



Well-developed solutions for more flexibility

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Litebox aluminium trench edge

Litebox aluminium trench lining Litebox aluminium manhole shoring

Optional system components Timber wedge clamp wall TITAN 48/60/terra trench struts

Products by ISCHEBECK - Made in Germany

A family business for five generations, FRIEDR. ISCHEBECK GmbH can be counted amongst the leading manufacturers of formwork and trench shoring systems nationally and internationally. We develop and produce our products in Germany according to German and international standards. This brochure gives you a good insight into our versatile range of formwork and trench shoring products. Many products and systems are modular and can be combined with each

If you need more information, simply request the appropriate brochure. Or visit our website at www.ischebeck.com.

other - always focusing on a solution that's right for each

building site.

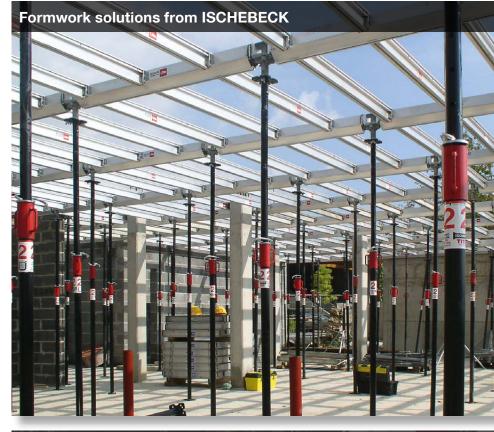
support

Litebox strut Gi-A



The **formwork solutions** from ISCHEBECK are compatible, and the materials used, e.g. steel, aluminium and plastics, ensure that that solutions are durable and economic. The low weight of the individual components improves safety, reduces fatigue and saves crane time. Whether single prop or complex falsework, all the products in the formwork range are versatile and tailored to the requirements of building sites.

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The ISCHEBECK trench lining systems in aluminium meets the requirements for fast progress on site, economic plant use and high safety levels. Litebox aluminium trench lining is the ideal system for trenches at inner-city locations. This modular aluminium system closes the gap between the frequently heavy and cumbersome steel systems and traditional trench timbering.

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Watch the video on lightweight aluminium trench lining



Watch the video on lightweight aluminium trench lining



Steel props

Whether you need steel props or aluminium system supports, the ISCHEBECK range of props and legs covers the whole spectrum of on-site needs – from simple one-storey slabs to more complex multi-storey slabs. Verified typical calculations are available for all our props and legs, which makes selection quick and simple – no need for time-consuming calculations.

Want to find out more? Simply request our "TITAN props" brochure.



Long-lasting and reliable

The established system in use for decades. ISCHEBECK steel props have been manufactured in the very best quality for more than 60 years. They guarantee full compliance with the stipulations of the current standard applicable, EN 1065 "Adjustable telescopic steel props".

Corrosion protection to EN 39 is achieved through a painted (S) or hot-dip galvanised (SZ) finish.

TITAN S

- Available in four lengths from 1.80 to 5.50 m
- Steel prop, painted or galvanized (only size 2 and 4)
- Protected internal thread
- National Technical Approval / Construction Technique Permit 7-8.311-998

TITAN E35

- Steel prop, galvanized
- ranges from 2.05 m to 3.50 m
- According to EN 1065
- National Technical Approval / Construction Technique Permit Z-8.311-1003



System props with large range of adjustment

With the extension option, form-work for 75% of all storey heights can generally be covered with just one prop size. It is no longer necessary to change props on site. Fitting legs together to form a 4-leg tower with separate ledger frames increases the load-carrying capacity and range of applications.

Applications:

- Slab formwork
- Temporary propping
- Support to edge beams
- Table forms

- Permissible load up to 96 kN
- Available in two lengths from 1.75 to 4.25 m
- Extendable
- Ledger frame connection option
- Heights up to 6.10 m as support tower
- Steel screw jack, aluminium outer tube
- National Technical Approval / Construction Technique Permit Z-8.312-938
- Large range of adjustment, i.e. it is no longer necessary to change props on site.
- Low weight

For towers too





System leg for great heights

The TITAN adjustable aluminium leg is the basic element of TITAN aluminium Megashore falsework. Legs can carry to 128 kN. Combined with aluminium ledger frames, it is possible to construct large falsework units (typical calculations cover falsework up to 24.60 m high). Applications:

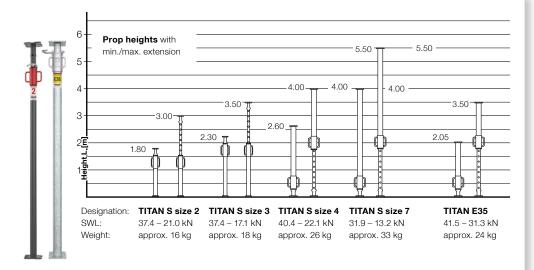
- Slab formwork
- Temporary propping
- Support to edge beams
- Table forms, edge tables

- Permissible load up to 128 kN
- Available in three lengths from 1.70 to 5.50 m
- Extendable
- Ledger frame connection option
- Heights up to 24.60 m as support tower
- Screw jack and outer tube completely in aluminium
- Construction Technique Permit Z-8.312-868

For falsework too

The right support for every job





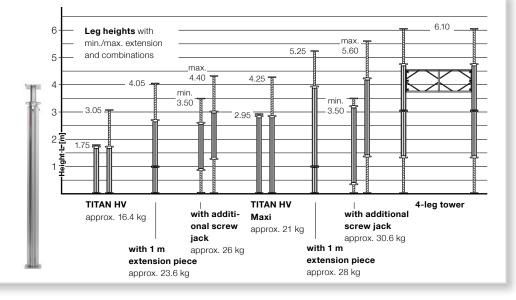


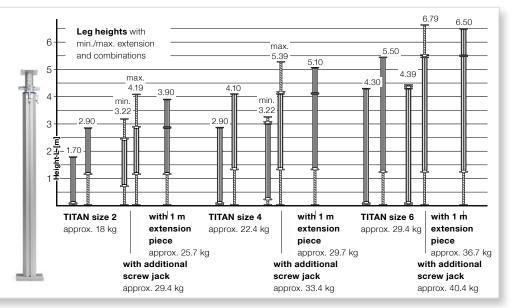
For refurbishment projects and work in existing buildings. Flexible height from 1.80 to 4.80 m.

- with hydraulic jack
- defined prestress of up to 250 kN
- can be monitored with pressure gauge

Consists of basic components of the TITAN aluminium Megashore system (TITAN aluminium screw jacks or aluminium extension piece with screw jack, support block, hydraulic jack).

Want to find out more? See our "TITAN SLS aluminium heavy-duty prop" leaflet.





Support tower or falsework, table form or mobile formwork?

The TITAN aluminium Megashore system can be used for many applications.

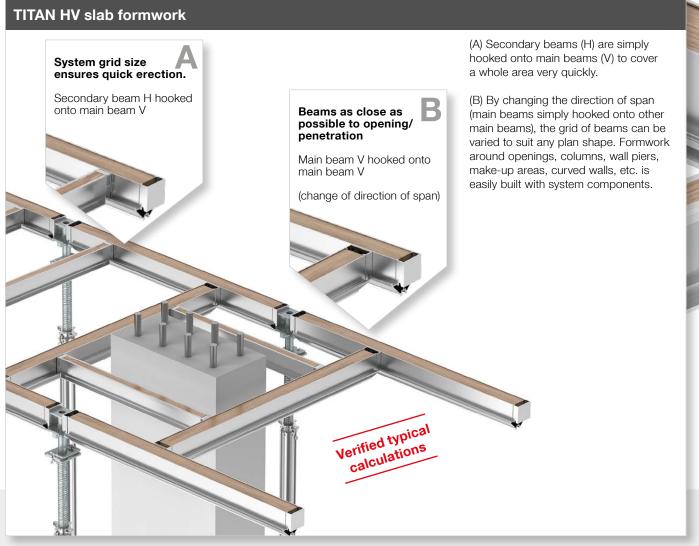
Want to find out more? Simply request our "TITAN aluminium Megashore system" brochure.



Slab formwork systems

In contrast to conventional flexible formwork systems, the TITAN HV system utilises main beams (V) and secondary beams (H) are fixed in the same plane. This is possible because there are support ledges on the main beams and drop-heads, and the incoming secondary beams are simply hooked onto these.

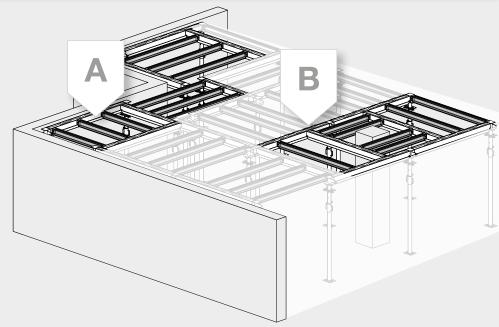
- The uneconomical overlapping of beams typical with conventional formwork – is absent from the TITAN HV system.
- The beams form an interlocking grid that is stable in itself even without any sheeting.
- The low number of components simplifies logistics and avoids unnecessary searches for parts on the building site





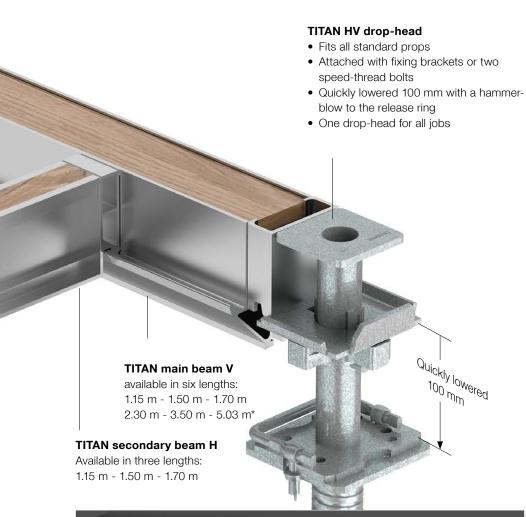
Main beam V and secondary beam H

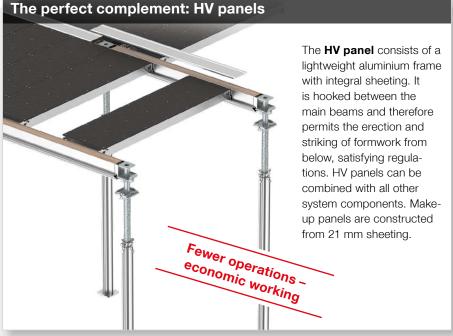
All beams have an integral nailing batten and multi-purpose slot. Colour coding eases assembly.





Want to find out more? Simply request our "TITAN HV slab forming system" brochure.

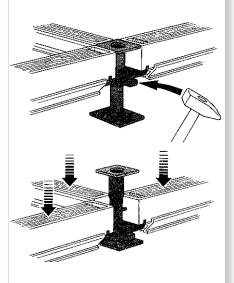




*Custom lengths on request

The drop-head is **quickly lowered** to enable (early) striking without having to remove any props.

- Release ring for quick lowering also in corners
- No special tools needed a few blows with a hammer are sufficient
- Beams and panels can be unhooked and used for the next concrete pour



The quick lowering feature results in significant savings:

- all formwork beams are released
- approx. 2/3 of the formwork panels are released
- up to 50% of the props and dropheads are released

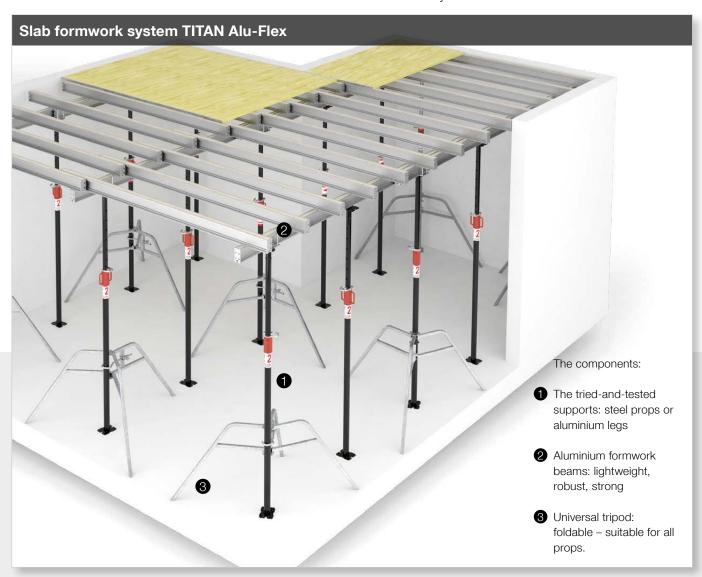


Slab formwork systems

For both in situ and precast concrete. The **TITAN Alu-Flex slab formwork system** with its few components is the fast and flexible choice when employing conventional formwork for large areas and irregular geometries.

The low number of components and low weight guarantee fast, effective work on site.

Want to find out more? Simply request our "Slab formwork system TITAN Alu-Flex" brochure.





4-Way Head

- Concentric load transfer
- Can be turned through 90° to accommodate two aluminium formwork beams



Positioner 38/50

- Simply fixed in the multipurpose slot
- Available in two sizes for steel props or aluminium legs



Universal tripod

- Secure stand for all customary steel props
- Folds for space-saving transport and storage



Spring Clip

Secondary beams can be connected to primary beams with spring clips.



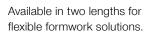
TITAN aluminium formwork beams

The **TITAN aluminium formwork beams** are essential to the ISCHEBECK modular system and can be used in many ways. Whether used as main or cross-beams for conventional slab formwork or as additions to traditional scaffolds, the features of these aluminium formwork beams are always impressive:

- High-strength aluminium
- · High load-carrying capacity for a low self-weight
- Robust and unaffected by the weather
- Lengths to suit the needs of contractors

Want to find out more? Simply request our "TITAN aluminium formwork beams" brochure.





- 2.50 and 3.75 m
- Timber nailing batten
- Multi-purpose slot
- perm. M = 3.3 kNm
- perm. Q = 17 kN
- 2.9 kg/m



For higher loads.

- Available in nine lengths from 2.75 to 11.90 m
- High shear force capacity
- Timber nailing batten
- Multi-purpose slot
- perm. M = 10.7 kNm
- perm. Q = 52 kN
- 6.5 kg/m



The alternative to the H20 beam.

- Same depth as H20 beam
- Available in three lengths from 2.50 to 4.90 m
- perm. M = 10.2 kNm
- perm. Q and A = 30 kN
- 5.3 kg/m





TITAN aluminium formwork beams

- Higher safe working loads
- Lower space requirements
- Lighter

Erection of precast concrete floor slabs

Using just a few components, the ISCHEBECK range of props and legs and **TITAN aluminium formwork beams** provide optimum support for precast concrete floors. The systems can be adapted to suit all requirements, e.g. height, slab depth, beam spacings and prop loads.

Want to find out more? Simply request our brochure on systems for supporting precast concrete elements.



The proven prop solution for housing and smaller commercial projects.

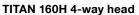
- TITAN S steel props are available in four lengths (single props up to 5.50 m)
- e.g. with TITAN 120 or TITAN 200 aluminium formwork beams



For formwork with fewer props.

Savings of up to 35% compared with H20 beams.

- TITAN HV Lite legs are available in two lengths (single legs up to 4.25 m)
- e.g. with TITAN 200 or TITAN 160H aluminium formwork beams





TITAN 120 4-way head



The **4-way heads** can accommodate one or two formwork beams and transfer the loads concentrically.



Quickly and easily fixed in the multi-purpose slot using the

spring clip.

- at tops of props
- at primary and secondary beams



For carrying loads at great heights.

- TITAN HV Lite leg easily extended
- for towers up to 6.10 m high
- e.g. with TITAN 200 or TITAN 160H aluminium formwork beams



Beam forms

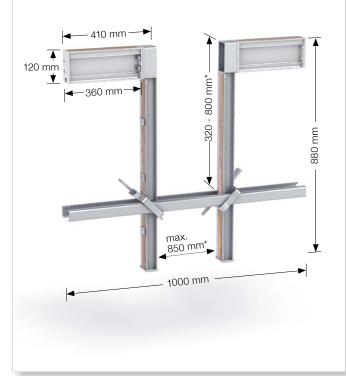


ISCHEBECK can supply **TITAN U-HV beam clamps** and **TITAN UZ beam side frames** to meet the formwork requirements of any downstand beams. Fast, flexible solutions for the formwork to T-beams, edge beams and changes in soffit level.

Both systems consist of just a few components. The materials used, aluminium and galvanised steel, are sturdy and durable.



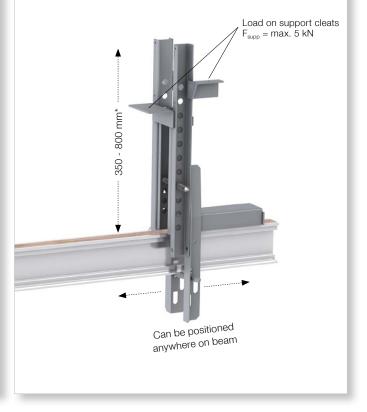
- · Quickly preassembled on the ground
- Self-centring upon placing the sheeting in position
- Beam depths of 320-800 mm
- Effective beam widths up to 810 mm
- No additional cross-beams necessary formwork beams and clamps can be supported on the same cross-beams.
- No ties through the beam



- Low weight
- Simple adjustment of depth and width
- Just a few system components
- Quickly and easily assembled
- Can be combined with the formwork systems of other suppliers
- Want to find out more? Simply request our "TITAN beam formwork" brochure.



- Suitable for use with TITAN 120, TITAN 160H and TITAN 200 aluminium formwork beams and also H20 timber joists
- Beam depths of 350-800 mm
- For wide beams
- Also suitable for supporting formwork along the edges of slabs



^{*} Thickness of sheeting neglected

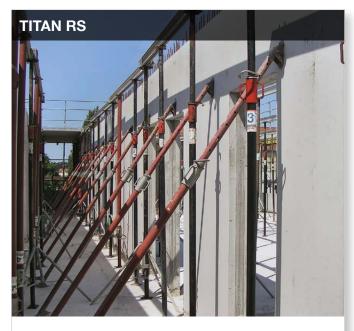
Erection of precast concrete walls

Verified typical calculations

Whether made from steel or lightweight aluminium, the four products in the ISCHEBECK push-pull prop range are ideal for the quick alignment and secure support of precast concrete elements as well as wall and column formwork. In terms of the heights and angles possible, this versatile, coordinated range is flexible and economic.

All TITAN push-pull props are suitable for tension and compression loads. The adjustable end fittings enable the props to be set up at any angle.

Want to find out more? Simply request our "TITAN push-pull props" brochure.



The tried-and-tested inclined prop with quick adjustment

- Available in three lengths
- Suitable for tension and compression
- · Connecting pins every 100 mm for quick adjustment
- · Collar for exact jack adjustment



Inclined prop with screw jack at both ends

- Available in five lengths
- Suitable for tension and compres-
- Exact jack adjustment
- No play

TITAN RS and TITAN RSK inclined props have been proving their benefits on building sites of all kinds and sizes for many decades. And it's the details ease of use:

- Handles always within easy reach
- Connecting pins every 100 mm for quick adjustment (RS)
- Exact adjustment
 - with collar (RS)
 - with screw jacks both ends (RSK)

that are really convincing in terms of everyday needs and





Modular system - flexible up to great heights

- Available in 12 lengths
- Suitable for tension and compression
- · Screw jack and outer tube in steel
- Very high load-carrying capacity

TITAN BKS is a modular system made from robust steel parts for carrying loads of up to 50 kN. The individual parts are quickly assembled to form push-pull props

with different lengths.

• Two-start trapezoidal thread for quick adjustment



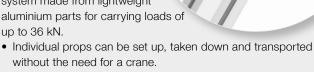
As single prop or tower - with aluminium components

Single props available in three lengths

- Suitable for tension and compression
- · Modular system
- Ledger frame connection for tower arrangements

TITAN Alu-BKS is a modular system made from lightweight aluminium parts for carrying loads of

- Individual components are quickly assembled to form push-pull props in different sizes.
- Outer tube includes multi-purpose slot suitable for attaching ledger frames.



TITAN formwork for openings

Formwork for doors and windows is frequently built on site from plywood and pieces of timber, and used just once. TITAN door and window forms represent an economic alternative for wall openings with recurring dimensions, e.g. lift shafts. The frame consists of lightweight, robust aluminium components, and these stable components guarantee

accurate dimensions. The great advantages of this system

- For wall thicknesses from 200 to 300 mm
- Ideal for multiple uses
- Infinite adjustment of height and width
- Just a few system components

formwork are, the easy set up, the adjustment to the size of opening required and its reusability.

Want to find out more? Simply request our brochures on TITAN door and window forms.



Standard dimensions

- Door widths from (874) 882 to 2342 mm
- Door heights from 2000 to 4010 mm

We can supply preassembled units for standard door opening dimensions to DIN 18100.

- Widths from 655 to 855 mm
- Heights from 2030 to 2210 mm





Standard dimensions

- Minimum size 865 x 1080 mm
- Maximum size 2340 x 2340 mm
- Can be used horizontally or vertically

Smaller and larger dimensions are available on request, or can be achieved, for example, by using two units side by side.



Examples of formwork applications







TITAN WK wall-mounted supports

Bridge those gaps!

Bridging over inaccessible areas (e.g. water or moving traffic) often involves cutting heavy steel beams to length and complicated dismantling afterwards. **TITAN WK wall-mounted supports** represent an easily installed alternative with a high loadbearing capacity for situations where elaborate and expensive temporary foundations might otherwise be necessary.

Want to find out more? Simply request our "TITAN wall-mounted supports" brochure.



TITAN WK wall-mounted supports with high loadbearing capacity:
- up to 240 kN (WK 2000, 150 kg)

- up to 100 kN (WK 1000, 27 kg)

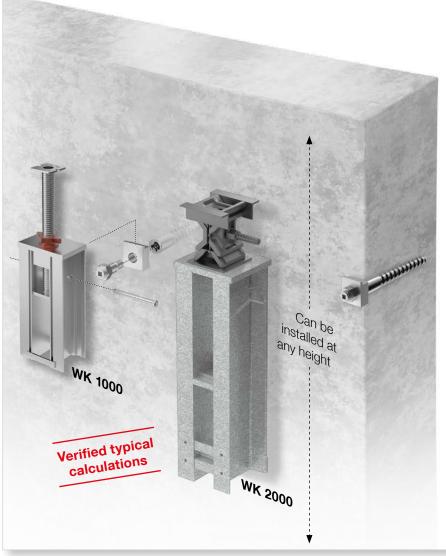


TITAN anchor screw



For fixing the support blocks for wall-mounted supports using the cast-in, recoverable **TITAN anchor screw** made from quenched and tempered steel

Can also be installed in a core-drilled hole after completing concreting.



Aluminium beams with the load-carrying capacity of steel beams







The powerful combination of tried-and-tested TITAN 225 aluminium formwork beams and beam couplers to form shear-resistant **TITAN aluminium bridging beams** is ideal for bridging over obstacles and access openings.

- Type 2, comparable with HEB 200: 22.5 kg/m in comparison to 63 kg/m
- Type 3, comparable with HEB 240–280
 36 kg/m in comparison to 106 kg/m for an HEB 280
- Easily and quickly dismantled into lightweight separate components
- Want to find out more? Simply request our "TITAN aluminium bridging beams" brochure.



Wedge jack



For carrying concentric and eccentric vertical and horizontal loads.

Want to find out more? Simply request our "TITAN wedge jack" brochure.

Universal beam clamp



Forged body with National Technical Approval for clamping capacity of 5–70 mm.

Want to find out more? Simply request our "TITAN universal beam clamp" leaflet.

Extender TITAN 225



For extending TITAN 225 aluminium formwork beams by up to 0.6 m.

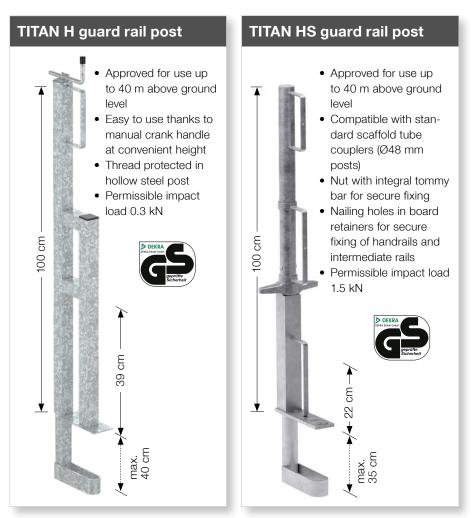
- adjustment with centimetre accuracy
- with verified typical calculations
- without reducing the loadbearing capacity

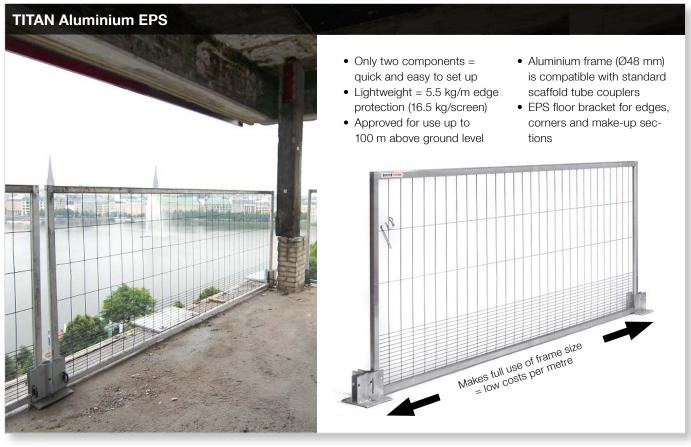
Edge protection systems

Whether you need guard rail posts or aluminium EPS screens, fencing off an open perimeter from which persons could fall, should never take longer than the work that needs to be done at the perimeter. It is the small number of parts and the ease of use that are the real plus points of ISCHEBECK edge protection systems. The systems are flexible in use and represent a major contribution to the safety of persons on building sites.

- Complies with EN 13374 class A
- Tested by the German employers' liability insurance association
- Reliable protection
- Want to find out more? Simply request our "TITAN edge protection systems" brochure.

Complies with EN 13374 class A





Logistics



Storage – stacking – transport. The **TITAN "Barelle"** storage rack ensures well-organised stocks. You know at a glance what materials you have at your disposal. Vital for supplying building sites. But just as helpful for stocktaking. The TITAN "Barelle" storage rack also makes transport more economic. Simple loading/unloading with crane or forklift. Two storage racks fit side by side on any normal heavy goods vehicle.

Want to find out more? Simply request our logistics and storage brochure.

ISCHEBECK can supply craneable, stackable **Mesh Transport Box TITAN** for transporting and storing small parts. Fitted with eyes for four-leg crane slings.



Mesh Transport Box TITAN (1240 x 835 x 990 mm), folding front side, for stacking max. 5 high

• Weight 72 kg

Loading capacity max. 1500 kgVertical load 6000 kg

• Volume 0.75 m³



Fitted with eyes for crane slings. Dimensions (external)

(clear internal)

1586 x 1024 x 801 mm 1426 x 864 x 641 mm

Weight
Permissible load
Vertical load

37 kg max. 1500 kg 6000 kg

"Barelles" can be stacked max. 5 high



"Barelle" storage rack with central divider for small parts





Fixed and swivel castors ensure simple transport.



Trench shoring systems

Litebox aluminium trench lining is the ideal trench shoring system for trenches at inner-city locations. This modular aluminium system closes the gap between the frequently heavy and cumbersome steel systems and manual trench timbering.

All customary trench widths and depths (max. 6 m) and degrees of difficulty (crossing services, friable soils, cramped conditions) are easy to handle with the few parts of this system – and no need for heavy plant either. The many appli-

cations include laying cables and gas and water pipes in open trenches, jacking and working pits for installing pipes and cables underground, installing and repairing service connections to buildings, inspection work, horticultural and landscaping works, etc.





Video on lightweight aluminium trench lining now available

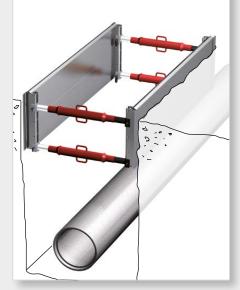
Want to find out more? Simply request our "Litebox aluminium trench lining" brochure.



Partial shoring – for securing max. 1.75 m deep trenches

- Prevents the top edges of the trench from collapsing
- Suitable for stiff and cohesive soils as well as rocky ground
- Can be installed by two persons without plant

Trench depths 1.75 m
Trench widths 0.60 – 2.18 m
max. pipe clearance height 0.75 m



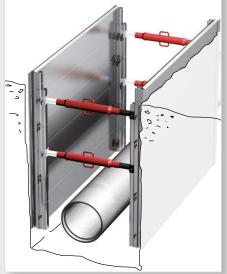


Full shoring – fast and safe, for max. 3 m deep trenches

- Sides fully supported
- For soils that are stable for short periods

Standard shoring depths 1.50 – 3.00 m (max. 6.00 m possible)

Trench widths 0.68 – 2.26 m max. pipe clearance height 0.75 m





Aluminium manhole shoring – fast

and safe, for max. 3 m deep shafts

- · Sides fully supported
- For soils that are stable for short periods
- Jacking and working pits (max. pipe clearance height 1.00 m)
- Suitable for end-face shoring Standard shoring depths max. 3.00 m (max. 6.00 m possible)

Trench widths 1.11 - 3.20 m





Litebox struts Gi-A



The trench struts for lightweight aluminium trench lining, including two standard connecting pins

Trench widths
Gi-A 60-81: 60 - 112 cm*
Gi-A 80-121: 80 - 152 cm*
Gi-A 129-218: 129 - 249 cm*

* depends on system used

Optional components for Litebox aluminium trench lining

To meet challenges such as crossing services, but also to deal with slopes to satisfy code requirements or to prevent collapse, ISCHEBECK offers modular system solutions that can be easily combined with products of the lightweight aluminium trench lining range.

System solution for crossing services

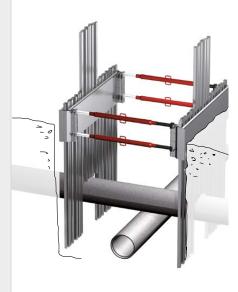
GIGANT aluminium strongframe system

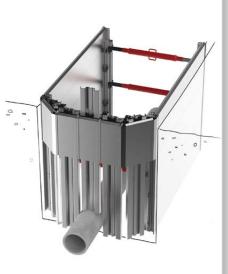
Full shoring with flexible and adjustable aluminium trench sheets – for max. 3 m deep trenches, also in friable, unstable soils.

System solution for protection against collapse to DIN 4124

GIGANT aluminium trench end shoring

- Modular system solution easily adapted to different trench widths
- Can be combined with our lightweight aluminium trench lining and aluminium strongframe products
- Suitable for the complete extension range of Litebox struts Gi-A
- Adapts to the edge of the trench, no unnecessary excavation required



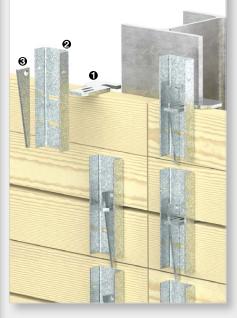


Timber wedge clamp wall



The **timber wedge clamp wall** with timber planks clamped to the front of each soldier pile is ideal for deep trenches and excavations on inner-city sites. The system consists of just three parts:

- wedge plate, U-plate and wedge. The timber wedge clamp saves time and materials and is the cost-effective alternative to traditional soldier pile walls.
- Want to find out more? Simply request the brochure on excavation shoring with timber wedge clamp walls.



Trench shoring systems

The right trench strut for every trench shoring situation.

All our Trench Struts are marked with the civil engineering employers' liability insurance association symbol according to DIN 4124. That means:

- No problems during acceptance inspections
- Quality assured by an external organisation, the North Rhine-Westphalia Materials Testing Laboratory

Want to find out more? Simply request our "TITAN Trench Struts" brochure.

TITAN 60 Trench Brace

TBG 3 - TI 60

Available in four lengths:

90-150 cm
 160/150
 100-99 kN
 140-200 cm
 160/200
 100-93 kN
 190-250 cm
 160/250
 95-84 kN
 240-300 cm
 160/300
 85-72 kN

Permissible load: 70-100 kN

Large strut spacings simplify excavation and pipelaying in wide, deep trenches (main discharge pipes, outfall sewers, dyke drains, etc.). The **TITAN 60 trench brace** is suitable for the vertical trench sheets used as shoring in such excavations. Bracket for 14 x 16 cm timber framing.

- Length infinitely adjustable over 60 cm
- Just one Ø60 mm screw jack fits all sizes
- Quick-action thread (1 cm per turn)
- · Needs only half the effort when releasing the strut
- Screw jack and outer tube are interchangeable but cannot come apart in use

Medium duty strut TITAN 48



Permissible load: 38-63 kN

The **Medium duty strut TITAN 48** is used for the most common trench widths (1.0-1.5 m). Bracket for 14 x 16 cm timber framing.

- · Length infinitely adjustable
- Easy to use for high loads
- Screw jack and outer tube are interchangeable but cannot come apart in use

Available in three lengths:

70-117 cm Ti 48/120 63-48 kN
 90-150 cm Ti 48/150 61-45 kN
 120-210 cm Ti 48/210 60-38 kN

Light Duty Struts » TERRA «



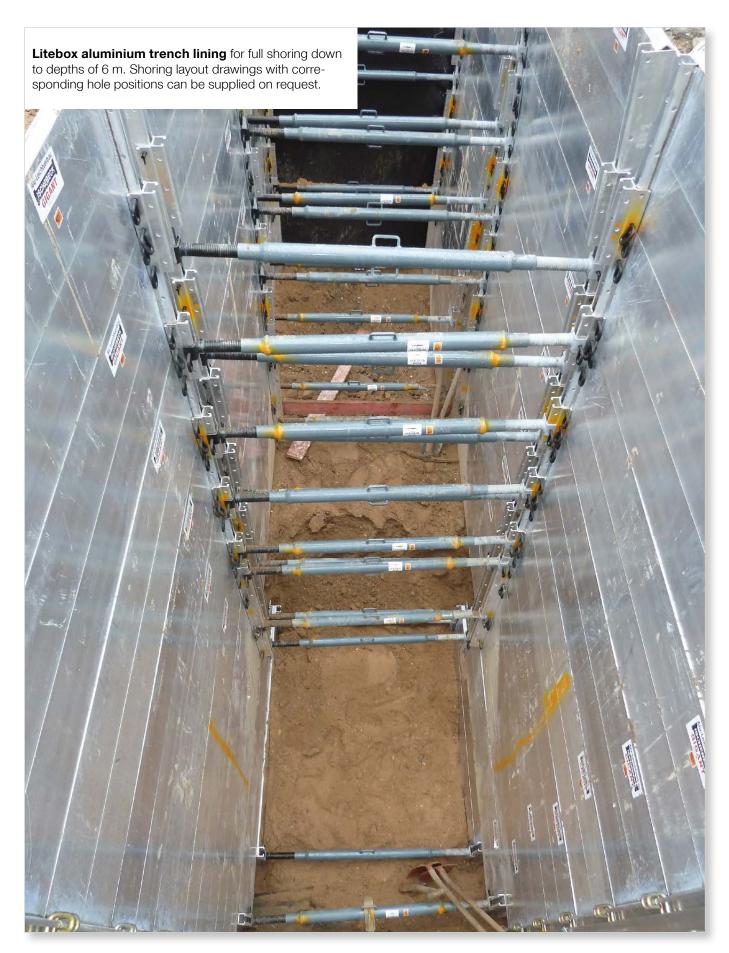
- Available in five lengths
- 50-80 cm terra Gr.1 38-30 kN
 60-90 cm terra Gr.1a 36-29 kN
 80-110 cm terra Gr.2 34-29 kN
 110-140 cm terra Gr.3 29-23 kN
 140-170 cm terra Gr.4 26-22 kN

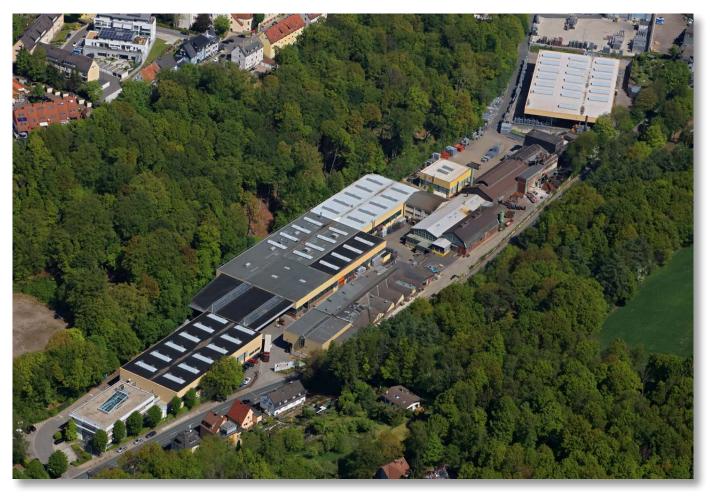
Permissible load: 22-38 kN

The **Light duty strut terra** is suitable for narrow trenches with horizontal timbering (e.g. service connections to buildings, manual excavation for repairs). With clawed end plate and nailing hole.

- Length infinitely adjustable over 30 cm
- Tubular steel screw jack, Ø32 mm, is 40% lighter than a solid screw jack for the same load
- Hardened thread is not easily damaged and is unaffected by dirt
- Screw jack and outer tube are interchangeable but cannot come apart in use







The photos reproduced in this brochure represent momentary snapshots of work on building sites. It is therefore possible that certain facts and circumstances do not fully correspond to the technical (safety) requirements.



Certified Management-System to DIN EN ISO 9001:2015



