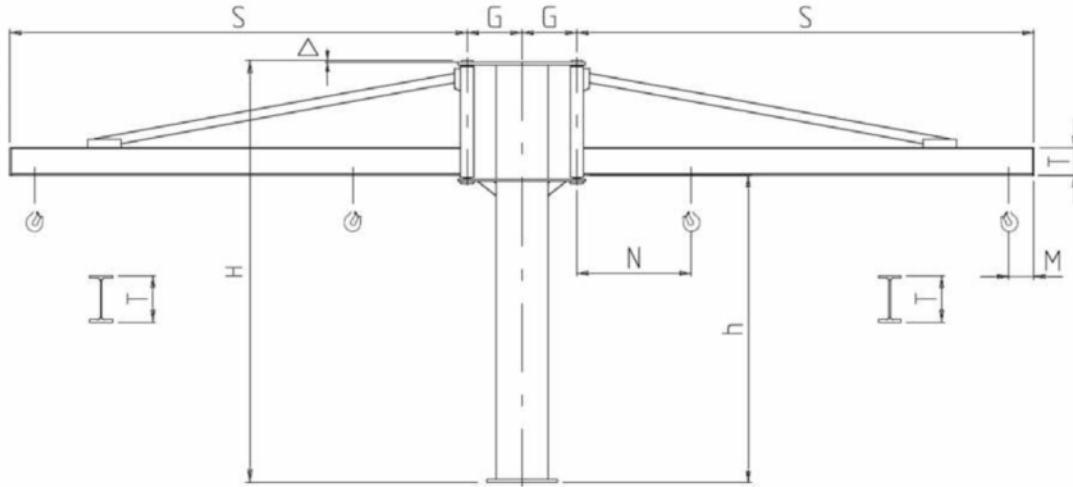


LIFTING CAPACITY	ARM S		SIZE OF JIB CRANE	TROLLEY TYPE	GBA SERIES COLUMN-MOUNTED CRANE - VERSION C										WEIGHT	
	ARM	ARM C/W COVER			HEIGHT	TYPE	OVERALL DIMENSIONS (mm)							JIB CRANE	COLUMN BY m	
							BASE	MAX.	UNDER BEAM	G	L	M	N			Δ
63+63	2	2056	R	CCP	3	5	C30G20	2496	228	34	140	525	12	139	18.2	
	3	3056	R	CCP	3	5	C30G30	2496	228	34	140	585	12	165	18.2	
	4	4056	S	CCP	3	5	C30H40	2496	274	34	140	585	12	215	22.8	
	5	5056	S	CCP	3	5	C30H50	2496	274	34	140	645	12	241	22.8	
	6	6066	T	CCP	3.5	5.5	C35I60	2738	323	34	140	785	17	376	35	
	7	7066	T	CCP	3.5	5.5	C35I70	2738	323	34	140	845	17	406	35	
125+125	2	2056	S	CCP	3	5	C30H20	2496	274	34	140	525	12	163	22.8	
	3	3056	S	CCP	3	5	C30H30	2496	274	34	140	585	12	189	22.8	
	4	4066	T	CCP	3.5	5.5	C35I40	2738	323	34	140	665	17	316	35	
	5	5066	T	CCP	3.5	5.5	C35I50	2738	323	34	140	725	17	346	35	
	6	6066	U	CCP	3.5	5.5	C35L60	2738	386	34	140	820	17	430	43.5	
	7	7066	U	CCP	3.5	5.5	C35L70	2738	386	34	140	880	17	460	43.5	
250+250	2	2066	T	CCP	3.5	5.5	C35I20	2738	323	34	140	610	17	256	35	
	3	3066	T	CCP	3.5	5.5	C35I30	2738	323	34	140	670	17	286	35	
	4	4066	U	CCP	3.5	5.5	C35L40	2738	386	34	140	695	17	386	43.5	
	5	5066	U	CCP	3.5	5.5	C35L50	2738	386	34	140	755	17	418	43.5	
	6	6076	V	CCG	4	6	C40M60	2980	443	43	156	880	20	815	64	
	7	7076	V	CCG	4	6	C40M70	2980	443	43	156	940	20	875	64	
500+500	2	2066	U	CCPD	3.5	5.5	C35L20	2738	386	34	265	750	17	310	43.5	
	3	3066	U	CCPD	3.5	5.5	C35L30	2738	386	34	265	810	17	340	43.5	
	4	4076	V	CCG	4	6	C40M40	2980	443	43	156	760	20	700	64	
	5	5076	V	CCG	4	6	C40M50	2980	443	43	156	820	20	757	64	
	6	6076	Z	CCG	4	6	C40N60	2980	513	43	156	950	20	963	75.2	
	7	7076	Z	CCG	4	6	C40N70	2980	513	43	156	1000	20	1030	75.2	
1000+1000	2	2076	V	CCGD	4	6	C40M20	2980	443	60	306	515	20	509	64	
	3	3076	V	CCGD	4	6	C40M30	2980	443	60	306	655	20	538	64	
	4	4076	Z	CCGD	4	6	C40N40	2980	513	60	306	1040	20	792	75.2	
	5	5076	Z	CCGD	4	6	C40N50	2980	513	60	306	1100	20	850	75.2	

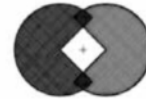




# GBA SERIES JIB CRANES WITH DOUBLE ARM – H VERSION – OVERBRACED VERSION

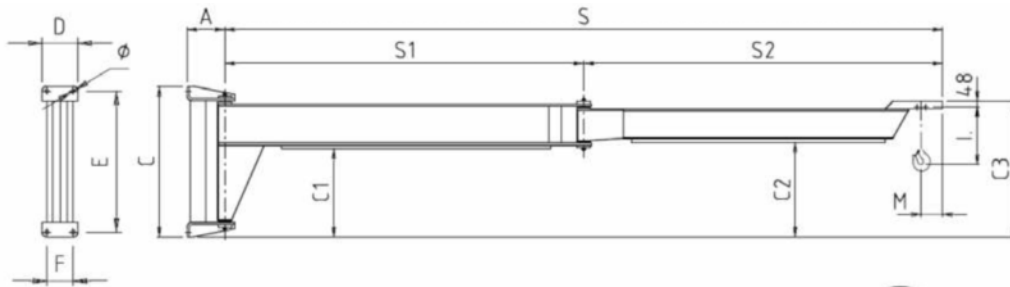


Column-mounted jib crane - Rotation 260°+260°



LIFTING CAPACITY	ARM	SIZE OF JIB CRANE	GBA SERIES COLUMN-MOUNTED CRANE - VERSION H										
			HEIGHT		TYPE	OVERALL DIMENSIONS (mm)					WEIGHT		
			BASE	MAX.		UNDER BEAM	G	M	N	T (IPE)	Δ	JIB CRANE	COLUMN BY m
kg	S m	COLUMN	H m			h	G	M	N	T (IPE)	Δ	kg	kg
125+125	4	T	3.5	5.5	H35I40	2738	323	190	780	160	17	350	35
	5	T	3.5	5.5	H35I50	2738	323	190	840	160	17	388	35
	6	U	3.5	5.5	H35L60	2738	386	190	900	160	17	480	43.5
	7	U	3.5	5.5	H40L70	2738	386	190	960	160	17	520	43.5
250+250	8	V	4	6	H40M80	2980	443	190	1140	200	20	922	64
	4	U	3.5	5.5	H35L40	2738	386	190	780	160	17	405	43.5
	5	U	3.5	5.5	H35L50	2738	386	190	840	160	17	442	43.5
	6	V	4	6	H40M60	2980	443	190	1020	200	20	800	64
500+500	7	V	4	6	H40M70	2980	443	190	1080	200	20	862	64
	8	Z	4	6	H40N80	2980	513	190	1140	200	20	1013	75.2
	4	V	4	6	H40M40	2980	443	190	900	200	20	675	64
	5	V	4	6	H40M50	2980	443	190	960	200	20	737	64
800+800	6	Z	4	6	H40N60	2980	513	190	945	200	20	892	75.2
	7	Z	4	6	H40N70	2980	513	190	1005	200	20	953	75.2
	8	Z	4	4	H40N85	2980	513	190	1240	240	20	1145	75.2
1000+1000	6	Z	4	6	H40N65	2980	513	190	1120	240	20	992	75.2
	4	Z	4	6	H40N40	2980	513	190	900	200	20	767	75.2
	5	Z	4	6	H40N50	2980	513	190	960	200	20	830	75.2

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

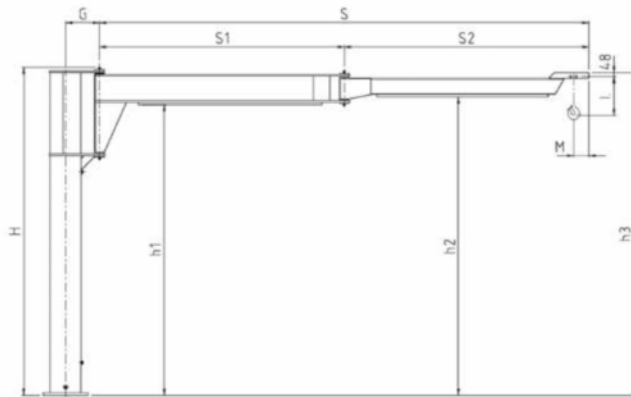


Wall-mounted jib crane - Rotation 360°



LIFTING CAPACITY kg	ARM S m	SIZE OF JIB CRANE	TYPE	WALL-MOUNTED JIB CRANES WITH ARTICULATED ARM, WITH FIXED HOIST - MBB SERIES														WEIGHT JIB CRANE kg	
				OVERALL DIMENSIONS (mm)											ADDED HOIST				
				S1	S2	A	C	C1	C2	C3	D	E	F	Ø	M	DMK	HEIGHT I		
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	
	4	D	A02C3G	1500	1500	280	930	455	592	850	250	870	190	22	190	3	385	215	
			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	
	5	D	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	
			A02D5A	2000	3000	280	930	455	552	850	250	870	190	22	180	2	318	295	
	6	E	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	
	7	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	
			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	
7	E	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

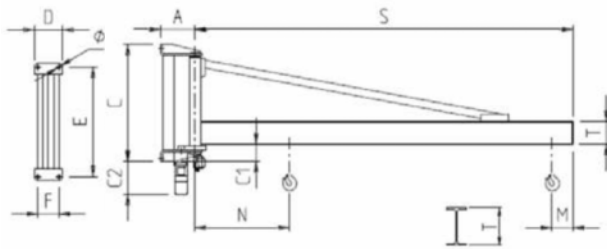


Column-mounted jib crane - Rotation 360°

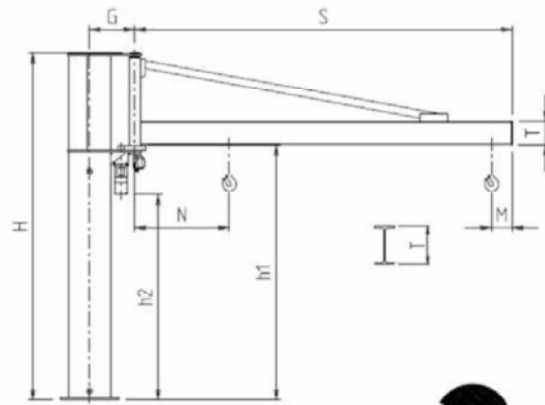


LIFTING CAPACITY kg	ARM S m	SIZE OF JIB CRANE	COLUMN-MOUNTED JIB CRANE WITH ARTICULATED ARM, WITH FIXED HOIST - CBB SERIES														WEIGHT	
			HEIGHT H mm		TYPE	UNDER BEAM			OVERALL DIMENSIONS (mm)					ADDED HOIST		JIB CRANE	COLUMN BY m	
			BASE	MAX.		h1	h2	h3	S1	S2	G	M	Δ	DMK	HEIGHT I	kg	kg	
125	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	
			3525	5525	A35T7A	3083	3200	3478	3000	4000	323	180	42	1	285	513	35	
7	T	3525	5525	A35T7B	3083	3220	3478	3500	3500	323	180	42	1	285	534	35		
		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		
250	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	
			3525	5525	A35T5A	3083	3180	3478	2000	3000	323	180	42	1-2	285-318	419	35	
	5	T	3525	5525	A35T5B	3083	3180	3478	2500	2500	323	180	42	1-2	285-318	448	35	
			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°

LIFTING CAPACITY kg	ARM S m	SIZE OF JIB CRANE	TYPE	MBE SERIES WALL-MOUNTED JIB CRANE - H VERSION - MOTORISED ARM OVERBRACED VERSION														MOTOR POWER kW	WEIGHT JIB CRANE kg
				OVERALL DIMENSIONS (mm)											ARM SPEED				
				A	B	C	C1	C2	D	E	F	Ø	M	N	T (IPE)	NO. OF REVOLUTIONS R.P.M.	PERIPHERAL m/min		
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
1000	8	F	EH03F80	365	1058	1240	182	348	300	1160	220	34	190	1210	*152	0.6	30	0.4	497
	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
1600	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
	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

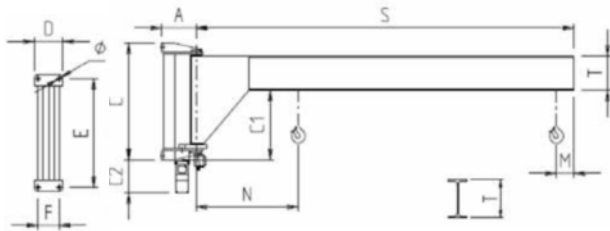
\* Profiled girder type HEA160

LIFTING CAPACITY kg	ARM S m	SIZE OF JIB CRANE	HEIGHT H mm		TYPE	OVERALL DIMENSIONS (mm)							ARM SPEED		MOTOR POWER kW	WEIGHT	
			BASE	MAX.		UNDER BEAM		G	M	N	T (IPE)	Δ	NO. OF REVOLUTIONS R.P.M.	PERIPHERAL m/min		JIB CRANE kg	COLUMN BY m kg
			h1	h2		h1	h2										
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
1000	8	Z	4	6	EH40Z80	3022	2492	513	190	1210	*152	20	0.6	30	0.4	850	75.2
	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
1600	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
	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

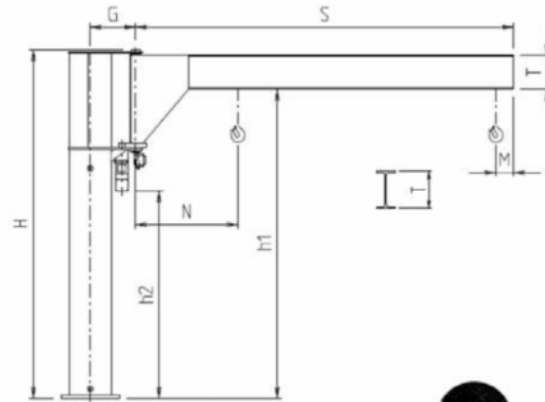
\* Profiled girder type HEA160



# MBE/CBE SERIES JIB CRANES – T VERSION – MOTORISED ARM CANTILEVER VERSION



Wall-mounted jib crane - Rotation 290°

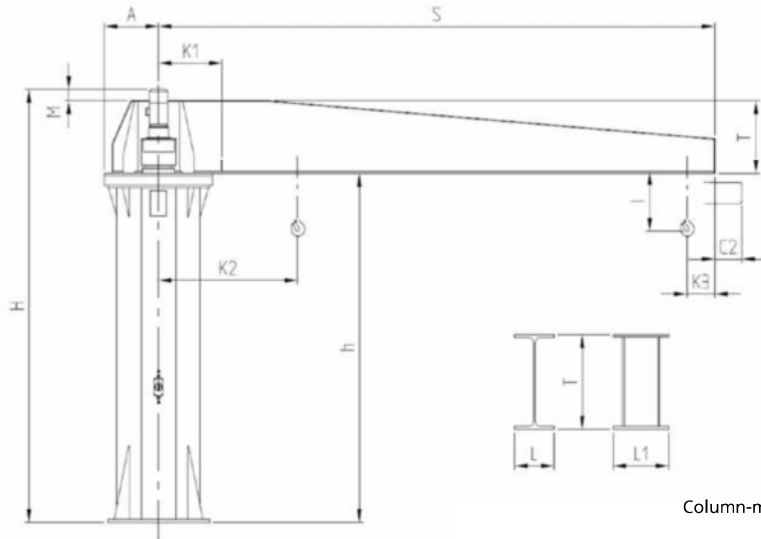


Column-mounted jib crane - Rotation 280°

LIFTING CAPACITY kg	ARM S m	SIZE OF JIB CRANE	TYPE	MBE SERIES WALL-MOUNTED JIB CRANE - T VERSION - MOTORISED ARM IN CANTILEVER VERSION															MOTOR POWER kW	WEIGHT JIB CRANE kg
				OVERALL DIMENSIONS (mm)											ARM SPEED					
				A	B	C	C1	C2	D	E	F	Ø	M	N	T (IPE)	NO. OF REVOLUTIONS R.P.M.	PERIPHERAL m/min			
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	
1600	6	F	ET03F60	365	500	1240	740	348	300	1160	220	34	190	1080	360	0.6	23	0.4	574	
	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	HEIGHT H mm		TYPE	OVERALL DIMENSIONS (mm)							ARM SPEED		MOTOR POWER kW	WEIGHT JIB CRANE   COLUMN BY m	
			BASE	MAX.		UNDER BEAM			T	Δ	NO. OF REVOLUTIONS R.P.M.	PERIPHERAL m/min	kg	kg			
			h1	h2		G	M	N	(IPE)								
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
2000	6	Z	4	6	ET40Z60	3580	2492	513	190	1080	360	20	0.6	23	0.4	927	75.2
	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 jib crane - Rotation 360°

GBR jib cranes with DRH electric wire rope hoist:

$K2 = K1 + (C + I1 - S3) *$  referring to the 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 chain hoist:

$K2 = K1 + (M/2) *$  referring to fixed mechanical limit switch

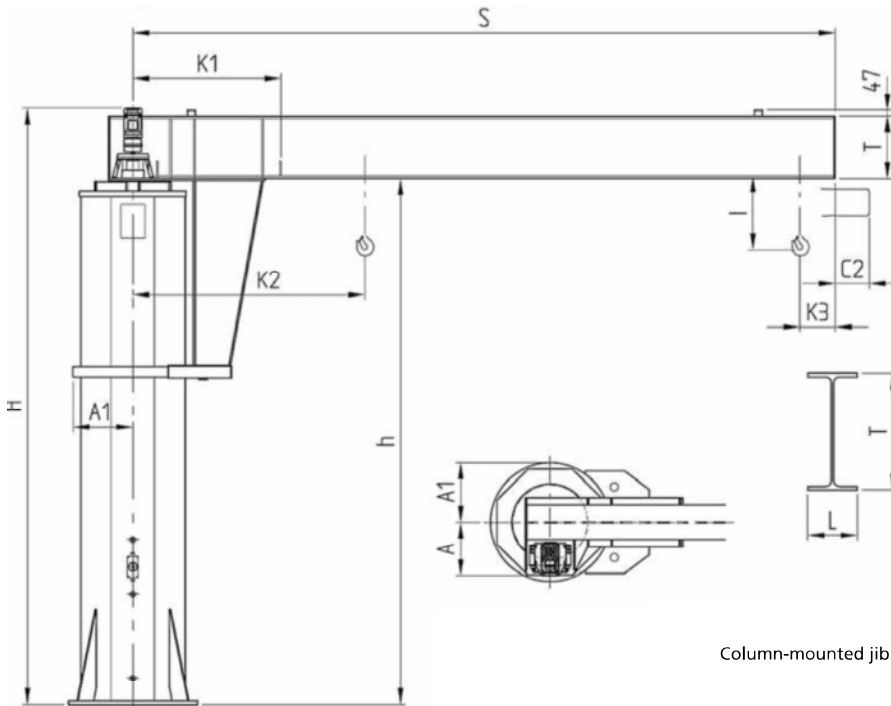
$K3 = (M/2) *$  referring to fixed mechanical limit switch

$I * = (*)$  See commercial catalogue for DMK hoists

LIFTING CAPACITY	ARM	SIZE OF JIB CRANE	TYPE	UNDER BEAM	GBR SERIES COLUMN-MOUNTED JIB CRANE - ELECTRICALLY ROTATED AT 360° CONTINUOUSLY												WEIGHT	
					OVERALL DIMENSIONS (mm)							ARM SPEED		MOTOR POWER	TILTING MOMENTUM	MAXIMUM PULL OF THE LUG BOLT	JIB CRANE	COLUMN BY m
					H	K1	A	M	T	L	L1	NO. OF REVOLUTIONS	PERIPHERAL					
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	623	-	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

LIFTING CAPACITY	ARM	SIZE OF JIB CRANE	TYPE	UNDER BEAM	GBR SERIES COLUMN-MOUNTED JIB CRANE - ELECTRICALLY ROTATED AT 360° CONTINUOUSLY											WEIGHT		
					OVERALL DIMENSIONS (mm)							ARM SPEED		MOTOR POWER	TILTING MOMENTUM	MAXIMUM PULL OF THE LUG BOLT	JIB CRANE	COLUMN BY m
					H	K1	A	M	T	L	L1	NO. OF REVOLUTIONS	PERIPHERAL					
kg	m	h	H	K1	A	M	T	L	L1	R.P.M.	m/min							
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	4940	686	586	114	826	-	300	0.35	21	0.55	472	183	3235	229
10	5	5J1040	4000	4940	686	586	114	826	-	300	0.35	22	0.55	502	183	3485	274	
10.5	5	5J1540	4000	4940	686	586	114	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	4845	588	488	172	673	-	300	0.64	22.1	0.55	301	183	2415	273.5
	6	4	4K6040	4000	4845	588	488	72	773	-	300	0.64	24.1	0.55	335	183	2525	273.5
	6.5	5	5K6540	4000	4845	686	586	72	773	-	300	0.53	21.6	0.55	367	183	2510	183.6
	7	5	5K7040	4000	4845	686	586	69	776	-	300	0.53	23.3	0.55	402	183	2805	229
	7.5	5	5K7540	4000	4845	686	586	69	776	-	300	0.53	25	0.55	435	183	2860	229
	8	5	5K8040	4000	4845	686	586	19	826	-	300	0.53	26.6	0.55	471	183	2965	229
	8.5	5	5K8540	4000	4940	686	586	114	826	-	300	0.44	23.5	0.55	505	183	3280	274
	9	5	5K9040	4000	4940	686	586	114	826	-	300	0.44	24.9	0.55	540	183	3350	274
	9.5	5	5K9540	4000	4927	700	600	97	830	-	300	0.44	26.2	0.55	578	183	3575	274
10	5	5K1040	4000	4927	700	600	97	830	-	300	0.35	22.1	0.55	619	183	3655	341.6	
10.5	5	5K1540	4000	4927	700	600	97	830	-	300	0.35	23.2	0.55	648	183	3725	341.6	
5000	4	3	3L4040	4000	4785	575	475	112	673	-	300	0.91	22.9	0.37	253	126	1705	176.5
	4.5	4	4L4540	4000	4845	738	488	122	723	-	300	0.77	21.7	0.55	291	183	2105	219.7
	5	4	4L5040	4000	4845	738	488	122	723	-	300	0.77	24.1	0.55	328	183	2150	219.7
	5.5	5	5L5540	4000	4940	836	586	217	723	-	300	0.66	22.7	0.55	365	183	2415	183.6
	6	5	5L6040	4000	4940	836	586	164	776	-	300	0.66	24.8	0.55	405	183	2560	183.6
	6.5	5	5L6540	4000	4940	836	586	114	826	-	300	0.53	21.5	0.55	446	183	2850	229
	7	5	5L7040	4000	4940	836	586	114	826	-	300	0.53	23.1	0.55	485	183	2910	229
	7.5	5	5L7540	4000	4940	836	586	114	826	-	300	0.53	24.8	0.55	525	183	2980	229
	8	5	5L8040	4000	4927	850	600	97	830	-	300	0.53	26.5	0.55	567	183	3360	274
	8.5	5	5L8540	4000	4950	850	600	120	830	-	300	0.36	19.3	0.75	608	183	3715	341.6
	9	5	5L9040	4000	4950	850	600	120	830	-	300	0.36	20.4	0.75	649	183	3785	341.6
	9.5	6	6L9540	4000	4950	923	673	120	830	-	300	0.41	24.4	0.75	691	183	4025	311.5
10	6	6L1040	4000	4950	923	673	120	830	-	300	0.33	20.6	0.75	733	183	4110	311.5	
10.5	6	6L1540	4000	4950	923	673	120	830	-	300	0.33	21.6	0.75	777	183	4180	311.5	
6300	4	4	4M4040	4000	4845	738	488	122	723	-	300	0.96	24.1	0.55	327	183	2050	219.7
	4.5	5	5M4540	4000	4845	836	586	122	723	-	300	0.98	27.7	0.55	376	183	2250	183.6
	5	5	5M5040	4000	4845	836	586	72	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
	9	5	5N4040	4000	5005	736	586	179	826	-	300	0.88	22.1	1.5	401	183	2365	183.6
	9.5	5	5N4540	4000	5005	736	586	179	826	-	300	0.88	24.9	1.5	461	183	2425	183.6
10	5	5N5040	4000	5005	736	586	175	830	-	300	0.77	22.1	1.5	522	183	2725	229	
10.5	5	5N5540	4000	5092	750	600	262	830	-	300	0.59	20.4	1.5	583	183	3130	274	
11	6	6N6040	4000	5092	750	600	262	830	-	300	0.59	22.3	1.5	644	183	3470	341.6	
11.5	6	6N6540	4000	5092	823	673	262	830	-	300	0.54	21.9	1.5	705	183	3670	311.5	
10000	4	5	5O4040	4000	5092	750	600	262	830	-	300	0.88	22.2	1.5	487	183	2750	229
	4.5	5	5O4540	4000	5092	750	600	262	830	-	300	0.88	25	1.5	560	183	2985	274
	5	5	5O5040	4000	5092	750	600	262	830	-	300	0.74	23.2	1.5	633	183	3060	274
	5.5	6	6O5540	4000	5092	823	673	262	830	-	300	0.67	23.1	1.5	707	183	3540	311.5

# GBL SERIES COLUMN – MOUNTED JIB CRANE – ELECTRICALLY/MANUALLY ROTATED AT 360° CONTINUOUSLY



Column-mounted jib crane - Rotation 360°

GBL jib cranes with DRH electric wire rope hoist:

$K2 = K1 + (C + H1 - S3) *$  referring to the fixed mechanical limit switch

$K3 = (C + S3) *$  referring to fixed mechanical limit switch

I and C2 = (\*) See commercial catalogue for DRH hoists

GBL jib cranes with DMK electrical chain 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	TYPE	UNDER BEAM h	GBL SERIES COLUMN-MOUNTED JIB CRANE - ELECTRICALLY ROTATED AT 360° CONTINUOUSLY											WEIGHT		
					OVERALL DIMENSIONS (mm)						ARM SPEED		MOTOR POWER kW	TILTING MOMENTUM kNm	MAXIMUM PULL OF THE LUG BOLT kN	JIB CRANE kg	COLUMN BY m kg	
					TOTAL HEIGHT H		K1	A	A1	T	L	NO. OF REVOLUTIONS R.P.M.						PERIFERICA m/min
1000	4	2	2E3540	3500	4100	3847							820	550	350	300	150	
	5	2	2E3550	3500	4100	3907	820	550	350	360	170	0,585	18,4	0,4/0,1	83	28	1475	92,7
	6	2	2E3560	3500	4100	3907	820	550	350	360	170	0,585	22	0,4/0,1	103	34	1535	92,7
	7	2	2E3570	3500	4100	3947	820	550	350	400	180	0,585	25,7	0,4/0,1	125	42	1660	92,7
	8	2	2E3580	3500	4100	3997	820	550	350	450	190	0,585	29,4	0,4/0,1	150	50	1825	92,7
2000	4	2	2H3540	3500	4100	3907	820	550	350	360	170	0,585	14,7	0,4/0,1	107	36	1420	92,7
	5	2	2H3550	3500	4100	3947	820	550	350	400	180	0,585	18,4	0,4/0,1	139	46	1530	92,7
	6	3	3H3560	3500	4100	3997	950	550	400	450	190	0,585	22	0,4/0,1	173	50	1935	141,6
	7	3	3H3570	3500	4100	4047	950	550	400	500	200	0,585	25,7	0,4/0,1	210	61	2113	141,6
	8	3	3H3580	3500	4100	4097	950	550	400	550	210	0,585	29,4	0,4/0,1	250	73	2335	141,6
3200	4	2	2J3540	3500	4100	-	870	550	350	450	190	0,585	14,7	0,4/0,1	160	53	1515	92,7
	5	3	3J3550	3500	4100	-	950	550	400	500	200	0,585	18,4	0,4/0,1	208	60	1930	141,6
	6	3	3J3560	3500	4100	-	950	550	400	550	210	0,585	22	0,4/0,1	258	75	2123	141,6
	7	5	5J4070	4000	4647	-	1265	550	510	600	220	0,585	25,7	0,63/0,15	320	48	3247	183,6
4000	4	3	3K3540	3500	4100	-	950	550	400	450	190	0,585	14,7	0,4/0,1	198	58	1780	141,6
	5	3	3K3550	3500	4100	-	950	550	400	550	210	0,585	18,4	0,4/0,1	258	75	2017	141,6
	6	5	5K4060	4000	4647	-	1265	550	510	600	220	0,585	22	0,63/0,15	327	50	3125	183,6
	7	5	5K4070	4000	4647	-	1265	550	510	600	220	0,585	25,7	0,63/0,15	389	59	3247	183,6
	4	3	3L3540	3500	4100	-	950	550	400	550	210	0,585	14,7	0,4/0,1	243	71	1910	141,6
5000	5	5	5L4050	4000	4647	-	1265	550	510	600	220	0,585	18,4	0,63/0,15	320	49	3005	183,6
	6	5	5L4060	4000	4647	-	1265	550	510	600	220	0,585	22	0,63/0,15	393	60	3125	183,6
	7	5	5L4070	4000	4615	-	1265	550	510	490	300	0,585	25,7	0,63/0,15	474	72	3475	183,6

Attention: manually rotated jib cranes available for capacity up to 2000 Kg

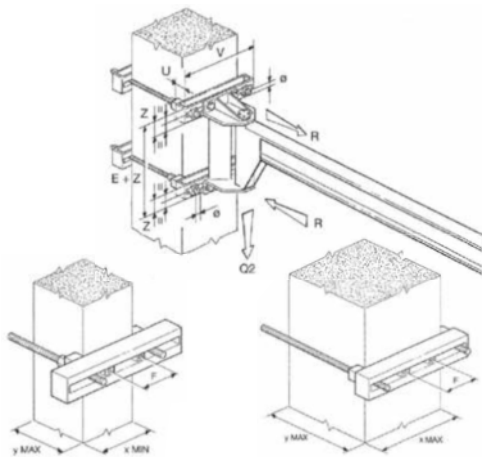


# FIXING SYSTEMS FOR JIB CRANES

## Bracket and staybolts unit for GBP/MBB/MBE series wall-mounted cranes

SIZE OF JIB CRANE	A	B	C	D	E	F	
Reactions (kN)	Q2	2.95	5	9.2	16.85	26.10	28.2
	R	11.9	21.75	27.05	49	66.8	120

TYPE OF BRACKET		01	02	03
Ø Staybolts/screws		M14	M20	M30
Clamping torques (Nm)	Staybolts	67	200	685
	Screws	135	400	1370
Code		GBP010110	GBP020110	GBP030110
Bracket Type: Short (mm)	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
Code		GBP010120	GBP020120	GBP030120
Bracket Type: Medium (mm)	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
Code		GBP010130	GBP020130	GBP030130
Bracket Type: Long (mm)	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

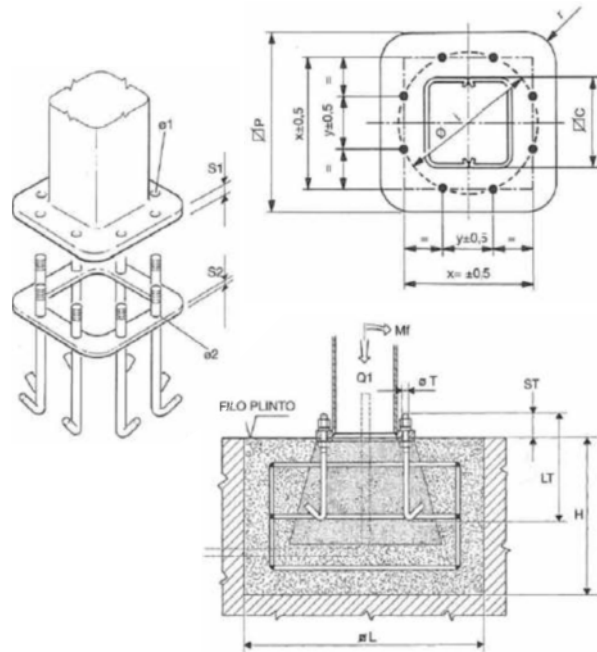


N.B.: The bracket and staybolts unit, used in the wall-mounted version for fixing the bracket to a pillar, is available on request.

## 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
	∅	268	330	373	468	548	648
	r	88	104	116	145	165	197
	∅ 1	16	20	20	25	29	35
	∅ 2	13	17	17	21	25	31
Lug bolts (mm)	∅ T	M12	M16	M16	M20	M24	M30
	LT	400	450	450	550	600	700
	ST	40	45	45	55	60	75
Clamping torques (Nm)		45	105	105	200	350	680
Frame/bolt 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	12	21	31	57	107	164

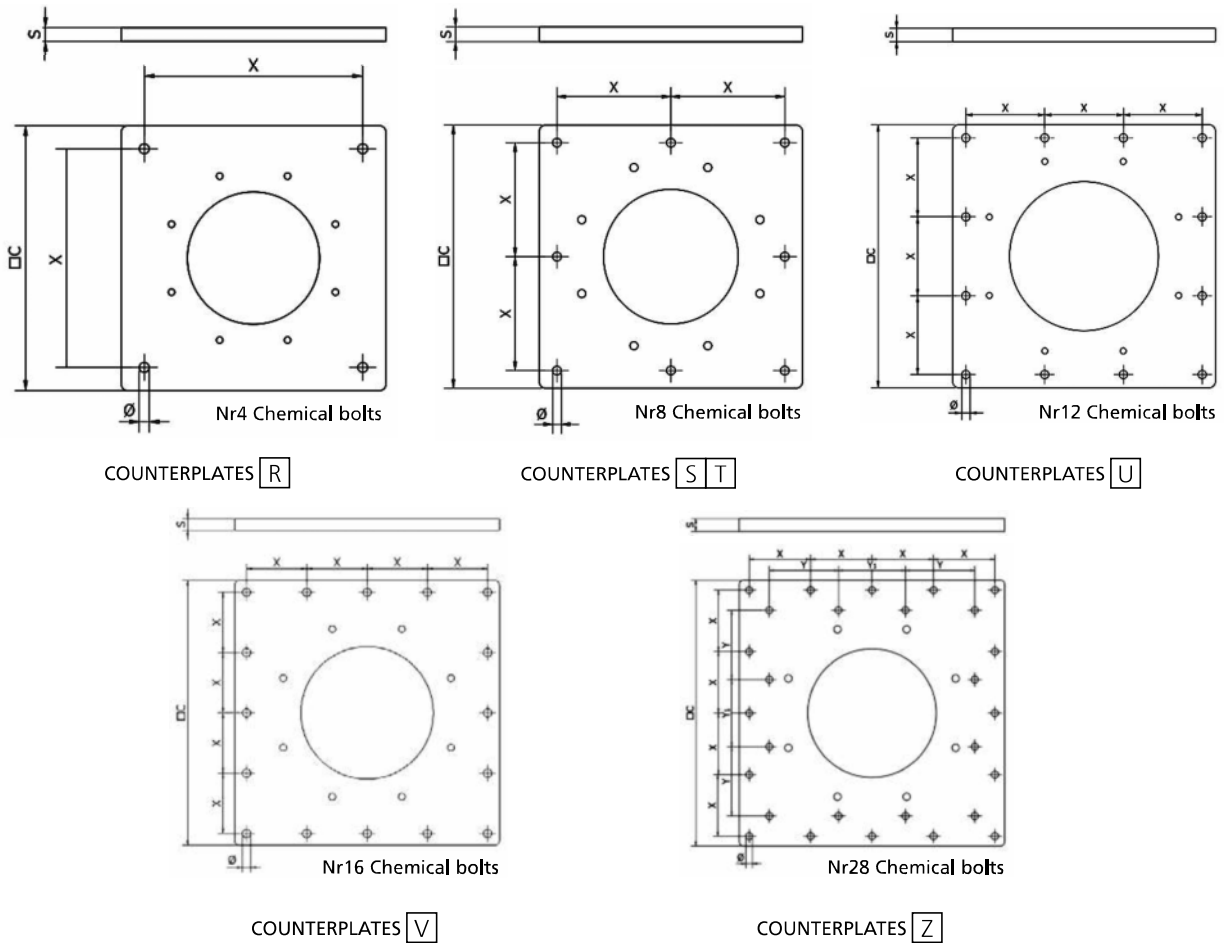
The dimensions of the plinths are purely indicative! The plinth must be dimensioned by expert, qualified technicians considering the real consistency of the ground and the maximum pressure it can withstand.



N.B.: The foundation frames with lug bolts, used in the column-mounted version for fixing the column itself to the foundation plinth is supplied on request.

\* M= 1,11;  $\psi$ = 1,15

## Counterplates for fixing to the floor with chemical bolts of the GBA/CBB/CBE column-mounted cranes

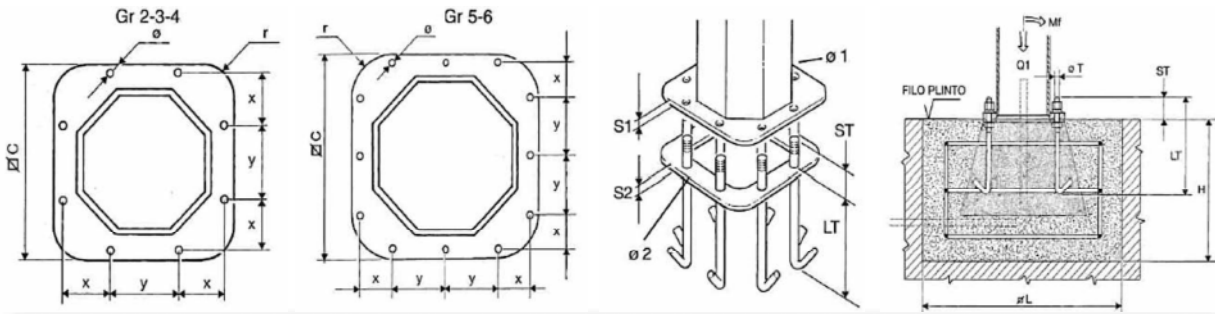


**The fixing of the column using chemical bolts, needs a scrupulous check of suitability in relation to the type of support flooring. The suitability checks are the responsibility of the user and must be carried out by expert, qualified technicians who will evaluate the feasibility and formally undertake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

	SIZE	R	S	T	U	V	Z
Counterplate code		GBA1R0P55	GBA1S0P55	GBA1T0P55	GBA1U0P55	GBA1V0P55	GBA1Z0P55
Counterplate dimensions (mm)	∇ C	400	450	500	600	800	950
	S	20	25	25	30	35	45
	x	330	195	220	180	182	220
	y / y1	-	-	-	-	-	240/248
Counterplate weight (kg)		4x15	8x15	8x19	12x19	16x25	28x25
Maximum tilting movement allowed (kNm)	Mf	20	31	39	63	139	254
Fixing characteristics	Type of concrete of the floor: Class Rck minimum (kg/cm <sup>2</sup> )	C250	C250	C250	C250	C250	C250
	Type of chemical bolts (e.g.: HILTI HVU with threaded bars HILTI HAS)	M12	M12	M16	M16	M20	M20
	Minimum thickness of floor block (mm)	140	140	170	170	220	220
	Diameter of hole in the floor (mm)	14	14	18	18	24	24
	Depth of the hole of the concrete in the floor (mm)	110	110	125	125	170	170
	Clamping torques of the bolts (Nm)	40	40	80	80	150	150
	Project resistance of traction of one bolt (kN)	25,3	25,3	40	40	74,6	74,6

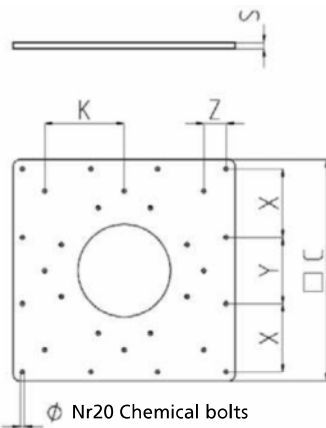
For the clamping torques of the bolts between the column and counterplate, see the relative clamping torques for the lug bolts on page 33.

## Base plates, foundation frames and plinths for GBR/GBL series column-mounted cranes



	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
	∅ 1	27	33	39	39	39
	∅ 2	25	31	37	37	37
	r	150	170	180	220	240
Anchorage bolts (mm)	∅ T	M 24x3	M 30x3.5	M 36x4	M 36x4	M 36x4
	LT	600	700	800	800	800
	ST	90	105	125	130	135
Bolt clamping torque (Nm)		350	680	1200	1200	1200
Weight of frame with lug bolts (kg)		34.5	52.5	80	113	120
Foundation plinth (mm) (see warnings on the previous page)	∅ L	2500	3000	3200	4000	4200
	H	1150	1300	1300	1300	1300
Max jib crane weight (kg) (without hoist and trolley)	Q1	1540/1825	2520/2335	2870	3785/3475	4180
Maximum tilting movement allowed (kNm)	Mf	179/160	270/258	335	649/474	788

## Counterplates for fixing to the floor with chemical bolts of the GBR-GBL size 2-3 column-mounted cranes



	SIZE	2	3
Counterplate code		GBR250140	GBR350140
Counterplate dimensions (mm)	∅ C	1200	1400
	X	370	430
	Y	360	440
	Z	120	170
	K	430	480
	S	35	45
	∅	25	25
Counterplate weight (kg)		340	600
Maximum tilting movement allowed (kNm)	Mf	200	300
Fixing characteristics	Type of concrete of the floor: Class Rck minimum (kg/cm <sup>2</sup> )	250	250
	Type of chemical bolts (e.g.: HILTI HVU with threaded bars HILTI HAS)	M 20	M20
	Minimum thickness of floor block (mm)	220	220
	Diameter of hole in the floor (mm)	24	24
	Depth of the hole of the concrete in the floor (mm)	170	170
	Clamping torques of the bolts (Nm)	150	150
	Project resistance of traction of one bolt (kN)		74,6

**!** 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 undertake the relative responsibilities.

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