

STONE DIVISION

The company RIGHETTI is specialized in the production and supply of **lifting and handling equipment**. It has been operating in the marble field for years, it knows directly the marble companies wishes and meet them thanks to a wide and complete range of industrial lifting products (jib cranes and below-the-hook lifting devices - vacuum lifters, pincers, spreader beam).

JIB CRANES



VACUUM LIFTERS



PINCERS AND SPREADER BEAMS



JIB CRANES

MANUALLY ROTATED JIB CRANES IN COLUMN OR WALL MOUNTED MODELS

The jib cranes with manual rotation, either "column-mounted" or "wall-mounted" are designed to handle and to lift the goods inside the factory or the yard. Thanks to their easy installation and to their small dimension, the jib cranes can be located everywhere.



The jib cranes have three functions:

Load lifting, normally by a chain hoist (electric or manual) or electric cable.

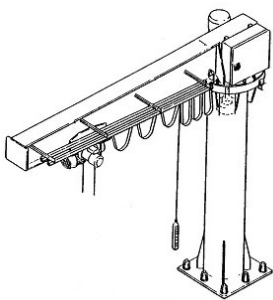
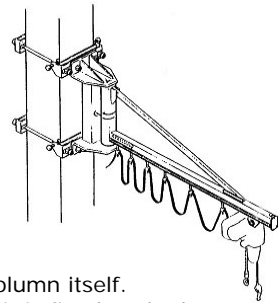
Load travelling thanks to a manual carrying trolley, mechanic or electric, sliding along the jib of the crane.

Rotation around the constraint axis covering the circular area underneath it pushed by hand.

The standard models of jib cranes with manual rotation are available for lifting capacities from 125 kg to 2000 kg and jibs from 2 m to 8 m.

The jib cranes can be "column-mounted" or "wall-mounted".

The **wall-mounted crane** is consisting of a bracket support structure fixed to the wall or anchored to a pillar with staybolts or screws and a boom slewing around an axis placed on the bracket itself.



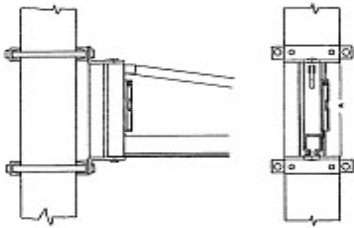
The **column-mounted crane** is consisting of a self-supporting column and of a boom slewing around the axis placed on the column itself. The column allows a high rigidity and stability of the crane and it is fixed to the base through a base-plate and a bolt and log bolt assembly.

The **slewing boom** is composed of a body bolster for the hoist-carrying trolley sliding and according to the series, it can be manufactured with channel-girder ("C" series) or with profile (cantilever or overbraced).

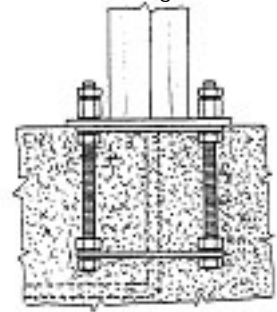
The **hoist** is used for the load lifting through their hooks or through other supply accessories. The hoist range is realized in different versions from 125 to 4000 Kg, at one or two lifting speed.

The electric installation is aimed to the hoist and/or trolley feed (in the event they are electric).

Fixing system



The **wall-mounted crane** is linked to a structure (pillars, walls, machine bodies, etc.) through a brackets and staybolts unit or through fixing screws.



The **column-mounted crane** is generally fixed to the ground using the foundation frame with log bolts inserted in a foundation plinth or in some cases and only if possible by chemical dowelling.

Selection criteria

In order to obtain a correct working of the jib crane it is necessary to define adequately its operating limits. The necessary conditions in order to achieve a correct working of the jib crane are its effective capacity, the stress state and the average working time it takes during the lifting and the travelling/sliding processes.

The key parameters to be observed when choosing a jib crane are :

Capacity: it is determined by the heaviest load to be lifted and by the weight of possible below-the-hook lifting devices (vacuum lifter, pincer, spreader beam, etc.) and it never has to be less than it.

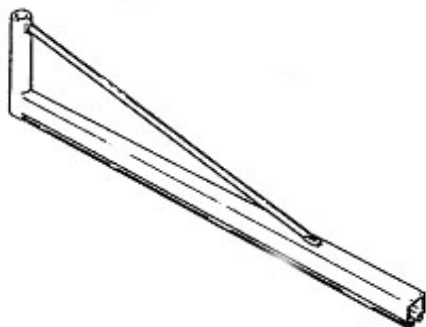
Functional dimensions: the height of the sliding girder of the trolley which defines the hook path of the hoist and the span have to be selected in order to guarantee the functional covering of the area to be served in consideration of the surrounding obstacles.

Nature of the load: delicate or not, determines for its positioning the choice of the most suitable speeds of lifting and travelling. Two speeds hoists can be used, with slow positioning speed.

Zone of use: the jib crane is characterized by a high elasticity especially when handling loads with the highest capacity and/or location close to the boom ends.

Area of use : the jib cranes can be used inside and/or in a covered area sheltered from bad weather and wind. In case of use outside, measures must be taken to the surface treatment (sandblasting-varnishing) as well as adequate protection covers for the rotation, for the electric board, and for the hoist-carrying trolley.

MANUAL JIB CRANES "C" CHANNEL PROFILE VERSION

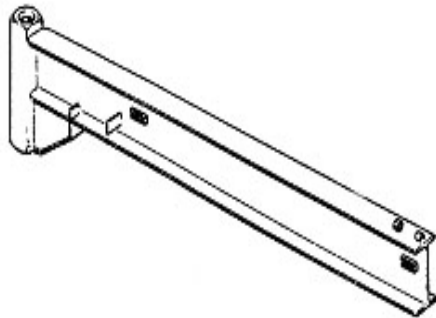


The C channel-type boom is achieved by using a special structural steel where the hoist-carrying trolley is sliding. The boom is equipped with one or two tie-rods which support the structural steel and connect it to the rotation tubular girder. This series is particular for its moving lightness due to the low inertia.

It is supplied with a travelling trolley.

Lifting capacity Kg	Arm mt	COLUMN-MOUNTED JIB CRANE		WALL-MOUNTED JIB CRANE		
		Height		Model	Model	Standard for pillar
		Total mt	Under beam mt.			
125	3	3	2,66	CC125-3	MC125-3	300
	4	3	2,66	CC125-4	MC125-4	300
	5	3,5	2,98	CC125-5	MC125-5	300
	6	3,5	2,98	CC125-6	MC125-6	300
	7	3,5	2,83	CC125-7	MC125-7	300
	8	4	3,33	CC125-8	MC125-8	300
250	3	3	2,48	CC250-3	MC250-3	300
	4	3	2,48	CC250-4	MC250-4	300
	5	3,5	2,83	CC250-5	MC250-5	300
	6	3,5	2,83	CC250-6	MC250-6	300
	7	3,5	2,83	CC250-7	MC250-7	300
	8	4	3,10	CC250-8	MC250-8	350
500	3	3,5	2,83	CC500-3	MC500-3	300
	4	3,5	2,83	CC500-4	MC500-4	300
	5	3,5	2,83	CC500-5	MC500-5	300
	6	4	3,10	CC500-6	MC500-6	350
	7	4	3,10	CC500-7	MC500-7	350
	8	4	3,10	CC500-8	MC500-8	350
1000	3	3,5	2,83	CC1000-3	MC1000-3	350
	4	4	3,10	CC1000-4	MC1000-4	350
	5	4	3,10	CC1000-5	MC1000-5	350
	6	4	3,10	CC1000-6	MC1000-6	350
	7	4	3,10	CC1000-7	MC1000-7	350
	8	4	3,10	CC1000-8	MC1000-8	350

COLUMN AND WALL-MOUNTED MANUAL JIB CRANE "T" CANTILEVER VERSION

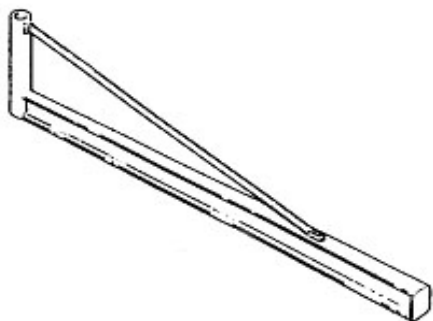


It is manufactured using a double T structural steel and the hoist-carrying trolley is sliding on its lower flanges. The cantilever is self-supporting and without support tie-rods and it is linked directly to the rotation tubular girder.

It ensures a considerable room-saving due to the absence of tie-rods.

Lifting capacity Kg	Arm mt	COLUMN-MOUNTED JIB CRANE		WALL-MOUNTED JIB CRANE		
		Height		Model	Model	Standard for pillar
		Total mt	Under beam mt.			
125	2	3	2,85	CT125-2	MT125-2	300
	3	3	2,84	CT125-3	MT125-3	300
	4	3	2,80	CT125-4	MT125-4	300
	5	3	2,77	CT125-5	MT125-5	300
	6	3	2,75	CT125-6	MT125-6	300
	7	3	2,75	CT125-7	MT125-7	300
	8	3	2,72	CT125-8	MT125-8	300
250	2	3	2,83	CT250-2	MT250-2	300
	3	3	2,81	CT250-3	MT250-3	300
	4	3	2,77	CT250-4	MT250-4	300
	5	3	2,75	CT250-5	MT250-5	300
	6	3	2,70	CT250-6	MT250-6	300
	7	3	2,67	CT250-7	MT250-7	300
	8	3	2,64	CT250-8	MT250-8	300
500	2	3	2,81	CT500-2	MT500-2	300
	3	3	2,77	CT500-3	MT500-3	300
	4	3	2,73	CT500-4	MT500-4	300
	5	3	2,70	CT500-5	MT500-5	300
	6	3	2,64	CT500-6	MT500-6	350
	7	3	2,61	CT500-7	MT500-7	350
	8	3	2,61	CT500-8	MT500-8	350
1000	2	3	2,79	CT1000-2	MT1000-2	350
	3	3	2,75	CT1000-3	MT1000-3	350
	4	3	2,70	CT1000-4	MT1000-4	350
	5	3	2,64	CT1000-5	MT1000-5	350
	6	3	2,61	CT1000-6	MT1000-6	350
	7	3	2,61	CT1000-7	MT1000-7	350
	8	3	2,52	CT1000-8	MT1000-8	350
2000	3	3	2,72	CT2000-3	MT2000-3	350
	4	3	2,66	CT2000-4	MT2000-4	350
	5	3	2,59	CT2000-5	MT2000-5	350

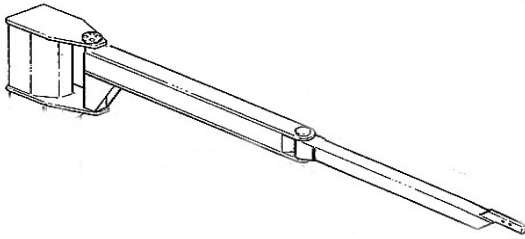
COLUMN AND WALL-MOUNTED MANUAL JIB CRANE "H" OVERBRACED VERSION



The tie-rod girder crane is manufactured by using a double T structural steel and the hoist-carrying trolley is sliding on its lower flange. The boom is equipped with one or two tie-rods for the support of the structural steel connected to the rotation tubular girder.

Lifting capacity Kg	Arm mt	COLUMN-MOUNTED JIB CRANE		WALL-MOUNTED JIB CRANE		
		Height		Model	Model	Standard for pillar
		Total mt	Under beam mt			
250	3	3	2,48	CH250-3	MH250-3	300
	4	3	2,48	CH250-4	MH250-4	300
	5	3,5	2,83	CH250-5	MH250-5	300
	6	3,5	2,83	CH250-6	MH250-6	300
	7	3,5	2,83	CH250-7	MH250-7	300
	8	4	3,10	CH250-8	MH250-8	350
	9	4	3,10	CH250-9	MH250-9	350
500	3	3,5	2,83	CH500-3	MH500-3	300
	4	3,5	2,83	CH500-4	MH500-4	300
	5	3,5	2,83	CH500-5	MH500-5	300
	6	4	3,10	CH500-6	MH500-6	350
	7	4	3,10	CH500-7	MH500-7	350
	8	4	3,10	CH500-8	MH500-8	350
	9	4	3,10	CH500-9	MH500-9	350
1000	3	3,5	2,83	CH1000-3	MH1000-3	350
	4	4	3,10	CH1000-4	MH1000-4	350
	5	4	3,10	CH1000-5	MH1000-5	350
	6	4	3,10	CH1000-6	MH1000-6	350
	7	4	3,10	CH1000-7	MH1000-7	350
	8	4	3,10	CH1000-8	MH1000-8	350
	9	4	3,10	CH1000-9	MH1000-9	350
2000	3	4	3,10	CH2000-3	MH2000-3	350
	4	4	3,10	CH2000-4	MH2000-4	350
	5	4	3,10	CH2000-5	MH2000-5	350
	6	4	3,10	CH2000-6	MH2000-6	400
	7	4	3,10	CH2000-7		

COLUMN AND WALL-MOUNTED MANUAL JIB CRANE ARTICULATED VERSION



It is manufactured in two half-booms without tie-rods which may have different lengths and can rotate independently.

It ensures a considerable room-saving due to the absence of tie-rods and allows its handling also with stationary obstacles.

Lifting capacity Kg	Arm mt	COLUMN-MOUNTED JIB CRANE		WALL-MOUNTED JIB CRANE	
		Height mt	Model	Model	Standard for pillar
125	1+2	3	CS125-3	MS125-3	300
	2+2	3	CS125-4	MS125-4	300
	2+3	3,5	CS125-5	MS125-5	300
	3+3	3,5	CS125-6	MS125-6	300
	3+4	3,5	CS125-7	MS125-7	300
	4+4	3,5	CS125-8	MS125-8	300
250	1+2	3	CS250-3	MS250-3	300
	2+2	3	CS250-4	MS250-4	300
	2+3	3,5	CS250-5	MS250-5	300
	3+3	3,5	CS250-6	MS250-6	300
	3+4	3,5	CS250-7	MS250-7	300
	4+4	3,5	CS250-8	MS250-8	300
500	1+2	3	CS500-3	MS500-3	300
	2+2	3	CS500-4	MS500-4	300
	2+3	3	CS500-5	MS500-5	300
	3+3	3	CS500-6	MS500-6	350
	3+4	3	CS500-7	MS500-7	350
	4+4	3	CS500-8	MS500-8	350
1000	1+2	3	CS1000-3	MS1000-3	350
	2+2	3	CS1000-4	MS1000-4	350
	2+3	3	CS1000-5	MS1000-5	350

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VACUUM LIFTERS FOR THE STONE INDUSTRY



Among 150 models for every need

The vacuum lifter is a lifting accessory, which, thanks to the vacuum created by a vacuum generator, permits fast and easy attachment, lifting and handling of sheets and semi-processed made of marble, granite and other material.

The vacuum is created by a vacuum generator supplied with compressed air (it just needs to be connected to the compressor) or an electric pump (independent or to be applied to the machine) electrically supplied.

In relation to the dimensions of the material to be moved, the vacuum lifters are comprised of one, two, three, four, or more vacuum pads, adjustable both longitudinally and transversely, with total load capacities ranging from 80 to 3000 kg. The vacuum pads have special seals to guarantee grip efficiency. The dimensions of the pads vary on the basis of the weight of the material.

The structure of the vacuum lifter may be manually tipping or with the aid of a pneumatic piston, which permits easier material handling from the horizontal position to the vertical (0°-90°).

The vacuum lifter is fitted to lifting means such as a bridge-crane, jib-crane, suspended system, fork lift, etc.

Vacuum lifters and safety

A series of components guarantees maximum grip safety.

The grip and release of the sheets is effected by commanding a double action slide valve, with safety against involuntary start-up.

A vacuum gauge with coloured scale installed on the vacuum circuit permits constant control of the vacuum reached. Safety device intervention is regulated by a vacuum switch fitted to the vacuum tank.



The vacuum tank, in addition to accelerate the mesh, coupled with a double non-return valve guarantees that the load is not immediately released if there is a sudden supply interruption thus ensuring the safety of the operator and of the transported material.

The vacuum lifter is also provided with an acoustic and visual alarm system, supplied autonomously and alert the operator on possible dangerous situations.

lifting and handling equipment

righetti

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WHY CHOOSE THE RIGHETTI VACUUM LIFTERS

Our vacuum lifters and lifting systems are designed and built to optimise working times to the maximum, by offering a **strong and easy to use product**.

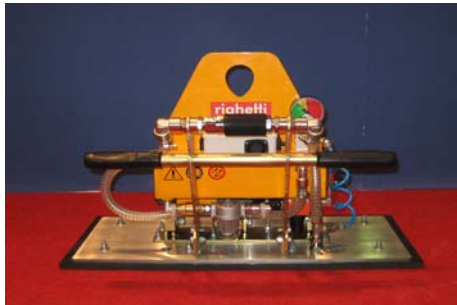
Our products are manufactured according to the Directive for machinery and the safety standards. They are supplied complete with EC mark, Conformity Certificate and Operation Manual and Maintenance.

- All the spare parts are of a high certified quality easy to be find all over the world.
- Reinforced metal frame of the vacuum lifter, small and slender, also for a better visibility.
- Big vacuum tank for a secure and prompt drive, important especially in the vertical drive, treated inside against the corrosion.
- Reduced compressed air consumption.
- On request, stainlees steel plates are supplied, wearproof plates for a reduced consumption of the gaskets.
- Suction tests are carried out for particular material.
- After-sale service, assistance and replacements in a short time.
- Delivery to Italy and abroad.

AIR POWERED VACUUM LIFTERS AND LIFTERS WITH ELECTRIC VACUUM PUMP

1 PAD MODEL

suitable for moving solid and intact slabs and for reduced dimension



Air powered models

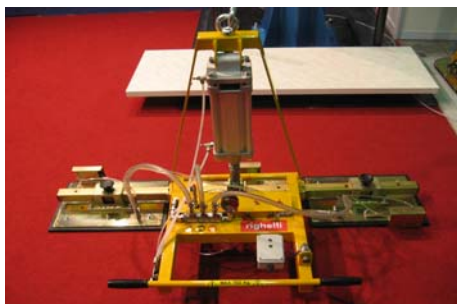
Lifting capacity	Dimensions of pads	Tipping / Model	
		manual	pneumatic
125	450 x 200	M1A 125	P1A 125
250	600 x 250	M1A 250	P1A 125
300	600 x 300	M1A 300	P1A 300
500	600 x 400	M1A 500	P1A 500
1000	900 x 450	M1A 1000	P1A 1000

Models with electric pump

Lifting capacity	Dimensions of pads	Model	
		On board electric pump	Independent electric pump
125	450 x 200	M1EB 125	M1E 125
250	600 x 250	M1EB 250	M1E 125
300	600 x 300	M1EB 300	M1E 300
500	600 x 400	M1EB 500	M1E 500
1000	900 x 450	M1EB 1000	M1E 1000

2 PADS MODEL

suitable for bigger slabs



Air powered models

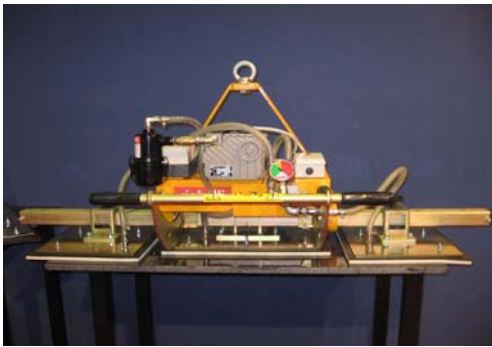
Lifting capacity	Dimensions of pads	Tipping / Model	
		manual	pneumatic
250	450 x 200	M2A 250	P2A 250
500	450 x 300	M2A 500	P2A 500
1000	600 x 400	M2A 1000	P2A 1000
1500	800 x 400	M2A 1500	P2A 1500

Models with electric pump

Lifting capacity	Dimensions of pads	Model	
		On board electric pump	Independent electric pump
250	450 x 200	M2EB 250	M2E 250
500	450 x 300	M2EB 500	M2E 500
1000	600 x 400	M2EB 1000	M2E 1000
1500	800 x 400	M2EB 1500	M2E 1500

3 PADS MODEL

suitable for bigger slabs, very versatile, the pads can be used individually – the central pad can be removed and only the lateral pads can be used or the lateral pads can be removed and to move small slabs the central pad can be used individually



Air powered models

Lifting capacity	Dimensions of pads	Tipping / Model	
		Manual	pneumatic
350	450 X 200	M3A 350	P3A 350
500	400 x 200 (x2) 450 x 300 (x1)	M3A 500	P3A 500
750	450 x 300	M3A 750	P3A 750
1200	600 x 400 (x2) 600 x 250 (x1)	M3A 1200	P3A 1200

Models with electric pump

Lifting capacity	Dimensions of pads	Model	
		On board electric pump	Independent electric pump
350	450 X 200	M3EB 350	M3E 350
500		M3EB 500	M3E 500
750	450 x 300	M3EB 750	M3E 750
1200	600 x 400 (x2) 600 x 250 (x1)	M3EB 1200	M3E1200

4 PADS MODEL

suitable for less solid slabs or bigger slabs



Air powered models

Lifting capacity	Dimensions of pads	Tipping / Model	
		Manual	pneumatic
500	450 x 200	M4A 500	P4A 500
1000	450 x 300	M4A 1000	P4A 1000
1500	600 x 300	M4A 1500	P4A 1500
2000	600 x 400	M4A 2000	P4A 2000

Models with electric pump

Lifting capacity	Dimensions of pads	Model	
		On board electric pump	Independent electric pump
500	450 x 200	M4EB 500	M4E 500
1000	450 x 300	M4EB 1000	M4E 1000
1500	600 x 300	M4EB 1500	M4E 1500
2000	600 x 400	M4EB 2000	M4E 2000

Air powered models

- the connection to the compressor is made through the rapid joint
- pressure 6 –7 bar
- manual or pneumatic tipping from 0° to 90°

Electric powered models

- working with on board or independent electric vacuum pump
- manual tipping from 0° to 90°



Independent electric pump

SPECIAL MANUFACTURES

Further to the standard models, the company RIGHETTI projects and manufactures vacuum lifters according to different requirements in order to obtain a machine corresponding perfectly to all customers' wishes.

Consequently the company is able to supply the following machines:

- Plates dimensions according to your request
- Customized lengths
- Low headroom execution
- Different capacities as regards as the standard models
- Telescopic handle
- Particular machines



PINCERS

The pincers are removable fixtures for the lifting and handling of vertical plates. The pincer represents the last interface between the plate to be lifted and the lifting hook of the fixture. It can be directly or indirectly assembled on the hook or on any couple device of a lifting fixture without interfering on the integrity of the fixture itself.

It is usually applied in the marble and/or granite sector for the handling of rough or dressed plates.

The pincer is moved through lifting equipment as: bridge crane, jib crane with sliding trolley, travelling crane trucks, etc, equipped with lifting winch with drum for the rope winding and block with hook at the lifting ends. The pincers are equipped with manual release.

LIFTING CAPACITY 750 KG



Model PS750

lifting capacity 750 kg
opening max 75 mm

LIFTING CAPACITY 1000 KG



Model PS750

lifting capacity 1000 kg
opening max 100 mm

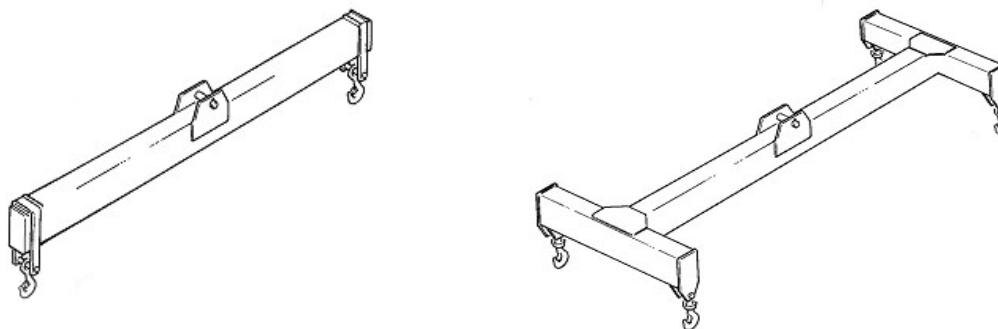
LIFTING CAPACITY 1500 KG



Model PS1500

lifting capacity 1500 kg
opening max 200 mm

SPREADER BEAMS



The spreader beams are removable and changeable lifting accessories placed by the operator between the hook of the lifting equipment and the load to be lifted in order to allow the grip, the lifting and the travelling. They are equipped with a coupler to the lifting equipment generally constituted by a ring or a slot.

<i>Portata</i>	<i>Lunghezza</i>	<i>Modello FISSO</i>	<i>Modello con GANCI MOBILI</i>
1000	2000	B 12F	B 12M
	3000	B 13F	B 13M
	4000	B 14F	B 14M
	5000	B 15F	B 15M
2000	2000	B 22F	B 22M
	3000	B 23F	B 23M
	4000	B 24F	B 24M
	5000	B 25F	B 25M
3000	2000	B 32F	B 32M
	3000	B 33F	B 33M
	4000	B 34F	B 34M
	5000	B 35F	B 35M
4000	2000	B 42F	B 42M
	3000	B 43F	B 43M
	4000	B 44F	B 44M
	5000	B 45F	B 45M
5000	2000	B 52F	B 52M
	3000	B 53F	B 53M
	4000	B 54F	B 54M
	5000	B 55F	B 55M