MULTIPROP

Cost-effective for use both as a lightweight slab prop and shoring tower

Product Brochure – Issue 11/2017

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Important notes

Without exception, all relevant safety regulations and guidelines must be observed at all times in those countries where our products are used.

The photos shown in this brochure feature construction sites in progress. For this reason, safety and anchor details in particular cannot always be considered as conclusive or final. These are subject to the risk assessment carried out by the contractor.

In addition, computer graphics are used which are to be understood as system representations. For ensuring a better understanding, these and the detailed illustrations shown have been partially reduced to certain aspects. The safety installations which have possibly not been shown in these detailed descriptions must nevertheless be available. The systems or items shown might not be available in every country.

Safety instructions and load specifications are to be strictly observed at all times. Changes and deviations always require separate static proof.

The information contained herein is subject to technical changes in the interests of progress. Errors and typographical mistakes reserved.

PERI SKYDECK

MULTIPROP

Cost-effective for use both as a lightweight slab prop and shoring tower

MULTIPROP Post Shores are used as individual props and – in combination with MULTIPROP frames – as shoring towers or load towers under tables. Compared with tubular steel slab props, the aluminium MULTIPROP weighs 100 kN and carries significantly higher loads whilst, at the same time, has a very low dead weight. With different frame sizes, square or rectangular shoring towers can be optimally adapted to suit individual construction site conditions. The frames also serve as platform beams and side protection for working levels.

MULTIPROP Props are made of aluminium and are therefore extremely light. The low weight is a crucial factor in handling. With an extension length from 1.95 m to 3.50 m, the MP 350 covers 90% of standard operations in building construction. Weighing only 19.40 kg, the MP 350 can easily be set up and installed by one person, also when fully extended.

In addition, cleverly devised details such as the integrated measuring tape or the self-cleaning thread provide for quick and safe working operations.

The outer tubes of the MULTIPROP Slab Props are powder coated which makes the surfaces resistant to concrete adhesion. A long service life is ensured through the materials used as well as the design.

High load-bearing capacity
Fewer individual props per m² through permissible leg loads of up to 100 kN (according to type test)

Well thought-out details
With self-cleaning thread, trendsetting Adjusting Nut and continuous adjustability

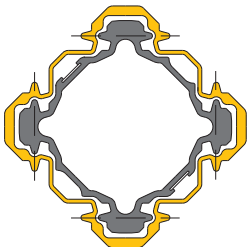
Time-saving length adjustment
The integrated measuring tape on the inner tube shows the complete length of the prop

Practical wedge connection
Multifunctional MRK Frame without any time-consuming bolted connections

High load-bearing capacity

Fewer individual props per m² through high leg loads

In drop tests on a transversely positioned steel tube, an extended MULTIPROP Prop remains completely undamaged – in contrast to, e.g. tubular steel props.

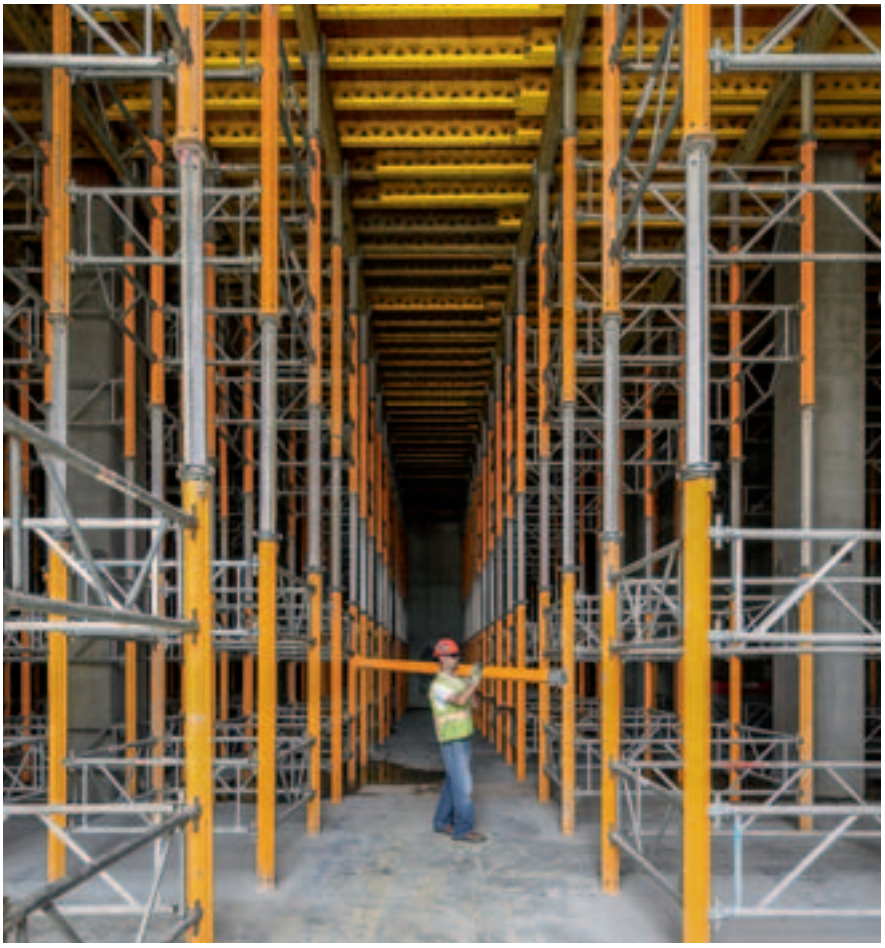


Corresponding axes in the profiles allow the frame to be connected to both the inner and outer tubes while maintaining the same prop grid arrangement.

MULTIPROP is lightweight and, at the same time, has a very high load-bearing capacity. The props carry leg loads up to 100 kN (according to type test).

The design of the MULTIPROP prop serves as an example for optimized material utilization. The carefully thought-out form provides the MULTIPROP prop with a high loading-bearing capacity and offers the best connection possibilities for accessories. In addition, the cleverly devised aluminium alloy profile elastically absorbs all impacts. As a result, the profile remains undamaged even if the prop, for example, falls over.

	Length	Weight	Max. load-bearing capacity
MP 120	0.80 m – 1.20 m	10.20 kg	up to 102.0 kN
MP 250	1.45 m – 2.50 m	15.40 kg	up to 99.3 kN
MP 350	1.95 m – 3.50 m	19.40 kg	up to 96.0 kN
MP 480	2.60 m – 4.80 m	24.80 kg	up to 94.0 kN
MP 625	4.30 m – 6.25 m	34.60 kg	up to 57.9 kN



Reducing the number of props is an essential step in order to minimize the cost values for the forming of slabs. MULTIPROP Props make a significant contribution with their high load-bearing capacities.

Furthermore, fewer slab props also ensure more free movement under the slab formwork. This facilitates in particular the transverse transportation of materials.

As an individual prop, the MULTIPROP post shore braced with the MULTIPROP Frames MRK carries a load of up to 100 kN per leg. Thus, MULTIPROP is also ideal for the re-shoring of slabs.

When used with SKYDECK Slab Formwork – shown here after a successful early striking – only 1 MULTIPROP Prop per 3.45 m² of slab area is required for a slab thickness up to 43 cm.

Particularly during refurbishment projects or modification work, MULTIPROP Slab Props allow working without a crane. They are easily transported and positioned by hand.

Well thought-out details

Self-cleaning thread and continuous adjustability

Cleverly developed detailed solutions for a very long service life. The continuous multiple thread of the MULTIPROP is self-cleaning and the free running collar does not jam even when the thread is dirty.

The free running collar makes adjustments very simple. One turn of the free running collar equals an adjustment distance of 36 mm – and thus 3 times more than for conventional slab props. The prop itself can still be continuously re-adjusted by means of the adjusting nut even when partially loaded up to 15 kN.

The design of the impact cam on the adjusting nut provides the direction, which is hit using a hammer in order to release the load.

Also when using the prop with the inner tube positioned below, the impact direction for releasing the adjusting nut is clearly visible.

With the Wing Nut Spanner HD, loads over 60 kN can also be reliably spindled load-free.

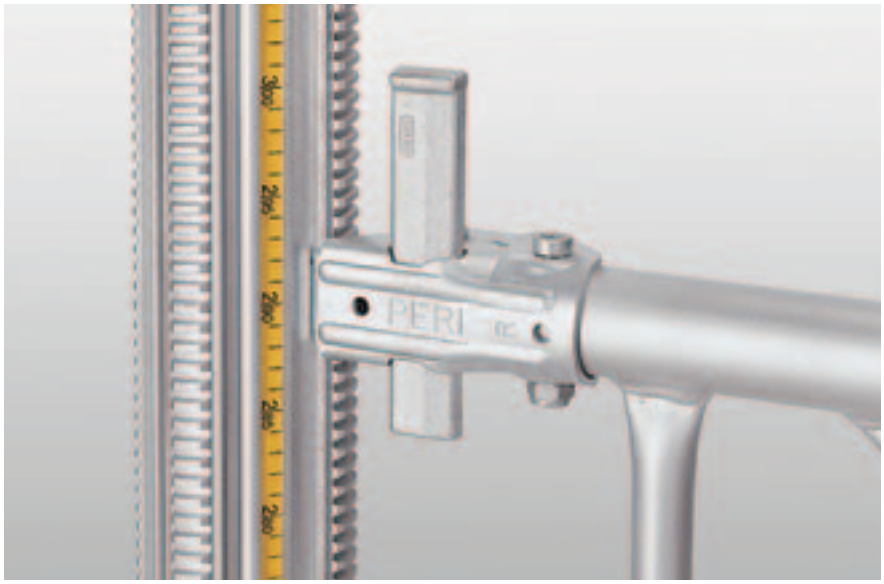
A self-cleaning thread and ECC powder coating make the MULTIPROP resistant to concrete adhesion.

Time-saving length adjustment

With an integrated measuring tape on the inner tube

Labour costs are a decisive factor for the economic success regarding the execution of the construction work. MULTIPROP supports fast working operations – among other things through exact height adjustments with very little time and effort.

The integrated measuring tape on the inner tube of the MULTIPROP Prop allows precise and fast pre-adjustment of the prop without any time-consuming measuring and unnecessarily long re-adjustment procedure. This solution is self-explanatory and requires no tools.



Safety at work
Every MULTIPROP Prop can be continuously adjusted both quickly and safely, i.e. without re-inserting any pins. An integrated stopper prevents the inner tube from being accidentally pulled beyond the maximum system length.

Reducing costs and ensuring safety go hand in hand
The principle of the free-running collar has been compared with the pin system of conventional props in work studies.

Result:
On average the MULTIPROP 350 can be adjusted 25% faster than the pin system. The large adjustment range of 36 mm per turn increases this effect even further.

Practical wedge connection

Multifunctional MRK Frame without any time-consuming bolted connections

For the erection of a shoring tower MULTIPROP Frames are connected to the MULTIPROP Props by means of the captive Wedge Coupler. The attachment of the MRK Frame is possible on both the outer as well as inner tube without having any effect on the ground plan.

The profile of the MULTIPROP facilitates quick and easy connections of the MRK Frames. The wedge of the frame is easily secured in position with a hammer; special tools or even bolted connections are not required. MULTIPROP towers are pre-assembled preliminary flat on the ground.

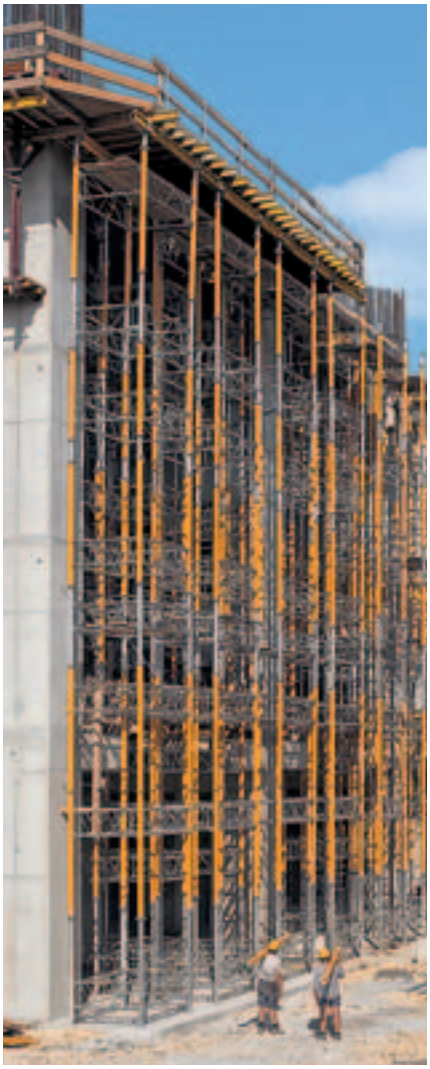
The high level of cost efficiency of the MULTIPROP Shoring Towers also results from the 12 different frame sizes. These facilitate optimum site-related ground plan adjustment with high utilization of the individual components.

Steel MRK Frame sizes
62.5 cm, 75 cm, 90 cm, 120 cm, 137.5 cm and 150 cm

Aluminium MRK Frame sizes
201.5 cm, 225 cm, 230 cm, 237 cm, 266 cm and 296 cm

MP Shoring Towers are type-tested up to heights of 14.40 m (14.90 m with Base MP 50). Topped-up props may only be used as towers with MRK Frames as bracing.

The complete tower can be erected and moved as a complete unit with one crane lift.



MULTIPROP Shoring Towers for scaffolding a 20 m high, cantilevered structural slab.

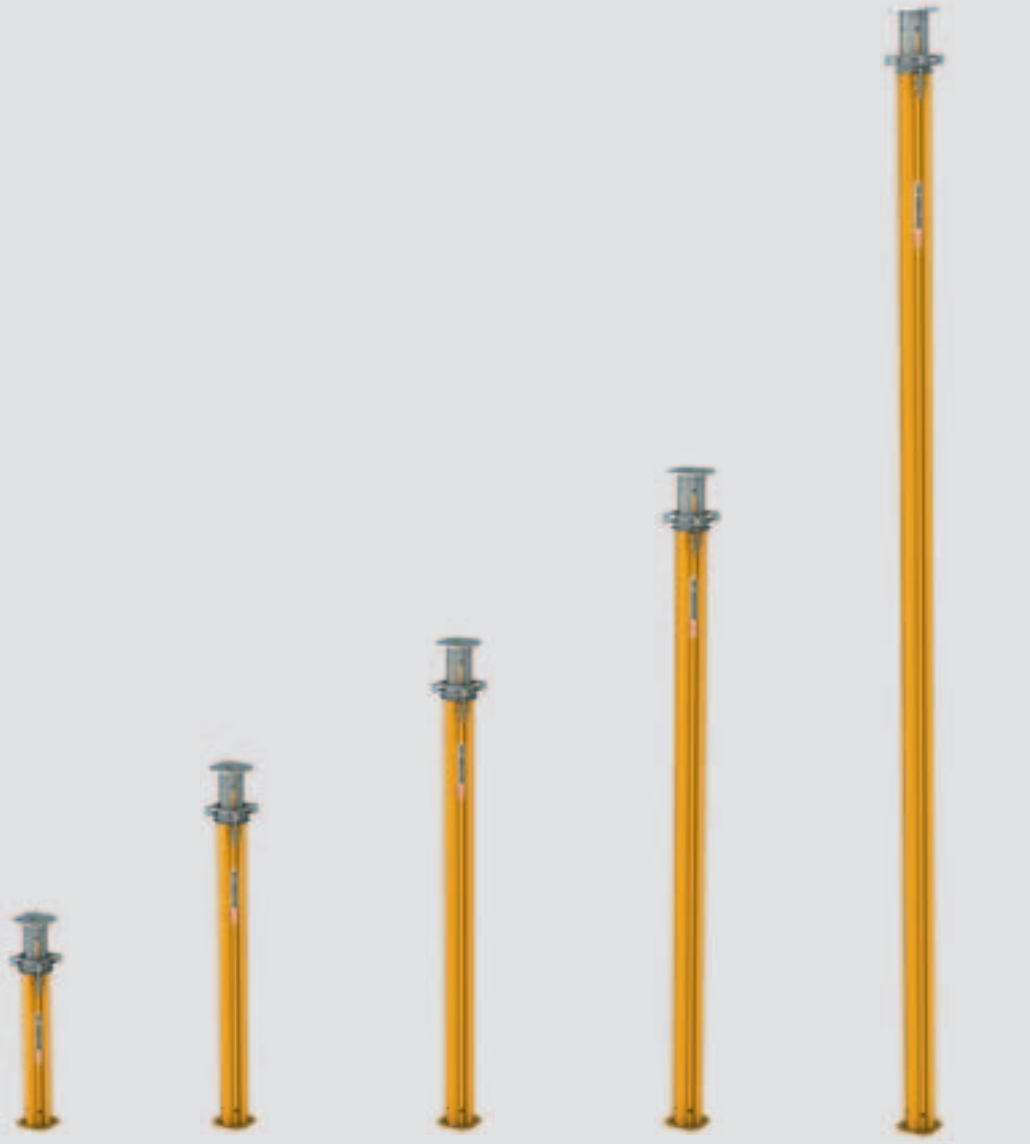
Especially with large slab heights, MULTIPROP Shoring Towers are a cost-effective alternative to standard spatial load-bearing scaffold.

MULTIPROP Shoring Towers as sub-structures for project-specific slab tables.

With VARIODECK Tables, the MULTIPROP Props are fixed in their designated perpendicular positions by means of MRK Frames.

MULTIPROP at a glance

MULTIPROP Props



MP 120
0.80 m – 1.20 m

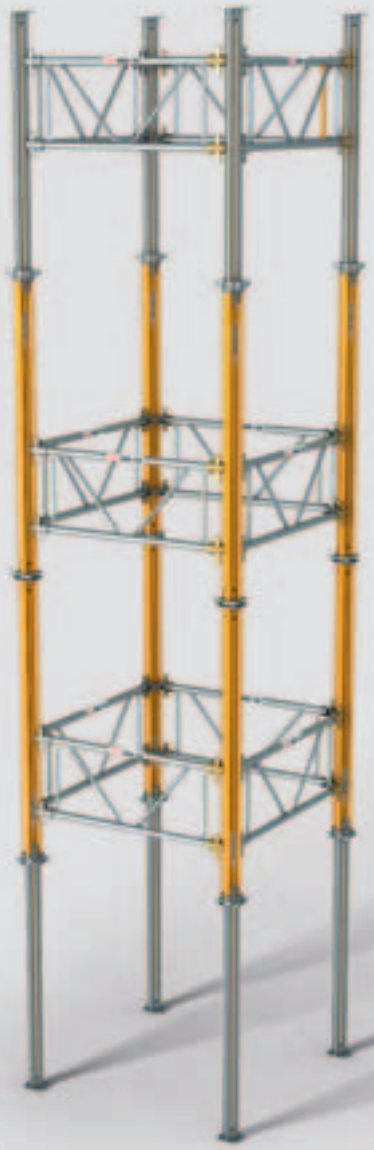
MP 250
1.45 m – 2.50 m

MP 350
1.95 m – 3.50 m

MP 480
2.60 m – 4.80 m

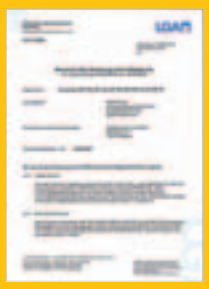
MP 625
4.30 m – 6.25 m

MULTIPROP Shoring Tower



Type-tested assembly as shoring towers with Frames MRK up to heights of max. 14.40 m or 14.90 m with Base MP 50.

MULTIPROP Props MP 250, 350, 480 and 625 have general building approval from the German Institute of Building Technology in Berlin (Approval No. Z-8.312-824).



In the type test of the system, over 70 assembly variations have been tested and certified by the Bavarian State Trade Institute (LGA) regarding their stability.

MULTIPROP slab prop comply with the load requirements DIN EN 16031.

Fast and safe working with MULTIPROP

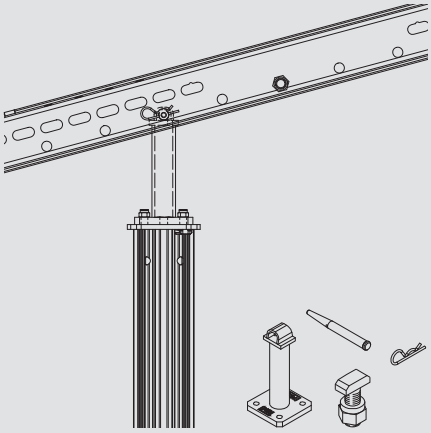
Universal Tripod

The Universal Tripod serves as a fast assembly aid and accommodates all props from Ø 48 mm to 120 mm.

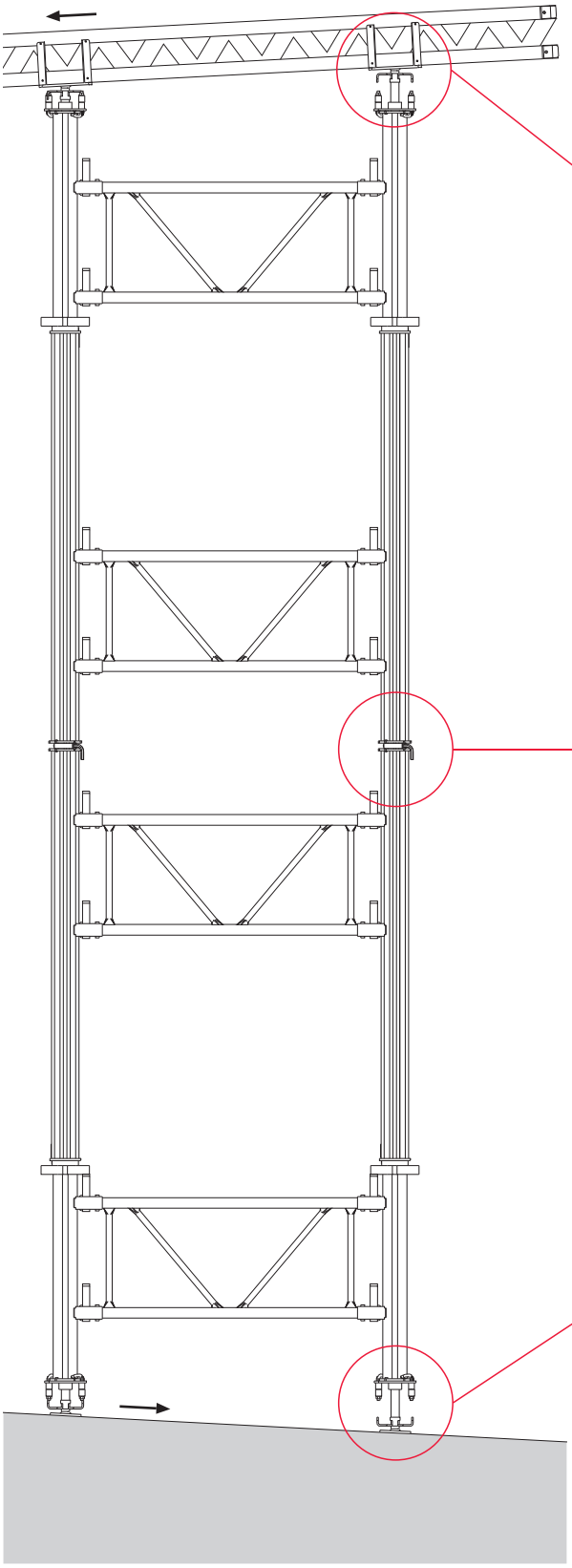
Base MP 50

Increases prop "range of application" by 50 cm. With the clamped quick-release fastener, the Base MP 50 is mounted on the 10 mm thick end plate of the inner or outer tube with a few blows of a hammer. As a result, replacing props with longer or shorter ones when floor heights vary is often no longer required.

Compression Brace Head MP/SRU



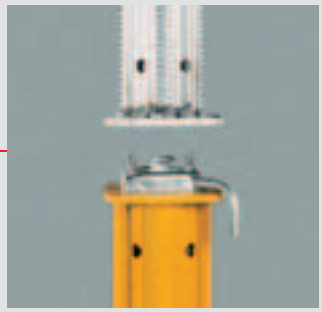
The Compression Brace Head MP/SRU is used for directly supporting SRU Main Beams. The connection of the prop and Brace Head by means of bolts and cotter pins allows any angle of inclination.



MULTIPROP Tilting Forkhead MKK

For stable support for single or twin GT 24 or VT 20 Girders. Tilting in any direction by 3°. For use in MULTIPROP Shoring Towers.

MULTIPROP Connector MPV-2



To connect 2 MULTIPROP post shores at either the outer or inner tube. For use in MULTIPROP Shoring Towers.

MULTIPROP Tilting Base MKF

For use on sloping support surfaces in connection with frames. Tilting in any direction by 3°. For use in MULTIPROP Shoring Towers.

Fast and safe working with MULTIPROP

MULTIPROP Beam MPB 24

MULTIPROP towers with aluminium MPB Beams as main beams and GT 24 as decking support. Tilting Forkheads provide secure, non-tilting support for the beams.

Static Values	
Permissible bearing load	80 kN
Permissible bending moment	15 kN
Permissible shear force*	50 kN
Bending stiffness EI_y	1600 kNm²

* for end support = permissible bearing load

With the high bearing load of 80 kN, the MPB 24 is the ideal primary beam for use with highly loaded MULTIPROP Shoring Towers. The large load-bearing capacity of MULTIPROP Props ensures a reduction in the required support.

The aluminium beam with lengths of 3.00 m, 4.20 m, 4.80 m, 5.40 m and 6.00 m can also be coupled together to form longer units by means of the MPB Connector.

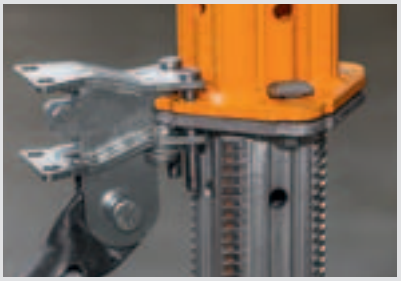
Self-Locking Coupling

Various prop heads of PERI slab formwork can be very quickly and safely connected to the props with the self-locking coupling – without any time-consuming screws, bolts or wedges.

All prop heads with self-locking couplings of the PERI slab formwork systems fit to the MULTIPROP Slab Props.

Push-Pull Prop Connection

Fast connection of push-pull props to the MULTIPROP towers for providing temporary assembly support using only locking pins and cotter pins – independent of the selected prop connections.



MULTIPROP Decking

Decking with lengths of 150 cm and 225 cm – with and without access hatches for ladders respectively – allow the installation of shoring with assembly levels and access by means of telescopic ladders.

The decks are designed for maximum loads of 200 kg/m². In the process, MRK Frames not only serve as decking support for MULTIPROP Decks but also as fall protection (intermediate guardrail and handrail).

Safer and faster transport

With the right PERI transport containers and pallets, logistical operations are safer and faster.

Transport of materials on construction sites and stockyards generates considerable costs. In addition, loading and unloading, moving as well as storing is not without risk for the employees.

PERI Pallets and Stacking Pallets are suitable for crane and forklift operations while clearly defined load-bearing points ensure safe transportation.

In one PERI Stacking Pallet RP 80 x 120, 25 MULTIPROP Props can be moved safely and quickly.

Through alternate positioning in the pallet, the props secure each other against slipping.

The securing hook prevents the inner tube from slipping out and must be properly engaged for correct transportation procedure.

The PERI post pallets are designed for the loading dimensions of a lorry. They can be lifted using the longitudinal as well as end sides.

For moving tables or towers, two transportation trolleys are positioned centrally on the narrow frame sides of the shoring, and lifted uniformly.

Project examples with MULTIPROP

Project examples with MULTIPROP

VARIOKIT and MULTIPROP system components formed the cost-effective basis for the form-shaping slab tables.

MULTIPROP Props carried the timber construction and facilitated the curved shape of the gridshell.

Inexpensive supporting structure consisting of MULTIPROP Props in combination with VARIOKIT system components.

Administration Building, Banco Ciudad de Buenos Aires, Argentina

The new administration building of the Banco Ciudad de Buenos Aires is dominated by a wave-shaped, 9,000 m² roof construction. The building complex bears the signature of the London-based architect Norman Foster.

A spatially designed PERI UP Flex Scaffold Construction along with MULTIFLEX Girder Slab Formwork formed horizontal working and support levels.

Using timber formers, the precisely-shaped formwork elements – on the basis of the VARIO system – were connected to a VARIOKIT raised formwork construction and MULTIPROP Shoring Towers to form large-sized movable table units.

Weald & Downland Museum, West Sussex, Great Britain

For the realization of the timber construction of this extraordinary roof support structure, the PERI scaffolding solution created optimal conditions for cost-effective and safe execution.

Over 200 MULTIPROP Props were used in a telescopic form in order to bring the "grid mat" – a network of timber profiles – into its final position and then secured in place. Due to the large adjustment range of the MULTIPROP Props, the multiple-curved shape of the gridshell was easily constructed. With PERI standard components, articulated connections on the obliquely positioned MULTIPROP Slab Props were realized.

Shipping and Service Centre Ganter, Furtwangen, Germany

The 2-storey hall extension – 65 m x 32 m and 12 m high – was a major challenge. As the ongoing daily operations in the existing buildings were not allowed to be affected by the construction and demolition work in any way.

For the required enclosure of the order-picking area, PERI planned a self-supporting enclosure with system components taken from the VARIOKIT Engineering Construction Kit.
The individual loads were carried by MULTIPROP Props. Wherever necessary, e.g. for supporting the pre-cast beams and slabs, the construction team used MULTIPROP Shoring Towers.

The RCS Rails of the RCS MP Landing Platform are clamped between two floor slabs by means of MULTIPROP Props.

MULTIPROP Props, used for large-sized SKYTABLE Slab Tables, facilitate faster cycles with a higher level of safety.

The PERI solution with MULTIPROP and MULTIFLEX, as well as for forming the circumferential balconies, served simultaneously as working scaffold.

Administration Building, Sparkasse Ulm, Germany

For the construction of the two new office buildings with a total of 9 floors respectively, jobsite logistics was a great challenge due to the tight, inner-city location. The use of VARIODECK Slab tables ensured rapid construction progress for the realization of the floor slabs. A closed, 2 m high side protection on the edge tables at the north side meant that a time-consuming and elaborate roofing construction for the directly adjacent underground car park was not necessary.

The RCS MP Landing Platform was used for moving and temporary storage of the slab tables and other materials. It can be positioned at any point on the building. The platform also provides anti-slip checkered plate decking and continuous side protection on the platform through LPS Side Mesh Barriers.

Centene Plaza, Clayton, Missouri, United States

For the construction of the 17-storey office tower in Clayton near St. Louis, 53 SKYTABLEs were used. By means of coupled truss girders, slab tables up to 24.40 m long were created. With a width of 6.10 m, approx. 150 m² could be formed with one table.

Load transfer took place via MULTIPROP Props which were mounted on the truss girders with quick lowering devices. By connecting the MULTIPROP Props with frames, the slab table was also used for larger floor heights.

Residental and Office Building at the North Railway Station, Vienna, Austria

On the site of the former Vienna North Railway Station, around 10,000 apartments and 20,000 workplaces were realized in several stages of construction. The urban design concept for two 8-storey residential buildings with a total of 91 housing units featured well-equipped facilities including balconies and loggias, constructed using in-situ reinforced concrete.

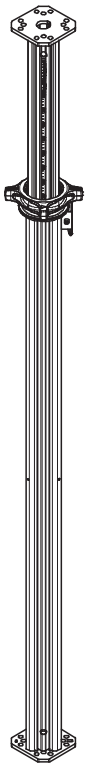
For forming the balconies, PERI engineers selected MULTIFLEX girder slab formwork supported by MULTIPROP shoring towers. As a result, the increased architectural concrete requirements could be met and, in coordination with the site management, the cantilevered slab formwork simultaneously served as circumferential working scaffold.

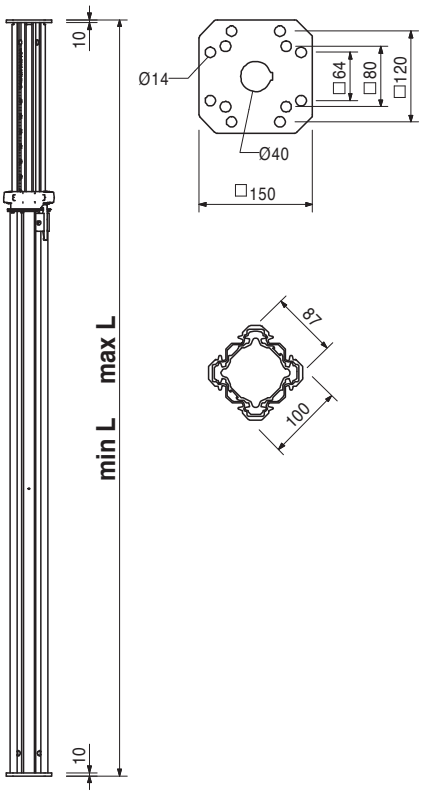
MULTIPROP Single Props and System

Item no.	Weight kg		min. L	max. L
		MULTIPROP MP		
027288	10.100	**MULTIPROP MP 120**	800	1200
027289	15.400	**MULTIPROP MP 250**	1450	2500
027290	19.400	**MULTIPROP MP 350**	1950	3500
027291	24.700	**MULTIPROP MP 480**	2600	4800
027305	34.500	**MULTIPROP MP 625**	4300	6250

Slab prop made of aluminium. Used as individual prop as well as in combination with MULTIPROP Frames MRK to form towers.

Technical Data
Permissible load: see PERI Design Tables.

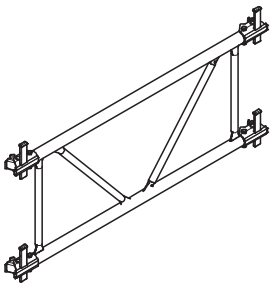


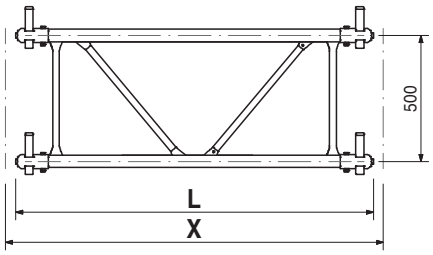


			L	X
		MULTIPROP Frames MRK, Steel		
028390	9.860	**Frame MRK 62.5**	545	625
028400	10.100	**Frame MRK 75**	670	750
028330	11.300	**Frame MRK 90**	820	900
028340	14.000	**Frame MRK 120**	1120	1200
028380	15.400	**Frame MRK 137.5**	1295	1375
028350	16.300	**Frame MRK 150**	1420	1500

Bracing frame for MULTIPROP. For connecting to outer and inner tube.
With captive wedge coupling.

Note
L = Loading Length
X = Axis Length





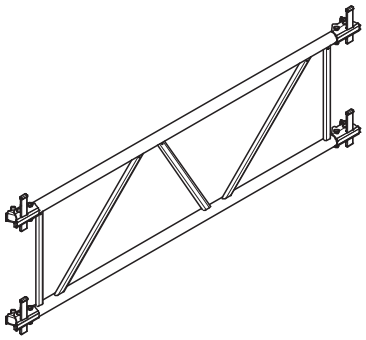
MULTIPROP Single Props and System

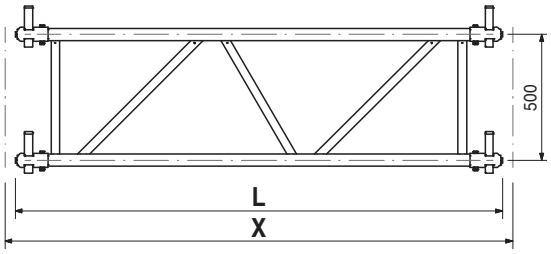
Item no.	Weight kg	MULTIPROP Frames MRK, Alu
028460	11.600	**Frame MRK 201.5**
028360	12.400	**Frame MRK 225**
028470	12.500	**Frame MRK 230**
028480	12.800	**Frame MRK 237**
028490	14.000	**Frame MRK 266**
028370	14.900	**Frame MRK 296**

Bracing frame for MULTIPROP. For connecting to outer and inner tube.
With captive wedge coupling.

L	X
1935	2015
2170	2250
2220	2300
2290	2370
2580	2660
2880	2960

Note
L = Loading Length
X = Axis Length

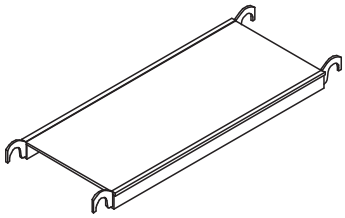


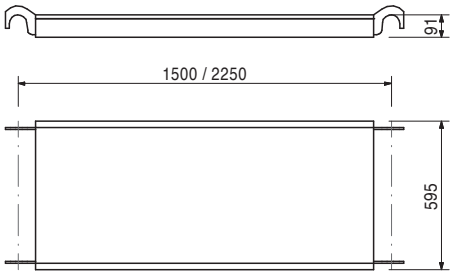


Item no.	Weight kg	MULTIPROP Platforms
107169	12.000	**MULTIPROP Platform 150 x 60**
107170	18.000	**MULTIPROP Platform 225 x 60**

For assembly of a working platform.

Technical Data
Permissible load up to 2.0 kN/m².

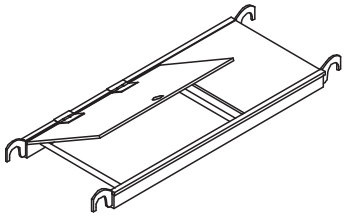


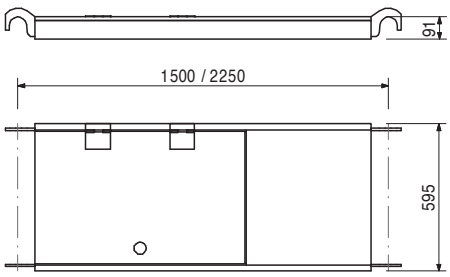


Item no.	Weight kg	MULTIPROP Platforms with Hatch
107171	12.500	**MULTIPROP Platform 150 x 60 with Hatch**
107172	18.500	**MULTIPROP Platform 225 x 60 with Hatch**

For assembly of a working platform. Self-locking hatch for access ladder.

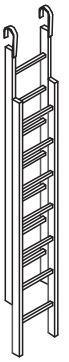
Technical Data
Permissible load up to 2.0 kN/m².



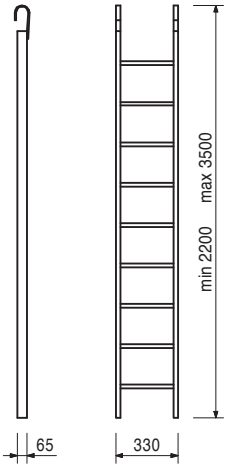


Item no.	Weight kg
107173	9.000

Ladder 220 x 350, telescopic
As access for MULTIPROP towers. Mounted to platform with hatch.

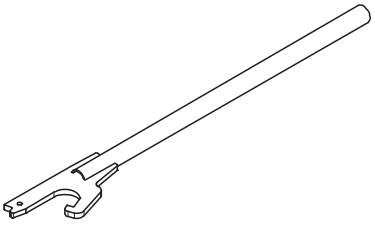


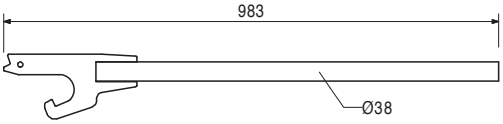
Technical Data
Extension length 2.20 – 3.50 m.



022027	3.600

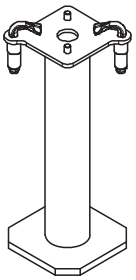
Wing Nut Spanner HD
For easy release of the Head Spindle HDK 45, the Head Spindle TR 110-80/55 and the MULTIPROP slab prop.



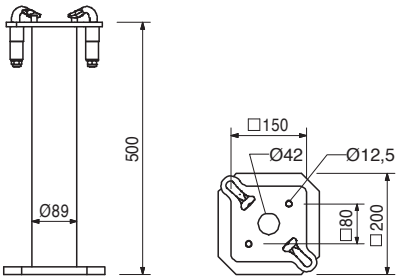


027310	8.900

Base MP 50
For use with slab props with an end plate thickness of 6 – 10 mm. With clamped quick-release fastener.



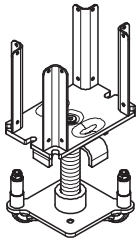
Note
Permissible load: see PERI Design Tables.

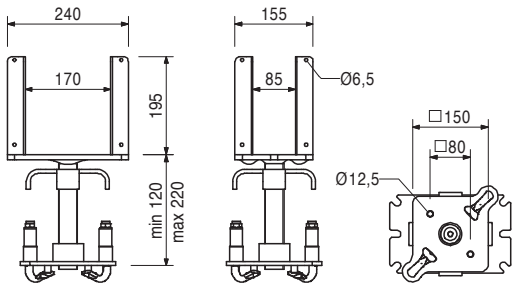


Item no.	Weight kg
027297	8.730

Tilting Forkhead MKK
For tilt-resistant support of one or two GT 24 or VT 20 Girders. Can be pivoted by 3° in all directions. With clamped quick-release fastener.

Technical Data
Separate design information on request.

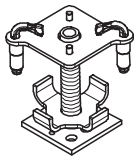


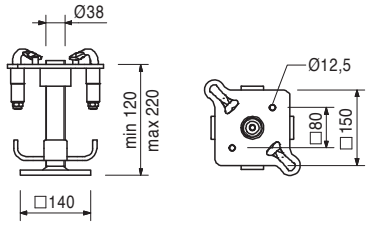


027296	6.220

Tilting Base MKF
For use on inclined assembly areas. Can be pivoted by 3° in all directions. With clamped quick-release fastener.

Technical Data
Maximum permissible load 60 kN.

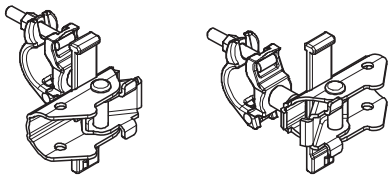


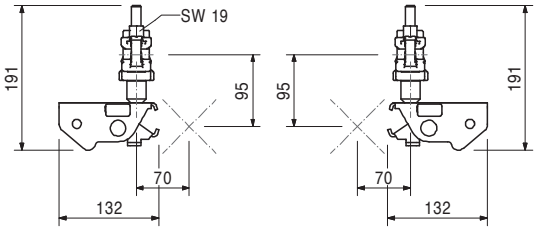


027298	2.200
027299	2.200

Scaffold Tube Couplers
Scaffold Tube Coupler MG-A/C
Scaffold Tube Coupler MG-B/D
For connecting Scaffold Tubes Ø 48 mm to the MULTIPROP MP Slab Props.

Note
Coupler not swivelling.

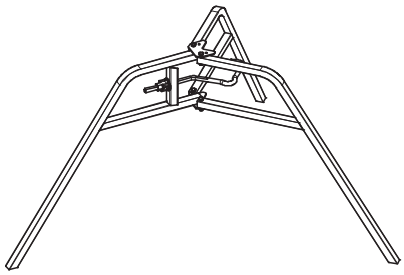


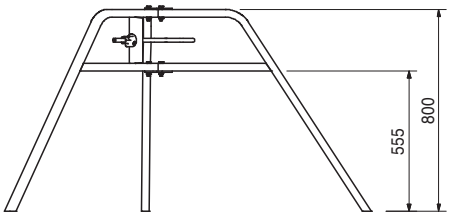


Item no.	Weight kg
028000	9.190

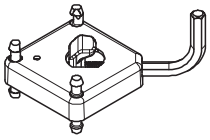
Universal Tripod, galv.
Erection aid for slab props with Ø 57 – 120 mm and 120 x 120 mm. Can also be used in combination with MULTIPROP MP Slab Props and all slab props with Base MP 50.

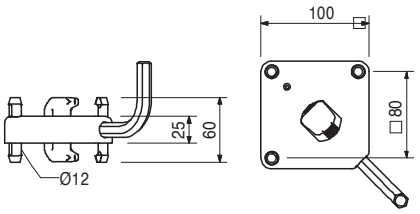
Note
Only use as erection aid!



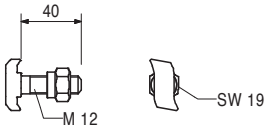


Item no.	Weight kg	
027301	1.030	**Connector MPV-2** For connecting 2 MULTIPROP Slab Props.

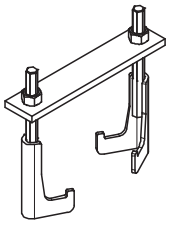


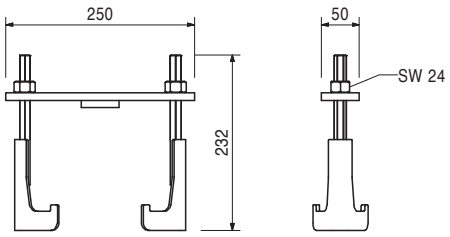


111142	0.082	**MULTIPROP Bolt with Nut** For connecting 2 MULTIPROP MP Slab Props, for connecting compression Brace Head MP/SRU and for the assembly of accessories on the Alu Beam MPB 24.

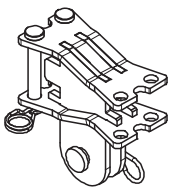


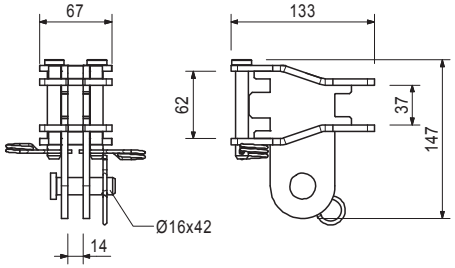
027302	2.100	**MULTIPROP Strap SRZ U100 – U140** For fixing Steel Walers SRZ and SRU, Profile U100 to U140 on MULTIPROP Slab Props.





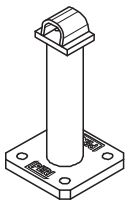
129565	1.680	**Brace Connector MPR** For connecting push-pull props to the MP-System. **Complete with** 1 pc. 027170 Pin Ø 16 x 42, galv. 1 pc. 018060 Cotter Pin 4/1, galv. 2 pc. 129560 Collar Pin Ø 12 2 pc. 127322 Cotter Pin 3, 2/2, galv.

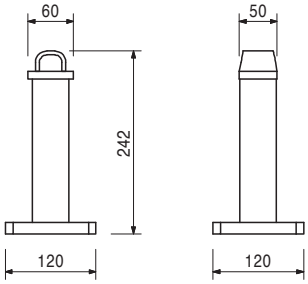




Item no.	Weight kg	
107161	3.050	**Compression Brace Head MP/SRU** As connecting element between MULTIPROP Slab Props and Steel Waler SRU/SRZ.

Note
Seperate design information on request.
Technical Data
Permissible load-bearing capacity 70 kN.

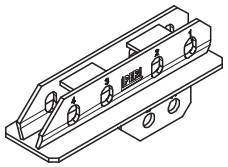


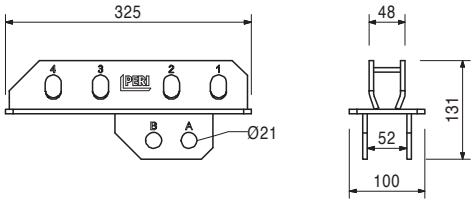


Accessories

104031	0.462	**Fitting Pin Ø 21 x 120**
018060	0.014	**Cotter Pin 4/1, galv.**
111142	0.082	**MULTIPROP Bolt with Nut**

107160	3.960	**Connector MP-SRU** As compensation element between the Prop Head MP/SRU and inclined positioned Steel Waler SRU.

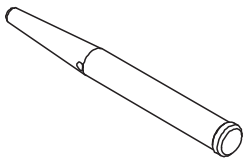


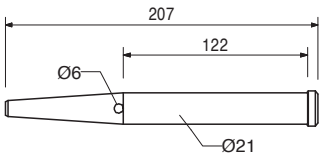


Accessories

104031	0.462	**Fitting Pin Ø 21 x 120**
018060	0.014	**Cotter Pin 4/1, galv.**

104031	0.462	**Fitting Pin Ø 21 x 120** For different connections.

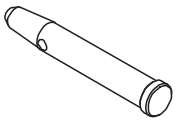


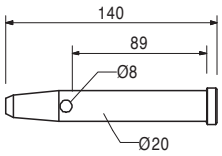


Accessories

018060	0.014	**Cotter Pin 4/1, galv.**

Item no.	Weight kg	
105400	0.330	**Pin Ø 20 x 140, galv.** For different connections.





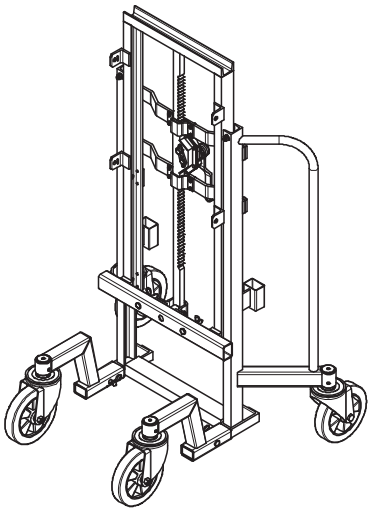
Accessories

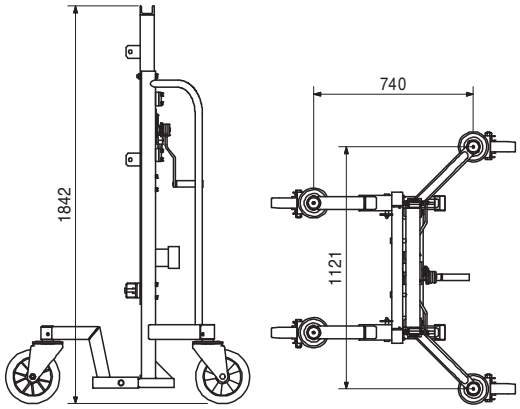
018060	0.014	**Cotter Pin 4/1, galv.**

018060	0.014	**Cotter Pin 4/1, galv.**

019200	162.000	**Trolley with Winch** For moving towers and tables with MULTIPROP, Flex, Flex Plus and PD 8 with appropriate support for the system.

Note
Follow Instructions for Use!
Technical Data
Permissible load-bearing capacity 1.0 t.

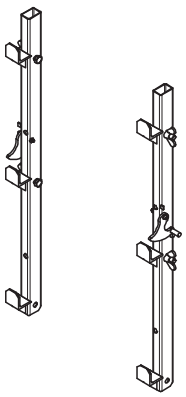


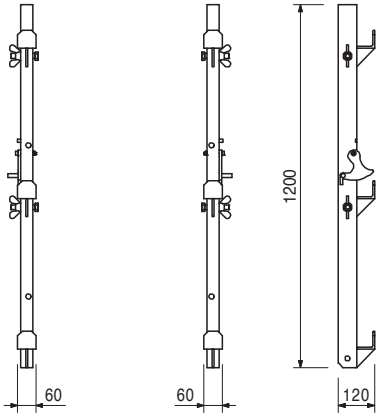


Accessories

118114	14.200	**Connector MP - Trolley**
118115	11.000	**Connector PD 8 - Trolley**
130501	27.600	**Connector PERI UP - Trolley**

Item no.	Weight kg		
118114	14.200	**Connector MP - Trolley** For moving MULTIPROP Towers with Trolley with Winch.	**Note** Consisting of 2 parts: Support left and right.

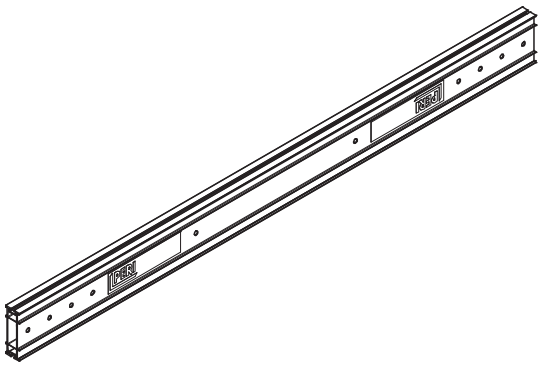


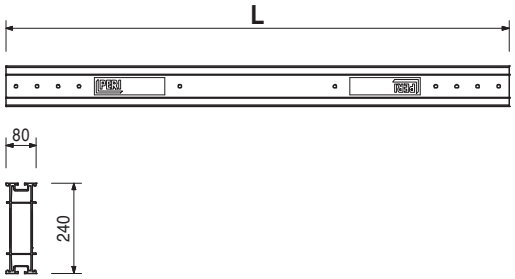


		Alu Beams MPB 24	**L**
079300	24.000	**Alu Beam MPB 24 l = 3.00 m**	2998
079360	28.800	**Alu Beam MPB 24 l = 3.60 m**	3598
079420	33.700	**Alu Beam MPB 24 l = 4.20 m**	4198
079480	38.500	**Alu Beam MPB 24 l = 4.80 m**	4798
079540	43.300	**Alu Beam MPB 24 l = 5.40 m**	5398
079600	48.100	**Alu Beam MPB 24 l = 6.00 m**	5998

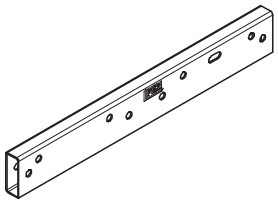
Aluminium main beam for the MULTIPROP System.

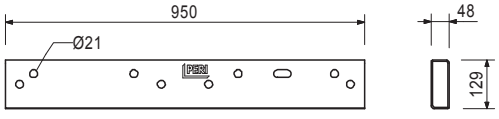
Technical Data
perm. Q = 50 kN
perm. A = 80 kN
perm. M = 15 kNm





107348	11.000	**Coupling MPB 24** For connecting the Alu Beam MPB 24.	**Note** Alternative: 104031 Fitting Pin Ø 21 x 120

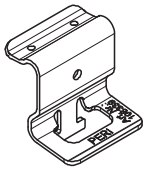


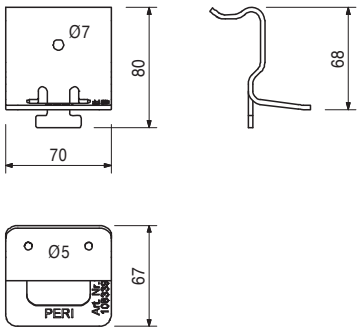


Accessories

105400	0.330	**Pin Ø 20 x 140, galv.**
018060	0.014	**Cotter Pin 4/1, galv.**

Item no.	Weight kg	
108339	0.203	**Quick Strap MPB 24/GT 24** For assembly of GT 24 Girders on the Alu Beam MPB 24.

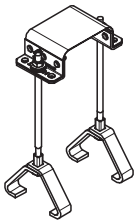


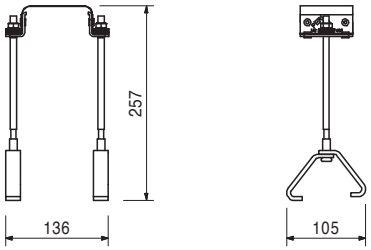


Accessories

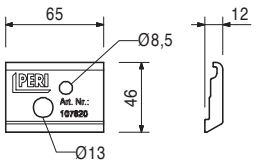
018280	1.000	**Double Head Nail, l = 65 mm**

111000	0.815	**Tension Strap MPB 24 / GT 24** For fixing of GT 24 Girders on the Alu Beam MPB 24.





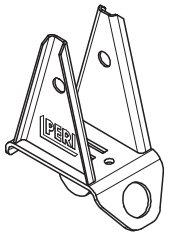
107820	0.057	**Strap MPB 24** For fixing Alu Beam MPB 24 to the MULTIPROP Prop or mounting the GT 24 Girders on the Alu Beam MPB 24.

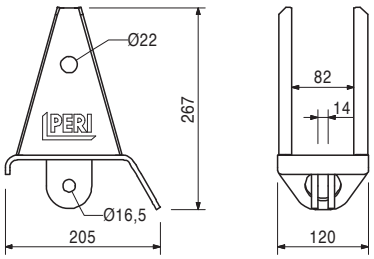


Accessories

111142	0.082	**MULTIPROP Bolt with Nut**

Item no.	Weight kg	
108213	2.590	**Brace Connector MPB 24** For connecting push-pull props or bracings to Aluminium Beam MPB 24.



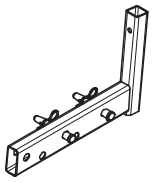


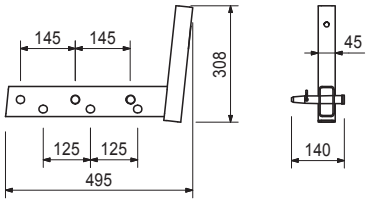
Accessories

104031	0.462	**Fitting Pin Ø 21 x 120**
018060	0.014	**Cotter Pin 4/1, galv.**

104131	3.940	**Guardrail Holder SRU/SRZ** For assembling a guardrail to the Steel Walers SRU and SRZ, Profile U100 to U140.

Complete with
2 pc. 105400 Pin Ø 20 x 140, galv.
2 pc. 018060 Cotter Pin 4/1, galv.

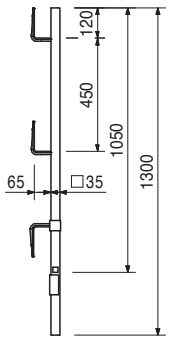




Accessories

116292	4.720	**Guardrail Post HSGP-2**
061260	6.150	**Guardrail Post SGP**

116292	4.720	**Guardrail Post HSGP-2** As guardrail for different systems.



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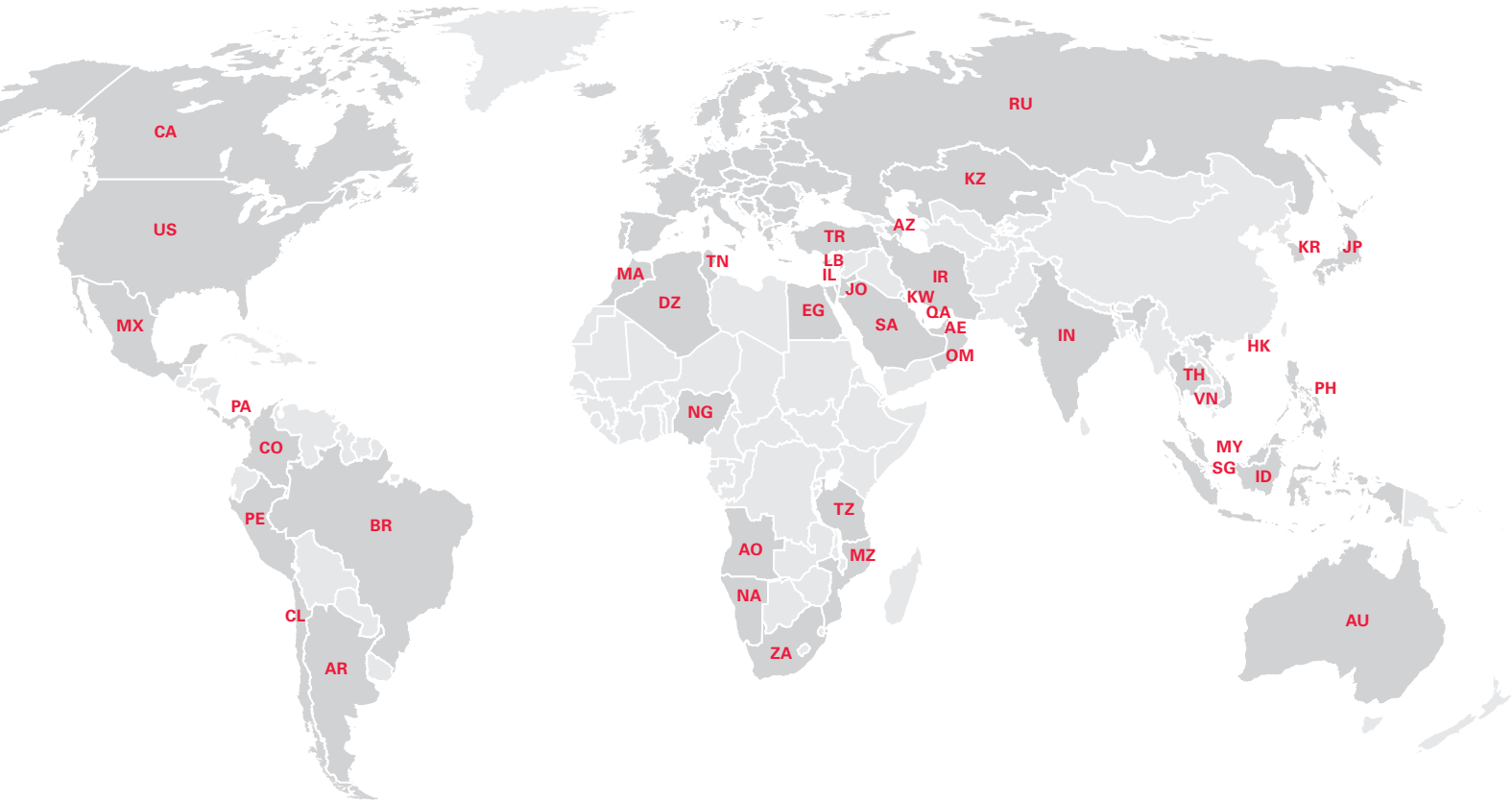

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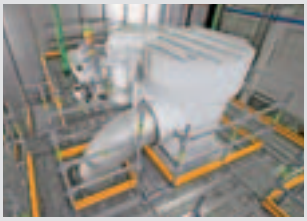

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