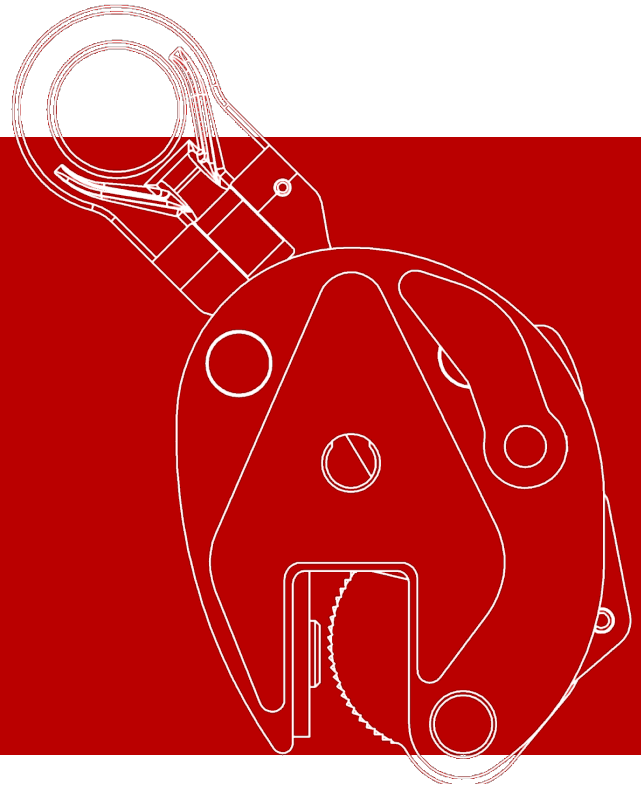
CrosbyIP

Lifting Clamps



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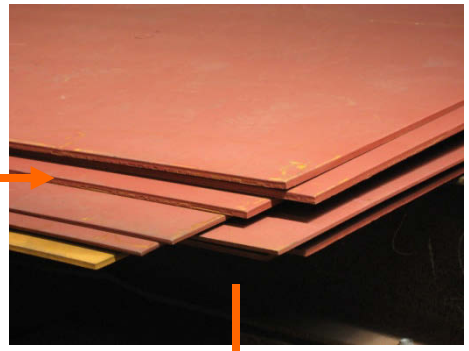
IČ: 25358511 DIČ: CZ25358511

- CrosbyIP
- Definition of a lifting clamp
- Application areas
- Standard range – vertical
- Standard range – horizontal
- Standard range – miscellaneous
- Special clamps
- Competition and USP's
- Safe use of clamps

DEFINITION OF A LIFTING CLAMP



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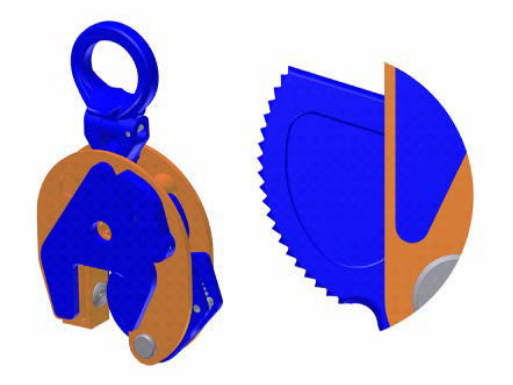
DEFINITION OF A LIFTING CLAMP

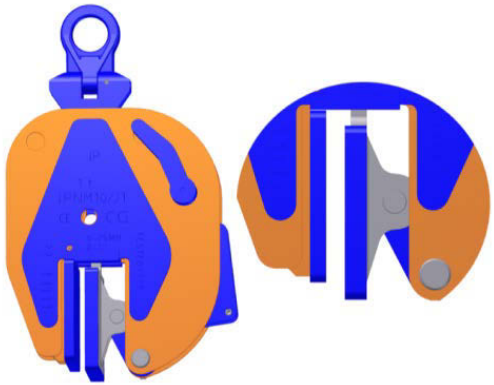
Lifting clamp - *clamp*; A lifting clamp is a tool designed to **lift a load**, between a pair of **claws** or clamping **jaws**, which are **pressed to the load by the weight of the load.**

Clamping principals;

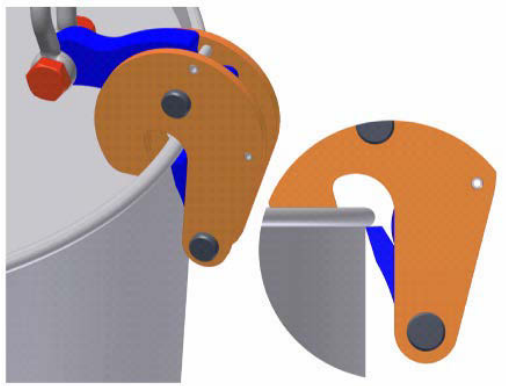
Penetration



Friction



Retaining



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DEFINITION OF A LIFTING CLAMP

Methods of lifting

Vertical

Horizontal

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DEFINITION OF A LIFTING CLAMP

Components of a lifting clamp

Load carrying components

Lifting eye

Lifting eye shaft

Body

Camsegment

Camsegment shaft

Pivot

Non Load carrying components

Latch

Spring

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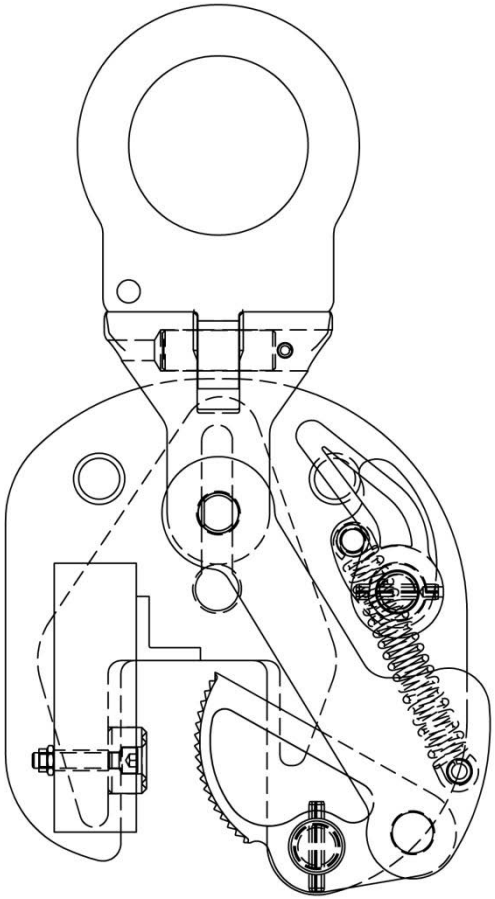
DEFINITION OF A LIFTING CLAMP

Components of a lifting clamp



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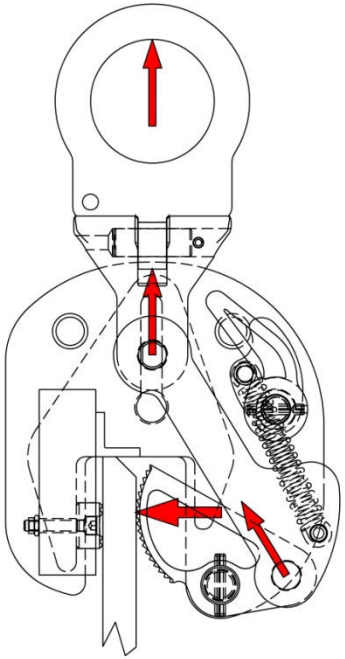
Working principle of a vertical lifting clamp

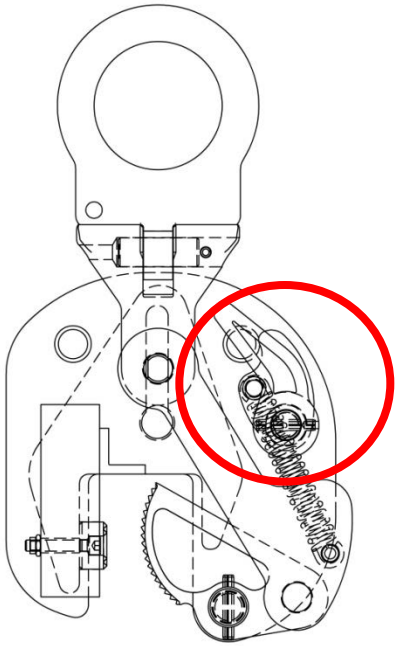
Pivoted link mechanism;

Turn lifting force into clamping force.

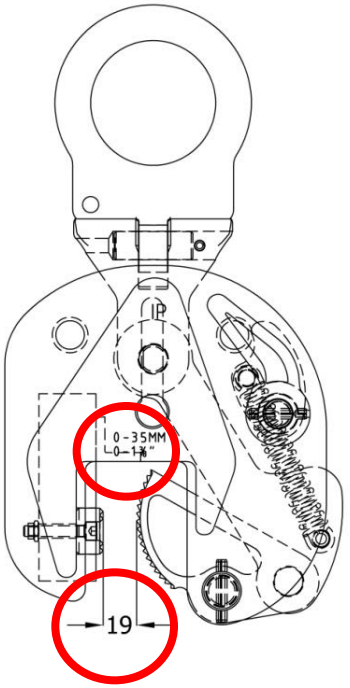


Pretension;

Clamping force without load on lifting eye.



Jaw opening



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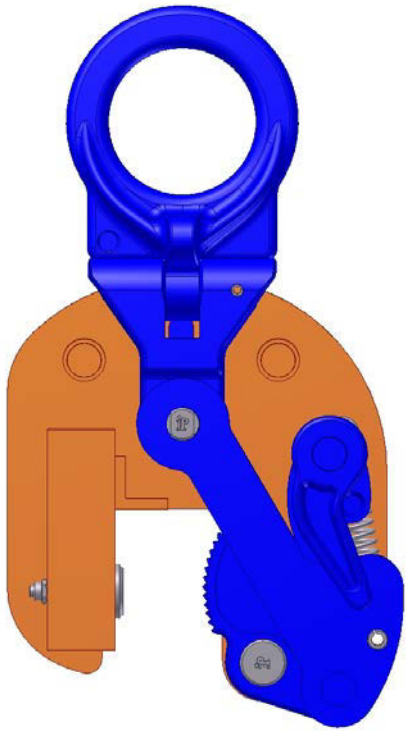
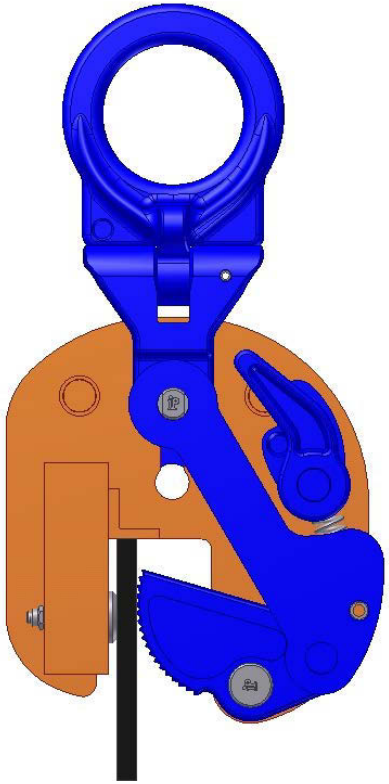
Working principle of a vertical lifting clamp

"Open" position



"Closed" position



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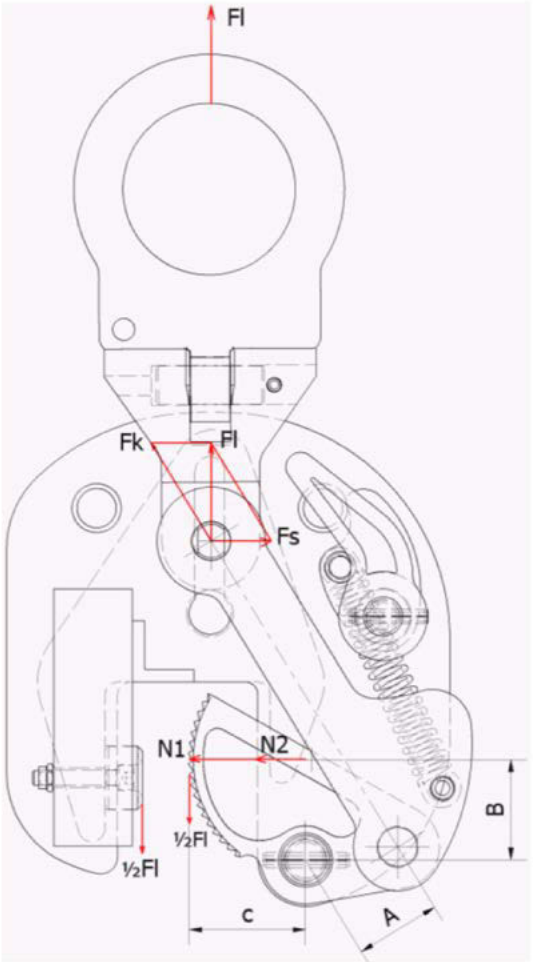
DEFINITION OF A LIFTING CLAMP

Clamping forces

N1 = Fk x A : B

N2 = ½ 2Fl x C : B

Total clamping force = N1 + N2



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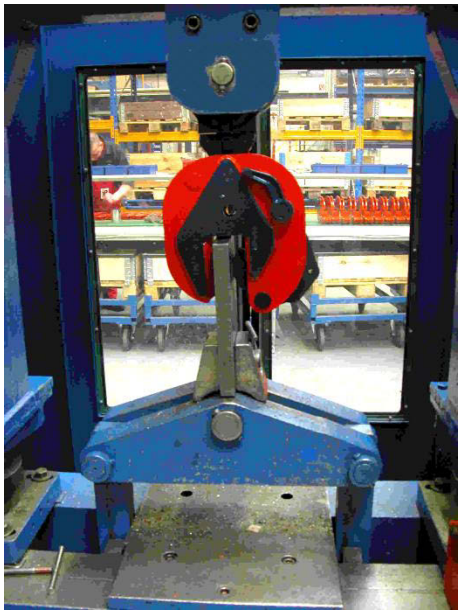
DEFINITION OF A LIFTING CLAMP



Strength lifting clamp; Minimal demands

2x the working load limit (WLL);	no deformation
3x the working load limit (WLL);	may have deformation but the load must be held

The design criteria of the clamp is based on EN13155 and ASME B30.20

All CrosbyIP clamps (up to 22,5t) are load tested with certification up to 200% of WLL

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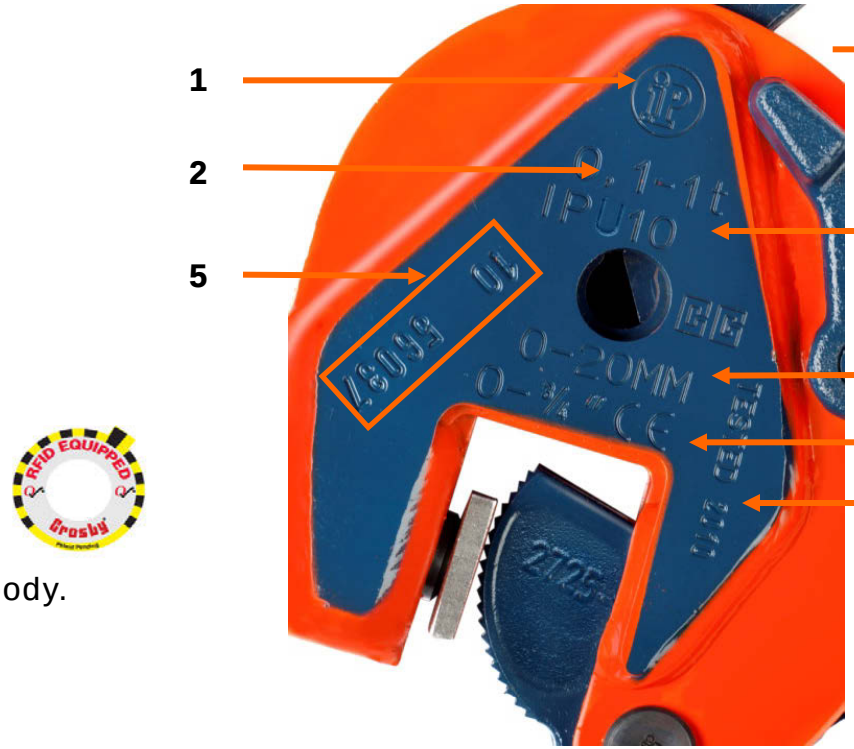
DEFINITION OF A LIFTING CLAMP

Markings CrosbyIP clamp:

1. Manufacturer
2. Minimum & maximum WLL
3. Type
4. CE marking
5. Serial number
6. Jaw opening (mm & inch)
7. Year of production
8. RFID equipped



All data are permanently stamped on body.

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DEFINITION OF A LIFTING CLAMP

Delivered with clamp:

1. Terms and conditions of warranty - Maintenance log
2. User instructions
3. Proof Load Test Certificate
4. Warranty certificate

All in various languages.

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DEFINITION OF A LIFTING CLAMP

Easy to obtain spare parts

- Maintenance kits up to 9t for vertical clamps
- Repair kits up to 6t for vertical clamps
- Single spare parts for each clamp

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APPLICATION AREAS

Offshore

Ship & yacht construction

Tank & vessel construction

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APPLICATION AREAS

Steel constructions

Windpower energy

Aircraft industry

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STANDARD RANGE - VERTICAL

IP(U)10

HRC < 37

Minimal working load:

5% of stated WLL up to 27 HRC
10% of stated WLL up to 37 HRC

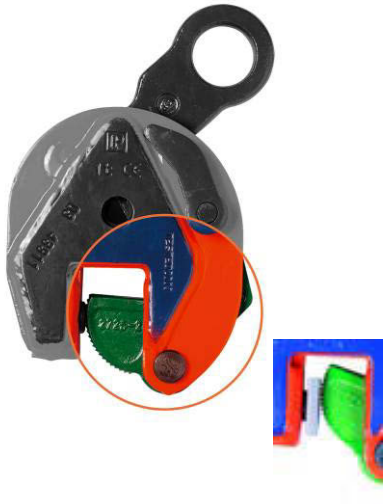
IP(U)10S(tainless steel)

HRC < 37

Minimal working load:

5% of stated WLL up to 27 HRC
10% of stated WLL up to 37 HRC

IP(U)10H(ard)



HRC < 47

Minimal working load:

10% of stated WLL up to 47 HRC

IPNM10: Non Marring

HRC > 47

Minimal working load:

No minimum WLL at any hardness

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VERTICAL TRANSPORT

- IPU10 – IP10
- IPU10S – IP10S
- IPU10H – IP10H
- IPU10A – IP10A
- IPTPU - IPTPUX
- IPV(U)(N)Z
- IPNM10 – IPNM10J – IPNM10P

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IP10 & IPU10

WLL: 0,5 – 30 t IP(U)10

WLL: 6 – 30 t IP(U)10J
(larger jaw opening)

UNIVERSAL – FOR LIFTING IN ANY DIRECTION

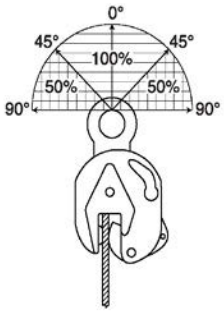
The IP(U)10 vertical lifting clamps are used for the lifting, turning, moving or vertical transfer of steel plates and constructions from horizontal to vertical and down to horizontal (180º).

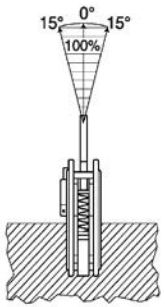
The IPU10 has a hinged lifting eye that allows for the clamp to place and lift the load from any direction.

IP10

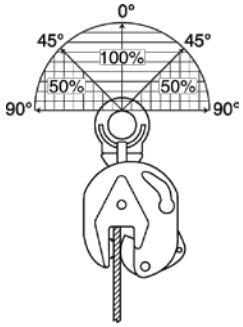
IPU10

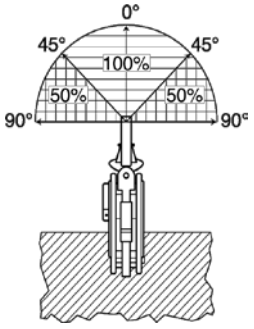
IP10





IPU10





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STANDARD RANGE - VERTICAL

Vertical transport of various plates

IPU10

IP10

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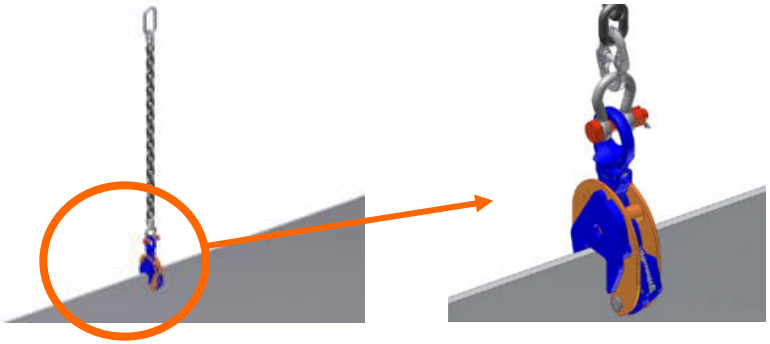
IP10 & IPU10

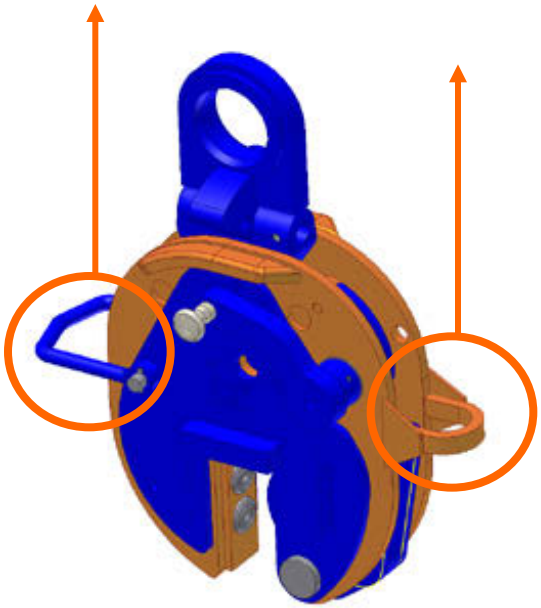
To be used with a single or multiple slings.



Use only IPU10 clamps in multiple leg sling applications.

WLL 12t

Clamps 12t WLL and up are fitted with special hook-up facilities to enable easy placement of the clamp in horizontal position.



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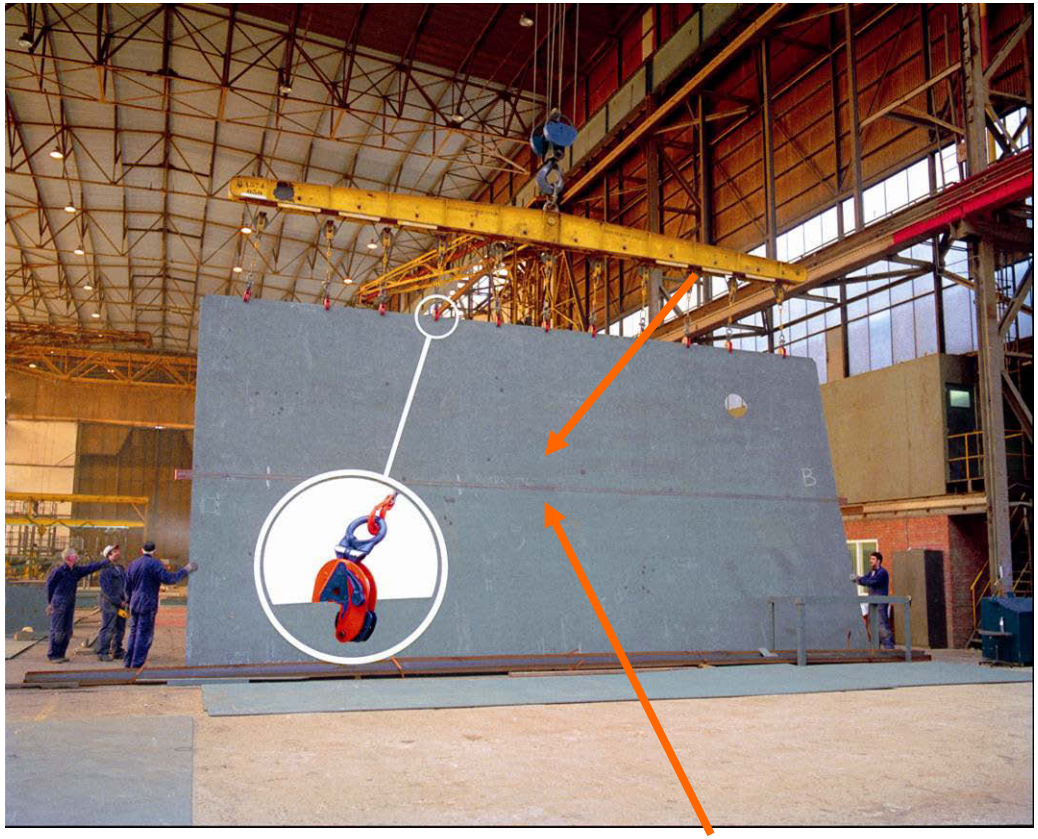

Welding strip

After the 2 smaller parts are welded together the partial ship deck is turned around by using an equalizing beam.

Then the other side is welded and transported to the almost finished ship deck.

IPU10

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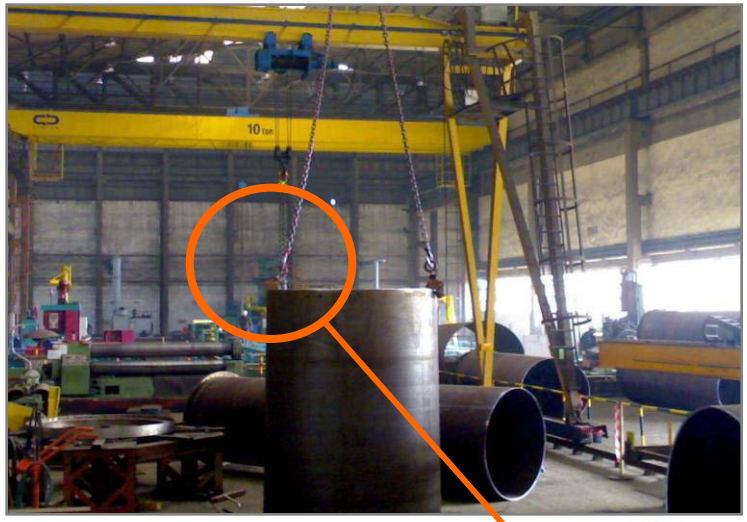
Vertical transportation of round fabrications or pipes



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IP10S & IPU10S

WLL: 0,5 – 12 t IP(U)10S

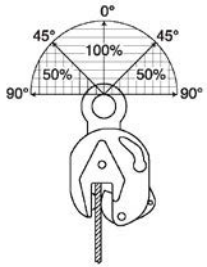
FOR STAINLESS STEEL MATERIAL

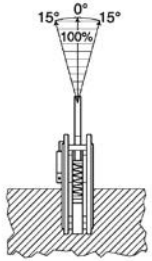
Vertical lifting clamps are suitable for the lifting, turning (180°) and vertical transfer of stainless steel materials.

For use on materials with a surface hardness up to 37HRC. Fitted with a pivot and camsegment made of stainless steel to avoid contact corrosion.

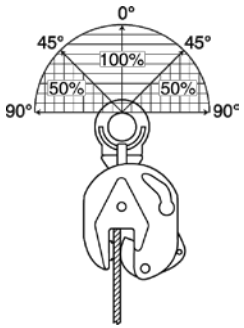
IP(U)10S

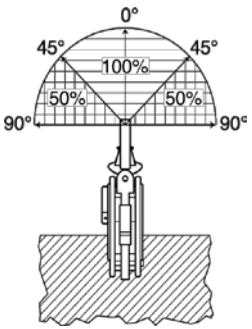
IP10S





IPU10S





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IP10H & IPU10H

WLL: 0,5 – 6 t IP(U)10H

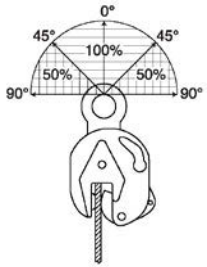
HARD SURFACE MATERIAL

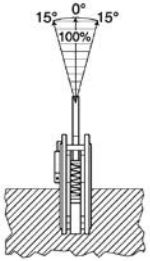
Vertical lifting clamps are suitable for the lifting, turning (180°) and vertical transfer of steel plates and sections with extra hard surface hardness.

For use on materials with a surface hardness up to 47HRC (450 HB). Fitted with a pivot and camsegment made of extra hard wear-resistant material.

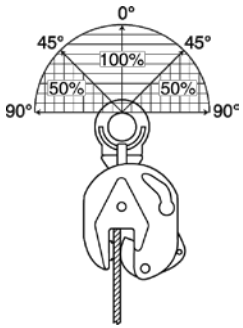
IP(U)10H

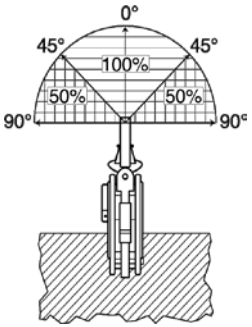
IP10H





IPU10H





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IP10A & IPU10A

WLL: 1 – 2 - 9 t IP(U)10A

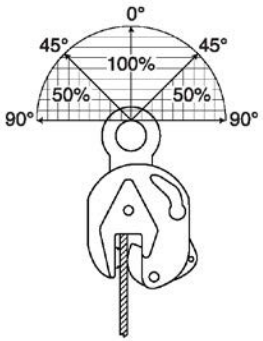
AUTOMATICALLY LOCKING

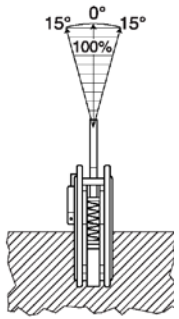
The IP10A - IPU10A clamps automatically applies pre-tension on the material as soon as the clamp is placed on the plate, and stays in the locked position.

Applications for this clamp include placement on loads that are difficult to reach.

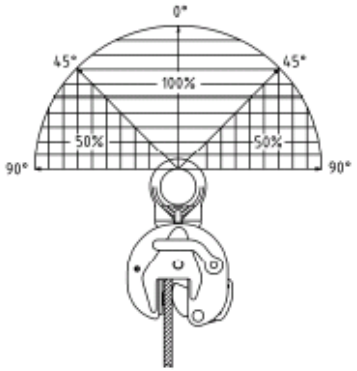
IP(U)10A

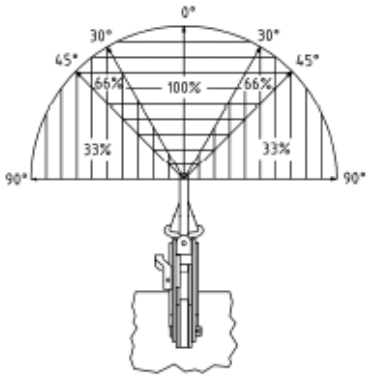
IP10A





IPU10A





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Determine Center of Gravity, and ensure the load is proportionally divided over the clamps.

IP(U)10A

IPTPU & IPTPUX

WLL: 1,5 – 3 t IPTPU

WLL: 1,5 – 3 t IPTPUX
(with supporting profiles)

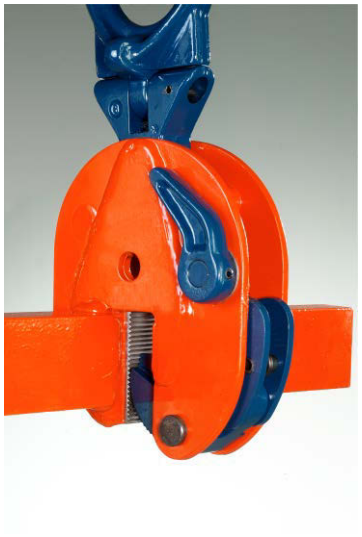
FOR VERY THIN, LARGE PLATES

Used for lifting very thin, large plates from horizontal to vertical position and to turn them. The specific design of this model prevents the plates from 'buckling' while being lifted.

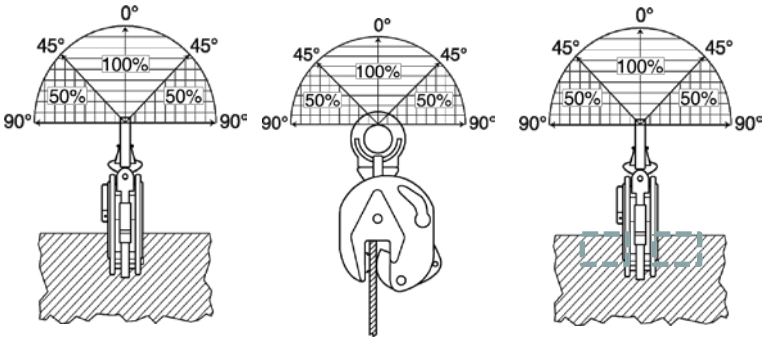
IPTPUX is equipped with lateral supporting profiles.

IPTPU

IPTPUX



IPTPU **IPTPUX**



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IPV(U)(N)Z

WLL: 0,75 – 1,5 t IPV(U)(N)Z

FOR SMALL PROFILES

The IPV(U)(N)Z is specially designed for the transfer of small profiles.

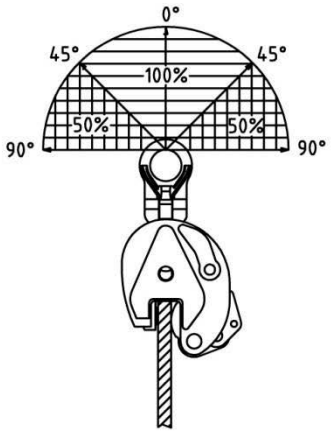
IPVZ; with fixed lifting eye

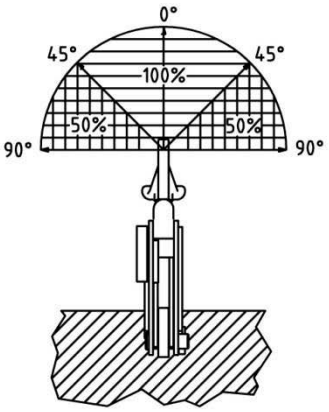
IPVUZ; with hinged lifting eye

IPV(U)NZ; for even smaller profiles

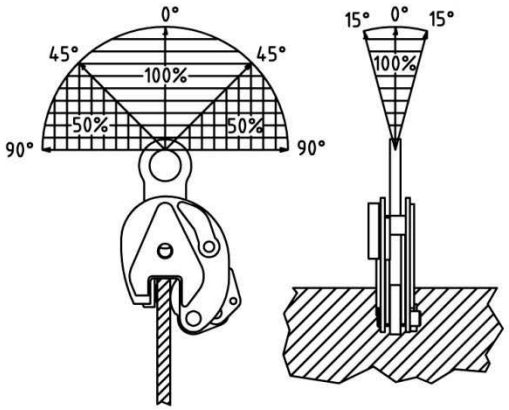
IPV(U)(N)Z

IPV(N)Z





IPVU(N)Z



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IPNM10 & IPNM10(J)(P)

WLL: 0,5 – 2 t IPNM10

WLL: 0,5 – 1 t IPNM10J
(larger jaw opening)

NON MARRING

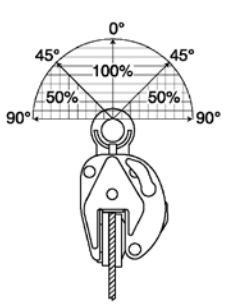
The IPNM10 clamp is used for the lifting, turning, moving or vertical transfer of sheet, steel plates or fabrications from horizontal to vertical and down to horizontal (180º) as needed without marring the surface of the material.

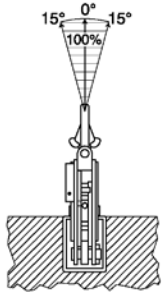
Also available with protective cap (IPNM10P) to reduce risk of damage to surrounding plates. Also available the special IPNM10JC, with curved jaws.

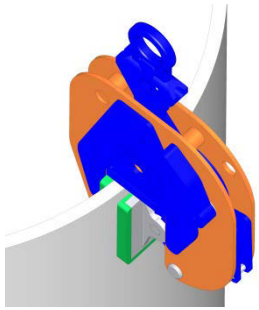
IPNM10

IPNM10P

IPNM10(J)(P)







IPNM10JC

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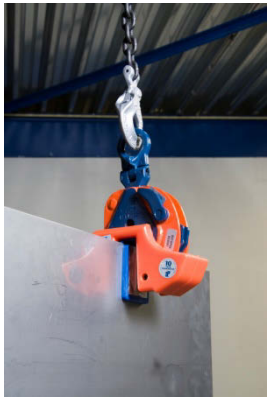


Refinishing of the material surface not needed with IPNM10 series.

To be used with;

Aluminum, stainless steel, painted materials, aircraft skins, composite materials & plastics.

HORIZONTAL TRANSPORT

- IPH10 - IPH10J - IPH10E
- IPHOZ
- IPHNM10
- IPBC
- IPHGZ - IPHGUZ
- IPPE

IPH10(J)(E)

WLL per pair: 0,5 – 12 t IPH10

WLL per pair: 3 – 12 t IPH10J(E) (larger jaw opening)

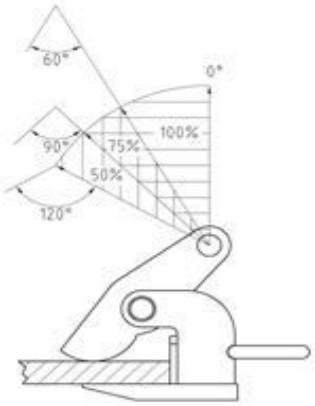
FOR HORIZONTAL LIFTING AND TRANSFER

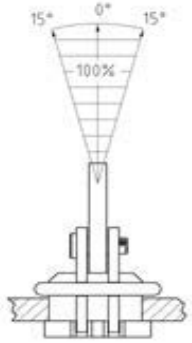
The IPH10 is suitable for lifting and transfer in horizontal position of non-sagging steel plates. The use of magnets ensures the clamps to remain in the proper position on the plate. Also equipped with a handle and torsion spring that combines to make the placing of the clamp onto the plate quick and easy.

These clamps must be used in pairs or more.

IPH10	0,5t - 1t : with spring
IPH10	2t - 12t : with torsion spring, magnets & handle
IPH10E	2t - 12t : with handle

IPH10(J)(E)





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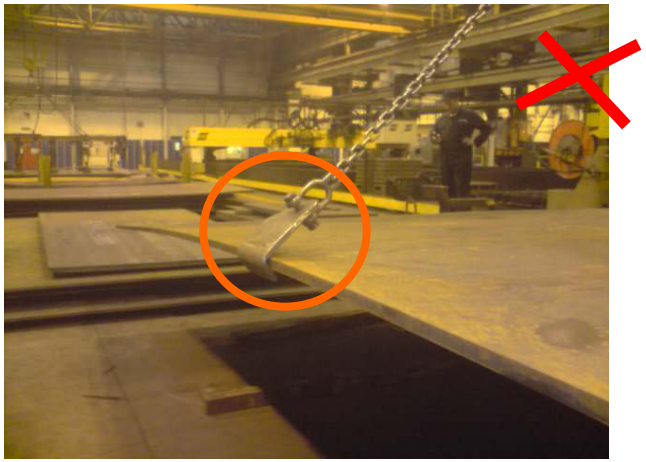
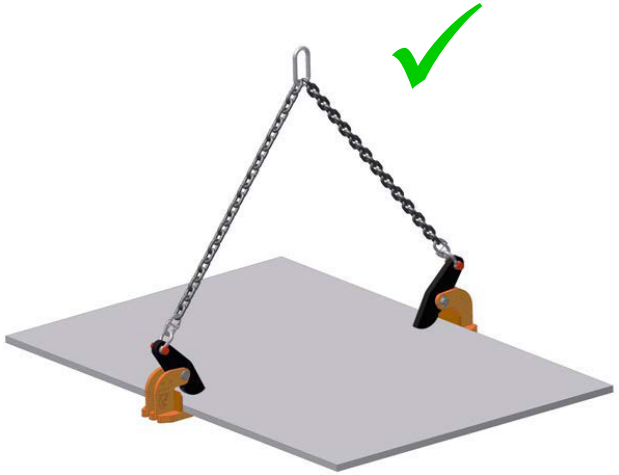


IPH10

Always be sure to use the right tools for the right application to ensure maximum reliability!

These clamps must be used in pairs or more.



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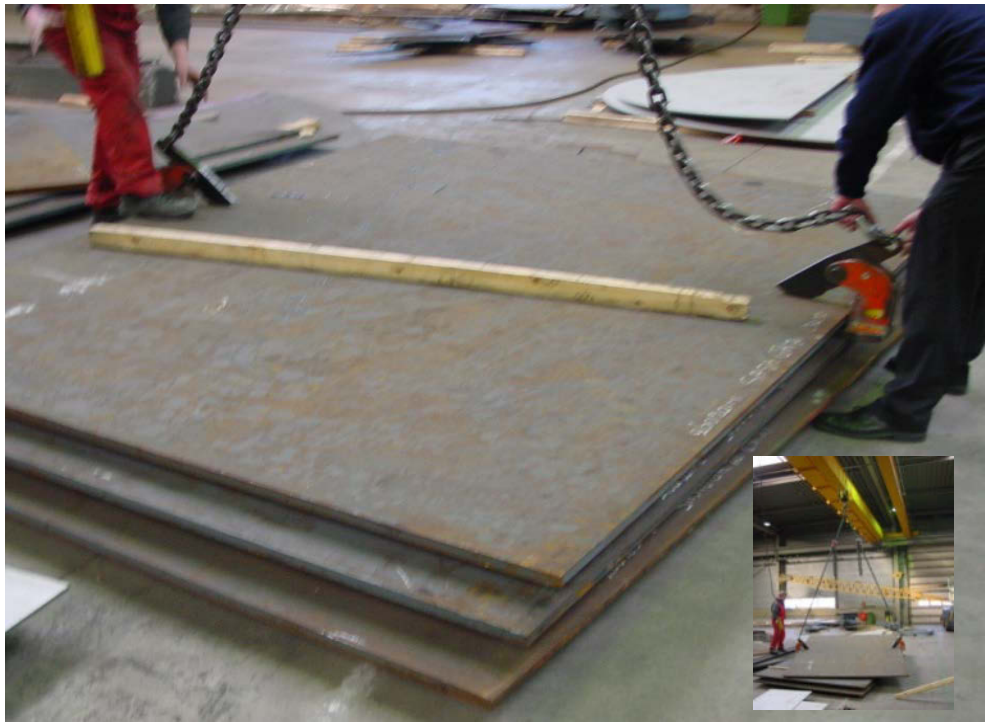
Lifting with 2 (or more) persons is **time consuming** and **expensive**!



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IPHOZ

WLL per pair : 0,75 – 15 t IPHOZ

FOR HORIZONTAL LIFTING OF SAGGING MATERIAL

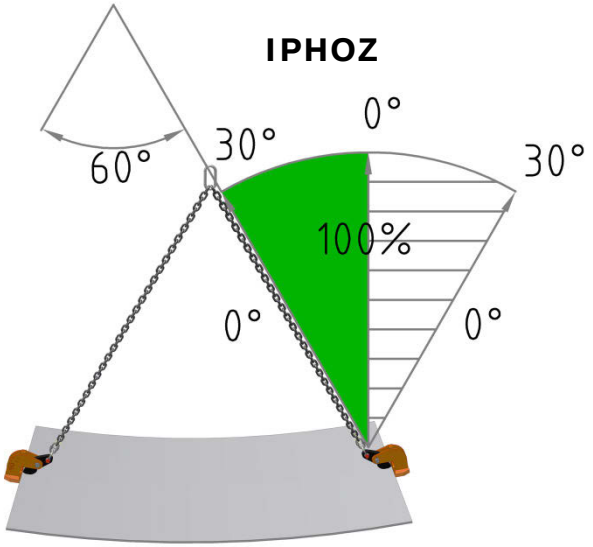
The IPHOZ horizontal lifting clamp is to be used for lifting and transferring, in horizontal position, of thin sheet and other materials that will sag or bend when lifted.

Can also be applied in combination with long chains or two leg slings.

These clamps must be used in pairs or more.

IPHOZ

IPHOZ



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IPHNM10

WLL per pair : 0,5 - 2 t IPHNM10

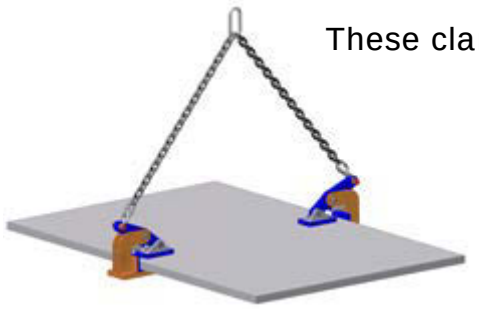
WLL per pair : 2 t IPHNM10J
(larger jaw opening)

NON MARRING

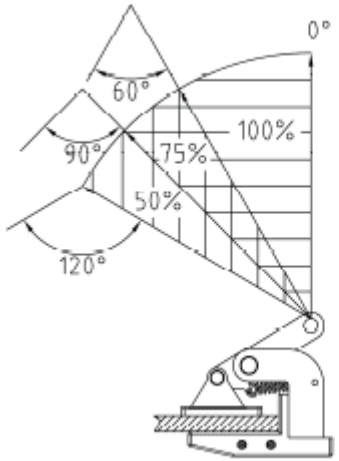
The IPHNM10 horizontal lifting clamps have a pretension feature that allows the user to attach the clamps to the material for horizontal lifting and transfer of non-sagging material. To be used where material surface must not be damaged. Also applies for materials with a very smooth surface, composites and coated plates or plates with a very hard surface.

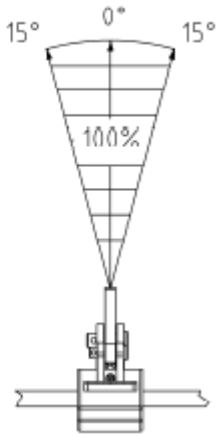
These clamps must be used in pairs or more.

IPHNM10



IPHNM10





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IPBC

WLL: 1 - 3 t IPBC

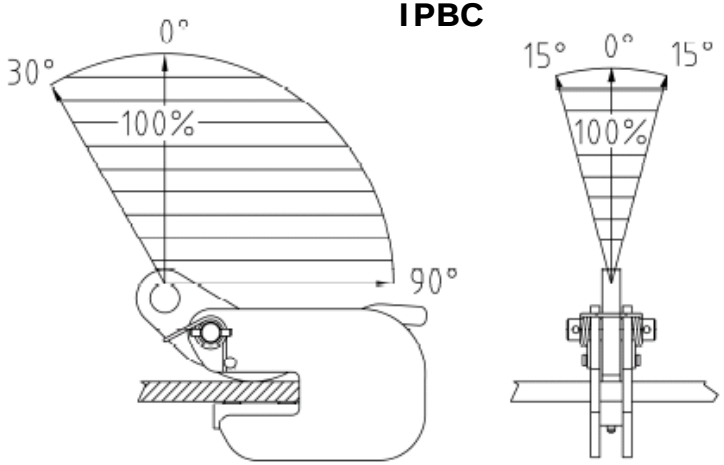
FOR HORIZONTAL TRANSFER – WITH PRETENSION

The IPBC horizontal lifting clamps have a pretension feature that allows the user to attach the clamps to the material for horizontal lifting and transfer of sagging and non-sagging material. These clamps may also be used to handle material that will be used in shears, bending and rolling machines or other fabrication equipment. For horizontal plate lifting, must be used in pairs of more.

Also to be used for turning beams from “H” into the “I”position.

IPBC

IPBC



IPHGZ - IPHGUZ

WLL: 0,75 – 4,5 t IPHGZ

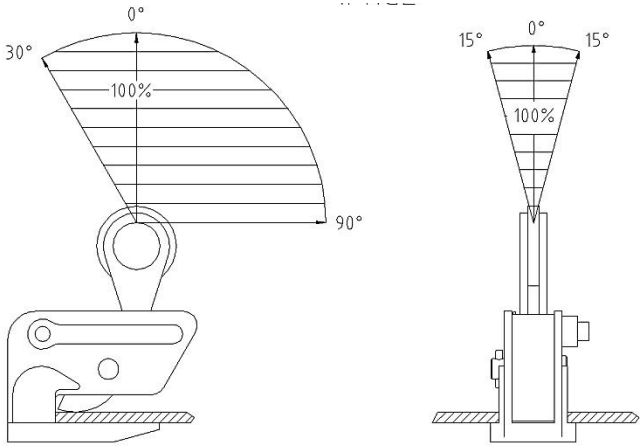
WLL: 1,5 – 4,5 t IPHGUZ

FOR HORIZONTAL TRANSFER – WITH LOCKING DEVICE

The IPHG(U)Z lifting clamps have a pretension locking feature that allows the user to attach the clamps to the material for horizontal lifting and transfer of sagging and non-sagging material. These clamps may also be used to handle material that will be used in shears, bending and rolling machines or other fabrication equipment. May also be used to move and lift structural shapes such as I-Beams, H-Beams etc.

IPHG(U)Z

IPHGZ



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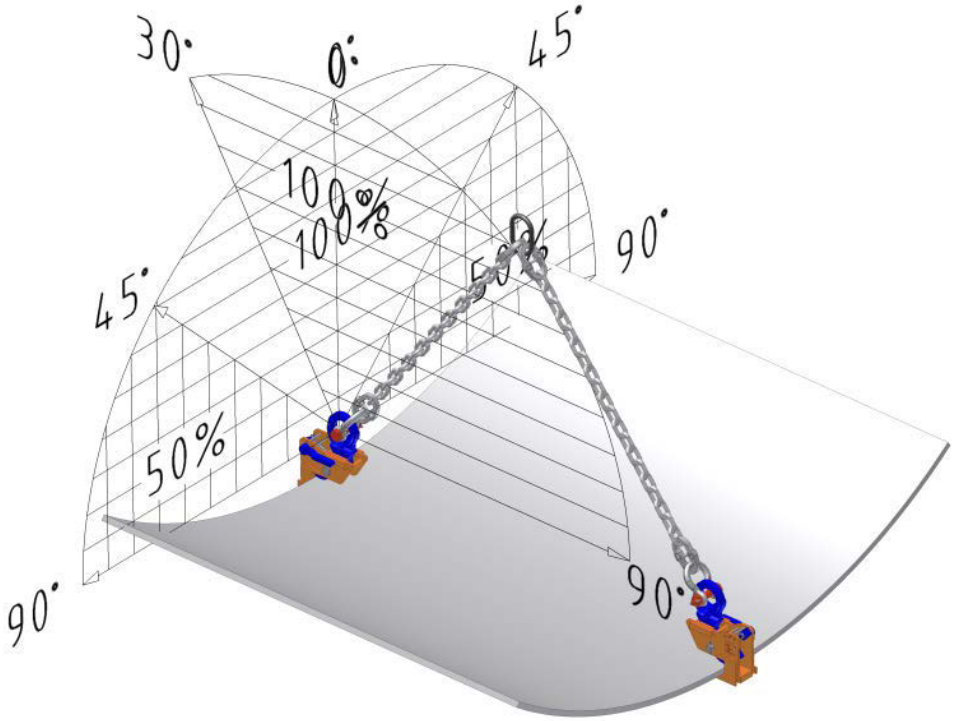
IPHGUZ Lifting angles!



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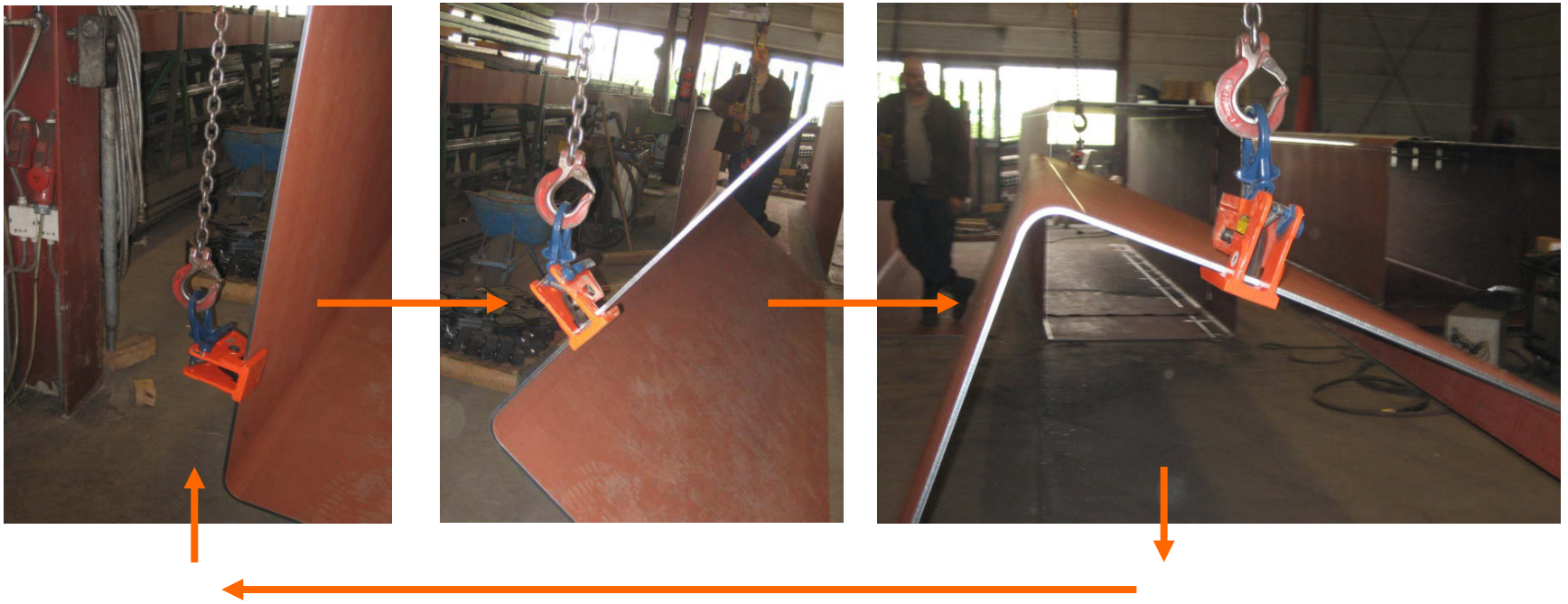
Controlled tilting by using correct lifting angles

IPHG(U)Z



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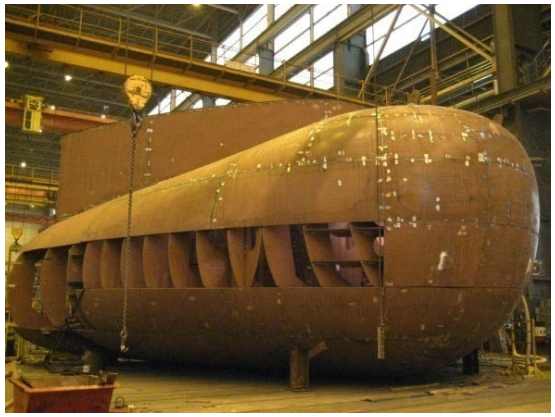
IPHG(U)Z

Spring assembly

Used to protect the crane and the lifting equipment from the great impact of the press.



At shears and bending machines, with springs.

IPPE

WLL per pair: 3 - 12 t IPPEB (0-180 mm)

WLL per pair: 3 - 12 t IPPED (0-300 mm)

WLL per pair: 3 - 12 t IPPEH (0-420 mm)

FOR LIFTING AND TRANSFER OF BUNDLES OF PLATES

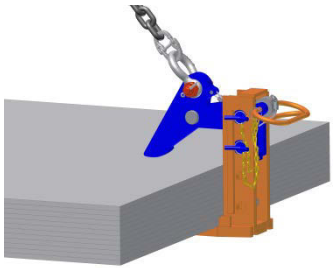
The IPPE is suitable for the lifting and transfer of bundles

of non-sagging steel plates in horizontal position.

The jaw opening can easily be adjusted. Raising the handle opens the clamps. This facilitates the easy and quick placing or removing of the clamps.

Must be used in pairs or more.

IPPE



IPPE

fig. 2

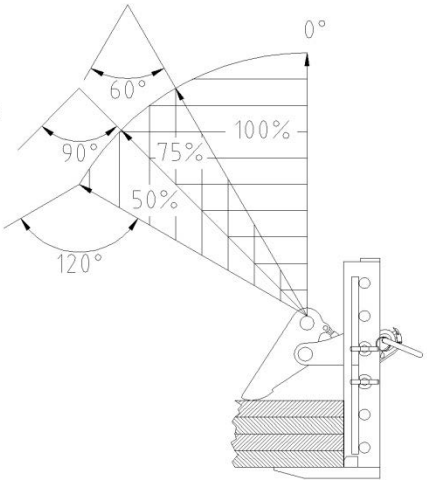
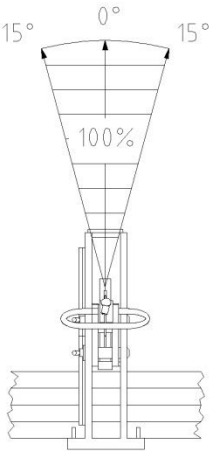


fig. 3



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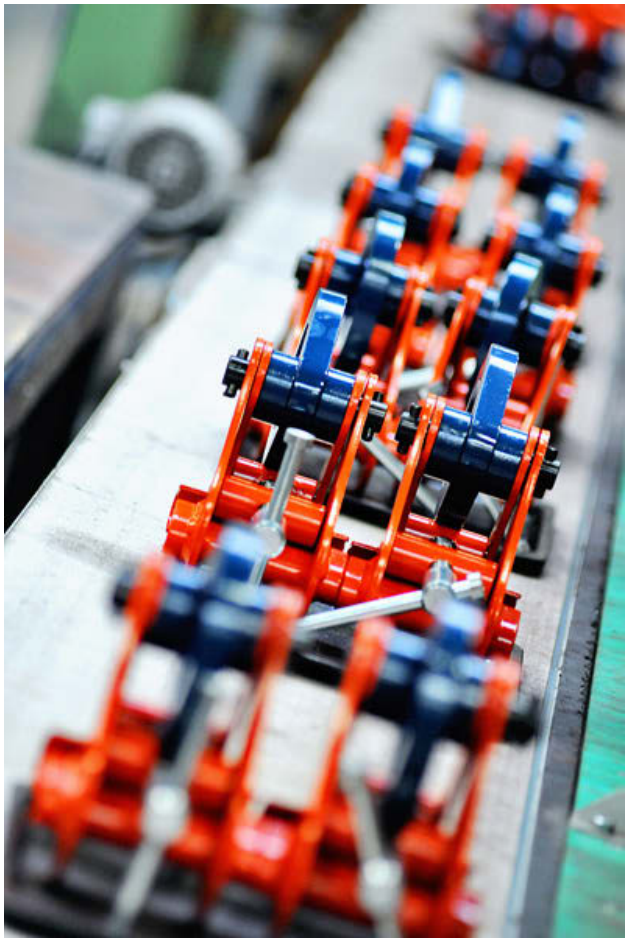
HORIZONTAL TRANSPORT OF BEAMS

- IPTKU - IPTKUD
- IPBKZ
- IPBHZ
- IPBSNZ
- IPSTARTEC11



IPTKU - IPTKUD

WLL: 2 – 10 t IPTKU

IPTKU

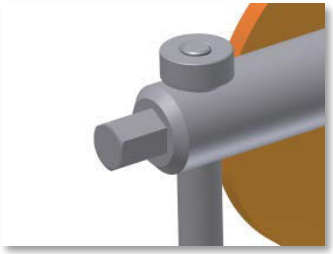
IMPROVED UNIVERSAL BEAM CLAMP

Suitable as a temporary tackle eye for a beam, lifting clamp and as a lashing clamp. The hinged and enlarged lifting eye increases the loading angles.

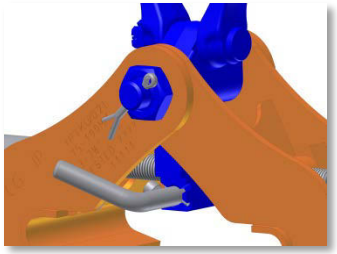
The IPTKU clamp is designed with a hexagon-head handle that allows easy opening and closing with a wrench (pneumatic or electrical) and optional a second locking device (IPTKUD). Frame can be galvanized.

Also available: IPTKUM for personal fall arrest. Sheradised and with double locking

IPTKUM

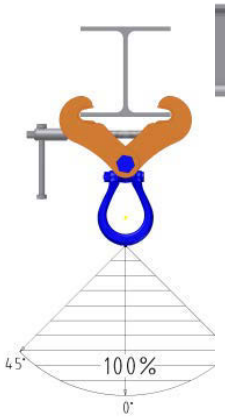


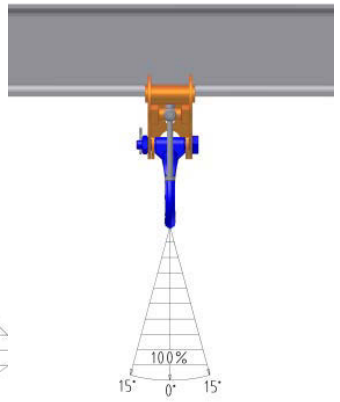
Hexagon-head handle



Double locking

IPTKU





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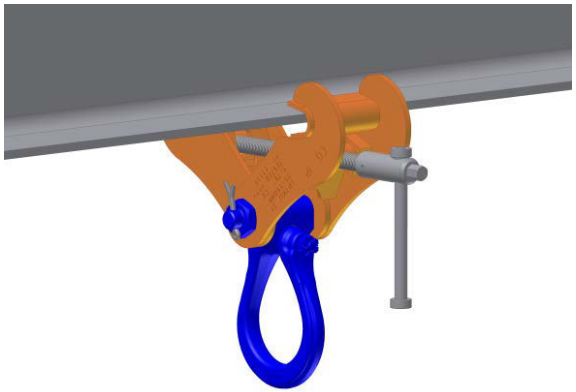
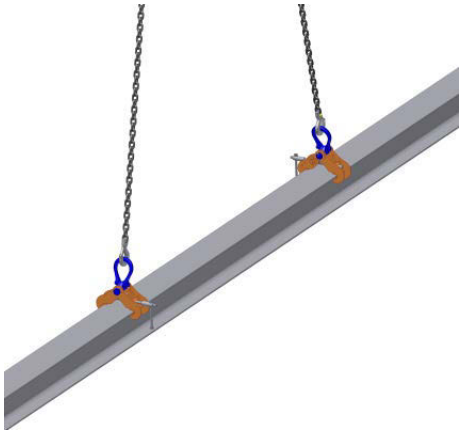
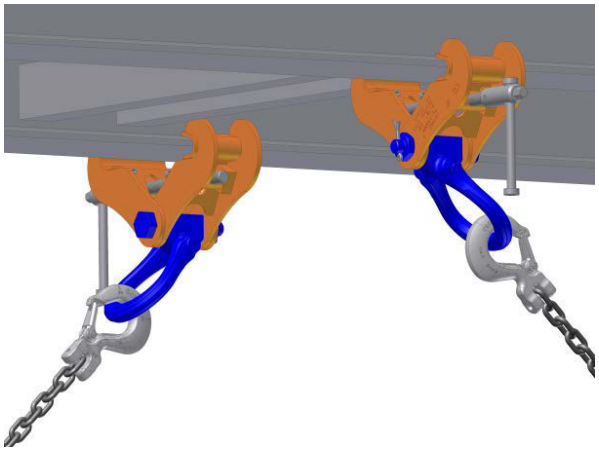
IPTKU



IPTKU tackle eye



IPTKU lifting clamp



IPTKU lashing clamp

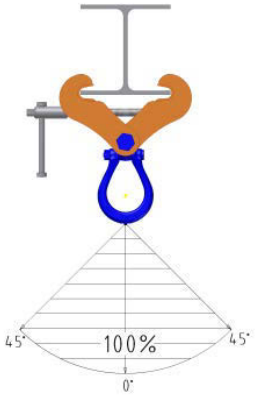
IPTKUM

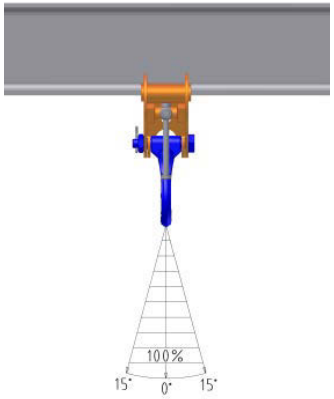
PERSONAL FALL ARREST

The IPTKUM is suitable as an anchor device for 1 person, for the attachment of components forming part of a personal fall arrest protection system.

Galvanised (sheradised) frame and supplied with a double locking device.

Supplied with test certificate according to; EN 795:1996-07





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IČ: 25358511 DIČ: CZ25358511

IPBKZ

WLL: 0,75 – 3,75 t IPBKZ

FOR THE TRANSFER AND STACKING OF STEEL BEAMS

The IPBKZ beam clamp is used for lifting, transfer and stacking of H & I-Beams with the flange to remain in vertical position. This is created through an over-center lifting eye. This series of clamps can be used for vertical lifting and horizontal moving of beams, angles, etc., with the flange in vertical position, depending on the application desired.

IPBKZ

IPBKZ

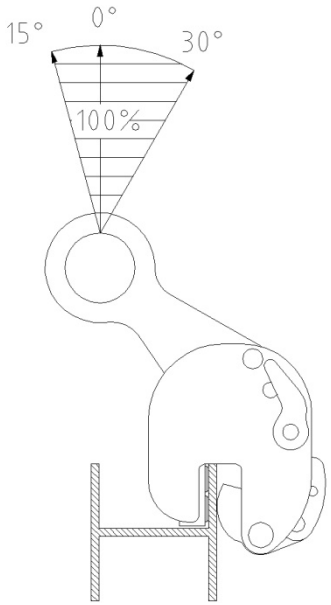
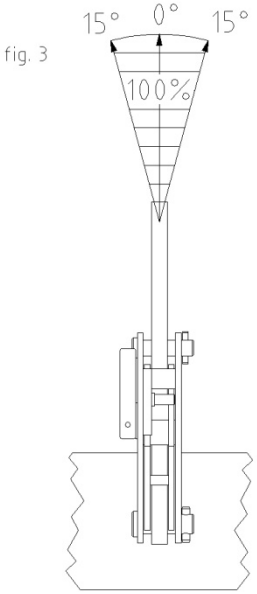


fig. 3



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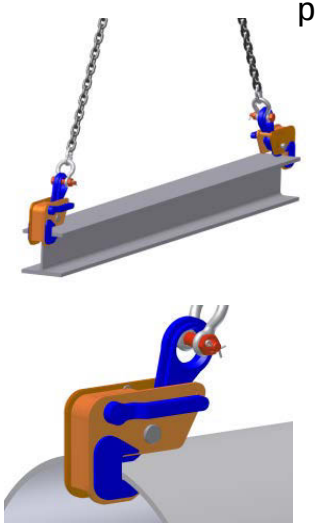
IPBHZ

WLL: 0,75 – 12 t IPBHZ

FOR THE LIFTING AND TRANSFER OF STEEL BEAMS

The IPBHZ beam clamp is used for horizontal lifting and transfer of steel beams. The base is slotted to allow the clamps to be used from end of beams as well as from the flange. This series of clamps can be used in the vertical and horizontal lifting, transfer and stacking of different types of structural designs, such as I-Beams, H-Beams, angles, etc., depending on the application desired. Also for handling large pipe sections.

IPBHZ



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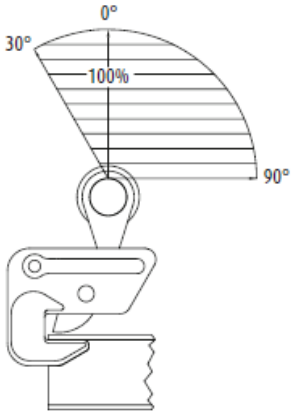

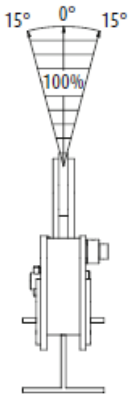

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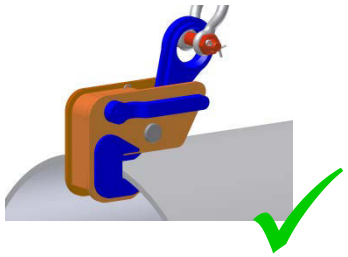
HORIZONTAL BEAM TRANSPORT

IPBHX special clamp

for lifting and transfer of pipes and tubes



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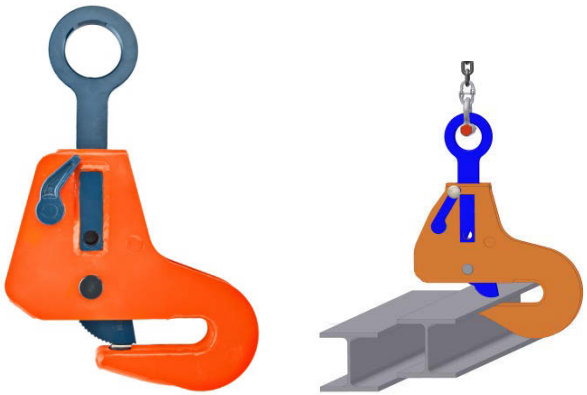
IPBSNZ

WLL: 1,5 – 4,5 t IPBSNZ

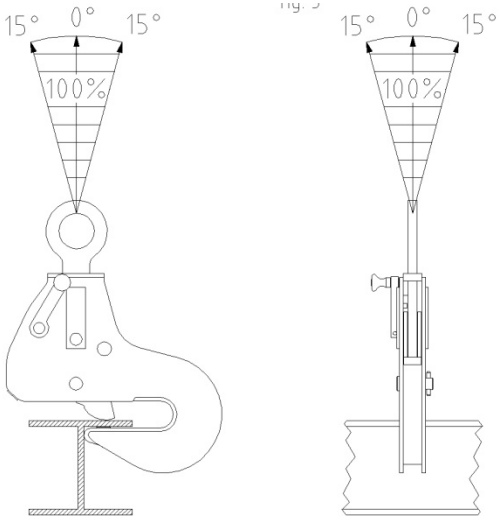
FOR THE LIFTING, TRANSFER AND STACKING OF STEEL BEAMS

The IPBSNZ beam clamp is used for lifting, transfer and stacking (the hoisting eye allows for level lifts) of beams in the I-position. Also for lifting fabrications and ship sections. Can be used in the vertical lift and horizontal moving, transfer and stacking of different types of structural designs, such as I-Beams, depending on the application desired.

IPBSNZ



IPBSNZ



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IPSTARTEC11

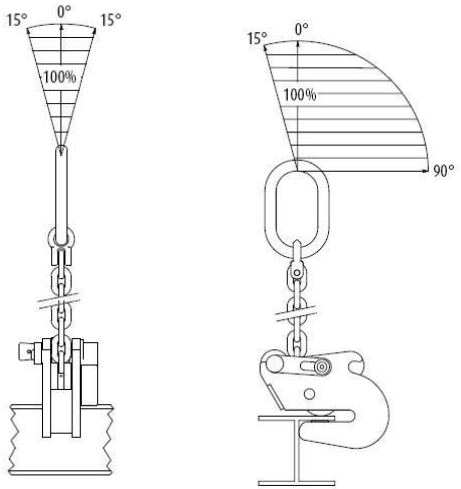
WLL: 1,5 – 2,5 t IPSTARTEC11

FOR CONTROLLED TILTING AND TRANSPORT

The IPSTARTEC11 beam clamp has been specially designed for lifting with the web in vertical position, controlled tilting, transportation and stacking of steel “H” and “I” profiles.
By placing the chain guide in the appropriate position, it is easy to switch from lifting to tilting and back again, which shifts the centre of gravity.

IPSTARTEC11

IPSTARTEC11



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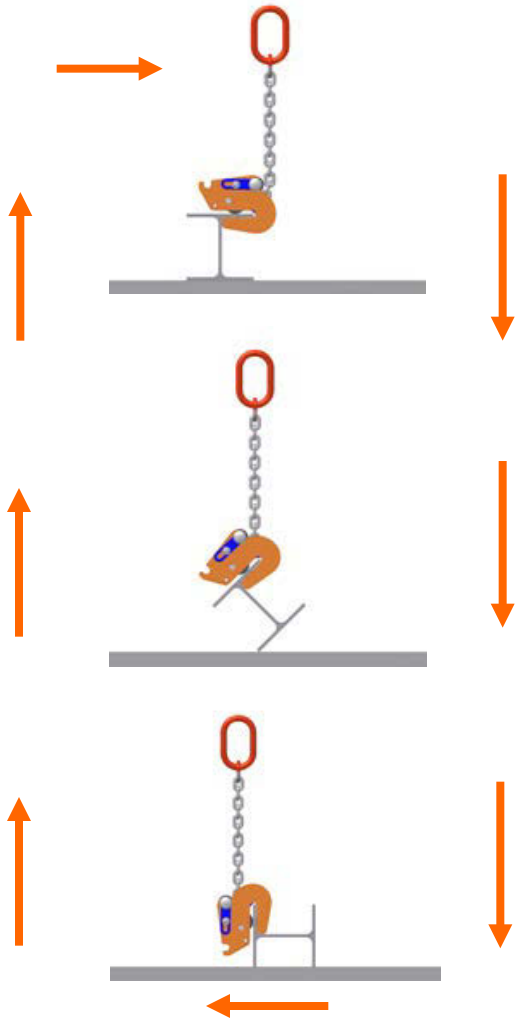
HORIZONTAL BEAM TRANSPORT

Transport IPSTARTEC11

Controlled tilting



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MISCELLANEOUS

- IPVK
- IPDV
- IPCC
- IPBUZ - IPBUUZ
- IPSBU(U)Z - IPSBUS(U)Z
- IPBTO10
- IPSE
- IPSC

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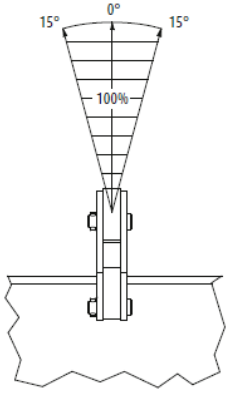
STANDARD RANGE – DRUM CLAMPS

IPVK

WLL: 0,5 t

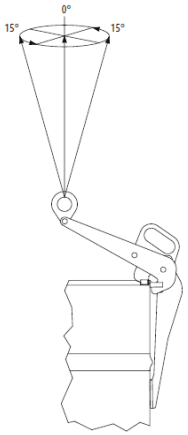
The IPVK drum clamp is for vertical lift and transfer of 215 to 225 liter drums with steel tops (50-55 gallon). Automatically locks on drum.
Can be used separately or in pairs.



IPDV

WLL: 0,5 t

The IPDV drum clamp is for vertical lift and transfer of 215 to 225 liter drums with steel tops (50-55 gallon). Allows drum to remain in an upright position during lift.



IPCC

WLL per pair: 1 t

FOR PIPE SECTIONS

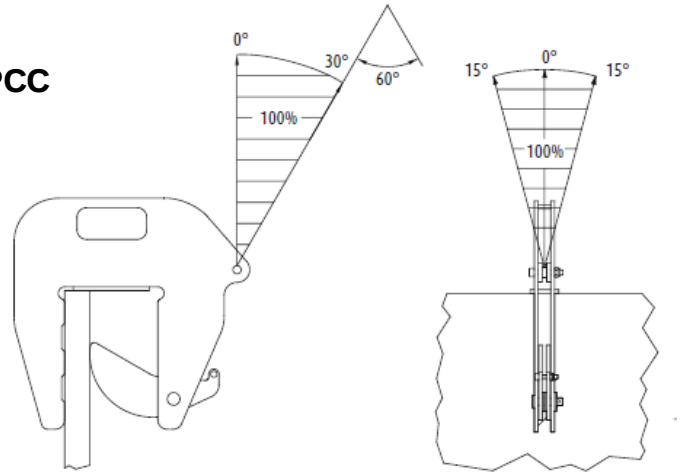
The IPCC is suitable for vertical lifting and transfer of concrete pipe sections and wells. Very easy application and removal of clamps thanks to the built-in carrying-grips.

These clamps must be used in pairs or more.

Normally used with 7 mm chain (not included).

IPCC

IPCC



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IPBUZ - IPBUUZ

WLL: 0,75 – 3,75 IPBU(U)Z

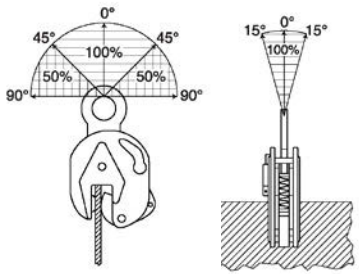
IPBU(U)Z

FOR BULB PROFILES

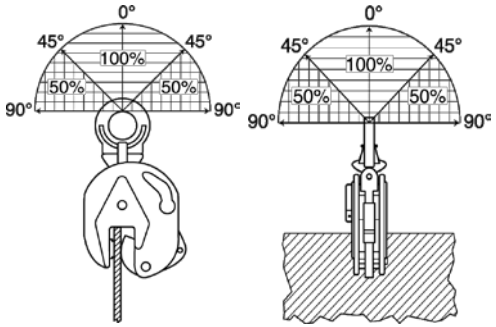
The IPBU(U)Z shipbuilding clamps are used for the lifting, transfer and placing of bulb profiles onto ship sections perpendicularly. These clamps are fitted with a locking device for both open and closed positions, which ensures complete reliability.

To be used exclusively for bulb profiles (not for plates).

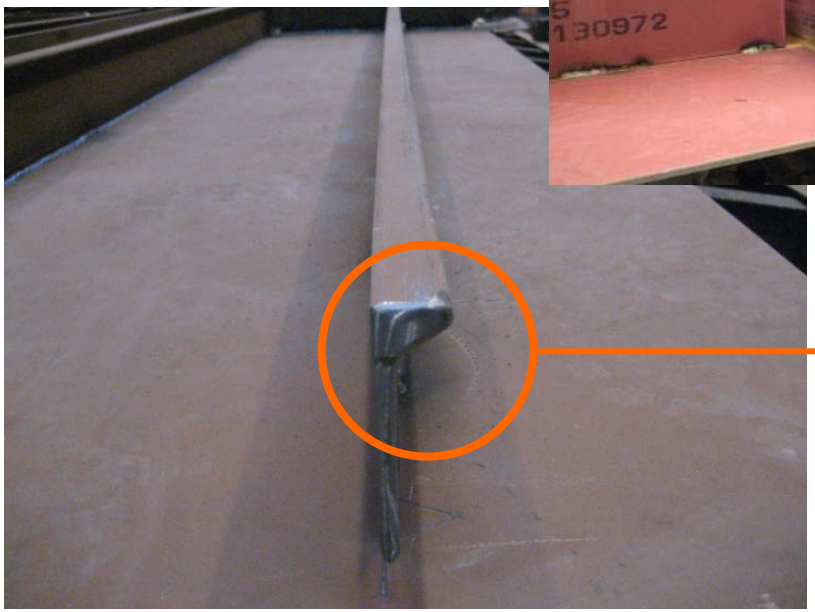
IPBUZ

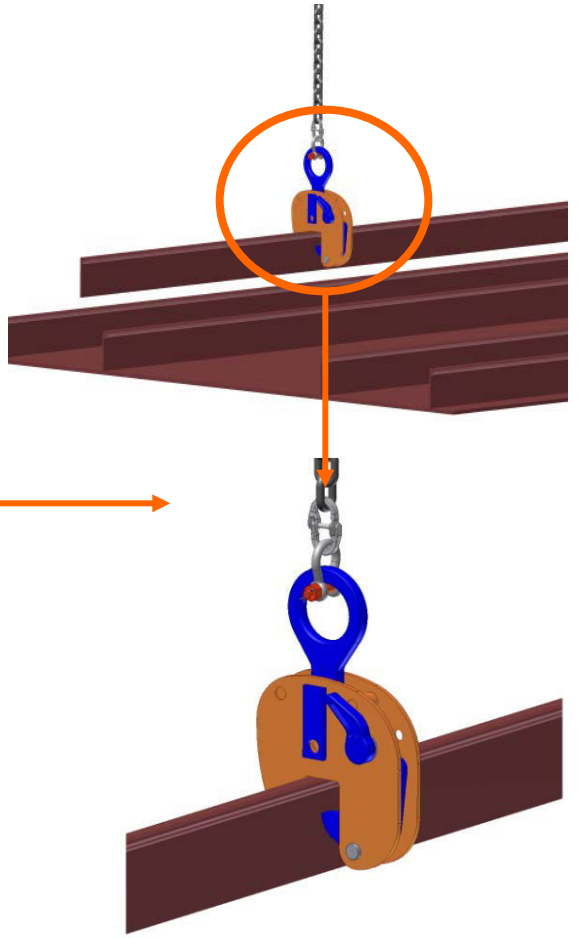


IPBUUZ



STANDARD RANGE – SHIPBUILDING CLAMPS





To be used exclusively for **bulb profiles** (not for plates).

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IPSBUZ - IPSBUUZ

WLL: 4,5 – 9 t IPSBU(S)UZ

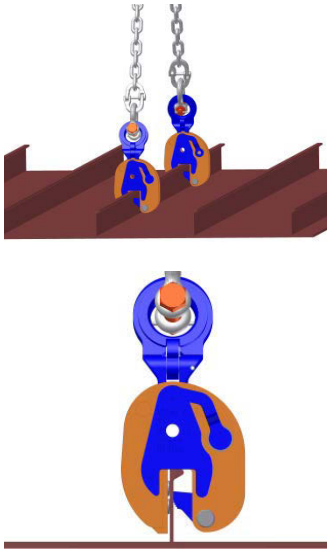
WLL: 4,5 – 22,5 t IPSBU(S)Z

FOR SHIP SECTIONS

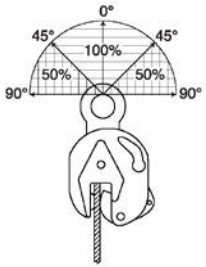
The IPSBU(S)(U)Z shipbuilding clamps are used for the lifting, transfer and placing of bulb profiles onto ship sections perpendicularly. These clamps are fitted with a locking device for both open and closed positions, which ensures complete reliability.

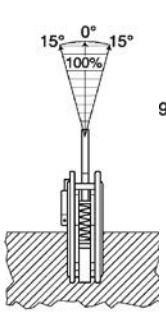
To be used exclusively for bulb profiles (not for plates).

IPSBU(U)Z

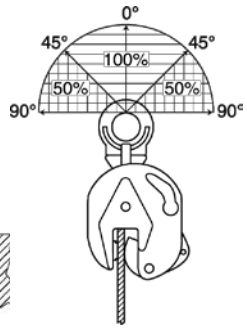


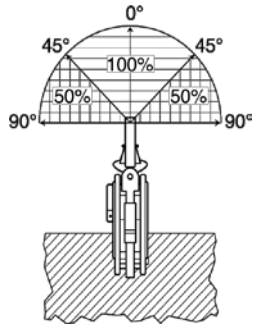
IPSBU(S)Z





IPSBU(S)UZ





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IPSBU(U)Z

WLL: 4,5 – 9 t IPSBU(S)UZ

WLL: 4,5 – 22,5 t IPSBU(S)Z

IPSBU(U)Z

Transport of ship section by using IPSBUSUZ lifting clamps.

STANDARD RANGE – SHIPBUILDING CLAMPS

Temporary lifting eyes are attached to the deck plates to enable transport. After transport the lifting eyes are removed again.

= Time consuming.

IPSBUUZ

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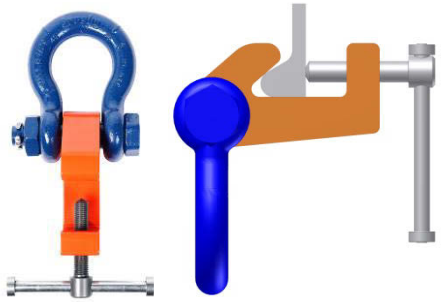
IPBTO10

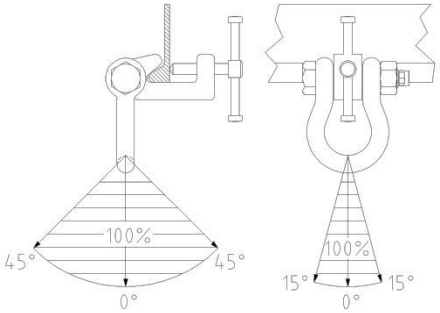
WLL: 1,5 – 6 t



The IPBTO10 is used as a temporary tackle eye in spaces which have been reinforced with HP (bulb) profiles such as engine rooms and ship sections.

Fitted with screwed spindle for easy attachment of the clamp.

Clamp automatically fixes when load is applied.



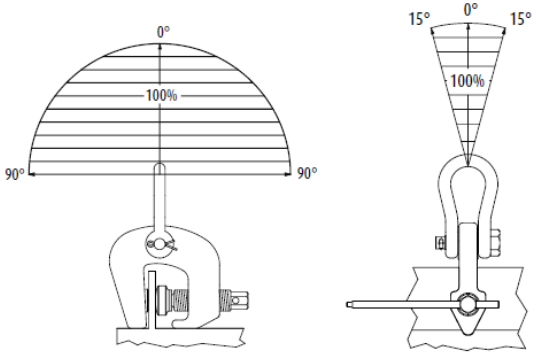
IPSC

WLL: 1,5 – 3 t

The IPSC screw style clamp is for positioning and pulling of plates or fabrications.

Not to be used as a lifting clamp!

For steel with a surface hardness up to 30 HRC.



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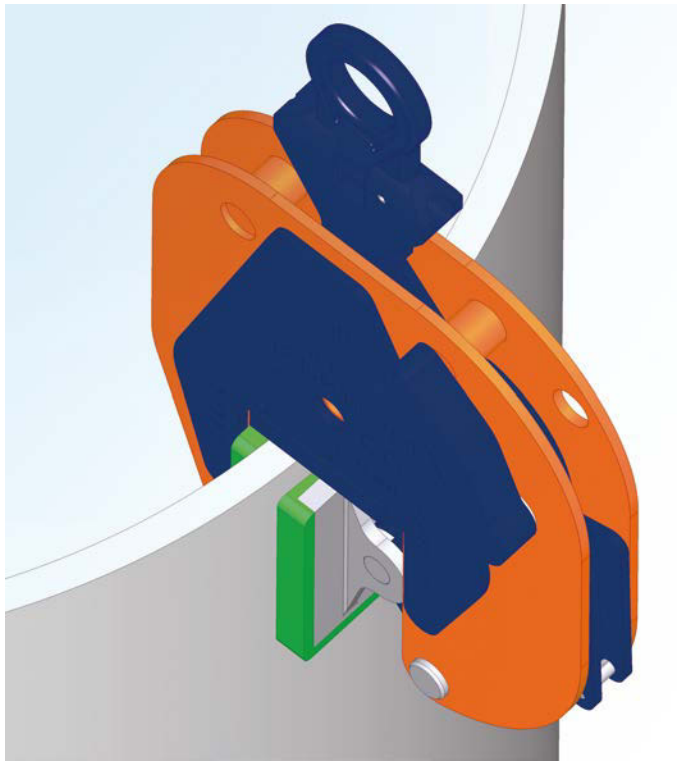

IPNM10JC (Jaw Curved)

Also available the special IPNM10JC, designed for lifting very hard surfaces.

The curved jaws makes it suitable for pipes and tubes, without marring the surface of the material.

Dimensions upon request.

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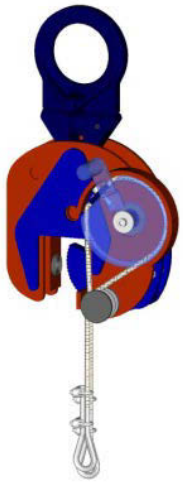
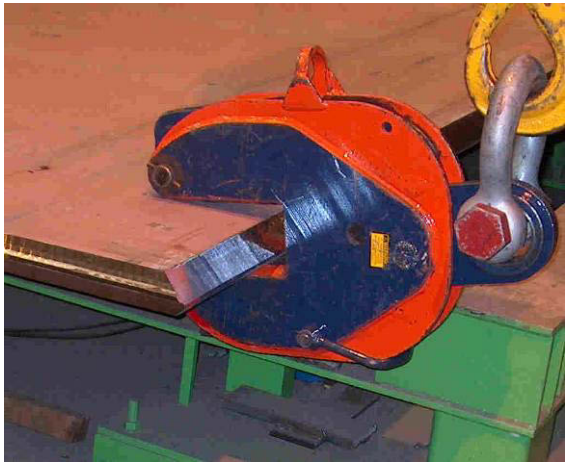
REMOTE CONTROLLED CLAMP

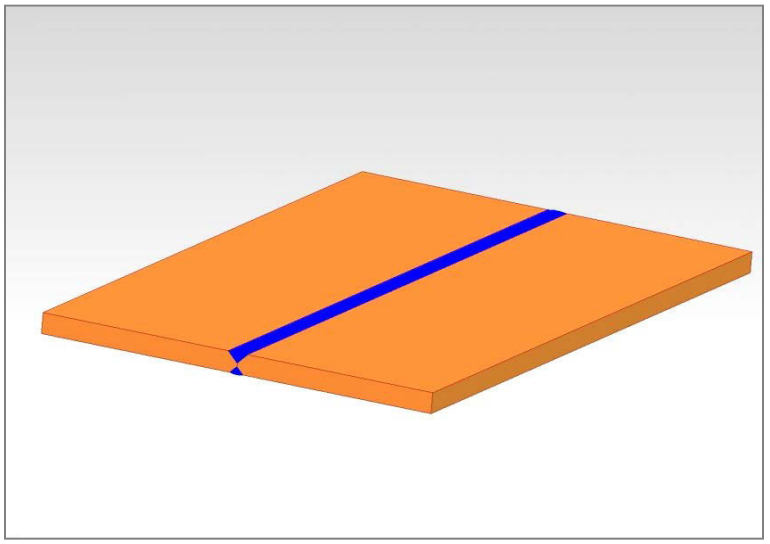
The IP(U)10R is specially designed to be opened and closed from a distance with a rope, attached to the clamp.

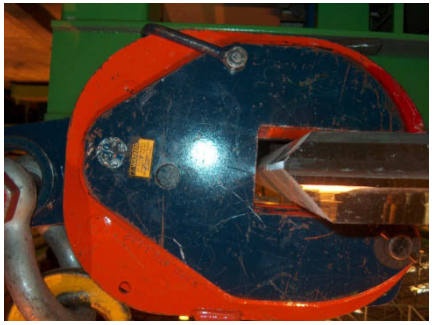


DEEP JAW opening

The IP(U)10J2 is designed to grab over a beveled edge to ensure maximum grab and reliability.







IP(U)10J2

Clamp specially designed to transport very thick plates with a large beveled edge.

Clamp has an extra deep jaw because of the large beveled edge. The deep jaw is designed to prevent the plate from moving within the jaw.

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ALUMINUM BILLET CLAMPS

The IPSNX clamp is manufactured for lifting aluminum billets out of the pit and turn the billet into a horizontal position.
Not to be used to pick up the billet in the horizontal position.

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BILLETS

The 5 IPNX has specially been developed for lifting round billets.

MINIMAL MARRING

The IPGNS is a minimal marring clamp for WLL up to 6t, with either steel or stainless steel clamping plates which allows the clamp to be used in wet circumstances.

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SHIP SECTIONS

For lifting big ship sections by gripping on the web of the beam (instead of the flange).

The IPSE is able to lift up to WLL 50 t.

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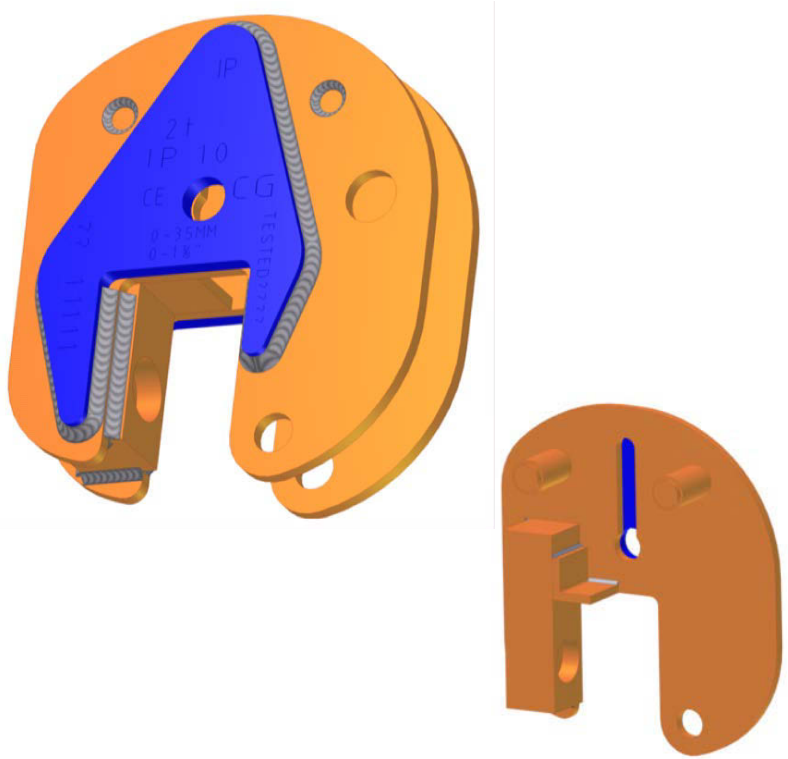
IPGNS

- Top quality
  - Durable
  - 100% proof tested at 2x WLL
  - Welded body
  - Fewer parts
  - 10 years warranty (Not in USA)
- Body and main parts are traceable (serial number)
- Marking with minimum and maximum WLL, CE, jaw opening, serial number
- User friendly
  - Compact and ergonomic
  - Lighter weight
- Easy repair
  - Fewer parts
  - Easy to dissamble/reassemble
  - Availability of parts and kits
  - Tolerance lists available for repair (through factory trained repair personnel)
- RFID equipped
- Broad product line
- Development of specials on request
- Product innovations



Reinforced welded body:

Because of a welded frame the clamp is more robust and lighter weight thru the use of alloy steel plate.

Besides it is easy to disassemble/reassemble.

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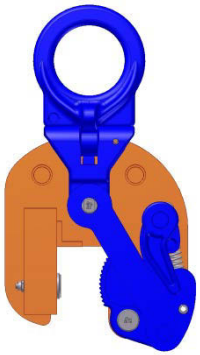
All vertical lifting clamps are equipped with "Lock Open / Lock Closed" feature that allows pretension before lifting.

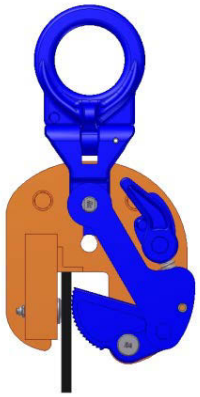
Pretension:

All vertical clamps have pretension.



Latch:

The design of the latch shows when the clamp is in the "Lock Open" or Lock Closed" position. When the latch is in the closed position, it is in-line with the frame, avoiding interference with the load.



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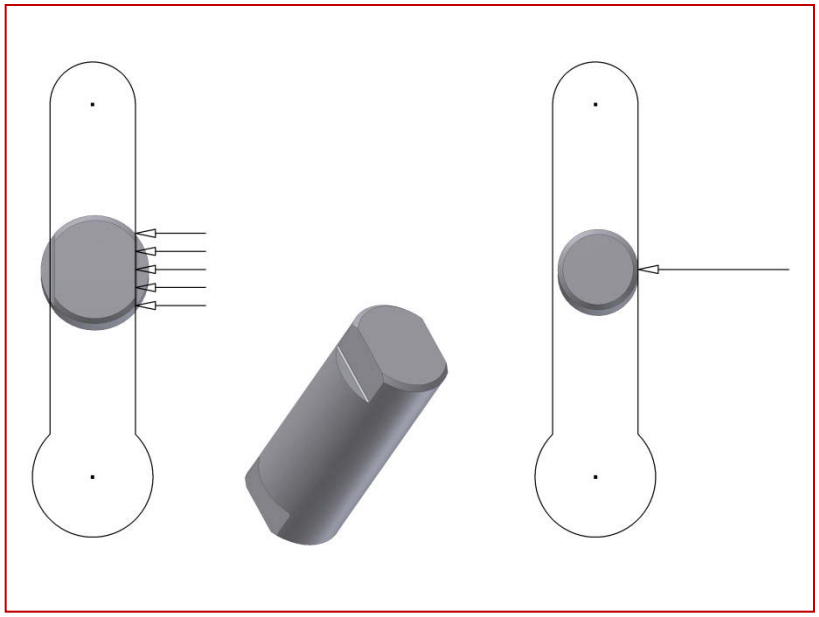
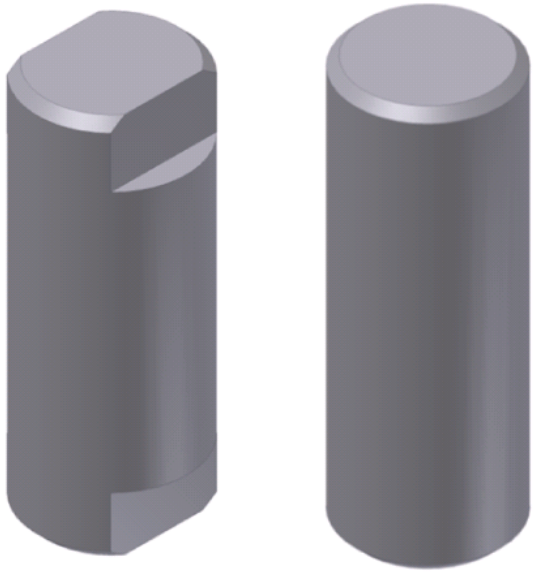
"Machined Flats" on lifting eye shaft



CrosbyIP *Others*



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Crosby iP LIFTING CLAMPS

Safety first! / La sécurité avant tout!

General / Généralités

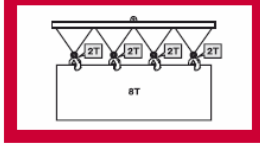
Steel HRC = 37 / Acier de dureté HRC = 37
Stainless steel = 37 / Acier inoxydable de dureté = 37
Extra hard steel > 37 = 47 / Acier de grande dureté entre 37 HRC et 47 HRC
Non Marring / Non marquantes

- Minimum load is 10% of clamp's rated W.L.L.
- Charge mininale autorisée: 10% de la C.M.U. nominale de la pince

Round surfaces / Surfaces rondes

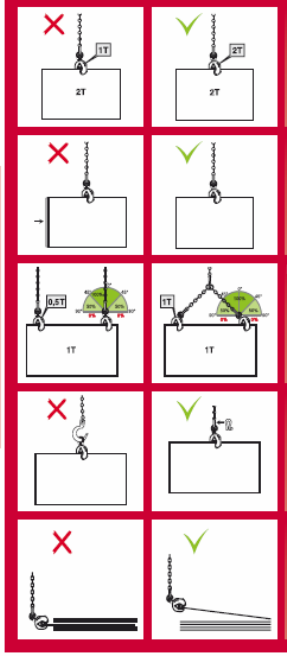
W.L.L. (t) C.M.U. (t)	Clamp Pince	Min. diameter Diamètre min.	Min. material thickness Epaisseur mini. du matériel
2	IP5310	round 400 mm	30 mm
3	IP5310	round 600 mm	40 mm
4.5	IP5310	round 600 mm	40 mm
6	IP5310	round 600 mm	50 mm

Vertical and horizontal lifting / Levage vertical et horizontal



- Determine Center of Gravity, and ensure the load is proportionally divided over the clamps
- Après avoir déterminé le centre de gravité, vérifier que la charge est également répartie entre les pinces.

Vertical transport / Levage vertical

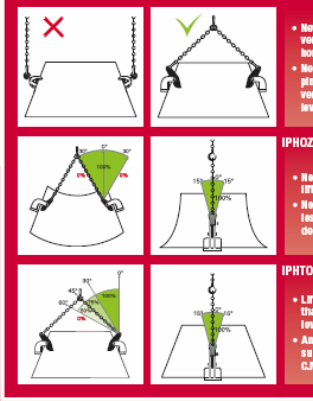


- Never exceed the W.L.L.
- Ne jamais dépasser la C.M.U.
- Never lift more than 1 plate at a time
- Une seule plaque par levage

IPU
- Lifting angle larger than 45° = lower W.L.L. by 50%
- Angle de levage supérieur à 45° = C.M.U. à réduire de 50%

- Never use a crane hook too large and/or too heavy for the hoisting eye
- Crochet de grue trop grand et/ou trop lourd pour l'oeil de levage
- Never pull plates from under a pile
- Ne jamais essayer de retirer des plaques de la base d'une pile

Horizontal transport / Levage horizontal

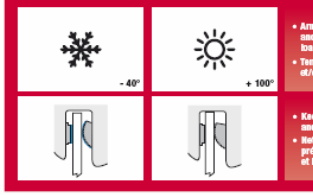


- Never use a vertical clamp for horizontal lifting
- Ne jamais utiliser une pince de levage vertical pour un levage horizontal

IPHOZ
- Never exceed lifting angles
- Ne jamais dépasser les angles de levage

IPHTONZ / IPHSZ
- Lifting angle larger than 45° = lower W.L.L. by 50%
- Angle de levage supérieur à 45° = C.M.U. à réduire de 50%

Maintenance / Maintenance



- Ambient temperature and/or temperature of load material
- Température ambiante et/ou matérius
- Keep gripping surface and load surface clean
- Nettoyer les surfaces de préhension de la pince et la matérius

WARNING:

Read, understand and follow the instructions and the product information in applicable operator's manual before using clamps.
Only trained and competent personnel should install, operate, inspect and repair this equipment. Only use genuine Crosby IP replacement parts.

Lire, comprendre et suivre les instructions d'utilisation du produit figurant dans le manuel d'utilisation avant de faire usage de la pince.
Seules les personnes compétentes devraient pouvoir mettre en place, utiliser, contrôler et réparer cet équipment. N'utiliser que les pièces de rechange IP d'origine.

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General

Steel

HRC < 37

Stainless steel

HRC < 37

Extra hard steel

HRC < 47

Non Marring

HRC > 47

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PROPER USE OF CLAMPS

Minimum working load:

5 % of stated WLL up to 27 HRC
10 % of stated WLL up to 37 HRC

10 % of stated WLL up to 47 HRC

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PROPER USE OF CLAMPS

Round surfaces

WLL (t)	Clamp	Min. inside diameter	Max. wall thickness
0,5	IP(U)10	Round 160 mm	16 mm
1	IP(U)10	Round 160 mm	20 mm
2	IP(U)10	Round 400 mm	30 mm
3	IP(U)10	Round 600 mm	40 mm
4,5	IP(U)10	Round 600 mm	40 mm
6	IP(U)10	Round 600 mm	50 mm

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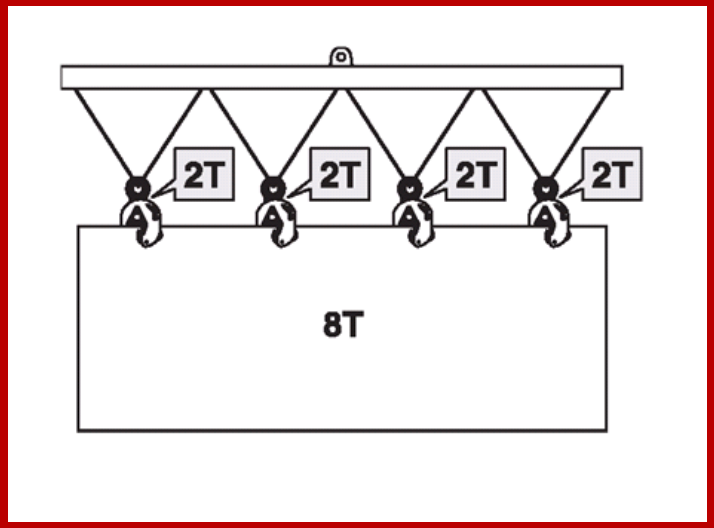

Use of multiple clamps

Determine Center of Gravity and ensure the load is proportionally divided over all clamps

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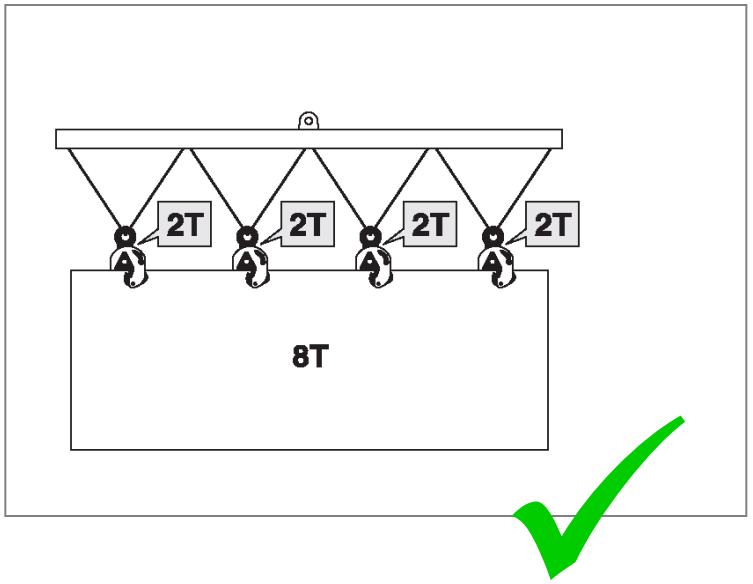
PROPER USE OF CLAMPS



Use an equalizing beam to ensure an equal share of load to all clamps.

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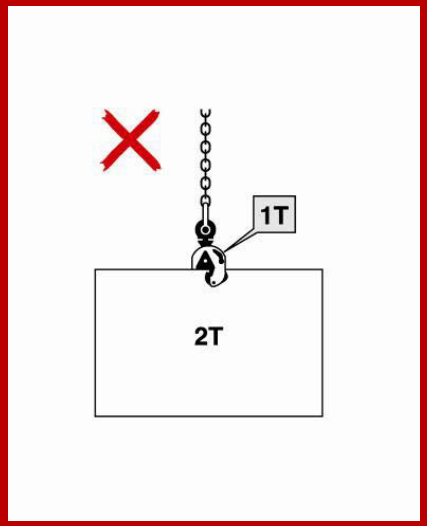
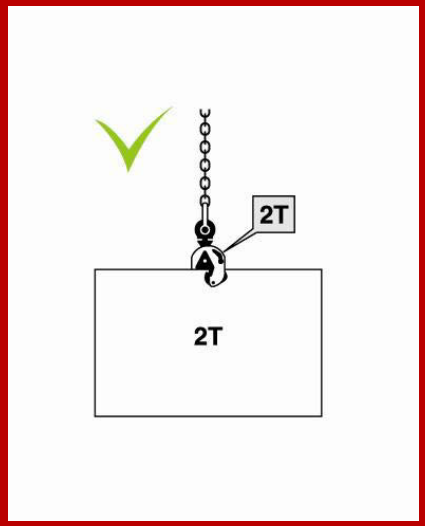
PROPER USE OF CLAMPS





Vertical transport

Never exceed the WLL

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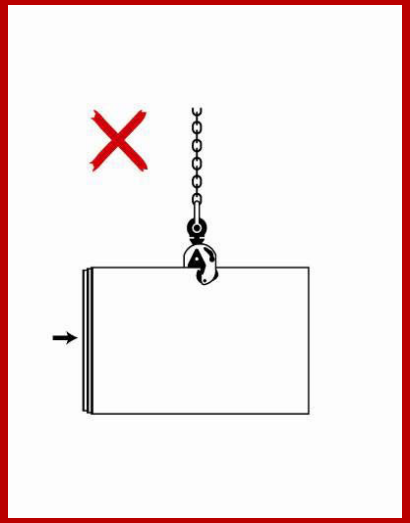
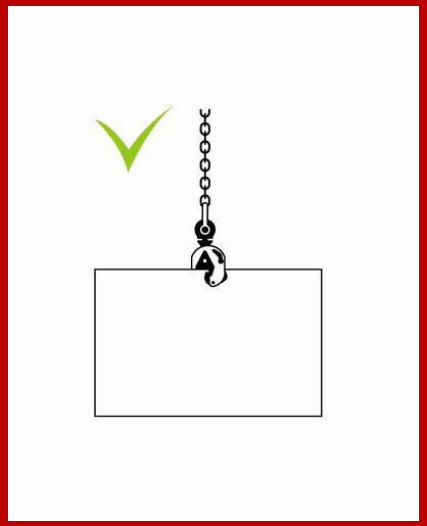
PROPER USE OF CLAMPS





Vertical transport

Never lift more than 1 plate at a time

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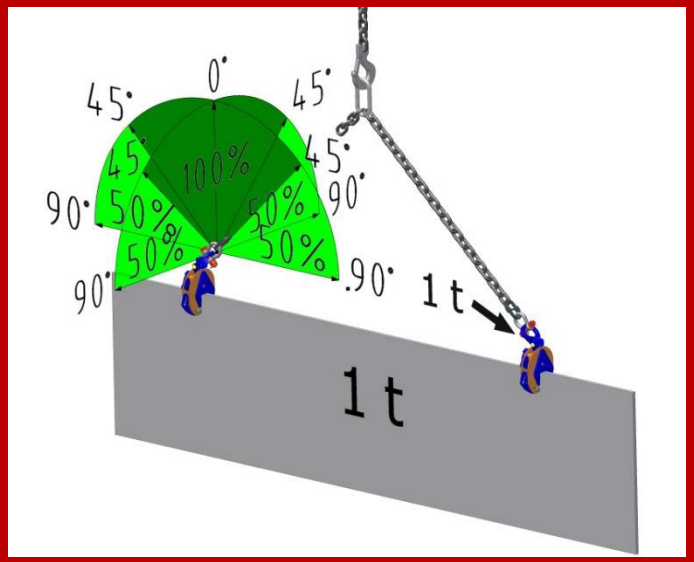
PROPER USE OF CLAMPS



IPU10 Vertical transport

Lifting angle larger than 45° ?

= lower WLL by 50 %

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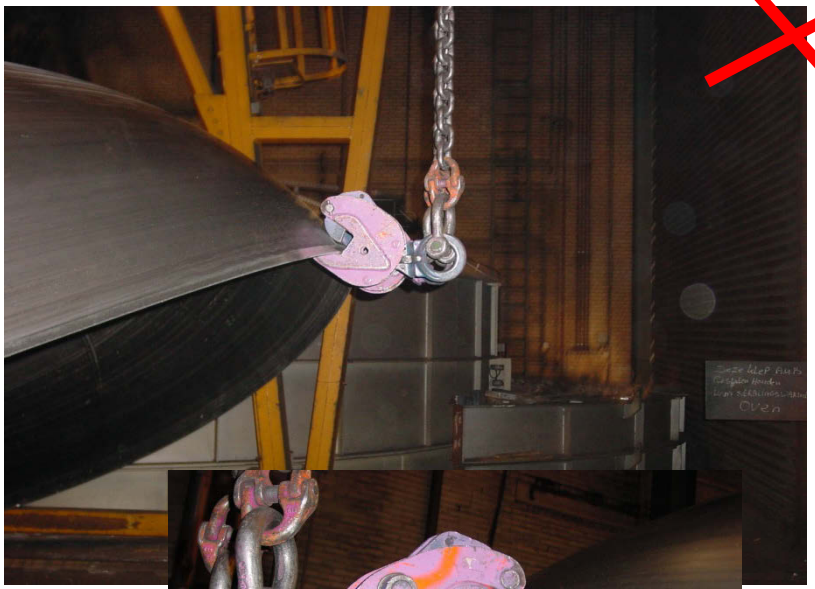
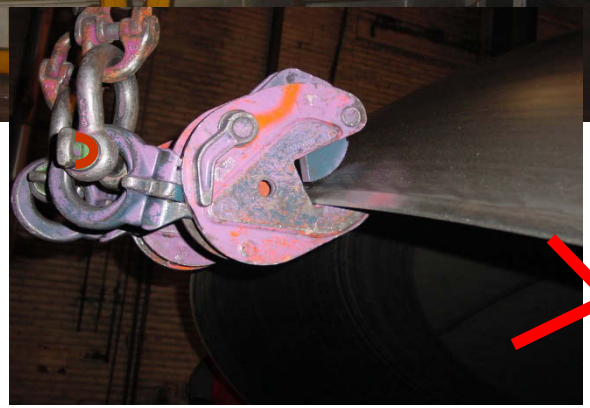
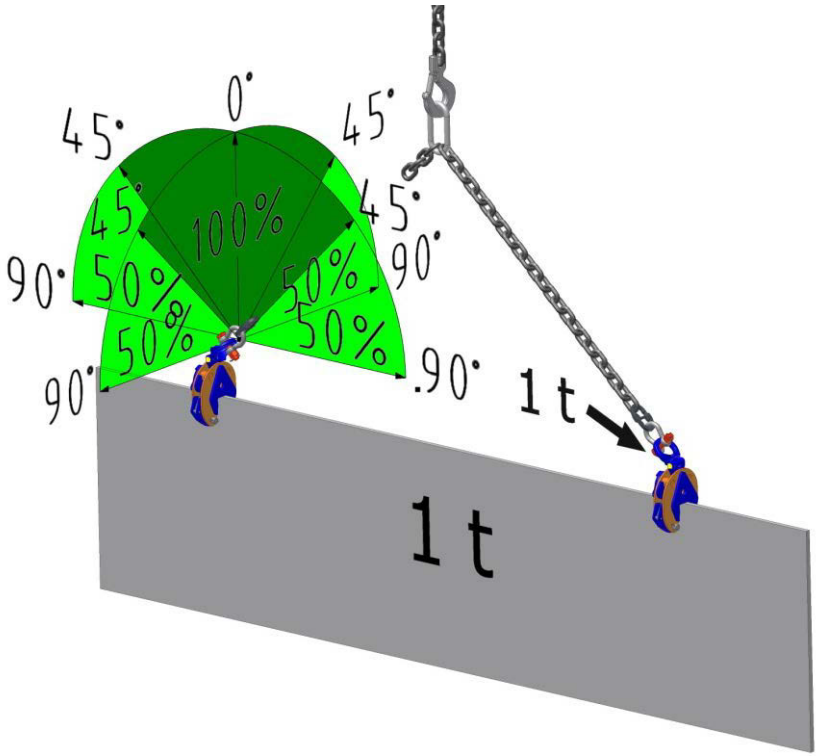
PROPER USE OF CLAMPS

Do not **overload** by **exceeding lifting angles** !

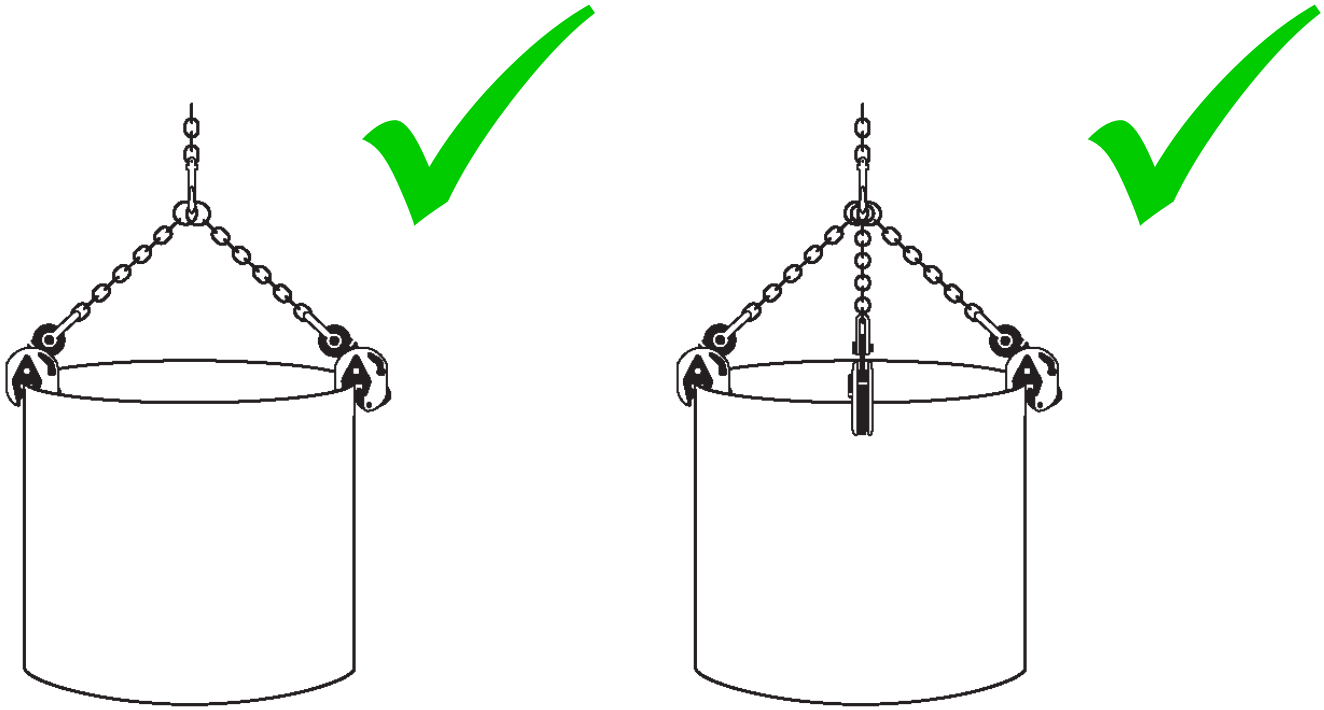






IPU10

Lifting angles



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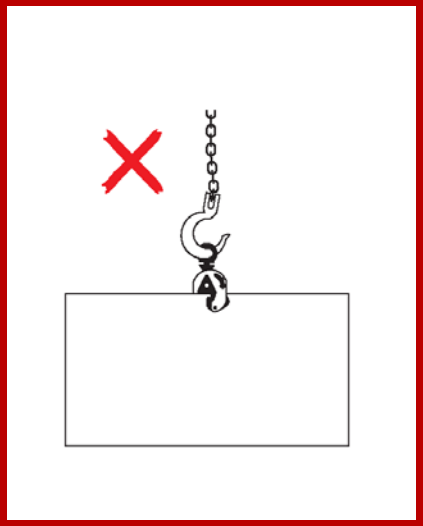
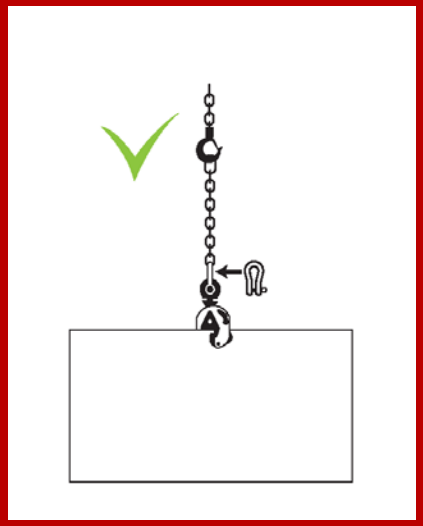
PROPER USE OF CLAMPS





Vertical transport

Never use a crane hook which is;

- **too large and / or**
- **too heavy for the lifting eye**

The weight could open the clamp.

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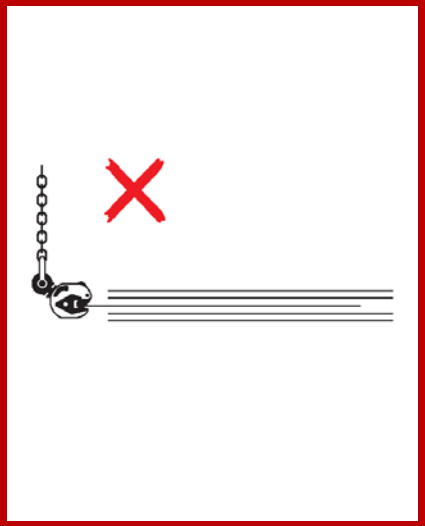
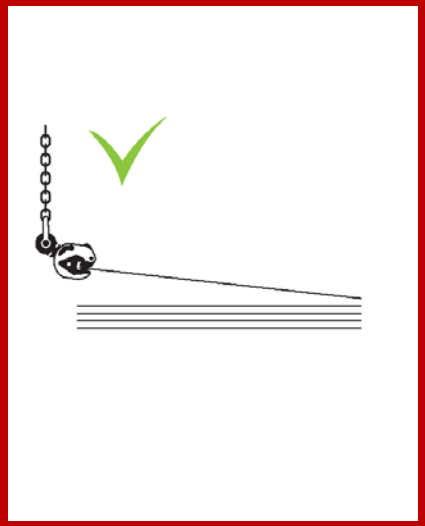
PROPER USE OF CLAMPS





Vertical transport

Never pull plates from under a pile

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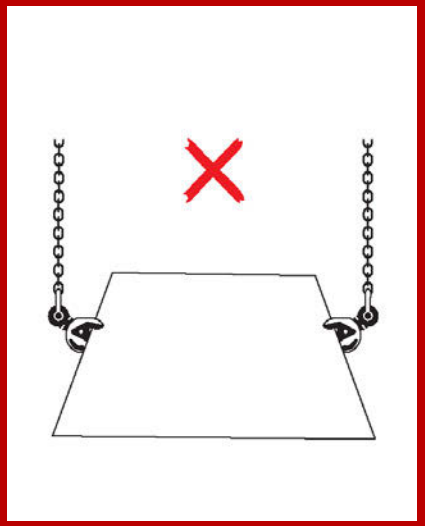

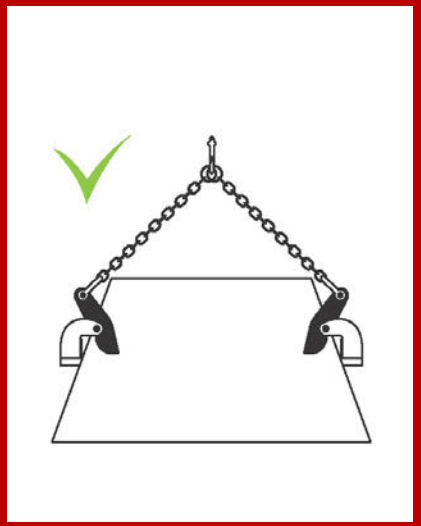

Horizontal transport

Never use a vertical clamp for horizontal lifting

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PROPER USE OF CLAMPS

Never use a **vertical clamp** for **horizontal lifting** !

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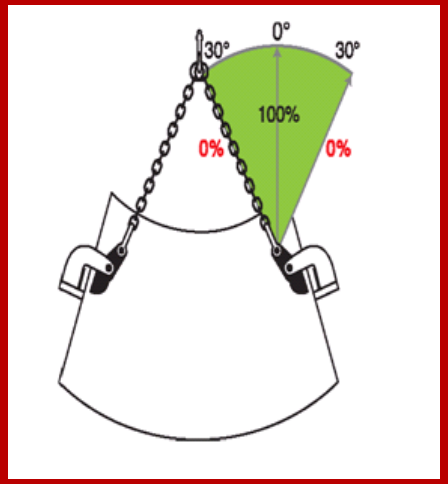

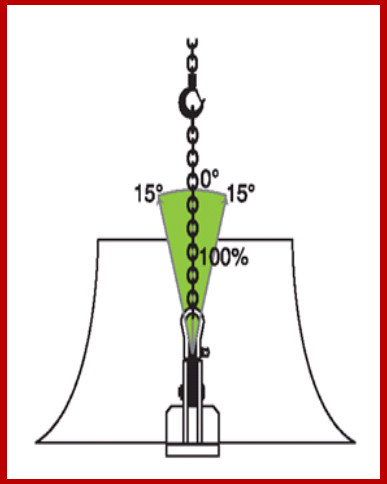

Horizontal transport

Sagging Plates

Never exceed lifting angles

IPHOZ

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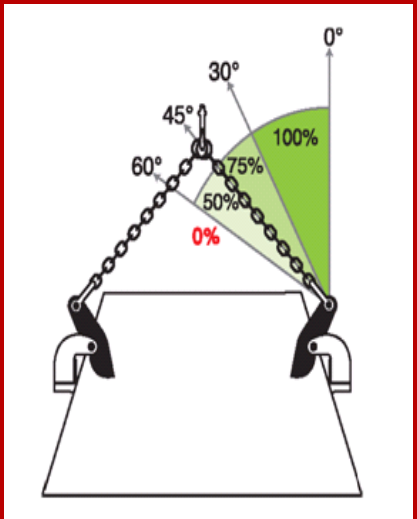

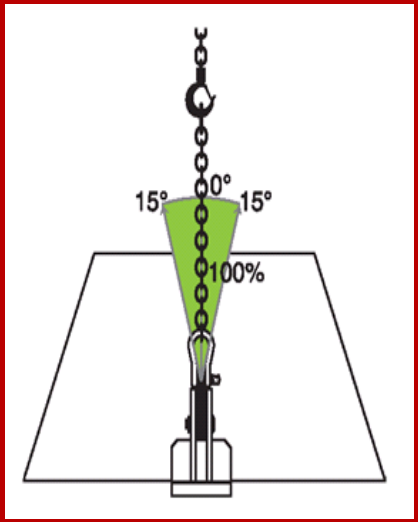

Horizontal transport

Non sagging Plates

Lifting angle larger than 45° = lower WLL by 50%

IPH10 Series

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Maintenance

- 40° C (-40° F)

+ 100° C (212° F)

Ambient temperature and/or temperature of load material

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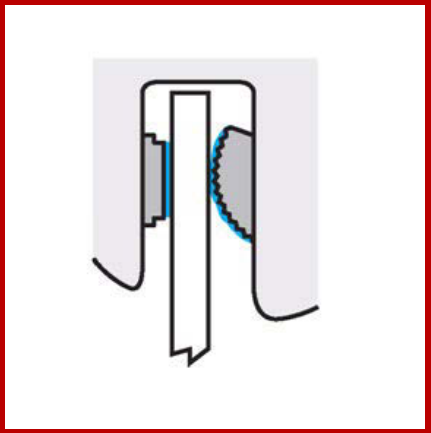

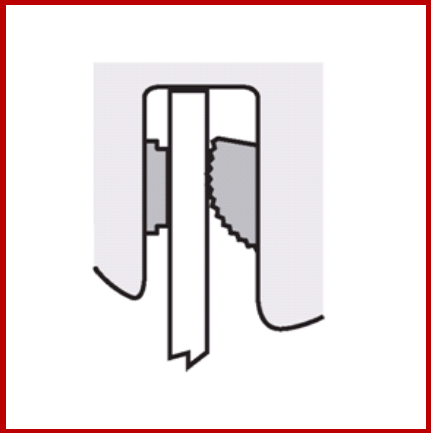

Maintenance

Keep gripping surface and load surface clean

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PROPER USE OF CLAMPS

Read, understand and follow the **instructions** and the **product information** in applicable user manual before using the clamps (per EN13155 and ASME B30.20).

Only **trained** and **competent personnel** should install, operate, inspect and repair this equipment.

Only use **genuine** CrosbyIP replacement **parts**.

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PROPER USE OF CLAMPS

Be sure to work with a real CrosbyIP clamp!

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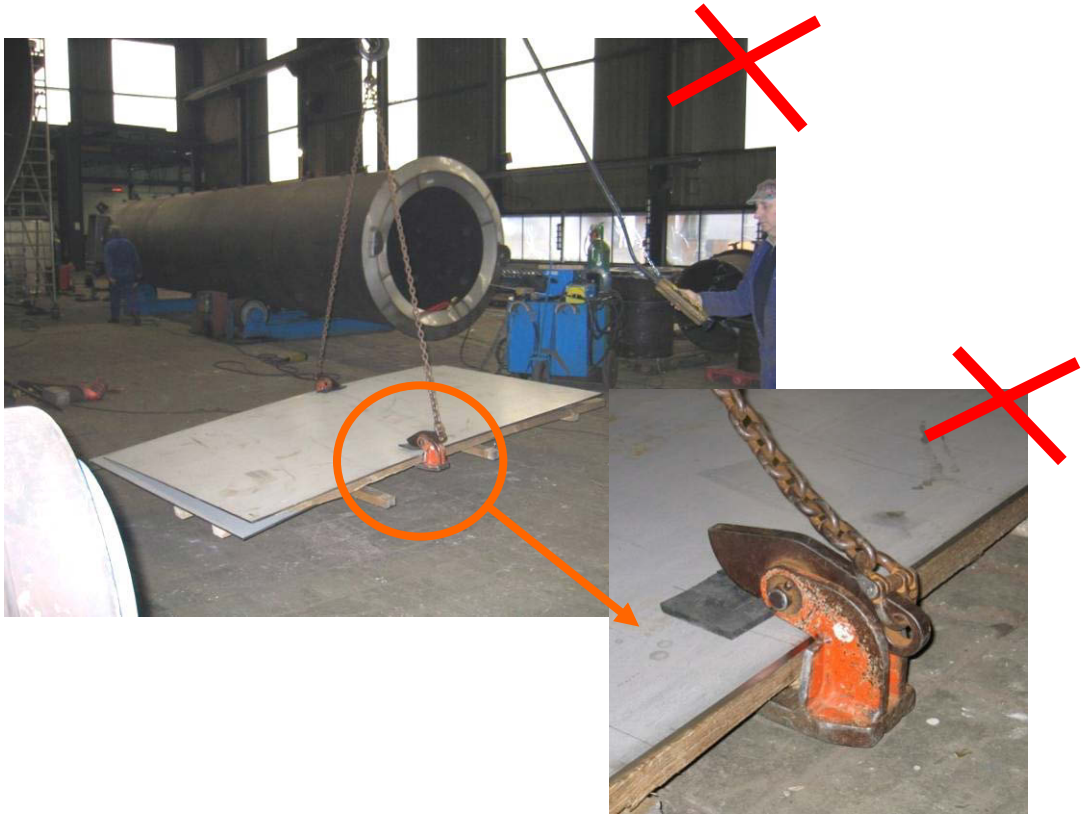
PROPER USE OF CLAMPS

Always use the right clamp for the right application!



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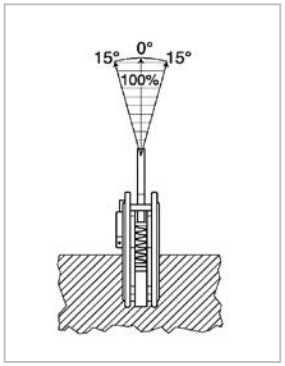
PROPER USE OF CLAMPS

Masterlink too small.

Lifting angle exceeded
15° for IP10



IP10

No latch in the chain hooks.

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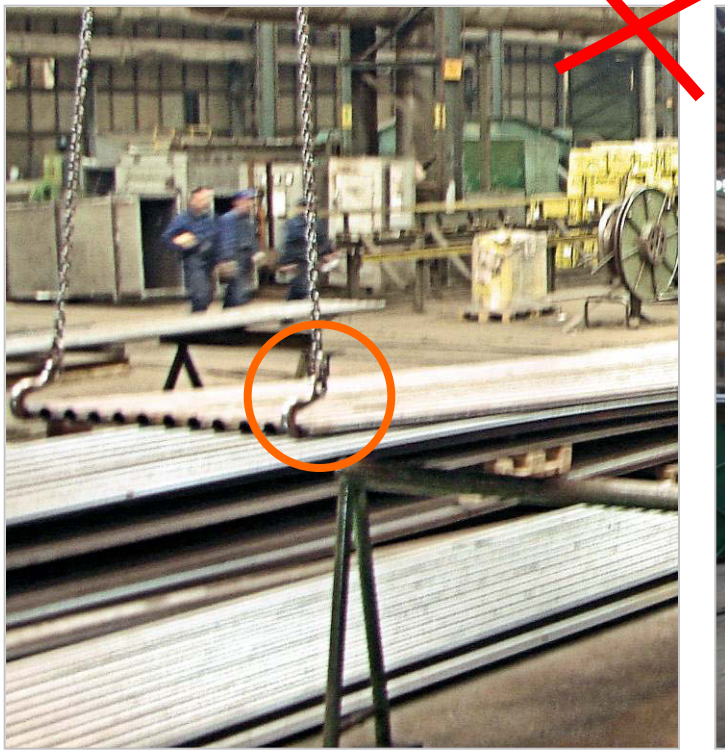
PROPER USE OF CLAMPS

Crane hooks tip loaded used as lifting equipment.



or

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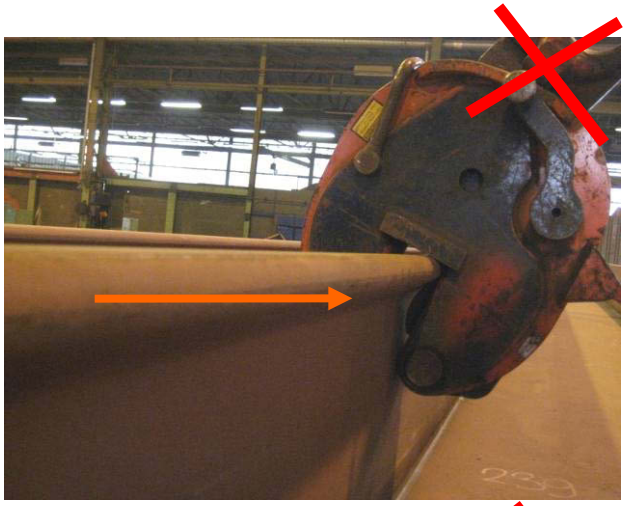
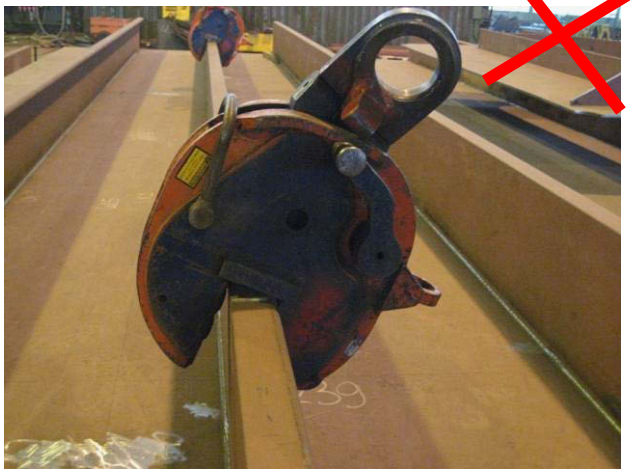
PROPER USE OF CLAMPS





Do not use standard IPU10 or IP10 clamps for lifting bulb profiles. The pivot and camsegment do not have full contact to the material.

Clamp especially designed for handling bulb profiles: IPSBU(U)Z or IPU10 with larger jaw openings.

IPSBUUZ

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Check all material before lifting !

- **Plate surface & clamp** ; free of dirt and dry
- **Hardness material** ; know the surface hardness of the material
- **Point of gravity** ; where is it located ?
- **Division of load** ; divide proportionally
- **Weight** ; min. load 10% of WLL clamp
- **Temperature** ; between -40° C (-40° F) and +100°C (+212° F)

Warning: To avoid serious personal injury read instructions before using!

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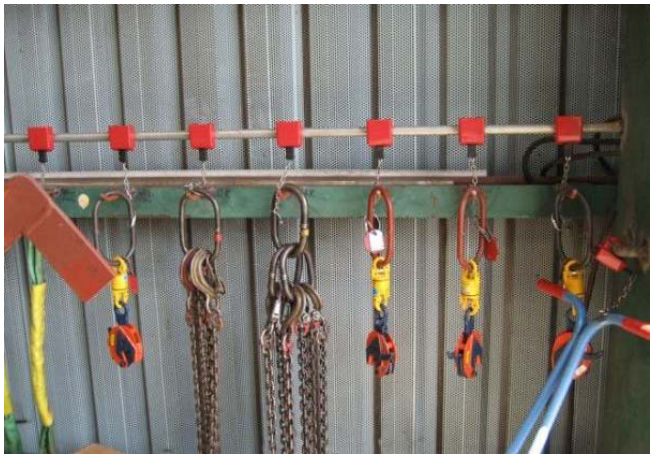
Stocking of clamps



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PROPER USE OF CLAMPS

By **stocking** clamps **in closed position** the pivot and camsegment are touched and can be damaged without even using it! This causes **extra** and **unnecessary damage**.

Always stock clamps with the latch in open-position!

(avoid contact of camsegment and pivot)

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Industry education & Technical support

Sales training

- Extensive product training
- Designed to extend the knowledge of the product range and application areas of CrosbyIP lifting clamps

User training

- Using the right clamp, in the right way, at the right place
- Employees are informed about proper lifting methods

Repair training

- Designed for inspection and periodic maintenance of CrosbyIP clamps.
- This certificate (valid for 4 years) qualifies Service Engineers to perform periodic maintenance- and repair services within organisation

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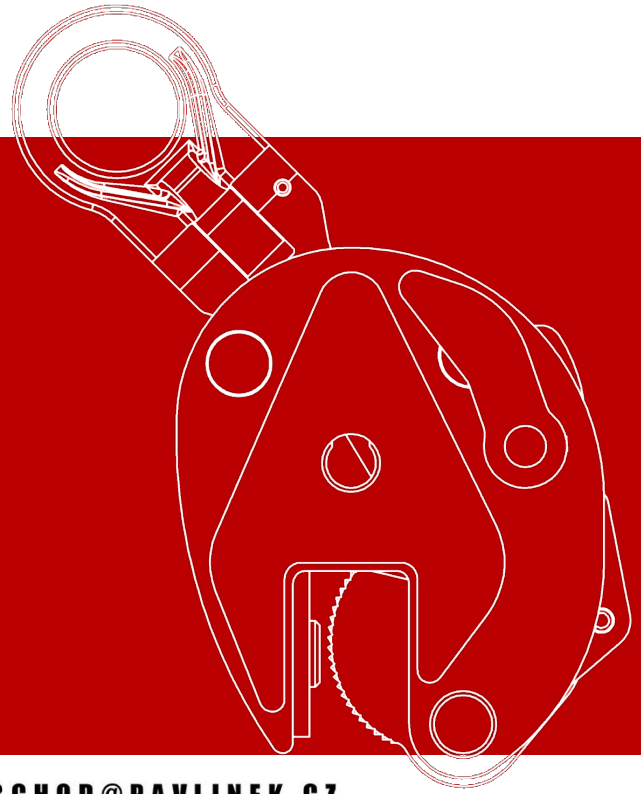
MORE INFORMATION:



www.crosbyip.com

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