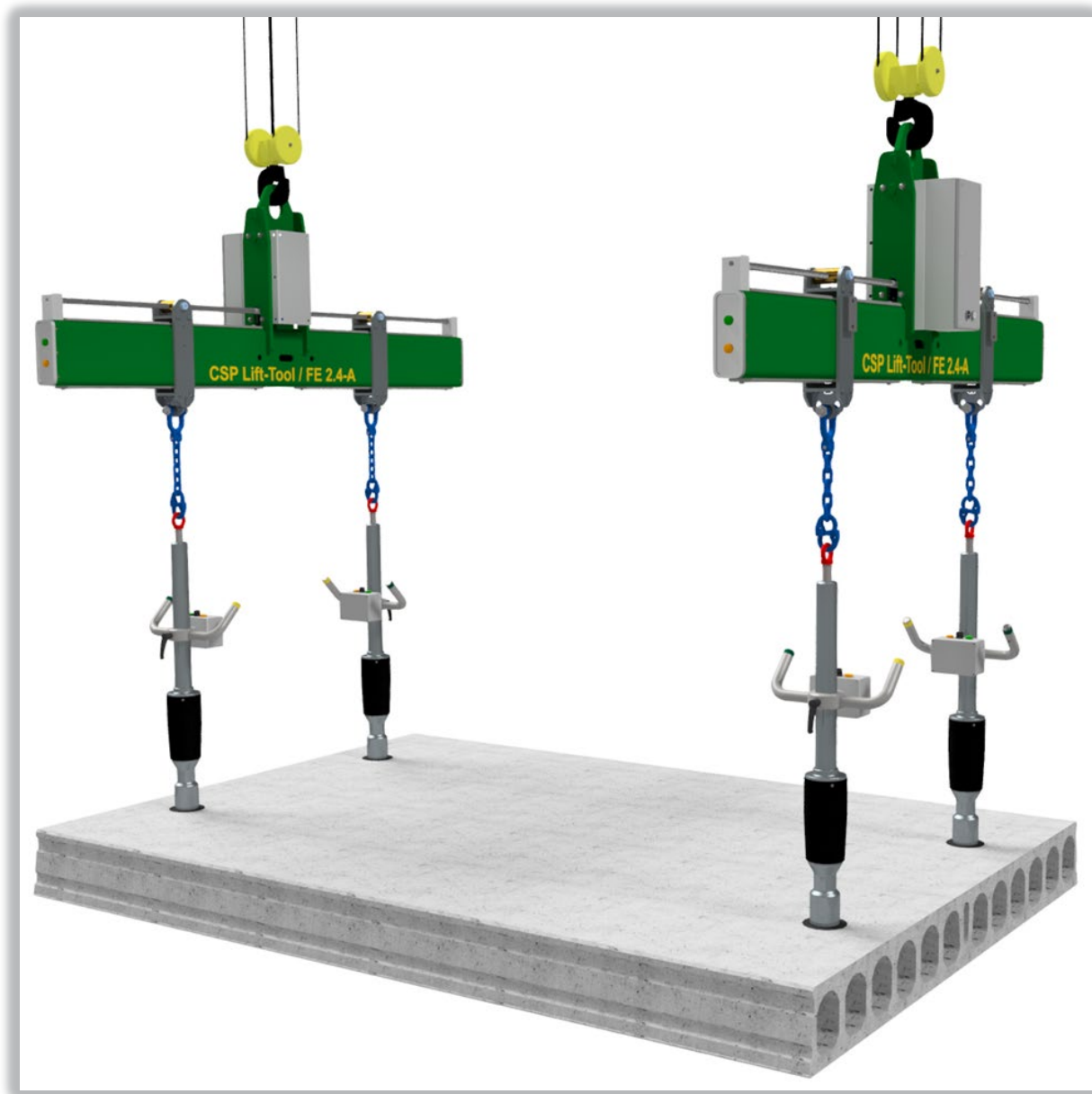


CSP LIFT-TOOL / FE

Automatic lifting yoke for deck elements



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Automatic lifting yoke for deck elements

CSP LIFT-TOOL / FE is used for lifting / handling deck elements from mold tables to exit trolleys, as well as for internal handling in the storage area.

CSP LIFT-TOOL / FE consist of two lifting beams, which are each handled by a separate gantry crane, each lifting beam has two sleds mounted, and depending on the type, sleds can be moved manually using a handwheel or electrically using a gearmotor.

Each lifting beam is equipped with two identical claw units, each has a handle with two push bottoms for operating claw, claw units are spring suspended so its easy to place claw over the anchor head, spring suspension ensures that the claw releases the anchor.

Lifting beams are provided at each end with two signal lamps for indicating the position of the claw units and thus ensure safe lifting / handling of cover elements, where sledges can be moved automatically, this is done by pressing the claw or on two pushbuttons located on the board front.

In cases where it is desired to lift / handle deck elements, where anchors are located with a shorter distance than the two lifting cranes' mutual lifting distance, a transverse yoke is provided as an option, where the two lifting booms can be mounted on a movable sled system. In this way, the mutual distance between the two lifting booms can be reduced to 120 cm. Cross-yoke has built-in support legs, so the yoke can be placed where this is desired.

CSP LIFT-TOOL / FE lifting beams power and signal are supplied as a starting point from separate gantry cranes, where crossbeams are used, power and signal are supplied to one boom from the other by means of a cable from the master.

Pressing for release of element takes place on the existing crane operation. *

CSP LIFT-TOOL / FE is designed for 2.5 as well as 5 t ball head anchors, a maximum element weight of 20T. and a mutual transverse distance on ball head anchors between 40 and 100/220 cm, and when using transverse yokes, a mutual longitudinal distance on ball head anchors between 120 and 500 cm.

CSP LIFT-TOOL / FE is delivered type approved and CE marked, CSP LIFT-TOOL / FE is patent pending.

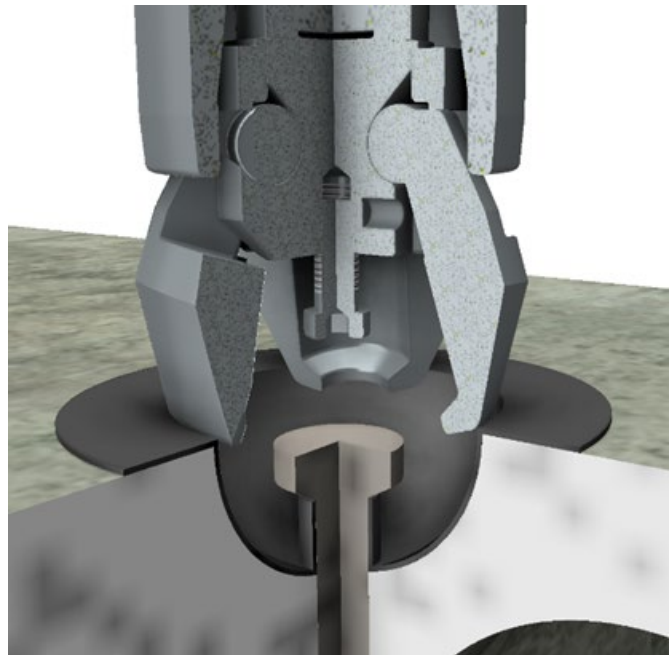
In cases where a standard system cannot be used or where there are special wishes, we are always prepared for an informal dialogue and not least a vote of expectations.

*) In cases where the existing crane operation cannot be expanded with an additional element release function, we can offer a wireless release button.

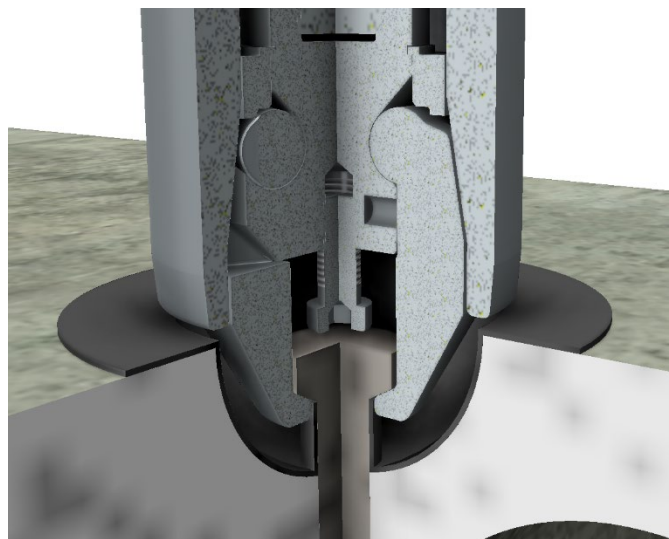
We recommend that the crane hook is locked so that it cannot turn. This facilitates handling, as well as power, as well as signal cables must be relieved with automatic winding.



CSP LIFT-TOOL / FE Claw-unit



Claws open

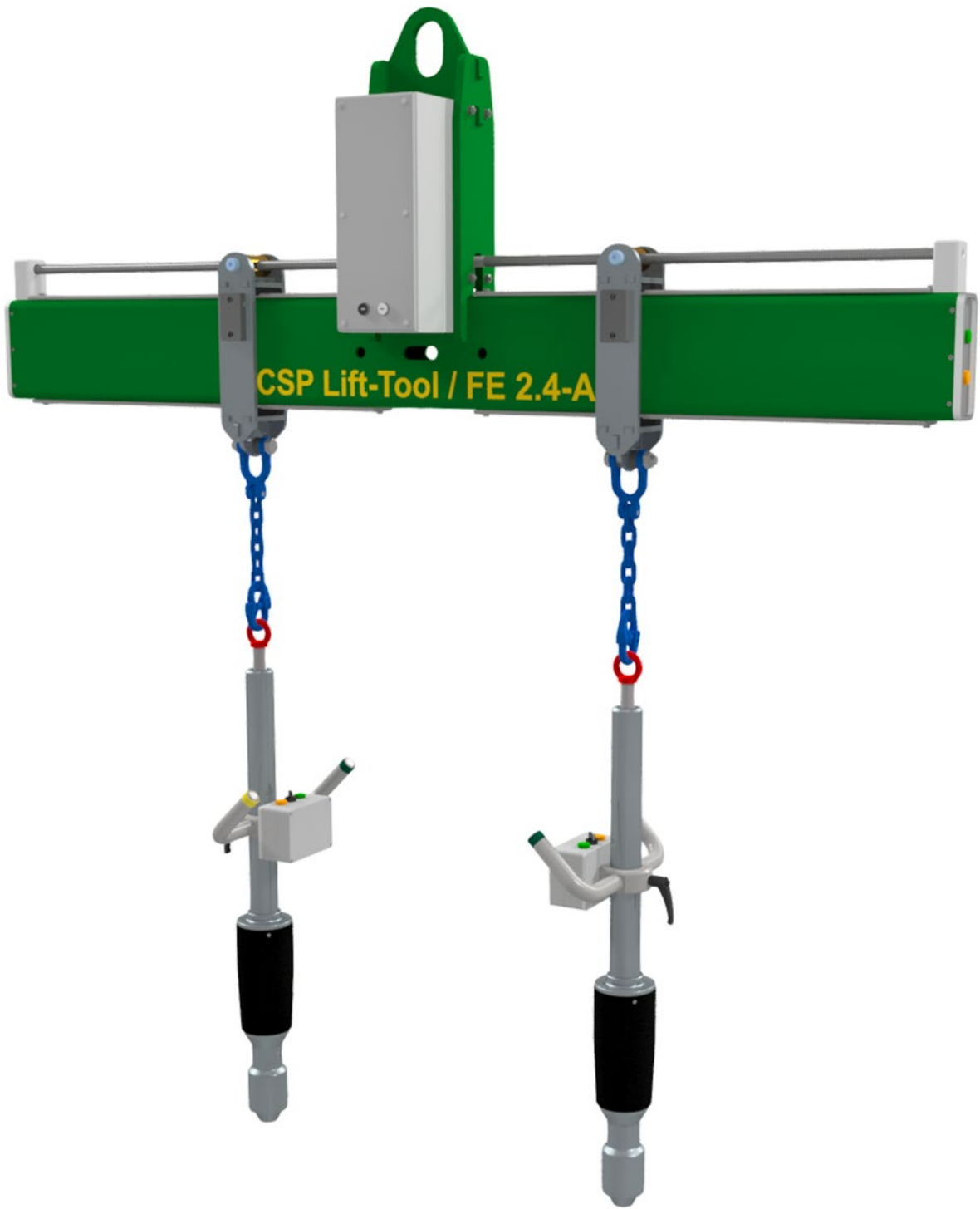


Claws closed

Claw unit is spring suspended. The control handle can be adjusted in height to achieve the correct ergonomic working position and is equipped with two vandal-proof Ø30 pushbuttons, which are easy to operate with work gloves.

The pictures to the right show how the claw grips and locks around the ball head anchor.

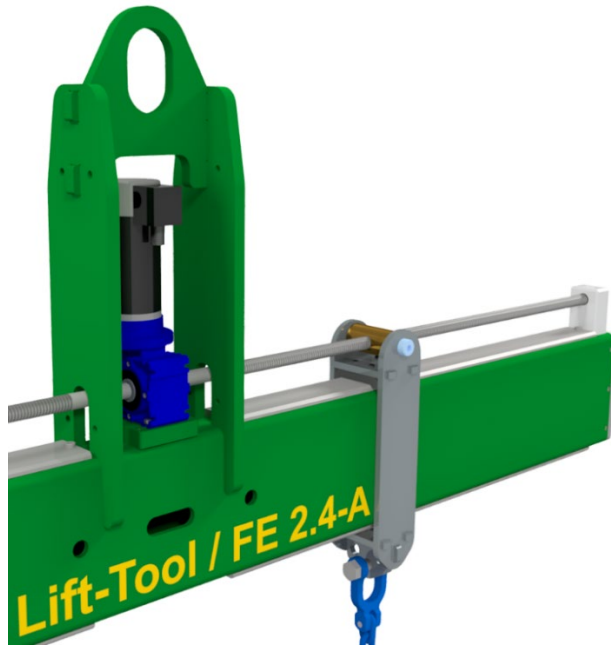
The claws are specially designed so that the pivot pin is part of the claw, just as the claw bearing is part of the claw unit, the unique locking cylinder, combined with the claw's design, ensures that the claw cannot be opened when it is



CSP LIFT-TOOL / FE-2,4-A



CSP LIFT-TOOL / FE-1,2-M

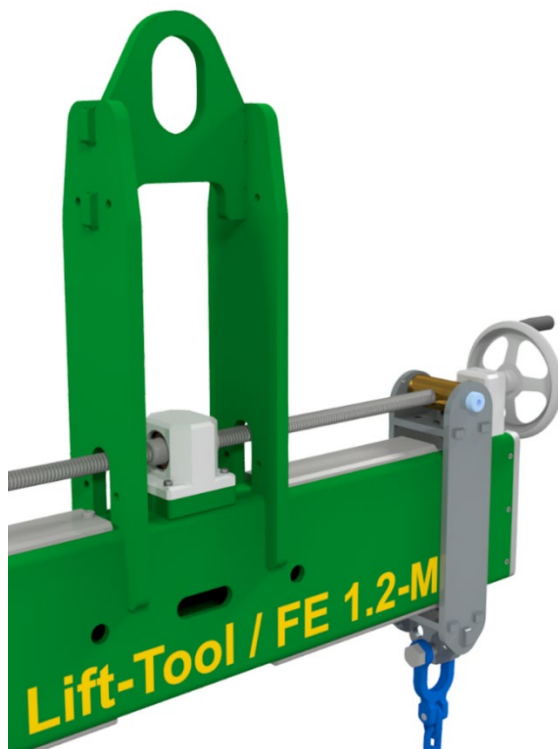


CSP LIFT-TOOL / FE-X-A
(Automatic sled positioning)

The picture shows type A with gear motor for automatic sledding. The movement is done using a right and a left-turned spindle.

Spindle nut is made of bronze, sliding rails in stainless steel, sliding bearings in PEHD-1000

(Picture is without control panel, protection plate)

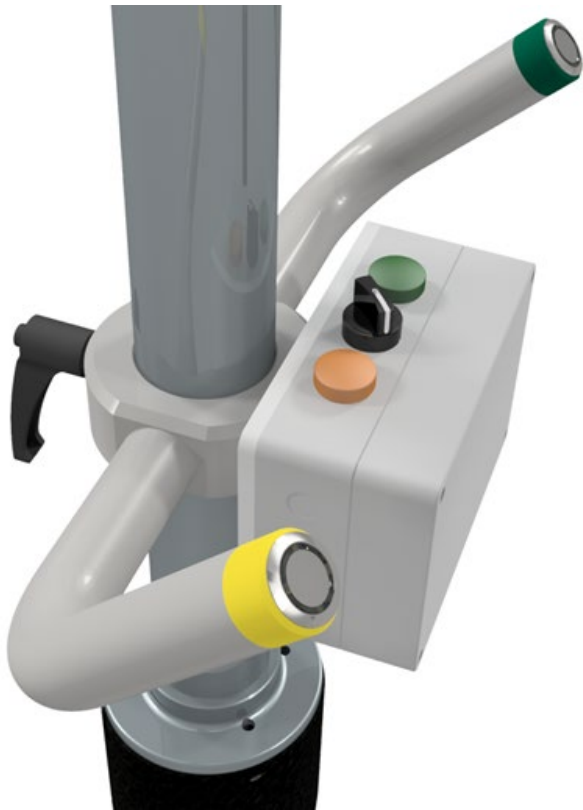


CSP LIFT-TOOL / FE-X-M
(Manuel sled positioning)

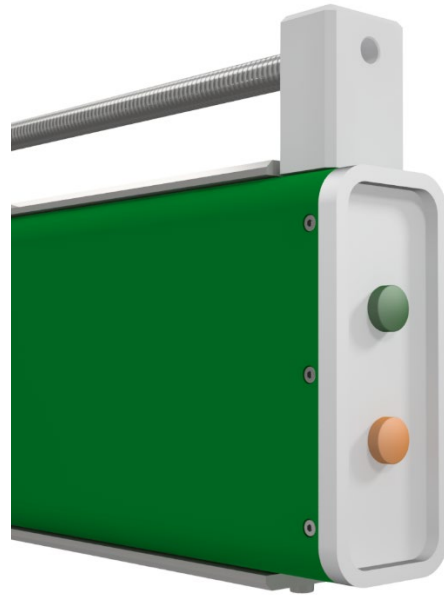
The picture shows type M with handwheel for manual movement of sleds. The movement is done using a right and a left-turned spindle.

Spindle nut is made of bronze, sliding rails in stainless steel, sliding bearings in PEHD-1000

(Picture is without control panel, protection plate)



*Push buttons on the handles
Signal lamps and
Swivel switch on the terminal box
(type A)*



Signal lamps on the beam



*Pushbuttons on the switchboard
(type A)*

Pushbuttons green and yellow on the handles are used to open-close the claws, as well as to automatically move the carriage to move the carriages (rotary switch is used as selector switch).

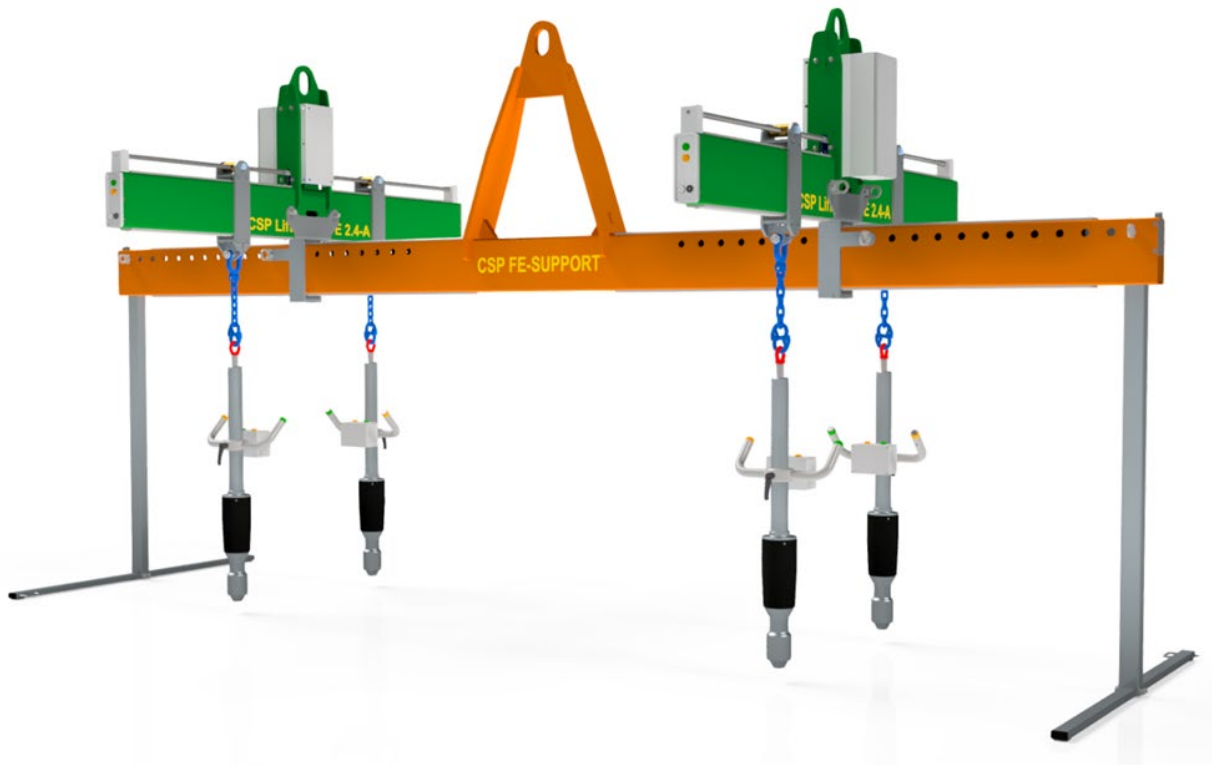
Claw position: press yellow = claw closes, press green = claw opens

Automatic sled movement: press yellow = assemble, press green = spread

Push buttons white and black with arrows on the switchboard are used to move the slides for the automatic move type.

Signal lamps green and orange show the position of the claws.

Orange lit = claw closed, green lit = claw open



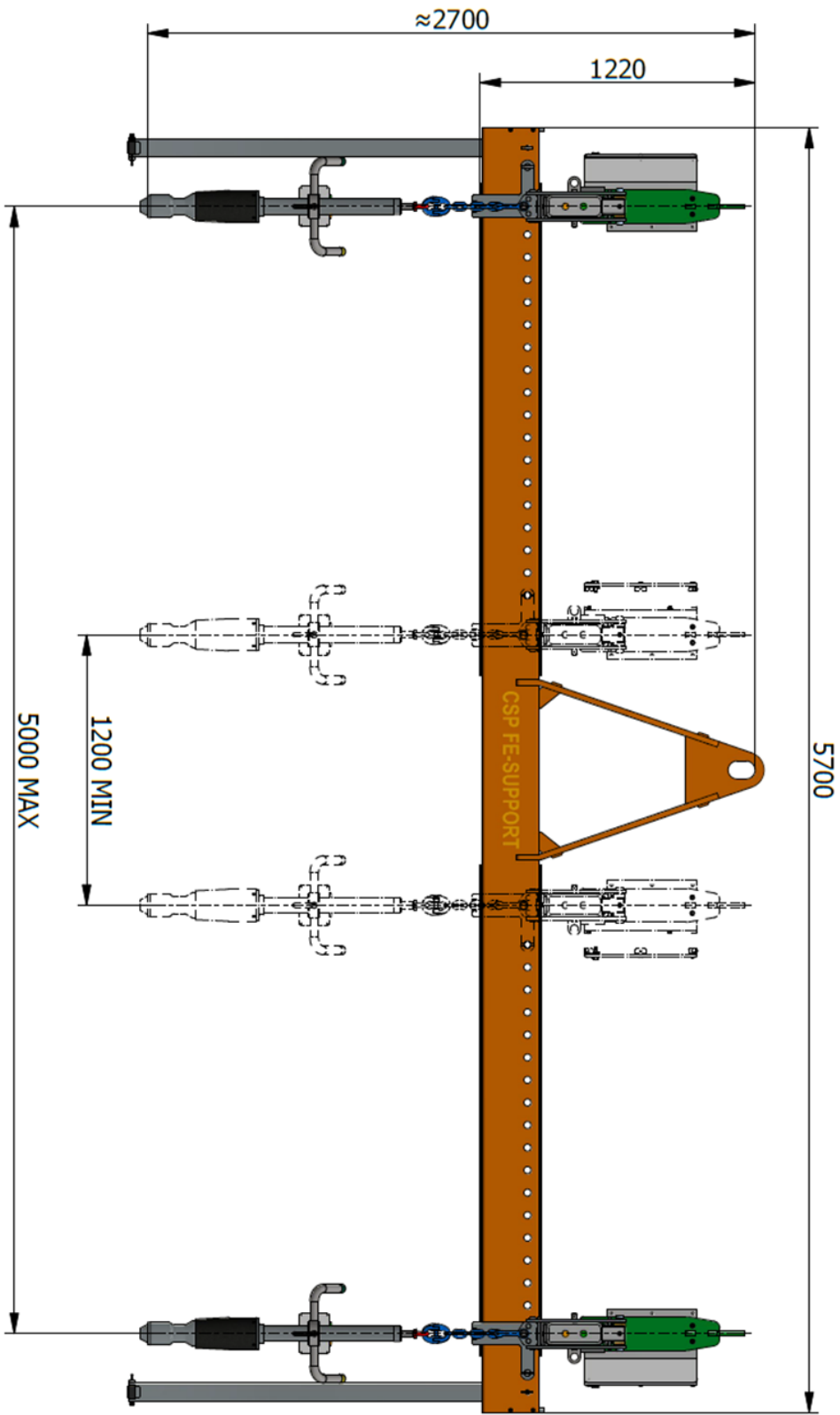
CSP FE-SUPPORT

CSP FE-SUPPORT is used in cases where the mutual distance between lifting eyes is shorter than can be achieved with tandem cranes, here FE-Support is used and lifting is done only with one crane, the electrical connection between the two lifting booms is done by a specially designed cable.

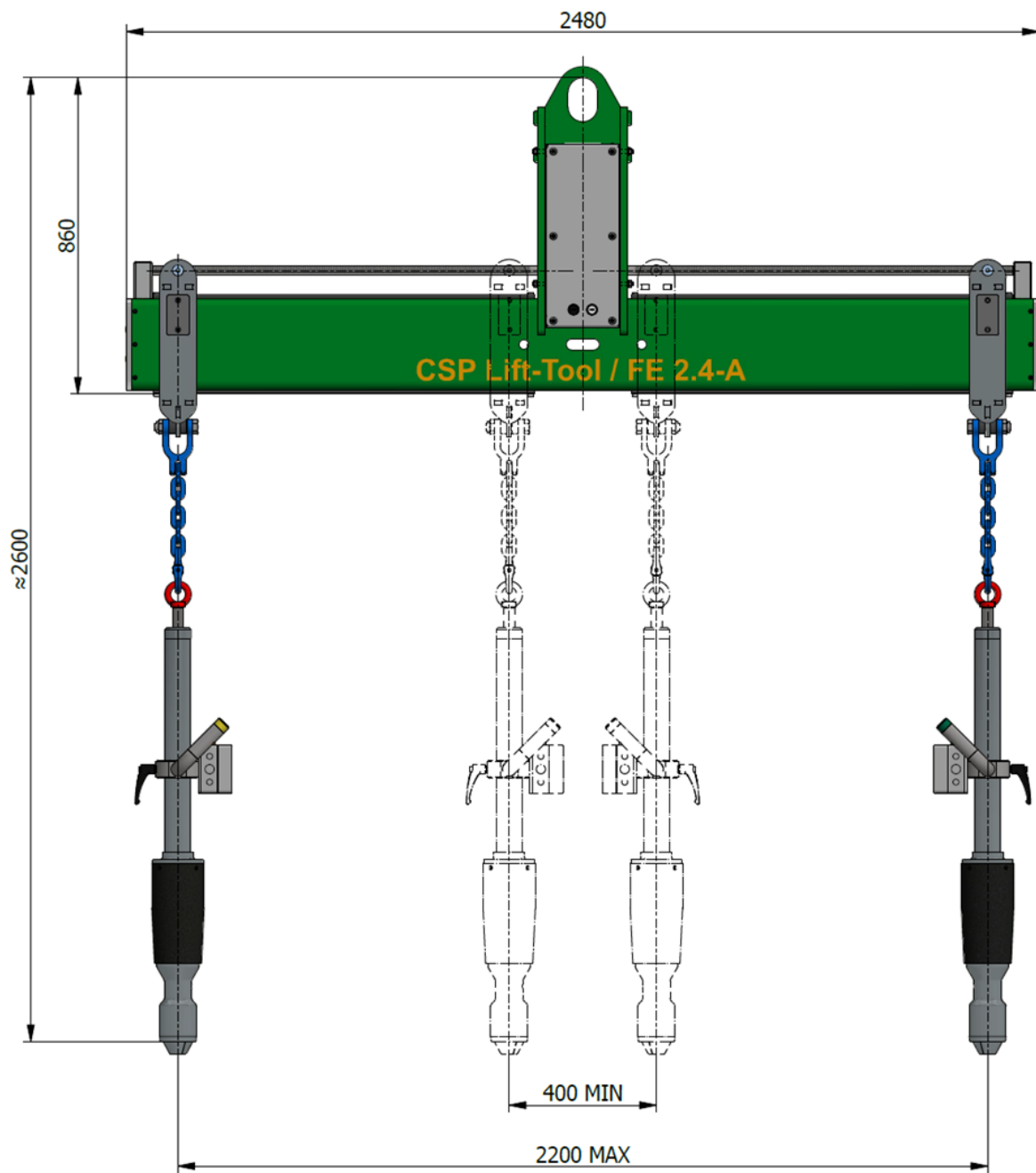
FE-Support is supplied as standard in a length of 5.5 meters, thereby ensuring that crossbars can handle elements where ball head anchors have a mutual distance (length direction) from 1.0 to 4.5 meters, as well as a maximum weight of 10 t.

FE-Support has built-in legs that are easily folded out and pushed in, so that FE-Support can be placed where this is most appropriate.

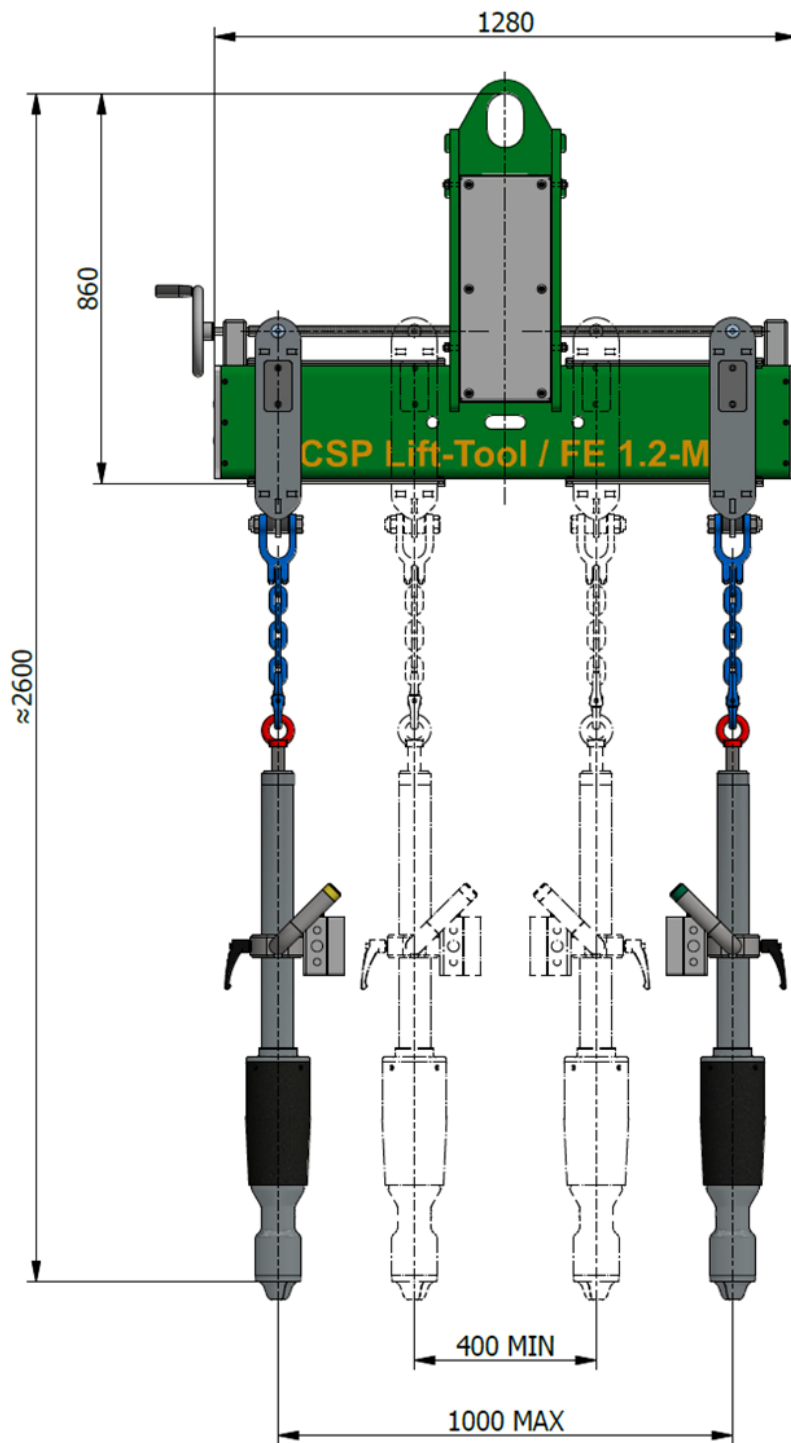
Assembly-de-assembly of the two lifting booms is done by placing the beam on the sled and locking / opening easily using four mandrels. Sleds on FE support can be easily moved and locked, thereby achieving the desired location of lifting booms.



Dimension type CSP LIFT-TOOL / FE-Support



Dimension type CSP LIFT-TOOL / FE-2,4-A



Dimension type CSP LIFT-TOOL / FE-1,2-M

Main components:

PLC: Siemens Logic

Piece: Harting

Control buttons: Schneider

Signal light: Schneider

Control buttons claw: APEM

Actuator claw: Consens

Inductive sensors: Sick

Gearmotor: Nordgear

Spindle: T24, C45 Bornemann

Spindle nut: T24, RG7 Bornemann

Handwheel: Stainless steel Ø200 with handle

Sled bearing: PE-HD1000

Chains etc .: Certex

Surface treatment:

Lifting yoke:

Bomb: Reingrün RAL 6037

Sleds: Galvanized

Claw arr .: Electro-galvanized

Stainless steel: Worked

Beams:

Beams: Orange RAL 2000

Shafts: Galvanized

Sleds: Galvanized

Installation requirements:

Supply voltage: 24 V-16 A

Communication: potential-free signal via cable.

It is recommended that the supply and signal cables have automatic winding.

2 pcs. fix Harting she connector for crane connection of lifting yoke.