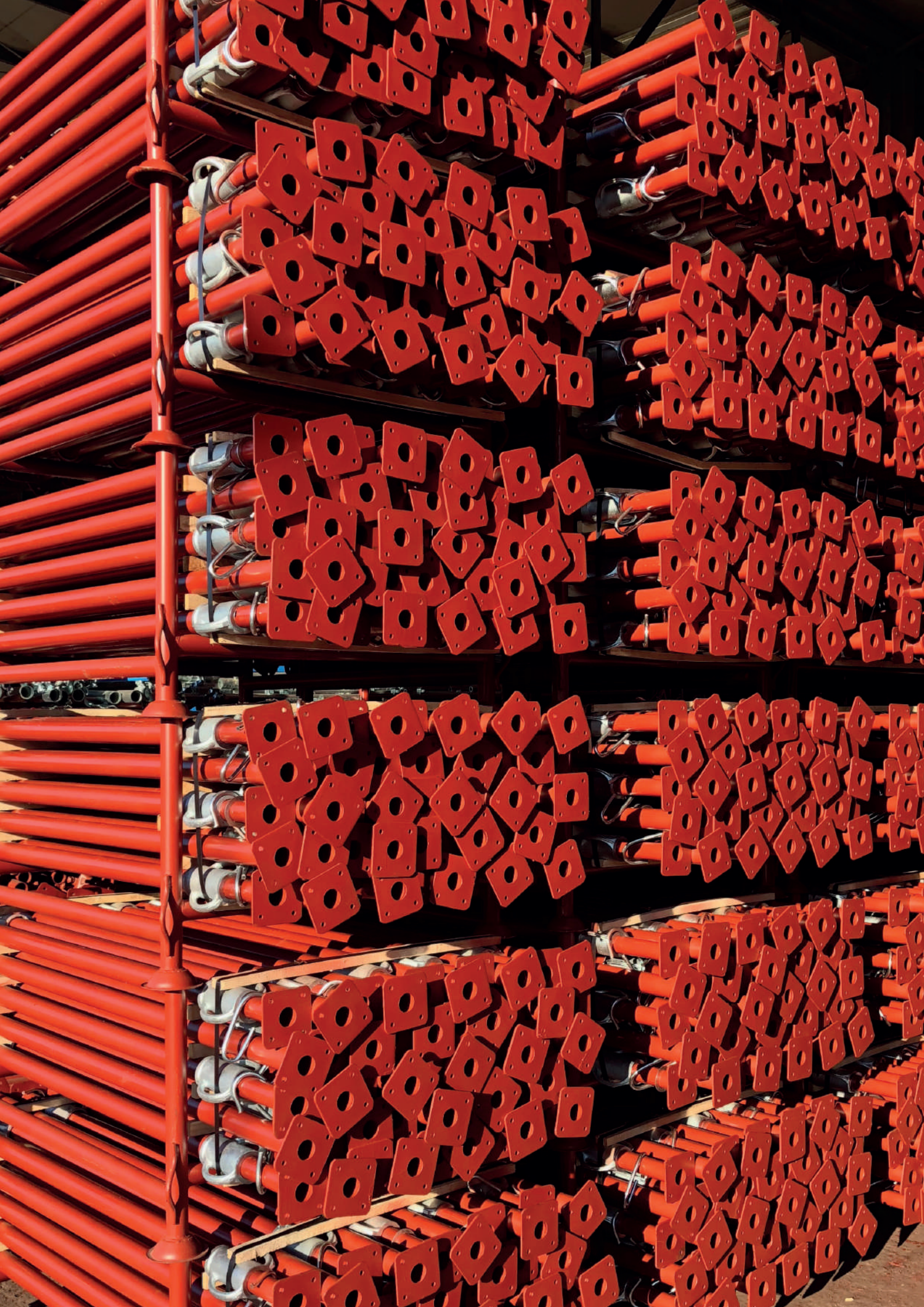

Shoring Props

Shoring towers

Props and towers accessories







Shoring Props



Manufacturing building props.



QUALITY MATERIALS



DURABILITY AND RESISTANCE



SAFETY

Made in Italy, certified in Germany, used worldwide.

We - at GBM - have been designing, manufacturing and selling props for more than 60 years. This is why construction companies across the world opt for our products.

Props are the starting point in every multi-storey building construction. They are generally classified into: light props, DIN EN 1065 props, push-pull props, forked props, aluminium props and loading towers.

Besides helping you save materials and time, these props are a safe bet to achieve your results at the worksite.

Ever groundbreakers, since back when we were just small-scale manufactures up to today when we utilise the most advanced metal and finished product machining techniques, always striving to achieve top-notch production.

Our props meet all the quality standards required by the most demanding standards regulations worldwide, throughout the entire manufacturing process.

Furthermore they are compatible with the most widespread formwork systems.



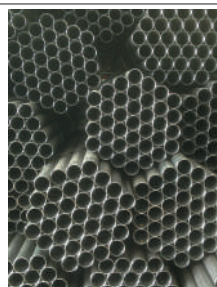
Props manufacturing steps.

Props machining steps: we manufacture our products with utmost care, in compliance with the toughest standards in Italy and in Europe.

GBM products are sold all over the world. Thus, each and every product must comply with safety and reliability standards always exceeding the standards required in the country of use.

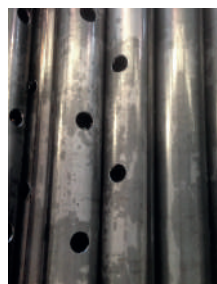
Setting up a safe construction site requires compliance with strict standards, right from the choice of materials used for setting up the worksite. Our products guarantee safety and reliability for our customers. And for the customers of our customers. Here are the steps for manufacturing a certified GBM prop.

PROJECT — It all starts with our customer's needs. Whether you are a dealer in building materials on the other corner of the globe, or a major constructor striving to complete a large project, or a small-scale construction company, the first step always lies in identifying which products you actually need.



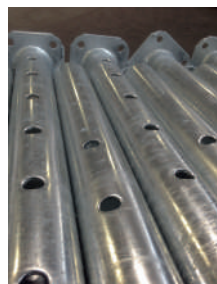
RAW MATERIAL — Our technical department will then select the raw material depending on the required type of prop, by verifying the quality of the steel.

CUTTING — Steel pipes (both external and internal) are then cut to size with a ± 1 mm tolerance. Cutting is done using automatic cutting machines: a bundle of pipes is placed on the loader which selects one pipe at a time. It is then loaded on a positioning device and cut precisely at the desired height. Lastly, the pipe is unloaded into a container for the subsequent step.



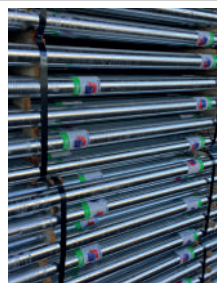
DRILLING — Then there follows the drilling step, which is carried out depending on the type of pipe. Due to the new technologies, the drilling is quick, precise and burr-free.

WELDING — External pipes proceed to the welding step, where - suitably positioned - they are assembled with the base plate (previously forged by 250-ton press machines) and the end is threaded (this is obtained through a rolling-forming process, which reinforces its structure). Once drilled, the internal pipes undergo the same welding process but concerning the plate only.



COATING AND GALVANISING — Once welded, the props can be: dip coated, cold-dip galvanised (electrolytically), for a more durable protection with respect to dip coating and for better aesthetic quality, or hot dip galvanised for a basically permanent protection, suitable for all environments and withstanding external atmospheric agents.

FINISH — Depending on the product, next come the completion steps including: mounting an outer sleeve on the covered threading or a forged steel ring nut on which the product identification code is stamped; marking the plates with the customer's identification code.



CUSTOMISATION — Customised products are available upon request: for example with a ring nut bearing the customer's colours, or the customisation of the prop using stickers bearing the customer's logo.

CAPACITY TEST — We perform in-house tests (capacity tests) on randomly collected samples.



PACKAGING AND SHIPMENT — Once concluded with machining, we proceed to the packaging step. Packages usually come with 50 pieces, strapped. The material is then loaded into a truck or container and shipped.



"Italia" light props.

Approval certificates
The approval certificate for the standard telescopic Italia prop model is the quality assurance issued by a prestigious University Institute. The certificate guarantees perfect functionality of the telescopic prop under load.



PDF available on www.gbmitaly.com

"Italia" prop is a standard light steel shoring system: the most used in Italy.

Given its popularity and history, fruit of a typical Italian tradition, it is Italy's benchmark prop abroad.

It is easy to spot due to its distinctive red colour.

Being resistant and economic, it suits any use when it comes to propping.

Italia props are hot dip coated in red (with galvanising option upon request).

The holes located in the inner pipe at a 100 mm interval, can reach extensions varying between 50 and 500 cm.

They are compatible with most accessories of other formworks and floors.

GBM light duty prop comes with the following features:

- » Drilled inner (with accurate precision and burr-free) every 100 mm so as to enable the adjustment of the prop;
- » S235JR steel inner and outer pipe according to the UNI EN 10219-1 / 2 standard;
- » 8 mm pitch threaded adjustment sleeve with welded handles;
- » Male threaded directly onto the outer pipe, or welded, obtained through rolling-forming that is without removing material;
- » Lower plate, available in flat or rounded version;
- » Upper plate available in three versions (plate, crosspiece or fork);
- » High resistance safety hook for fixing between the inner and outer pipe;
- » Anti-shearing system which enables working under safe conditions at all times;
- » Manufacturing standards: Italian Presidential Decree N° 164/56 ART. 7 – UNI EN 729-2:1996.

Upon request:

- » Anti-disengagement system which enables quick release of the prop with little effort;
- » Reinforcement at the foot consisting of mounting an extra 200mm tube on the outer one in proximity of the lower plate;
- » Cast iron sleeve.





Loads table



We - at GBM - manufacture 11 different models of light steel props. They are classified according to maximum extension and capacity. Below are their technical features.

Extension	50-80	80-130	110-180	150-270	160-290	170-300	180-320	200-360	220-400	240-450	280-500
(m)	(kN)										
5,00	-	-	-	-	-	-	-	-	-	-	4,43
4,90	-	-	-	-	-	-	-	-	-	-	4,74
4,80	-	-	-	-	-	-	-	-	-	-	5,06
4,70	-	-	-	-	-	-	-	-	-	-	5,38
4,60	-	-	-	-	-	-	-	-	-	-	5,70
4,50	-	-	-	-	-	-	-	-	-	5,04	6,08
4,40	-	-	-	-	-	-	-	-	-	5,52	6,46
4,30	-	-	-	-	-	-	-	-	-	6,00	6,93
4,20	-	-	-	-	-	-	-	-	-	6,36	7,39
4,10	-	-	-	-	-	-	-	-	-	7,03	7,99
4,00	-	-	-	-	-	-	-	-	6,20	7,58	8,59
3,90	-	-	-	-	-	-	-	-	6,52	8,10	9,35
3,80	-	-	-	-	-	-	-	-	6,87	8,53	10,12
3,70	-	-	-	-	-	-	-	-	8,51	8,62	11,17
3,60	-	-	-	-	-	-	-	8,14	8,55	9,10	12,22
3,50	-	-	-	-	-	-	-	8,14	8,58	9,63	13,68
3,40	-	-	-	-	-	-	-	8,14	8,61	10,21	15,15
3,30	-	-	-	-	-	-	-	10,91	10,00	10,47	15,62
3,20	-	-	-	-	-	-	10,85	11,82	11,88	12,73	15,62
3,10	-	-	-	-	-	-	11,79	12,12	12,48	13,70	15,62
3,00	-	-	-	-	-	12,06	12,73	13,03	13,33	14,55	15,62
2,90	-	-	-	-	13,20	13,21	13,94	13,94	13,94	15,62	15,62
2,80	-	-	-	-	13,72	13,64	15,15	14,85	15,15	15,62	15,62
2,70	-	-	-	14,42	14,28	14,18	15,62	15,62	15,62	15,62	-
2,60	-	-	-	15,62	15,62	15,15	15,62	15,62	15,62	15,62	-
2,50	-	-	-	15,62	15,62	15,62	15,62	15,62	15,62	15,62	-
2,40	-	-	-	15,62	15,62	15,62	15,62	15,62	15,62	-	-
2,30	-	-	-	15,62	15,62	15,62	15,62	15,62	15,62	-	-
2,20	-	-	-	15,62	15,62	15,62	15,62	15,62	15,62	-	-
2,10	-	-	-	15,62	15,62	15,62	15,62	15,62	-	-	-
2,00	-	-	-	15,62	15,62	15,62	15,62	15,62	-	-	-
1,90	-	-	-	15,62	15,62	15,62	15,62	-	-	-	-
1,80	-	-	15,62	15,62	15,62	15,62	15,62	-	-	-	-
1,70	-	-	15,62	15,62	15,62	15,62	-	-	-	-	-
1,60	-	-	15,62	15,62	15,62	-	-	-	-	-	-
1,50	-	-	15,62	15,62	-	-	-	-	-	-	-
1,40	-	-	15,62	-	-	-	-	-	-	-	-
1,30	-	15,62	15,62	-	-	-	-	-	-	-	-
1,20	-	15,62	15,62	-	-	-	-	-	-	-	-
1,10	-	15,62	15,62	-	-	-	-	-	-	-	-
1,00	-	15,62	-	-	-	-	-	-	-	-	-
0,90	-	15,62	-	-	-	-	-	-	-	-	-
0,80	15,62	15,62	-	-	-	-	-	-	-	-	-
0,70	15,62	-	-	-	-	-	-	-	-	-	-
0,60	15,62	-	-	-	-	-	-	-	-	-	-
0,50	15,62	-	-	-	-	-	-	-	-	-	-

Dimensional table

“Italia” Prop	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Ø Outer tube (mm)	Plates	Safe factor	Weight (Kg)
50-80	0,80	0,50	48,30	56,00	Yes	1,65	4,22
80-130	1,30	0,80	48,30	56,00	Yes	1,65	4,94
110-180	1,80	1,10	48,30	56,00	Yes	1,65	6,18
150-270	2,70	1,50	48,30	56,00	Yes	1,65	7,80
160-290	2,90	1,60	48,30	56,00	Yes	1,65	8,22
170-300	3,00	1,70	48,30	56,00	Yes	1,65	8,54
180-320	3,20	1,80	48,30	56,00	Yes	1,65	8,86
200-360	3,60	2,00	48,30	56,00	Yes	1,65	9,60
220-400	4,00	2,20	48,30	56,00	Yes	1,65	10,54
240-450	4,50	2,40	48,30	56,00	Yes	1,65	12,80
280-500	5,00	2,80	48,30	56,00	Yes	1,65	13,00



DIN EN 1065 props.

The DIN certificate for GBM Building Equipment DIN EN 1065 telescopic props is a quality assurance issued by a prestigious University Institute. The certificate guarantees perfect functionality of the telescopic prop under load.



PDF available on www.gbmitaly.com

GBM DIN EN 1065 GBM props are heavy duty props. Designed to bear heavy loads - more than 30kN - they are at the core of GBM production.

Thanks to the certificate issued by the strict German technical institute "Technische Universität München", they fully comply with the UNI EN 1065:1999 European standard.

This standard sets the toughest requirements worldwide as regards materials, design requirements and protection measures against corrosion.

The handle of the prop always features a marking bearing the following:

- » The standard subject of compliance;
- » Year of manufacture;
- » Manufacturer Identification Code (G stands for GBM).

DIN EN 1065 heavy duty props come in the following versions:

- » Coated;
- » Electrolytically galvanized;
- » Hot dip galvanized.

This type of prop can be customised using branded stickers upon request.

These products are compatible with most accessories of other formworks and floors.

GBM DIN EN 1065 props come in three models, depending on the guaranteed maximum capacity at the maximum extensions:



DIN EN 1065 class B

With variable capacity and available in variants with 182 to 400 cm extension.



DIN EN 1065 class D

With 20kN guaranteed capacity and available in variants with 173 to 550 cm extension.



DIN EN 1065 class E

With 30kN guaranteed capacity and available in variants with 173 to 400 cm extension.



Below are the features of GBM “DIN EN 1065” EURO prop:

- » variously shaped plates depending on the class of the prop, so as to make it immediately recognisable visually;
- » forged steel adjustment ring nut with two supplementary holes, suitable for millimetric adjustment;
- » hook bevelled at the ends: easier to insert into the holes thanks to the ergonomic shape;
- » anti-shearing system: the greater length of the inner pipe with respect to the inner one enables guaranteeing an at least 10 cm difference between the two so as to prevent injury;
- » outer threading obtained by means of rolling-forming, hence guaranteeing the wholeness of the material without removing any material of it;
- » inner holes obtained using machines capable of perfectly machining them or by means of a milling system which obtains turnings on the surface of the pipe: both ways enable guaranteeing the complete absence of burrs near the holes;
- » inner pipe anti-slip-off system, so as to prevent the pipe from inadvertently slipping off thus guaranteeing wholeness and safety when laying down and displacing at the work-site;
- » three types of surface protections, obtained through the process of:
 - dip coating;
 - passivated electrolytic galvanising (tropicalisation), with guaranteed minimum thickness of 10 microns;
 - hot-dip galvanization, with guaranteed minimum thickness of 50 microns;

Upon request:

- » sticker customised with customer's logo, bearing information on capacity and maximum extension;
- » quick release system, an accessory that guarantees release of the prop under the load by just hitting with the hammer to quicken and simplify the release procedure as well as reduce the operator's effort;
- » tripod stand capable of supporting the prop when laying on site and when laying the floor;
- » three different types of fork for supporting the floor, depending on the manufacturer's needs:
 - head stop fork (simple),
 - 4-way head,
 - fork referred to as “drop head”.

Beware: the capacities indicated in the table always refer to the capacity of the single post shore. Higher capacities can be achieved by binding, gate-like systems or pipe-coupling systems. The gate-like system is a temporary structure suitable for creating a loading tower. Binding the props in fours enables maximising the capacity. The pipe-coupling system provides for a pipe above and beneath with couplings; it is the same figure of the gate, which is more economic though less quick.



DIN EN 1065 class B props loads table

Extension	B 30 (1,82 - 3,00 m)	B 35 (2,07 - 3,50 m)	B 40 (2,34 - 4,00 m)
(m)	(kN)		
4,00	-	-	11,60
3,90	-	-	12,60
3,80	-	-	13,10
3,70	-	-	13,90
3,60	-	-	14,80
3,50	-	15,80	15,50
3,40	-	17,00	16,20
3,30	-	18,10	17,10
3,20	-	18,30	18,30
3,10	-	20,20	19,40
3,00	21,10	20,80	20,10
2,90	23,10	21,00	21,30
2,80	24,80	21,10	22,80
2,70	27,00	21,40	25,90
2,60	28,90	22,00	30,00
2,50	30,60	23,30	30,00
2,40	32,10	25,10	30,00
2,30	34,00	28,80	30,00
2,20	36,80	30,00	-
2,10	39,00	30,00	-
2,00	39,00	30,00	-
1,90	39,00	-	-
1,80	39,00	-	-

We - at GBM - manufacture three different models of the DIN EN 1065 class B props (B 30, B 35, B 40).

These are classified according to maximum extension (this model is capable of covering extensions between 1.82 m and 4.00 m) and capacity (higher with closed configuration).

Below are the technical features of each one of them.

Dimensional table

DIN EN 1065 class B Prop	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Ø Outer tube (mm)	Plates	Safe factor	Weight (Kg)
30	3,00	1,82	48,30	60,30	Yes	1,65	14,50
35	3,50	2,07	48,30	60,30	Yes	1,65	15,80
40	4,00	2,34	48,30	60,30	Yes	1,65	17,90



DIN EN 1065 class D props loads table

Extension (m)	D 30 ECO 1,82 - 3,00 m		D 35 ECO 2,10 - 3,50 m		D 30 1,73 - 3,00 m		D 35 1,98 - 3,50 m		D 40 2,25 - 4,00 m		D 55 3,03 - 5,50 m	
	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down
(m)	(kN)											
5,50	-	-	-	-	-	-	-	-	-	-	21,80	24,00
5,40	-	-	-	-	-	-	-	-	-	-	22,90	25,20
5,30	-	-	-	-	-	-	-	-	-	-	23,90	26,30
5,20	-	-	-	-	-	-	-	-	-	-	25,10	27,60
5,10	-	-	-	-	-	-	-	-	-	-	26,60	29,30
5,00	-	-	-	-	-	-	-	-	-	-	27,50	30,30
4,90	-	-	-	-	-	-	-	-	-	-	29,30	32,20
4,80	-	-	-	-	-	-	-	-	-	-	30,60	33,70
4,70	-	-	-	-	-	-	-	-	-	-	32,60	35,90
4,60	-	-	-	-	-	-	-	-	-	-	33,70	37,10
4,50	-	-	-	-	-	-	-	-	-	-	35,60	39,00
4,40	-	-	-	-	-	-	-	-	-	-	37,60	39,00
4,30	-	-	-	-	-	-	-	-	-	-	39,00	39,00
4,20	-	-	-	-	-	-	-	-	-	-	39,00	39,00
4,10	-	-	-	-	-	-	-	-	-	-	39,00	39,00
4,00	-	-	-	-	-	-	-	-	21,80	25,10	39,00	39,00
3,90	-	-	-	-	-	-	-	-	22,60	26,00	39,00	39,00
3,80	-	-	-	-	-	-	-	-	24,50	28,20	39,00	39,00
3,70	-	-	-	-	-	-	-	-	26,50	30,50	39,00	39,00
3,60	-	-	-	-	-	-	-	-	27,70	31,90	39,00	39,00
3,50	-	-	20,60	24,10	-	-	23,90	28,70	29,60	34,00	39,00	39,00
3,40	-	-	20,90	24,80	-	-	26,00	31,20	31,90	36,70	39,00	39,00
3,30	-	-	21,30	25,40	-	-	28,10	33,70	33,80	38,90	39,00	39,00
3,20	-	-	21,70	26,00	-	-	30,30	36,40	35,20	39,00	39,00	39,00
3,10	-	-	22,20	26,70	-	-	32,10	38,50	36,40	39,00	39,00	39,00
3,00	21,10	25,30	22,70	27,40	29,30	35,20	33,30	39,00	38,30	39,00	-	-
2,90	23,10	27,70	23,30	28,30	30,70	36,80	34,20	39,00	39,00	39,00	-	-
2,80	24,80	29,80	24,00	30,00	31,60	37,90	34,80	39,00	39,00	39,00	-	-
2,70	27,00	32,40	24,60	31,10	32,20	38,60	35,40	39,00	39,00	39,00	-	-
2,60	28,90	34,70	25,30	32,30	32,90	39,00	36,90	39,00	39,00	39,00	-	-
2,50	30,60	36,70	26,00	34,00	33,60	39,00	38,70	39,00	39,00	39,00	-	-
2,40	32,10	38,50	26,70	35,20	34,60	39,00	39,00	39,00	39,00	39,00	-	-
2,30	34,00	39,00	27,50	37,50	35,70	39,00	39,00	39,00	39,00	39,00	-	-
2,20	36,80	39,00	28,50	39,00	37,20	39,00	39,00	39,00	-	-	-	-
2,10	39,00	39,00	30,00	39,00	38,80	39,00	39,00	39,00	-	-	-	-
2,00	39,00	39,00	-	-	39,00	39,00	39,00	39,00	-	-	-	-
1,90	39,00	39,00	-	-	39,00	39,00	-	-	-	-	-	-
1,80	39,00	39,00	-	-	39,00	39,00	-	-	-	-	-	-

We - at GBM manufacture six different models of DIN EN 1065 class D props (D 30 ECO, D 35 ECO, D 30, D 35, D 40, D 55). In some sizes, these products also come in the “eco” version, available at a lower price, but still capable of maintaining the guaranteed 20kn capacity at the maximum extensions.

The six models are classified according to the maximum extension (comprised between 1.80 m and 5.50 m) and capacity.

Below are the technical features of each one of them.



Dimensional table

DIN EN 1065 class D Prop	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Ø Outer tube (mm)	Plates	Safe factor	Weight (Kg)
30 ECO	3,00	1,82	48,30	60,30	Yes	1,65	15,90
35 ECO	3,50	2,00	48,30	60,30	Yes	1,65	17,60
30	3,00	1,73	63,50	76,10	Yes	1,65	17,80
35	3,50	1,98	63,50	76,10	Yes	1,65	19,70
40	4,00	2,25	63,50	76,10	Yes	1,65	22,10
55	5,50	3,03	76,10	88,90	Yes	1,65	35,00

DIN EN 1065 class E props loads table

Extension	E 30 1,73 - 3,00 m		E 35 1,98 - 3,50 m		E 40 2,25 - 4,00 m	
	Up	Down	Up	Down	Up	Down
(m)	(kN)					
4,00	-	-	-	-	33,20	36,50
3,90	-	-	-	-	36,80	40,50
3,80	-	-	-	-	39,00	41,00
3,70	-	-	-	-	41,00	41,00
3,60	-	-	-	-	41,00	41,00
3,50	-	-	32,00	33,60	41,00	41,00
3,40	-	-	35,30	37,10	41,00	41,00
3,30	-	-	37,70	39,60	41,00	41,00
3,20	-	-	40,00	41,00	41,00	41,00
3,10	-	-	41,00	41,00	41,00	41,00
3,00	32,40	35,60	41,00	41,00	41,00	41,00
2,90	35,80	39,40	41,00	41,00	41,00	41,00
2,80	36,40	40,00	41,00	41,00	41,00	41,00
2,70	37,30	41,00	41,00	41,00	41,00	41,00
2,60	38,80	41,00	41,00	41,00	41,00	41,00
2,50	39,70	41,00	41,00	41,00	41,00	41,00
2,40	40,00	41,00	41,00	41,00	41,00	41,00
2,30	41,00	41,00	41,00	41,00	41,00	41,00
2,20	41,00	41,00	41,00	41,00	-	-
2,10	41,00	41,00	41,00	41,00	-	-
2,00	41,00	41,00	41,00	41,00	-	-
1,90	41,00	41,00	-	-	-	-
1,80	41,00	41,00	-	-	-	-

We - at GBM - manufacture three different models of the DIN EN 1065 class E props (E 30, E 35, E 40). They are classified according to maximum extension and capacity. Below are the technical features of each one of them.

Dimensional table

DIN EN 1065 class E Prop	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Ø Outer tube (mm)	Plates	Safe factor	Weight (Kg)
30	3,00	1,73	63,50	76,10	Yes	1,65	17,50
35	3,50	1,98	63,50	76,10	Yes	1,65	23,80
40	4,00	2,25	76,10	88,90	Yes	1,65	26,00



Comparative table

	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Ø Outer tube (mm)	Weight (Kg)
B 30	3,00	1,82	48,30	60,30	14,50
B 35	3,50	2,07	48,30	60,30	15,80
B 40	4,00	2,34	48,30	60,30	17,90
D 30 ECO	3,00	1,82	48,30	60,30	15,90
D 35 ECO	3,50	2,10	48,30	60,30	17,60
D 30	3,00	1,73	63,50	76,10	17,80
D 35	3,50	1,98	63,50	76,10	19,70
D 40	4,00	2,25	63,50	76,10	22,10
D 55	5,50	3,03	76,10	88,90	35,00
E 30	3,00	1,73	63,50	76,10	17,50
E 35	3,50	1,98	63,50	76,10	23,80
E 40	4,00	2,25	76,10	88,90	26,00





Fork head props.

Props made with fork already welded to support the beam in the shoring system.

Fork head props manufactured according to the customer's ABOMA.



They come in 4 models with different extension and capacity:

- » **GBM 30**
extensible between 1,80 and 3,00 metres
- » **GBM 36**
extensible between 2,10 and 3,60 metres
- » **GBM 41**
extensible between 2,40 and 4,10 metres
- » **GBM 50**
extensible between 2,90 and 5,00 metres

Below are the features of GBM fork head props:

- » hook bevelled at the ends: easier to insert into the holes thanks to the ergonomic shape;
- » anti-shearing system: the greater length of the inner pipe with respect to the outer one enables guaranteeing an at least 10 cm difference between the two so as to prevent injury;
- » inner holes obtained using machines capable of perfectly machining them or by means of a milling system which obtains turnings on the surface of the pipe: both ways enable guaranteeing the complete absence of burrs near the holes;
- » inner pipe anti-slip-off system, so as to prevent the pipe from inadvertently slipping off thus guaranteeing wholeness and safety when laying down and displacing at the work-site;
- » hot-dip galvanization, with guaranteed minimum thickness of 50 microns.

Upon request:

- » sticker customised with customer's logo, bearing information on capacity and maximum extension;
- » quick release system, an accessory that guarantees the release of the prop under the load by just hitting with the hammer to quicken and simplify the release procedure as well as reduce the operator's effort.

Beware: the capacities indicated in the table always refer to the capacity of the single post shore. Higher capacities can be achieved by binding, gate-like systems or pipe-coupling systems. The gate-like system is a temporary structure suitable for creating a loading tower. Binding the props in fours enables maximising the capacity. The pipe-coupling system provides for a pipe above and beneath with couplings; it is the same figure of the gate, which is more economic though less quick.





We - at GBM - manufacture 4 different models of Fork head props (GBM 30, GBM 36, GBM 41, GBM 50). They are classified according to maximum extension and capacity. Below are their technical features.

Fork head props loads table

Extension	GBM 30	GBM 36	GBM 41	GBM 50
(m)	(kN)			
5,00	-	-	-	8,20
4,90	-	-	-	8,60
4,80	-	-	-	8,90
4,70	-	-	-	9,30
4,60	-	-	-	9,70
4,50	-	-	-	10,30
4,40	-	-	-	10,80
4,30	-	-	-	11,30
4,20	-	-	-	11,90
4,10	-	-	11,30	12,40
4,00	-	-	12,00	12,90
3,90	-	-	12,70	13,40
3,80	-	-	13,40	14,40
3,70	-	-	14,10	15,40
3,60	-	12,50	14,80	16,40
3,50	-	13,30	15,50	17,40
3,40	-	14,20	16,20	18,40
3,30	-	15,00	16,90	19,30
3,20	-	15,90	17,60	20,30
3,10	-	16,70	18,50	21,30
3,00	16,50	17,50	19,30	22,30
2,90	17,40	18,40	20,20	23,30
2,80	18,30	19,20	21,10	-
2,70	19,20	19,80	21,90	-
2,60	20,10	20,40	22,80	-
2,50	21,00	21,00	23,60	-
2,40	21,90	21,70	24,50	-
2,30	22,10	22,30	-	-
2,20	22,20	22,90	-	-
2,10	22,40	23,50	-	-
2,00	22,50	-	-	-
1,90	22,70	-	-	-
1,80	22,80	-	-	-

Dimensional table

Fork head props	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Ø Outer tube (mm)	Plates	Safe factor	Weight (Kg)
GBM 30	3,00	1,80	48,30	57,00	Yes	1,65	15,10
GBM 36	3,60	2,10	48,30	57,00	Yes	1,65	16,50
GBM 41	4,10	2,40	48,30	57,00	Yes	1,65	19,10
GBM 50	5,00	2,90	48,30	57,00	Yes	1,65	22,60



Push-pull props.

GBM push push-pull diagonal props consist of two telescopically slidable pipes.

The displacement thereof can be adjusted by means of a threaded ring nut and a pin inserted into the holes of the inner pipe.

This structure enables it to perform two actions, the classic pushing action (like normal props do) and the pulling action.

These elements are crucial for temporary and safe stabilisation of structures during the casting step, whether formworks, wooden panels, or prefabricated elements of various types.

GBM push-pull props come in three models:



Type L push-pull props

In the type L models, plumbing is carried out using a double handle sleeve. This model comes in two variants: Type **L1** and type **L2**.



Type N push-pull props

In type N models, plumbing is carried out by means of a single ring nut which increases or reduces the extension of the prop depending on the rotation direction.



Type H push-pull props

In type H models, plumbing is carried out by means of two spherical cast iron ring nuts which increase or reduce the extension thereof. This model comes in two variants: **H1** and **H2**.



Both versions are characterised by:

- » Extension adjustable between 1.80 and 5.00 m depending on the prop model, at 10 cm intervals by means of a double handle sleeve adjustment;
- » Pulling guaranteed at 22.00 kN regardless of the use extension;
- » Anti-shearing system: the greater length of the inner pipe with respect to that of the outer pipe enables guaranteeing an at least 10 cm difference between the two during the closing stage so as to avoid injury;
- » Plates that can be articulated mounted on the two ends, so as to ensure the greatest adherence possible when fixing and mounting at multiple angles.

Features:

- » Extension adjustable between 1.80 and 5.00 m depending on the prop model, at 10 cm intervals by adjusting a spherical cast iron ring nut;
- » Pulling guaranteed at 38.00 kN regardless of the use extension;
- » Anti-shearing system: the greater length of the inner pipe with respect to that of the outer pipe enables guaranteeing an at least 10 cm difference between the two during the closing stage so as to avoid injury;
- » Plates that can be articulated mounted on the two ends, so as to ensure the greatest adherence possible when fixing and mounting at multiple angles;
- » Pipe protection: hot-dip galvanization in compliance with the UNI EN ISO 1461 standard, with a guaranteed minimum thickness of 55 microns;
- » Inner pipe diameter 48 x 3.00 mm;
- » Outer pipe diameter 60 x 2.50 mm.

Upon request:

- » Sticker customised with the customer's logo, bearing information on capacity and maximum extension.

Both versions are characterised by:

- » Extension adjustable between 1.80 and 5.40 m depending on the prop model, at 10 cm intervals by adjusting two steel ring nuts;
- » Pulling guaranteed at 38.00 kN regardless of the use extension;
- » Anti-shearing system: the greater length of the inner pipe with respect to that of the outer pipe enables guaranteeing an at least 10 cm difference between the two during the closing stage so as to avoid injury;
- » Plates that can be articulated mounted on the two ends, so as to ensure the greatest adherence possible when fixing and mounting at multiple angles;
- » Pipe protection: hot-dip galvanization in compliance with the UNI EN ISO 1461 standard, with a guaranteed minimum thickness of 55 microns.

Upon request:

- » Sticker customised with the customer's logo, bearing information on capacity and maximum extension.

L1



Lighter prop, usually comes in the coated version with the aim of optimising the costs-benefits ratio given that it is used for propping light objects.

Features of the Type L1 push-pull prop:

- » Pipe protection: RAL 3009 red hot-dip coating with minimum durability in compliance with the ASTM D 2247-87 standard tests in a humidostatic chamber;
- » Inner pipe diameter 48 x 1.80 mm;
- » Outer pipe diameter 56 x 1.65 mm.

Loads table

Extension	PTS 3000 L1			PTS 3500 L1			PTS 4000 L1			PTS 4500 L1			PTS 5000 L1		
	Compression		Traction	Compression		Traction	Compression		Traction	Compression		Traction	Compression		Traction
(m)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)
5,00	-	-	-	-	-	-	-	-	-	-	-	-	1,90	3,80	23,60
4,90	-	-	-	-	-	-	-	-	-	-	-	-	2,00	4,00	23,60
4,80	-	-	-	-	-	-	-	-	-	-	-	-	2,10	4,20	23,60
4,70	-	-	-	-	-	-	-	-	-	-	-	-	2,25	4,50	23,60
4,60	-	-	-	-	-	-	-	-	-	-	-	-	2,35	4,70	23,60
4,50	-	-	-	-	-	-	-	-	-	2,30	4,60	22,00	2,55	5,10	23,60
4,40	-	-	-	-	-	-	-	-	-	2,45	4,90	22,00	2,70	5,40	23,60
4,30	-	-	-	-	-	-	-	-	-	2,60	5,20	22,00	2,90	5,80	23,60
4,20	-	-	-	-	-	-	-	-	-	2,75	5,50	22,00	3,10	6,20	23,60
4,10	-	-	-	-	-	-	-	-	-	2,95	5,90	22,00	3,35	6,70	23,60
4,00	-	-	-	-	-	-	2,85	5,70	22,00	3,15	6,30	22,00	3,60	7,20	23,60
3,90	-	-	-	-	-	-	3,05	6,10	22,00	3,40	6,80	22,00	3,90	7,80	23,60
3,80	-	-	-	-	-	-	3,25	6,50	22,00	3,65	7,30	22,00	4,30	8,60	23,60
3,70	-	-	-	-	-	-	3,50	7,00	22,00	3,95	7,90	22,00	4,70	9,40	23,60
3,60	-	-	-	-	-	-	3,75	7,50	22,00	4,30	8,60	22,00	5,15	10,30	23,60
3,50	-	-	-	3,75	7,50	22,00	4,10	8,20	22,00	4,70	9,40	22,00	5,75	11,50	23,60
3,40	-	-	-	3,95	7,90	22,00	4,40	8,80	22,00	5,15	10,30	22,00	6,35	12,70	23,60
3,30	-	-	-	4,20	8,40	22,00	4,80	9,60	22,00	5,70	11,40	22,00	6,90	13,80	23,60
3,20	-	-	-	4,80	9,60	22,00	5,25	10,50	22,00	6,00	12,00	22,00	7,30	14,60	23,60
3,10	-	-	-	5,25	10,50	22,00	5,80	11,60	22,00	6,50	13,00	22,00	7,60	15,20	23,60
3,00	5,10	10,20	22,00	5,75	11,50	22,00	6,40	12,80	22,00	7,00	14,00	22,00	7,85	15,70	23,60
2,90	5,60	11,20	22,00	6,35	12,70	22,00	7,15	14,30	22,00	7,80	15,60	22,00	8,10	16,20	23,60
2,80	6,20	12,40	22,00	7,05	14,10	22,00	7,80	15,60	22,00	8,70	17,40	22,00	-	-	-
2,70	6,85	13,70	22,00	7,80	15,60	22,00	8,50	17,00	22,00	9,60	19,20	22,00	-	-	-
2,60	7,60	15,20	22,00	8,65	17,30	22,00	9,35	18,70	22,00	11,00	22,00	22,00	-	-	-
2,50	8,55	17,10	22,00	9,50	19,00	22,00	11,00	22,00	22,00	-	-	-	-	-	-
2,40	9,65	19,30	22,00	11,00	22,00	22,00	11,00	22,00	22,00	-	-	-	-	-	-
2,30	11,00	22,00	22,00	11,00	22,00	22,00	-	-	-	-	-	-	-	-	-
2,20	11,00	22,00	22,00	11,00	22,00	22,00	-	-	-	-	-	-	-	-	-
2,10	11,00	22,00	22,00	11,00	22,00	22,00	-	-	-	-	-	-	-	-	-
2,00	11,00	22,00	22,00	-	-	-	-	-	-	-	-	-	-	-	-
1,90	11,00	22,00	22,00	-	-	-	-	-	-	-	-	-	-	-	-
1,80	11,00	22,00	22,00	-	-	-	-	-	-	-	-	-	-	-	-

Dimensional table

L1 push-pull prop	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Inner tube thickness (mm)	Ø Outer tube (mm)	Outer tube thickness (mm)	Plates	Weight (Kg)
PTS 3000 L1	3,05	1,75	48,3	1,8	56	1,65	Yes	9,4
PTS 3500 L1	3,55	2,05	48,3	1,8	56	1,65	Yes	10,5
PTS 4000 L1	4,05	2,35	48,3	1,8	56	1,65	Yes	11,5
PTS 4500 L1	4,55	2,55	48,3	1,8	56	1,65	Yes	12,6
PTS 5000 L1	5,05	2,85	48,3	1,8	56	1,65	Yes	13,8

L2



With greater thicknesses, it comes both in the hot dip coated version as well as the galvanised version (hot or cold dip galvanisation).

Features of the Type L2 push-pull prop:

- » Pipe protection: hot-dip galvanization in compliance with the UNI EN ISO 1461 standard, with a guaranteed minimum thickness of 55 microns;
- » Inner pipe diameter 48 x 3.00 mm;
- » Outer pipe diameter 57 x 2.5 mm.

Loads table

Extension	PTS 3000 L2			PTS 3500 L2			PTS 4000 L2			PTS 4500 L2			PTS 5000 L2		
	Compression		Traction	Compression		Traction	Compression		Traction	Compression		Traction	Compression		Traction
(m)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)
5,00	-	-	-	-	-	-	-	-	-	-	-	-	2,42	4,84	36,70
4,90	-	-	-	-	-	-	-	-	-	-	-	-	2,55	5,11	36,70
4,80	-	-	-	-	-	-	-	-	-	-	-	-	2,70	5,41	36,70
4,70	-	-	-	-	-	-	-	-	-	-	-	-	2,87	5,73	36,70
4,60	-	-	-	-	-	-	-	-	-	-	-	-	3,05	6,09	36,70
4,50	-	-	-	-	-	-	-	-	-	2,90	5,80	36,70	3,24	6,49	36,70
4,40	-	-	-	-	-	-	-	-	-	3,08	6,15	36,70	3,46	6,93	36,70
4,30	-	-	-	-	-	-	-	-	-	3,27	6,55	36,70	3,71	7,41	36,70
4,20	-	-	-	-	-	-	-	-	-	3,49	6,98	36,70	3,98	7,96	36,70
4,10	-	-	-	-	-	-	-	-	-	3,73	7,45	36,70	4,29	8,58	36,70
4,00	-	-	-	-	-	-	3,65	7,29	36,70	3,99	7,98	36,70	4,64	9,28	36,70
3,90	-	-	-	-	-	-	3,89	7,79	36,70	4,28	8,57	36,70	5,04	10,09	36,70
3,80	-	-	-	-	-	-	4,17	8,33	36,70	4,61	9,23	36,70	5,51	11,02	36,70
3,70	-	-	-	-	-	-	4,47	8,94	36,70	4,99	9,97	36,70	6,06	12,12	36,70
3,60	-	-	-	-	-	-	4,81	9,62	36,70	5,41	10,83	36,70	6,71	13,42	36,70
3,50	-	-	-	4,70	9,39	36,70	5,19	10,38	36,70	5,91	11,81	36,70	7,47	14,95	36,70
3,40	-	-	-	5,06	10,13	36,70	5,62	11,24	36,70	6,48	12,96	36,70	8,34	16,69	36,70
3,30	-	-	-	5,47	10,95	36,70	6,11	12,22	36,70	7,16	14,32	36,70	9,21	18,43	36,70
3,20	-	-	-	5,94	11,88	36,70	6,67	13,34	36,70	7,99	15,98	36,70	9,89	19,77	36,70
3,10	-	-	-	6,47	12,93	36,70	7,32	14,65	36,70	9,01	18,02	36,70	10,33	20,65	36,70
3,00	6,51	13,03	36,70	7,07	14,14	36,70	8,10	16,20	36,70	10,30	20,60	36,70	10,65	21,31	36,70
2,90	7,12	14,25	36,70	7,76	15,53	36,70	9,03	18,07	36,70	11,94	23,88	36,70	10,96	21,91	36,70
2,80	7,83	15,65	36,70	8,57	17,15	36,70	10,19	20,39	36,70	13,66	27,33	36,70	-	-	-
2,70	8,64	17,28	36,70	9,53	19,07	36,70	11,69	23,37	36,70	14,65	29,30	36,70	-	-	-
2,60	9,59	19,19	36,70	10,69	21,38	36,70	13,71	27,42	36,70	15,25	30,50	36,70	-	-	-
2,50	10,73	21,45	36,70	12,12	24,25	36,70	16,64	33,29	36,70	-	-	-	-	-	-
2,40	12,09	24,19	36,70	13,96	27,92	36,70	18,35	36,70	36,70	-	-	-	-	-	-
2,30	13,79	27,58	36,70	16,42	32,84	36,70	-	-	-	-	-	-	-	-	-
2,20	15,95	31,90	36,70	18,35	36,70	36,70	-	-	-	-	-	-	-	-	-
2,10	18,35	36,70	36,70	18,35	36,70	36,70	-	-	-	-	-	-	-	-	-
2,00	18,35	36,70	36,70	-	-	-	-	-	-	-	-	-	-	-	-
1,90	18,35	36,70	36,70	-	-	-	-	-	-	-	-	-	-	-	-
1,80	18,35	36,70	36,70	-	-	-	-	-	-	-	-	-	-	-	-

Dimensional table

L2 push-pull prop	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Inner tube thickness (mm)	Ø Outer tube (mm)	Outer tube thickness (mm)	Plates	Weight (Kg)
PTS 3000 L2	3,05	1,75	48,3	3	57	2,5	Yes	13,4
PTS 3500 L2	3,55	2,05	48,3	3	57	2,5	Yes	15,1
PTS 4000 L2	4,05	2,35	48,3	3	57	2,5	Yes	16,6
PTS 4500 L2	4,55	2,55	48,3	3	57	2,5	Yes	18,3
PTS 5000 L2	5,05	2,85	48,3	3	57	2,5	Yes	20,2

N



The difference between the type N push-pull prop and the other classes lies in the type of verticality adjustment.

It is carried out by means of a single ring nut which increases or reduces the extension of the prop depending on the rotation direction.

The single ring nut can be slid in both directions by using two drilled details positioned in the cavities of the threaded pipes.

Loads table

Extension	PTS 3000 N			PTS 3500 N			PTS 4000 N			PTS 4500 N			PTS 5000 N		
	Compression		Traction	Compression		Traction	Compression		Traction	Compression		Traction	Compression		Traction
(m)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)
5,00	-	-	-	-	-	-	-	-	-	-	-	-	2,60	5,20	38,00
4,90	-	-	-	-	-	-	-	-	-	-	-	-	2,75	5,50	38,00
4,80	-	-	-	-	-	-	-	-	-	-	-	-	2,90	5,80	38,00
4,70	-	-	-	-	-	-	-	-	-	-	-	-	3,10	6,20	38,00
4,60	-	-	-	-	-	-	-	-	-	-	-	-	3,25	6,50	38,00
4,50	-	-	-	-	-	-	-	-	-	3,20	6,40	38,00	3,55	7,10	38,00
4,40	-	-	-	-	-	-	-	-	-	3,35	6,70	38,00	3,85	7,70	38,00
4,30	-	-	-	-	-	-	-	-	-	3,60	7,20	38,00	4,05	8,10	38,00
4,20	-	-	-	-	-	-	-	-	-	3,80	7,60	38,00	4,20	8,40	38,00
4,10	-	-	-	-	-	-	-	-	-	4,05	8,10	38,00	4,55	9,10	38,00
4,00	-	-	-	-	-	-	4,05	8,10	38,00	4,35	8,70	38,00	4,90	9,80	38,00
3,90	-	-	-	-	-	-	4,35	8,70	38,00	4,65	9,30	38,00	5,30	10,60	38,00
3,80	-	-	-	-	-	-	4,65	9,30	38,00	5,05	10,10	38,00	5,80	11,60	38,00
3,70	-	-	-	-	-	-	5,00	10,00	38,00	5,45	10,90	38,00	6,40	12,80	38,00
3,60	-	-	-	-	-	-	5,40	10,80	38,00	5,90	11,80	38,00	7,10	14,20	38,00
3,50	-	-	-	-	-	-	5,85	11,70	38,00	6,45	12,90	38,00	8,00	16,00	38,00
3,40	-	-	-	5,75	11,50	41,90	6,35	12,70	38,00	7,10	14,20	38,00	9,15	18,30	38,00
3,30	-	-	-	6,25	12,50	41,90	6,95	13,90	38,00	7,85	15,70	38,00	10,70	21,40	38,00
3,20	-	-	-	6,80	13,60	41,90	7,60	15,20	38,00	8,80	17,60	38,00	12,70	25,40	38,00
3,10	-	-	-	7,40	14,80	41,90	8,45	16,90	38,00	10,05	20,10	38,00	14,00	28,00	38,00
3,00	7,00	14,00	41,90	8,10	16,20	41,90	9,45	18,90	38,00	11,70	23,40	38,00	14,50	29,00	38,00
2,90	7,65	15,30	41,90	8,95	17,90	41,90	10,70	21,40	38,00	14,05	28,10	38,00	-	-	-
2,80	8,40	16,80	41,90	10,00	20,00	41,90	12,35	24,70	38,00	17,15	34,30	38,00	-	-	-
2,70	9,25	18,50	41,90	11,25	22,50	41,90	14,60	29,20	38,00	18,45	36,90	38,00	-	-	-
2,60	10,20	20,40	41,90	12,85	25,70	41,90	17,90	35,80	38,00	19,00	38,00	38,00	-	-	-
2,50	11,35	22,70	41,90	14,95	29,90	41,90	19,00	38,00	38,00	-	-	-	-	-	-
2,40	12,75	25,50	41,90	17,85	35,70	41,90	19,00	38,00	38,00	-	-	-	-	-	-
2,30	14,50	29,00	41,90	19,50	39,00	41,90	-	-	-	-	-	-	-	-	-
2,20	16,70	33,40	41,90	20,95	41,90	41,90	-	-	-	-	-	-	-	-	-
2,10	19,05	38,10	41,90	-	-	-	-	-	-	-	-	-	-	-	-
2,00	20,95	41,90	41,90	-	-	-	-	-	-	-	-	-	-	-	-
1,90	20,95	41,90	41,90	-	-	-	-	-	-	-	-	-	-	-	-
1,80	20,95	41,90	41,90	-	-	-	-	-	-	-	-	-	-	-	-

Dimensional table

N push-pull prop	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Inner tube thickness (mm)	Ø Outer tube (mm)	Outer tube thickness (mm)	Plates	Weight (Kg)
PTS 3000 N	3,05	1,8	48,3	3	60,3	2,5	Yes	15,95
PTS 3500 N	3,45	2,2	48,3	3	60,3	2,5	Yes	18,3
PTS 4000 N	4,05	2,4	48,3	3	60,3	2,5	Yes	20,9
PTS 4500 N	4,55	2,6	48,3	3	60,3	2,5	Yes	22,8
PTS 5000 N	5,05	2,9	48,3	3	60,3	2,5	Yes	25,15

H1



Distinctive features:

- » Pulling guaranteed at 38.00 kN
- » Inner pipe diameter 48 x 3.00 mm;
- » Outer pipe diameter 60 x 2.50 mm.

Loads table

Extension	PTS 3000 H1			PTS 3500 H1			PTS 4000 H1			PTS 4500 H1			PTS 5000 H1		
	Compression		Traction	Compression		Traction	Compression		Traction	Compression		Traction	Compression		Traction
(m)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)
5,00	-	-	-	-	-	-	-	-	-	-	-	-	2,60	5,20	38,00
4,90	-	-	-	-	-	-	-	-	-	-	-	-	2,75	5,50	38,00
4,80	-	-	-	-	-	-	-	-	-	-	-	-	2,90	5,80	38,00
4,70	-	-	-	-	-	-	-	-	-	-	-	-	3,10	6,20	38,00
4,60	-	-	-	-	-	-	-	-	-	-	-	-	3,25	6,50	38,00
4,50	-	-	-	-	-	-	-	-	-	3,20	6,40	38,00	3,55	7,10	38,00
4,40	-	-	-	-	-	-	-	-	-	3,35	6,70	38,00	3,85	7,70	38,00
4,30	-	-	-	-	-	-	-	-	-	3,60	7,20	38,00	4,05	8,10	38,00
4,20	-	-	-	-	-	-	-	-	-	3,80	7,60	38,00	4,20	8,40	38,00
4,10	-	-	-	-	-	-	-	-	-	4,05	8,10	38,00	4,55	9,10	38,00
4,00	-	-	-	-	-	-	4,05	8,10	38,00	4,35	8,70	38,00	4,90	9,80	38,00
3,90	-	-	-	-	-	-	4,35	8,70	38,00	4,65	9,30	38,00	5,30	10,60	38,00
3,80	-	-	-	-	-	-	4,65	9,30	38,00	5,05	10,10	38,00	5,80	11,60	38,00
3,70	-	-	-	-	-	-	5,00	10,00	38,00	5,45	10,90	38,00	6,40	12,80	38,00
3,60	-	-	-	-	-	-	5,40	10,80	38,00	5,90	11,80	38,00	7,10	14,20	38,00
3,50	-	-	-	-	-	-	5,85	11,70	38,00	6,45	12,90	38,00	8,00	16,00	38,00
3,40	-	-	-	5,75	11,50	41,90	6,35	12,70	38,00	7,10	14,20	38,00	9,15	18,30	38,00
3,30	-	-	-	6,25	12,50	41,90	6,95	13,90	38,00	7,85	15,70	38,00	10,70	21,40	38,00
3,20	-	-	-	6,80	13,60	41,90	7,60	15,20	38,00	8,80	17,60	38,00	12,70	25,40	38,00
3,10	-	-	-	7,40	14,80	41,90	8,45	16,90	38,00	10,05	20,10	38,00	14,00	28,00	38,00
3,00	7,00	14,00	41,90	8,10	16,20	41,90	9,45	18,90	38,00	11,70	23,40	38,00	14,50	29,00	38,00
2,90	7,65	15,30	41,90	8,95	17,90	41,90	10,70	21,40	38,00	14,05	28,10	38,00	-	-	-
2,80	8,40	16,80	41,90	10,00	20,00	41,90	12,35	24,70	38,00	17,15	34,30	38,00	-	-	-
2,70	9,25	18,50	41,90	11,25	22,50	41,90	14,60	29,20	38,00	18,45	36,90	38,00	-	-	-
2,60	10,20	20,40	41,90	12,85	25,70	41,90	17,90	35,80	38,00	19,00	38,00	38,00	-	-	-
2,50	11,35	22,70	41,90	14,95	29,90	41,90	19,00	38,00	38,00	-	-	-	-	-	-
2,40	12,75	25,50	41,90	17,85	35,70	41,90	19,00	38,00	38,00	-	-	-	-	-	-
2,30	14,50	29,00	41,90	19,50	39,00	41,90	-	-	-	-	-	-	-	-	-
2,20	16,70	33,40	41,90	20,95	41,90	41,90	-	-	-	-	-	-	-	-	-
2,10	19,05	38,10	41,90	-	-	-	-	-	-	-	-	-	-	-	-
2,00	20,95	41,90	41,90	-	-	-	-	-	-	-	-	-	-	-	-
1,90	20,95	41,90	41,90	-	-	-	-	-	-	-	-	-	-	-	-
1,80	20,95	41,90	41,90	-	-	-	-	-	-	-	-	-	-	-	-

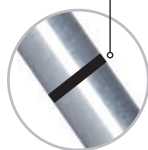
Dimensional table

H1 push-pull prop	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Inner tube thickness (mm)	Ø Outer tube (mm)	Outer tube thickness (mm)	Plates	Weight (Kg)
PTS 3000 H1	3,05	1,8	48,3	3	60,3	2,5	Yes	16,5
PTS 3500 H1	3,45	2,2	48,3	3	60,3	2,5	Yes	18,95
PTS 4000 H1	4,05	2,4	48,3	3	60,3	2,5	Yes	21,55
PTS 4500 H1	4,55	2,6	48,3	3	60,3	2,5	Yes	23,45
PTS 5000 H1	5,05	2,9	48,3	3	60,3	2,5	Yes	25,8

H2



Ø 76 mm



Distinctive features:

- » Pulling guaranteed at 38.00/41.90 kN
- » Inner pipe diameter 63x 2.60 mm;
- » Outer pipe diameter 76 x 2.60 mm.

Loads table

Extension	PTS 3000 H2			PTS 4000 H2			PTS 5400 H2		
	Compression		Traction	Compression		Traction	Compression		Traction
(m)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)	Ph (kN)	Pa (kN)	Pz (kN)
5,40	-	-	-	-	-	-	4,05	8,10	38,00
5,30	-	-	-	-	-	-	4,35	8,70	38,00
5,20	-	-	-	-	-	-	4,65	9,30	38,00
5,10	-	-	-	-	-	-	5,00	10,00	38,00
5,00	-	-	-	-	-	-	5,40	10,80	38,00
4,90	-	-	-	-	-	-	5,85	11,70	38,00
4,80	-	-	-	-	-	-	6,35	12,70	38,00
4,70	-	-	-	-	-	-	6,95	13,90	38,00
4,60	-	-	-	-	-	-	7,60	15,20	38,00
4,50	-	-	-	-	-	-	8,45	16,90	38,00
4,40	-	-	-	-	-	-	9,45	18,90	38,00
4,30	-	-	-	-	-	-	10,70	21,40	38,00
4,20	-	-	-	-	-	-	12,35	24,70	38,00
4,10	-	-	-	-	-	-	14,60	29,20	38,00
4,00	-	-	-	5,75	11,50	41,90	17,90	35,80	38,00
3,90	-	-	-	6,25	12,50	41,90	19,00	38,00	38,00
3,80	-	-	-	6,80	13,60	41,90	19,00	38,00	38,00
3,70	-	-	-	7,40	14,80	41,90	-	-	-
3,60	-	-	-	8,10	16,20	41,90	-	-	-
3,50	-	-	-	8,95	17,90	41,90	-	-	-
3,40	-	-	-	10,00	20,00	41,90	-	-	-
3,30	-	-	-	11,25	22,50	41,90	-	-	-
3,20	-	-	-	12,85	25,70	41,90	-	-	-
3,10	-	-	-	14,95	29,90	41,90	-	-	-
3,00	7,00	14,00	41,90	17,85	35,70	41,90	-	-	-
2,90	7,65	15,30	41,90	19,50	39,00	41,90	-	-	-
2,80	8,40	16,80	41,90	20,95	41,90	41,90	-	-	-
2,70	9,25	18,50	41,90	20,95	41,90	41,90	-	-	-
2,60	10,20	20,40	41,90	20,95	41,90	41,90	-	-	-
2,50	11,35	22,70	41,90	20,95	41,90	41,90	-	-	-
2,40	12,75	25,50	41,90	20,95	41,90	41,90	-	-	-
2,30	14,50	29,00	41,90	20,95	41,90	41,90	-	-	-
2,20	16,70	33,40	41,90	-	-	-	-	-	-
2,10	19,05	38,10	41,90	-	-	-	-	-	-
2,00	20,95	41,90	41,90	-	-	-	-	-	-
1,90	20,95	41,90	41,90	-	-	-	-	-	-
1,80	20,95	41,90	41,90	-	-	-	-	-	-

Dimensional table

H2 push-pull prop	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Inner tube thickness (mm)	Ø Outer tube (mm)	Outer tube thickness (mm)	Plates	Weight (Kg)
PTS 3000 H2	3,05	1,75	63,5	2,6	76,1	2,6	No	18,35
PTS 4000 H2	4,05	2,3	63,5	2,6	76,1	2,6	No	22,55
PTS 5400 H2	5,45	3,1	63,5	2,6	76,1	2,6	No	30,3

Comparative table

	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Inner tube thickness (mm)	Ø Outer tube (mm)	Outer tube thickness (mm)	Plates	Weight (Kg)
PTS 3000 L1	3,05	1,75	48,3	1,8	56	1,65	Yes	9,4
PTS 3500 L1	3,55	2,05	48,3	1,8	56	1,65	Yes	10,5
PTS 4000 L1	4,05	2,35	48,3	1,8	56	1,65	Yes	11,5
PTS 4500 L1	4,55	2,55	48,3	1,8	56	1,65	Yes	12,6
PTS 5000 L1	5,05	2,85	48,3	1,8	56	1,65	Yes	13,8
PTS 3000 L2	3,05	1,75	48,3	3	57	2,5	Yes	13,4
PTS 3500 L2	3,55	2,05	48,3	3	57	2,5	Yes	15,1
PTS 4000 L2	4,05	2,35	48,3	3	57	2,5	Yes	16,6
PTS 4500 L2	4,55	2,55	48,3	3	57	2,5	Yes	18,3
PTS 5000 L2	5,05	2,85	48,3	3	57	2,5	Yes	20,2
PTS 3000 N	3,05	1,8	48,3	3	60,3	2,5	Yes	15,95
PTS 3500 N	3,45	2,2	48,3	3	60,3	2,5	Yes	18,3
PTS 4000 N	4,05	2,4	48,3	3	60,3	2,5	Yes	20,9
PTS 4500 N	4,55	2,6	48,3	3	60,3	2,5	Yes	22,8
PTS 5000 N	5,05	2,9	48,3	3	60,3	2,5	Yes	25,15
PTS 3000 H1	3,05	1,8	48,3	3	60,3	2,5	Yes	16,5
PTS 3500 H1	3,45	2,2	48,3	3	60,3	2,5	Yes	18,95
PTS 4000 H1	4,05	2,4	48,3	3	60,3	2,5	Yes	21,55
PTS 4500 H1	4,55	2,6	48,3	3	60,3	2,5	Yes	23,45
PTS 5000 H1	5,05	2,9	48,3	3	60,3	2,5	Yes	25,8
PTS 3000 H2	3,05	1,75	63,5	2,6	76,1	2,6	No	18,35
PTS 4000 H2	4,05	2,3	63,5	2,6	76,1	2,6	No	22,55
PTS 5400 H2	5,45	3,1	63,5	2,6	76,1	2,6	No	30,3





Aluminium props.



UNI EN 16031

As compared to steel props of the same extensions, though lighter, GBM aluminium post shores bear greater loads as propping systems.

They are particularly recommended because they are quick to assemble and easy to use. Furthermore, besides being safe and certified, they come with any accessory required for proper application and use.

Being square-shaped, they are easy to spot.

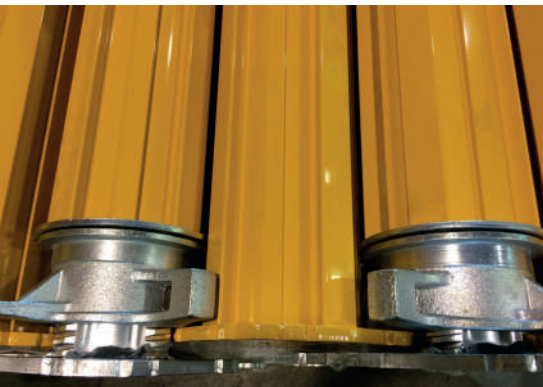
They can reach extensions varying between 145 and 625 cm.

They are compatible with most accessories of other formworks and slabs.





We - at GBM - manufacture 4 different models of aluminium props (ALU 250, ALU 350, ALU 480, ALU 625). They are classified according to maximum extension and capacity. Below are their technical features.



Loads table

Extension	ALU 250 (1,45-2,50m)		ALU 350 (1,95-3,50m)		ALU 480 (2,60-4,80m)		ALU 625 (4,30-6,25m)	
	Up	Down	Up	Down	Up	Down	Up	Down
(m)	(kN)							
6,25	-	-	-	-	-	-	20,40	22,10
6,20	-	-	-	-	-	-	20,90	22,80
6,00	-	-	-	-	-	-	23,10	25,40
5,80	-	-	-	-	-	-	25,50	28,60
5,60	-	-	-	-	-	-	28,40	31,60
5,40	-	-	-	-	-	-	31,90	34,50
5,20	-	-	-	-	-	-	36,10	37,30
5,00	-	-	-	-	-	-	43,80	41,20
4,80	-	-	-	-	25,60	27,10	46,40	42,10
4,70	-	-	-	-	27,40	29,30	48,80	43,00
4,50	-	-	-	-	31,10	33,70	53,10	44,60
4,30	-	-	-	-	34,80	38,20	56,20	44,60
4,10	-	-	-	-	38,50	43,70	-	-
3,90	-	-	-	-	42,30	50,20	-	-
3,70	-	-	-	-	46,00	58,60	-	-
3,50	-	-	42,90	45,10	50,20	64,50	-	-
3,30	-	-	49,80	55,40	54,80	67,90	-	-
3,10	-	-	52,90	64,60	63,00	69,40	-	-
2,90	-	-	55,70	71,90	71,80	70,40	-	-
2,70	-	-	59,30	77,80	81,20	71,10	-	-
2,50	60,00	63,60	64,40	83,50	-	-	-	-
2,30	61,10	70,50	72,30	86,60	-	-	-	-
2,10	63,80	74,60	83,00	87,40	-	-	-	-
1,95	67,00	76,20	88,30	87,40	-	-	-	-
1,90	68,60	76,20	-	-	-	-	-	-
1,70	73,30	76,20	-	-	-	-	-	-
1,50	73,30	76,20	-	-	-	-	-	-
1,45	73,30	76,20	-	-	-	-	-	-

Dimensional table

	Extension max. (m)	Extension min. (m)	Ø Inner tube (mm)	Ø Outer tube (mm)	Plates	Safe factor	Weight (Kg)
ALU 250	2,50	1,45	-	-	Yes	2,00	15,30
ALU 350	3,50	1,95	-	-	Yes	2,00	19,20
ALU 480	4,80	2,60	-	-	Yes	2,00	24,60
ALU 625	6,25	4,30	-	-	Yes	2,00	31,20



Shoring towers.

The “Shoring tower” (also referred to as “propping tower”, “shoring tower” or “scaffolding tower”) is a modular structure capable of reaching 12 metres high.

STS 100 is GBM standard Shoring tower model. This is GBM solution to problems faced by those working at the site off the ground. This solution simultaneously guarantees safety, quickness and ease of work as if done on the ground.

The Shoring tower is made up of frameworks and diagonals, assembled in a modular structure so as to reach the desired height between 2 and 12 metres, with intermediate heights every 0.50 m.

Using the STS 100 Shoring tower entails some major advantages when working at the site, including:

- » volumetric overall dimensions and lesser weight with respect to a fixed structure: the single components have low volume and packaging hence facilitating transportation to the worksite;
- » ease of planning: the small number of components enables obtaining a structure with wide range of variations, without requiring any planning step;
- » versatility to suit needs: starting from a basic ground structure measuring 1 x 1 m, one can set up the working plane at the desired height by varying the height of the adjustable base and fork;
- » ease of assembly and use: with just 5 different components, and due to the simple and safe mutual couplings, assembly is easy and quick at any height;
- » high loading capacity at any height with a 55.2 kn maximum capacity;
- » hot-dip galvanization makes the components robust and confers them a long useful life;
- » possibility to assemble directly in vertical position (with or without diagonals) directly ready for use, or in a position horizontal to the ground (with diagonals only) with vertical elevation to be carried out subsequently.

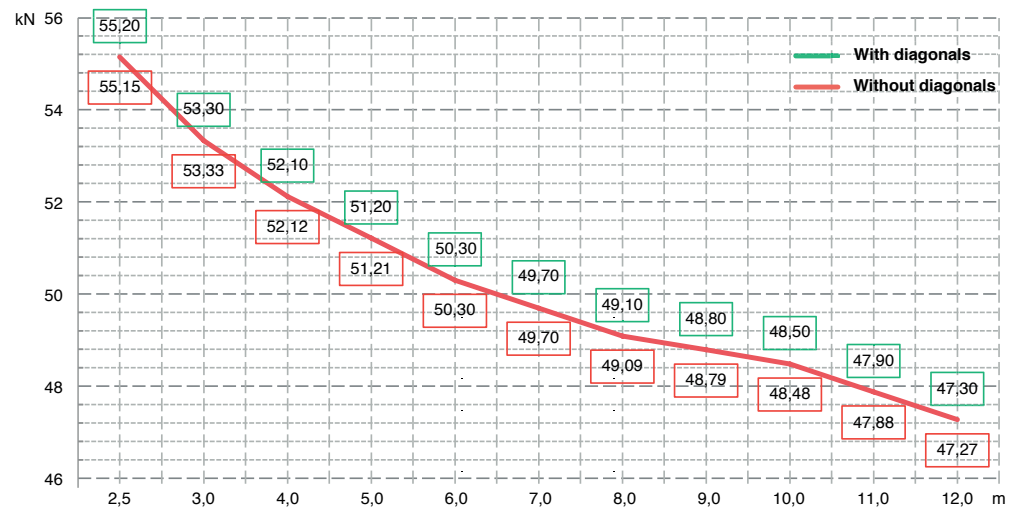


Loads Table

Height	With diagonals	Without diagonals
(m)	(kN)	
2,50	55,20	55,15
3,00	53,30	53,33
4,00	52,10	52,12
5,00	51,20	51,21
6,00	50,30	50,30
7,00	49,70	49,70
8,00	49,10	49,09
9,00	48,80	48,79
10,00	48,50	48,48
11,00	47,90	47,88
12,00	47,30	47,27

Dimensional table

Height (m)	Frame	Diagonals	Weight (Kg)
1,75 - 2,30	4	4	93,72
2,25 - 2,80	6	6	107,58
2,75 - 3,30	8	8	121,44
3,25 - 3,80	10	10	135,30
3,75 - 4,30	12	12	149,16
4,25 - 4,80	14	14	163,02
4,75 - 5,30	16	16	176,88
5,25 - 5,80	18	18	190,74
5,75 - 6,30	20	20	204,60
6,25 - 6,80	22	22	218,46
6,75 - 7,30	24	24	232,32
7,25 - 7,80	26	26	246,18
7,75 - 8,30	28	28	260,04
8,25 - 8,80	30	30	273,90
8,75 - 9,30	32	32	287,76
9,25 - 9,80	34	34	301,62
9,75 - 10,30	36	36	315,48
10,25 - 10,80	38	38	329,34
10,75 - 11,30	40	40	343,20
11,25 - 11,80	42	42	357,06
11,75 - 12,30	44	44	370,92



Useful for making work in any construction worksite easier and faster.

We manufacture accessories to make life at the worksite easier. Some of these operations enable making the positioning and stripping of the props for a slab easier.



Tripod stand for prop
for ø48-89mm weight 8,50kg

CODE
PU16



Single supporting head for H20 beam
weight 0,75kg

CODE
PU17



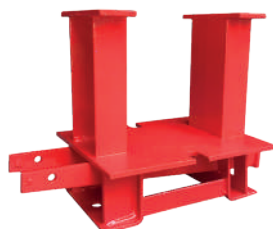
Four-way head for H20 beam
int. dimension 86x170mm
weight 2,40kg

CODE
PU18



Lowering head for H20 beam
int. dimension 86+86mm
h300mm weight 7,50kg

CODE
PU19



Lowering head for H20 beam
weight 13kg

CODE
PU20



Pin
length 155 mm ø 16 mm

CODE
AC10



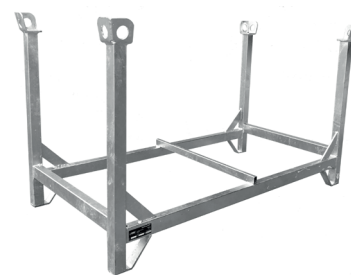
Paint coated container for props
850x1200mm h900 weight 25kg

CODE
CO01



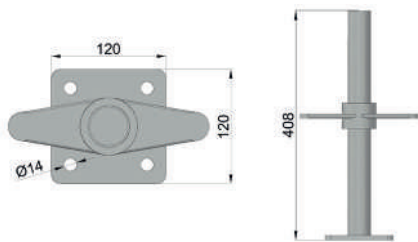
Galvanised container for props
800x1500mm h800mm
weight 40kg

CODE
CO08



Galvanised container for props
800x1500mm h800mm
weight 45kg

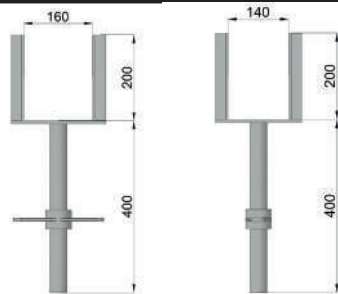
CODE
CO09



Jack base

Weight: 2,60 kg
For adjusting the height of the tower.

CODE
P004



Fork head

Weight: 5,50 kg
For positioning wooden beams (primary beams)

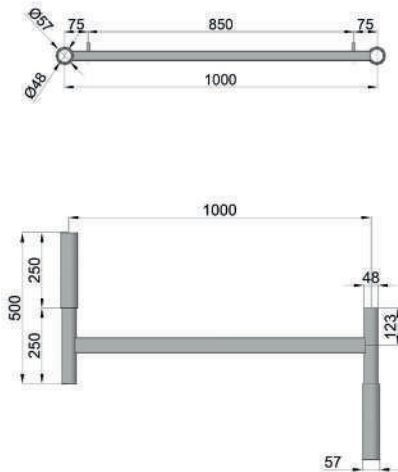
CODE
P006



Diagonal

Weight: 2,15 kg

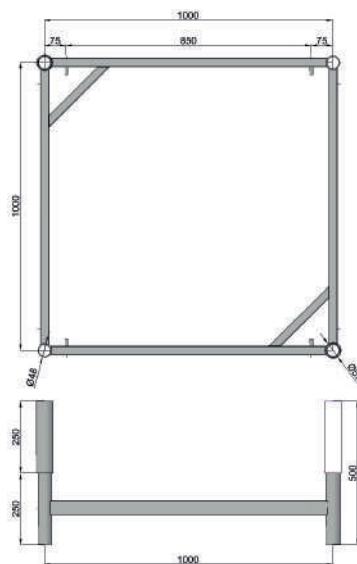
CODE
DIA100



Frame

Weight: 7,70 kg
Frames are assembled at alternate sides from the base frame to the top frame

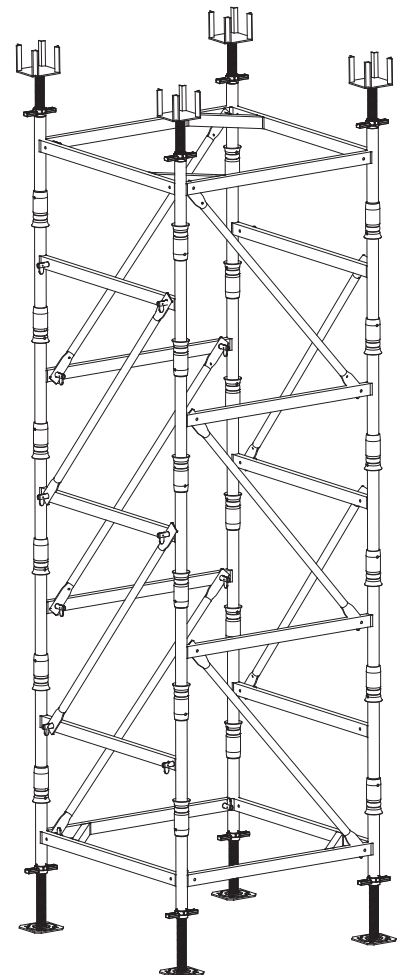
CODE
TEL100



Base frame and top frame

Weight: 18,0 kg
The base frame is assembled as both base and top frame.

CODE
BAS100





www.gbmitaly.com

G.B.M. Building Equipments S.r.l.

Via Alessandro Volta, 1 - 25024 Porzano Di Leno (Brescia) - Italy

Mail info@gbmitaly.com - Tel +39 030 9067005