

The new EH series EXPERT LIFTING COLUMN

 **EXPERT**[®]
Takten & Positionieren.

 **TÜNKERS**[®]
Erfindergeist serienmäßig.

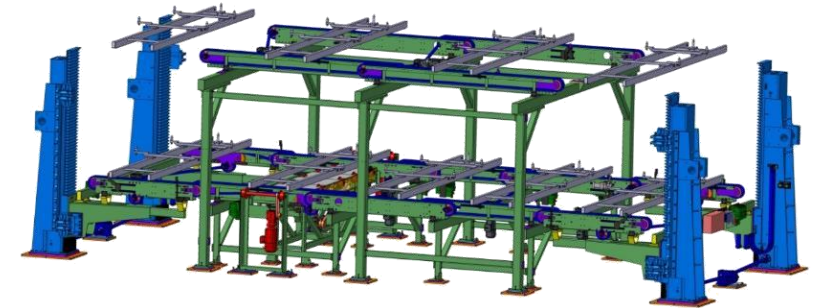
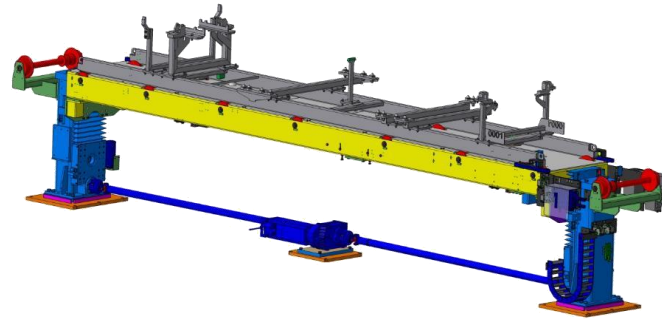


EXPERT lifting column as a module

Why?

EXPERT-TÜNKERS stands for products where large loads have to be moved and positioned quickly in automation cells.

EXPERT-TÜNKERS, on the other hand, has so far primarily provided **complete systems** for lifting and linear movements, such as powered roller beds and buffer lines.



The lifting components that have proven themselves in these systems. Now they have been standardized as an independent series and as a ready-to-use **module** offered, the EH-Series.

You define the limit, we the solution!

EXPERT lifting column functionality

The proven index principle.
The original.

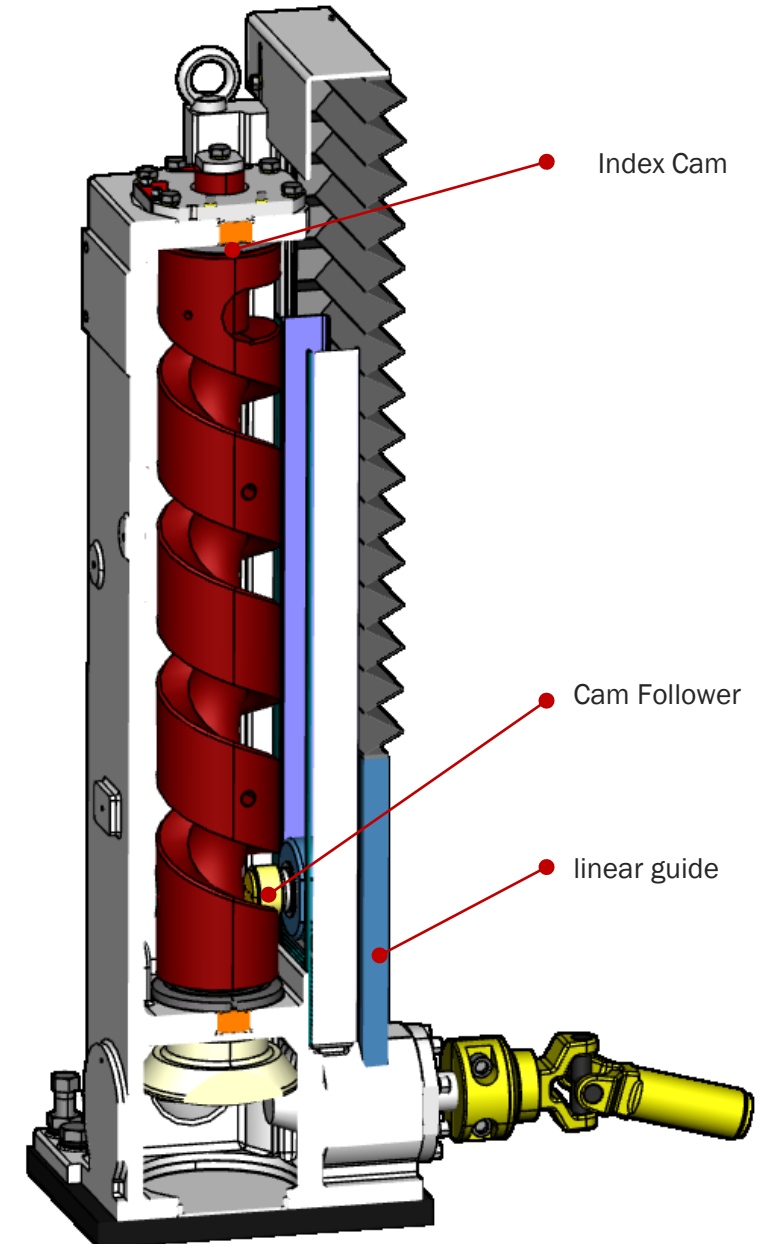
The new EH series is based on the the same principle of the EXPERT turntable on a index drive.

The **lifting movement** takes place via a vertical **index cam**, and **cam follower** is engaged.

The result is a very **compact** and **sturdy** design with which very dynamic **lifting cycles** can be realized.

Our EXPERT lifters are superior to other technologies (such as scissor lift tables). EXPERT lifters guarantee high weights with high dynamics in connection with precise positioning.

Heavy and fast is our motto!



EXPERT lifting column system build

Standard

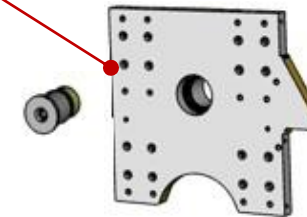
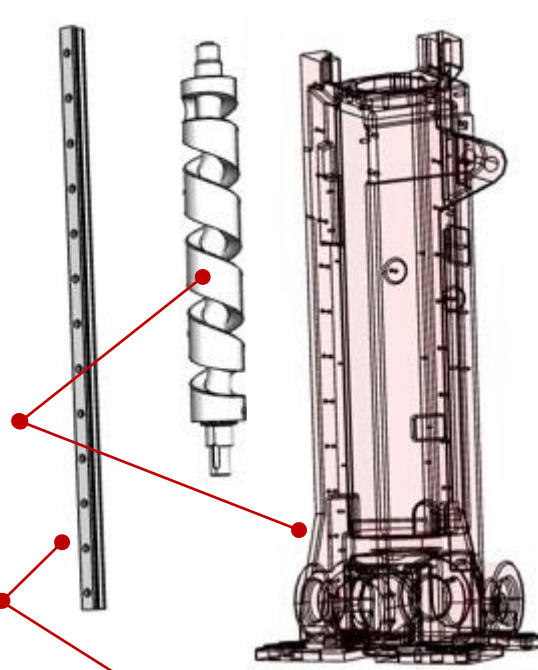
Housing with Index Cam
with predefined strokes

Linear Guide with carrier
with predefined drilling
pattern

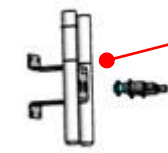
Cam follower
to carry your load
must remain freely
accessible

bevel gear set
To ensure the output
between the drive train
and the index cam

standard drive kits
with cardan shaft, direct
drive or master slave



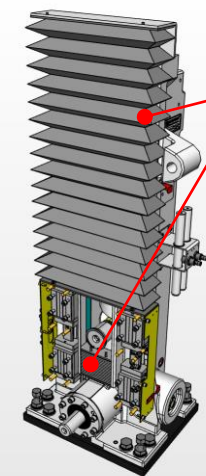
Optional



maintenance lock
manual or pneumatic
in upper position with
sensors

energy chain

lubrication systems
Battery or PLC controlled

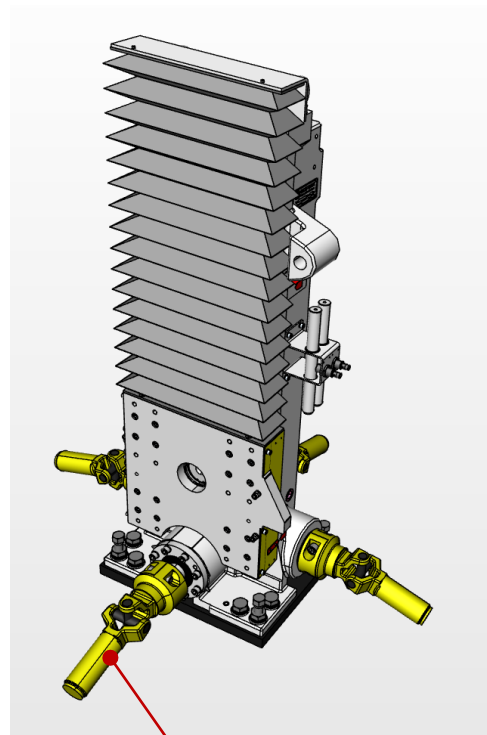


bellows
For up and down position

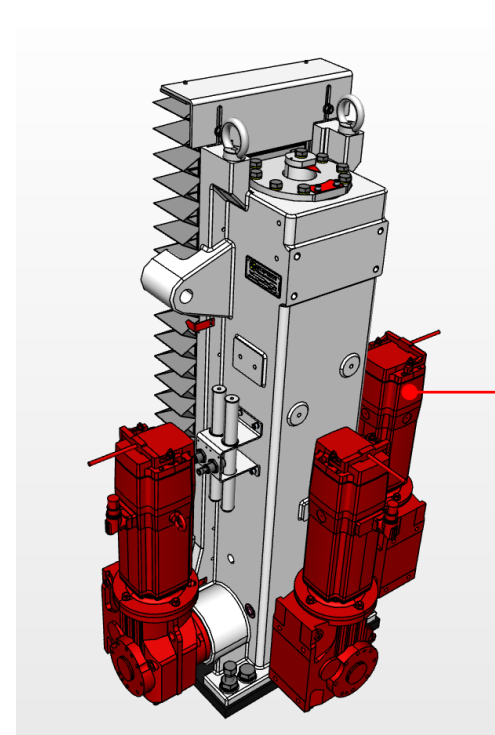
(See data sheet for details)

EXPERT lifting column drive options

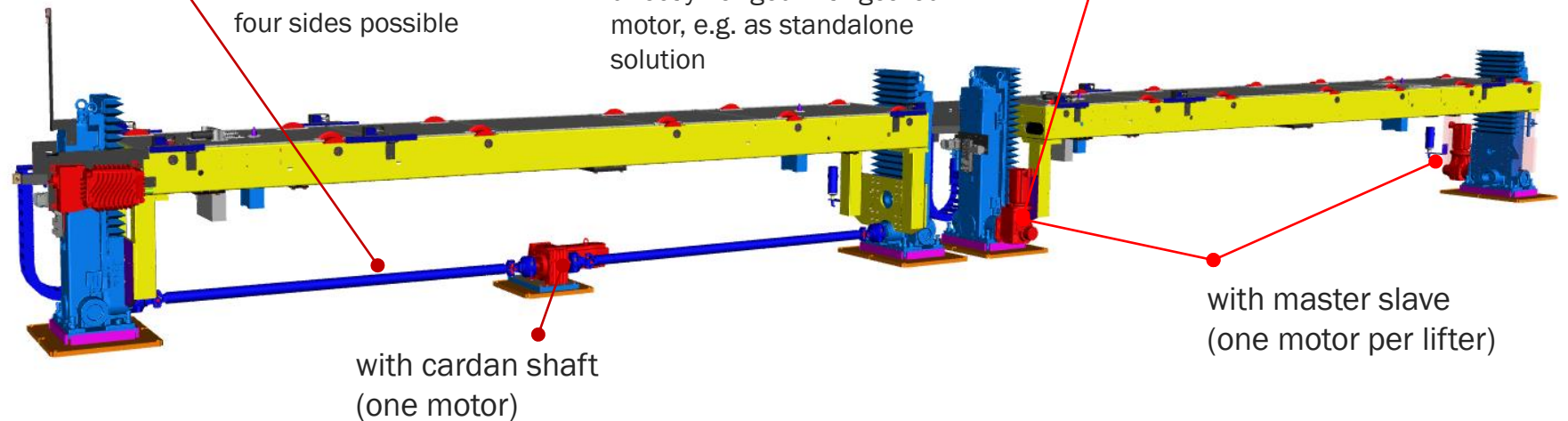
- Options:
- with cardan shaft
 - with master-slave
 - as standalone



drive from
four sides possible



directly flanged with geared
motor, e.g. as standalone
solution



with cardan shaft
(one motor)

with master slave
(one motor per lifter)

Drive

The motors are
standardized for
for two, three or more
lifter predefined

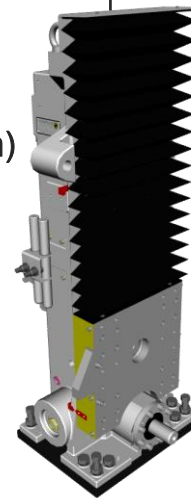
Compatible with several
gear motor
manufacturers

Performance data of
three product lines

EH12
EH18
EH23

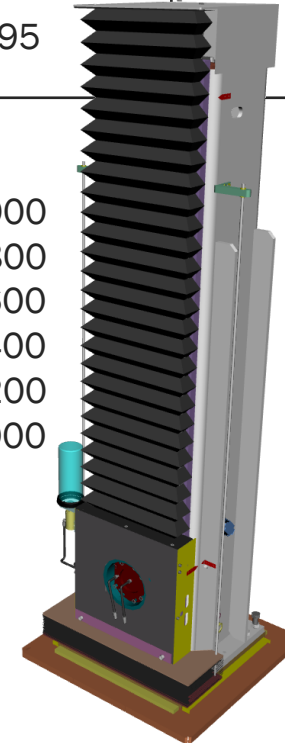
	EH12 - Type 1	EH18 - Type 2	EH23 - Type 3
nominal Payload (kg)#	1075	2000	2520
Max. Stroke (mm)#	1200	1800	2900
Max Speed (m/s)#	0,5	1,1	0,7
Max. acceleration (m/s ²)#	1,73	2,95	2,47

standard
strokes (mm)

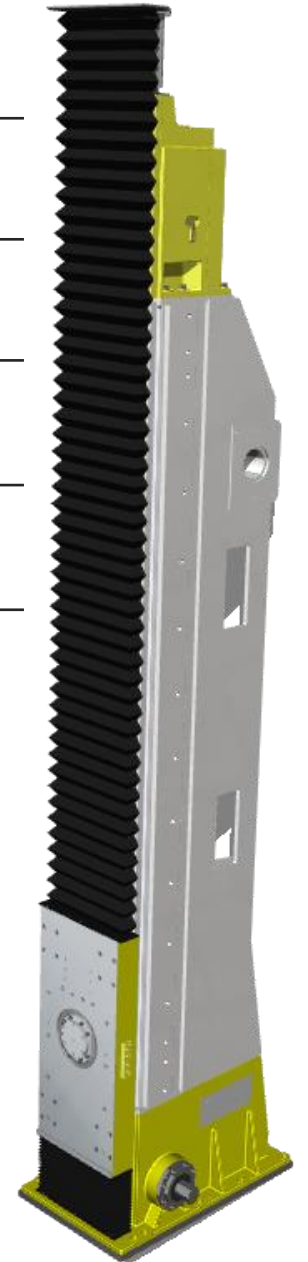


1200
1000
800
600

2000
1800
1600
1400
1200
1000



2900
2500
2000
1500
1000



#With standard configuration. Other loads, strokes and dynamics are possible on request.

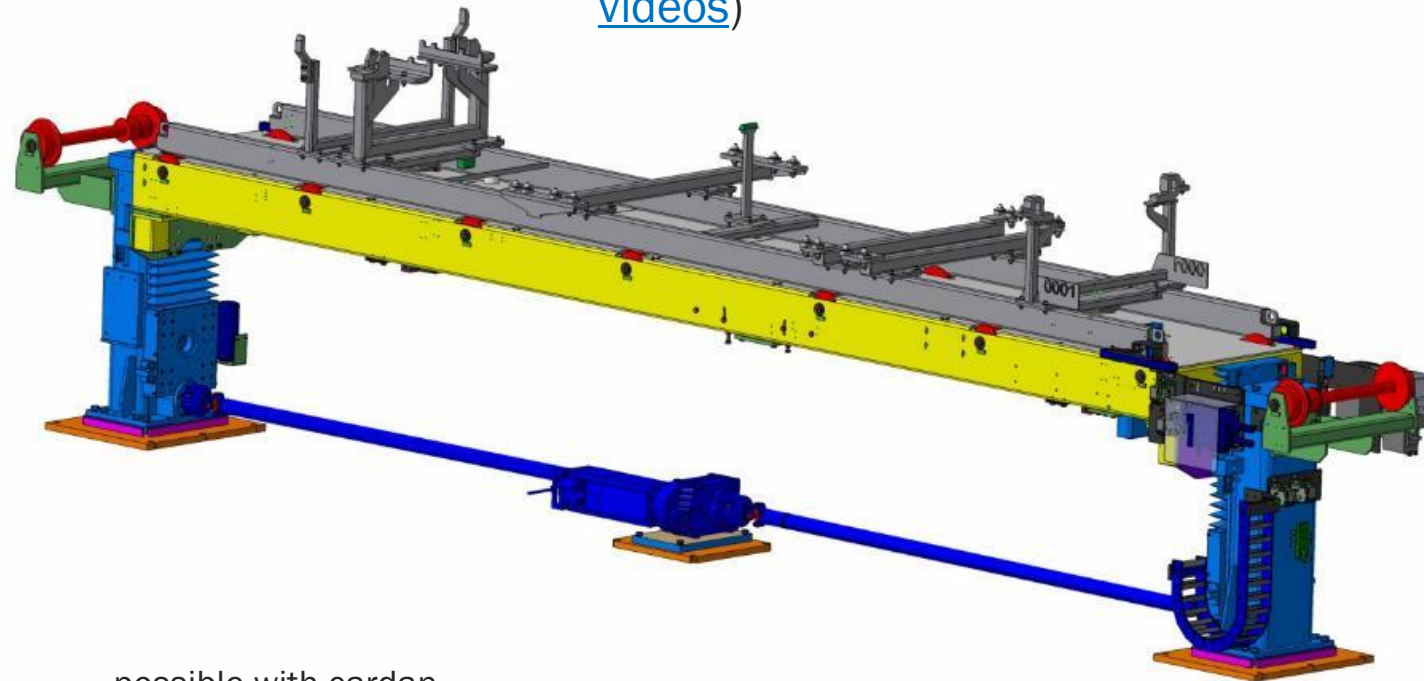
application example

lifting columns for skid
conveyor technology

Please contact us to
configure your lifting task
together!

Skid conveyor system consisting of two
EH12 lifting columns and separate roller
conveyor

Use up to 8 m wingspan and 2 t total
transport weight ([Link details, photos,
videos](#))



possible with cardan
shaft or master slave

application example

Duo Rail Shuttle

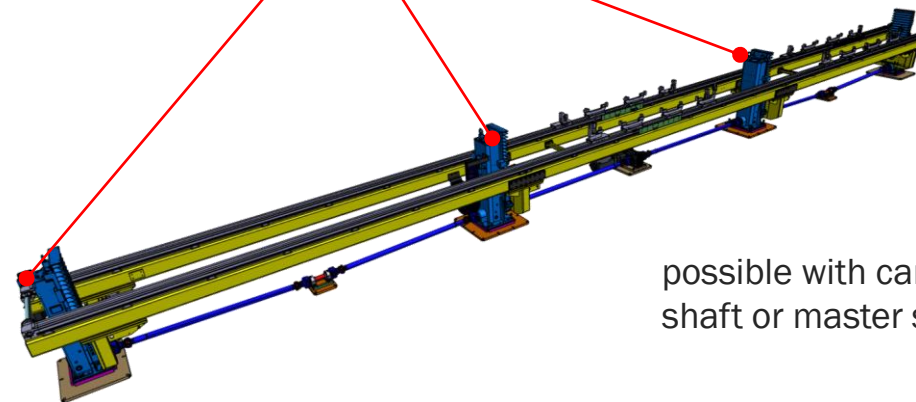
Please contact us to
configure your lifting task
together!

Duo Rail Shuttle for in line
Pick and place large parts

Chained shuttle units can be
formed with several EH12;
up to 32 m, Record!
([Link details, photos, videos](#))

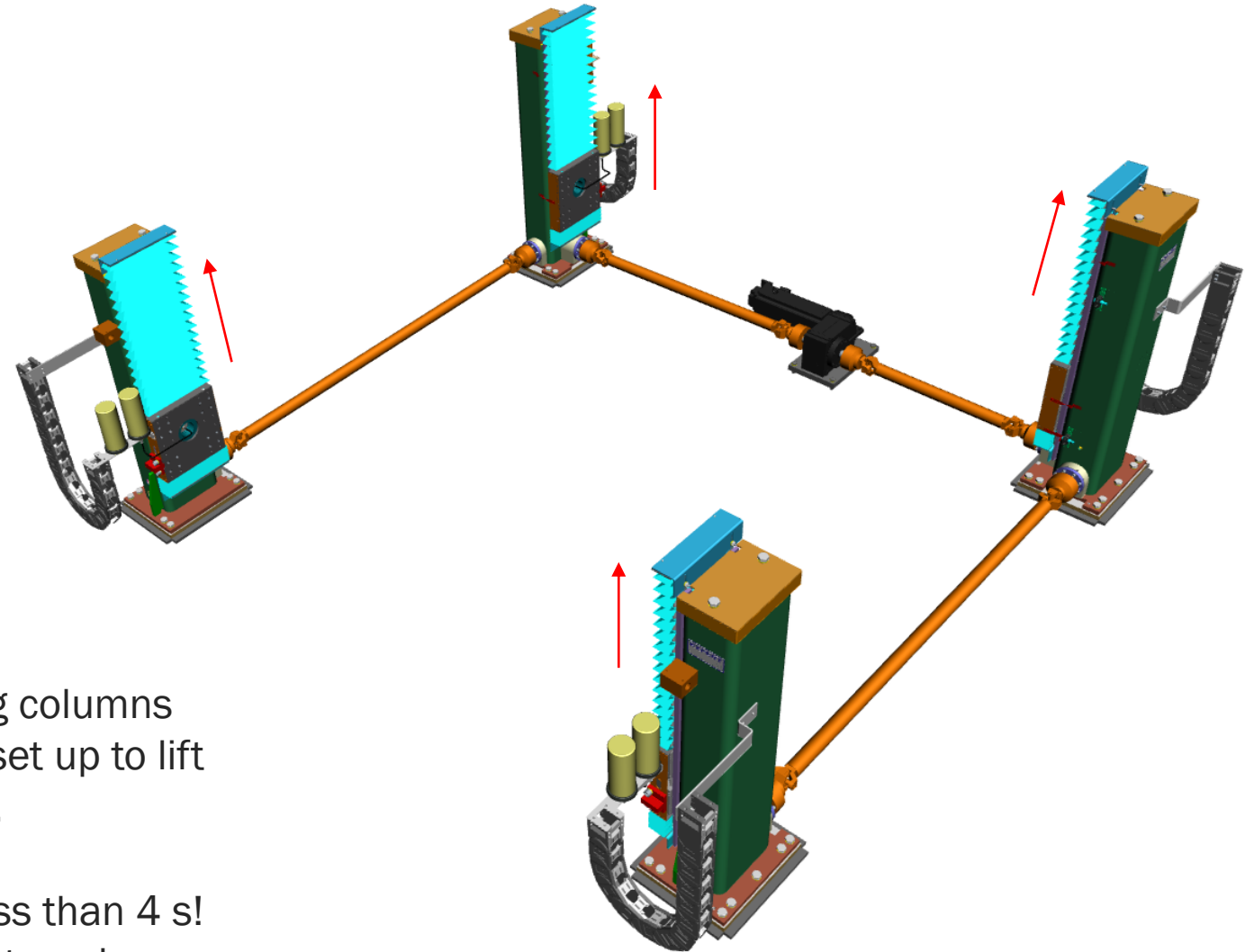


EXPERT lifter EH12



possible with cardan
shaft or master slave

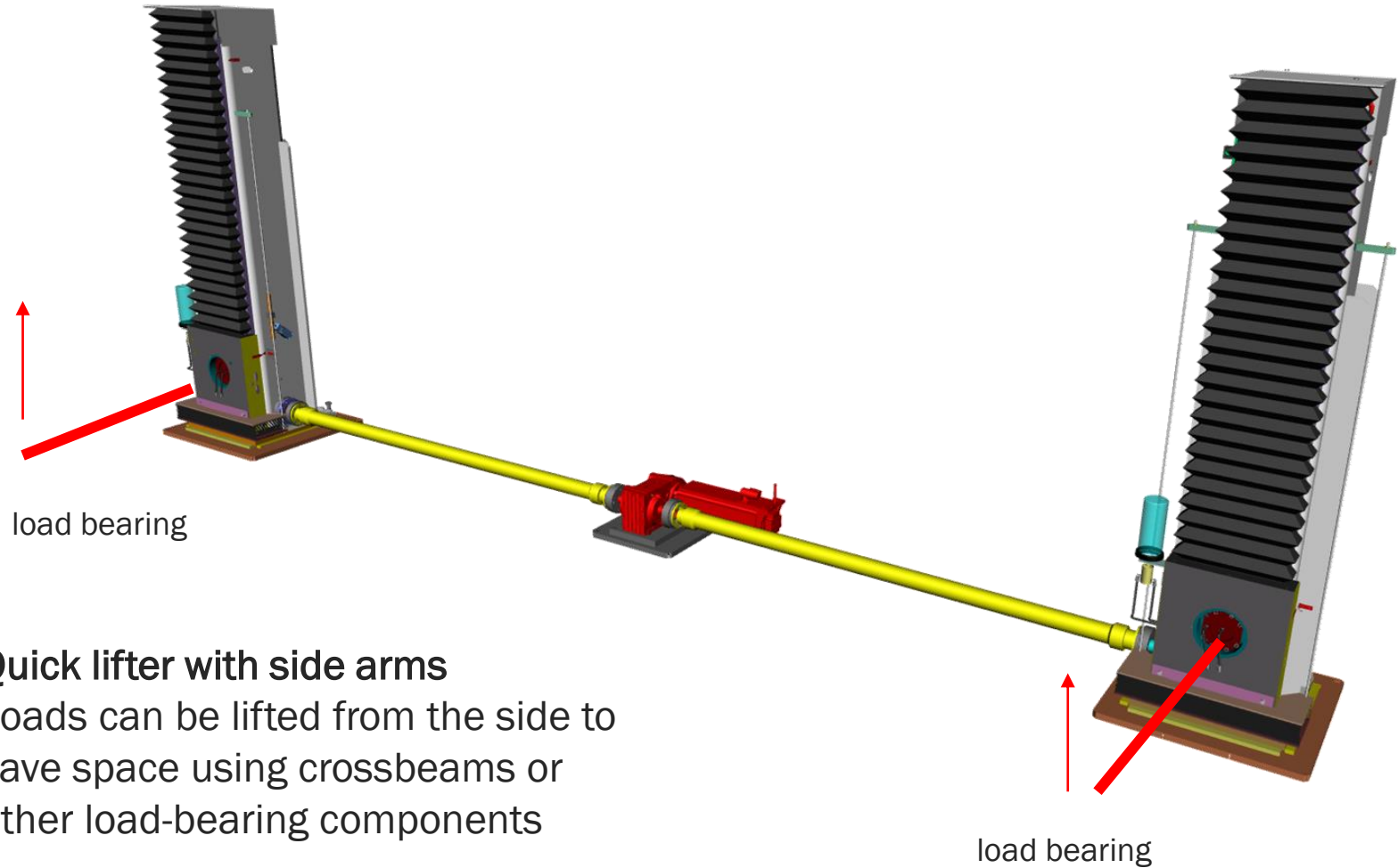
application example
Four point lifter



load lifter where eg
with four EH12 lifting columns
Complete system is set up to lift
loads up to 4000 kg.

600 mm stroke in less than 4 s!
Also possible without cardan
shaft with master slave concept
possible.

application example
Dual jack with side
outrigger

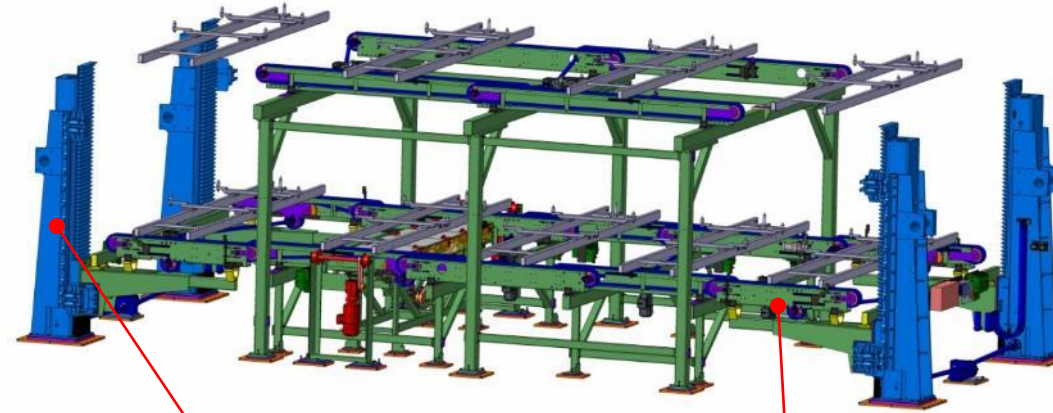


Quick lifter with side arms

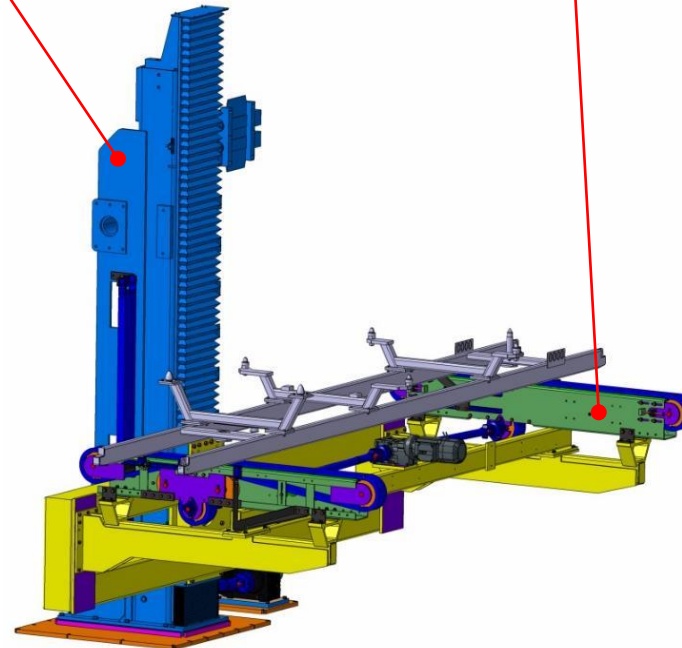
Loads can be lifted from the side to save space using crossbeams or other load-bearing components

Application example:
1500 m in 1,8 s for 2 t customer
load

application example
ring buffer



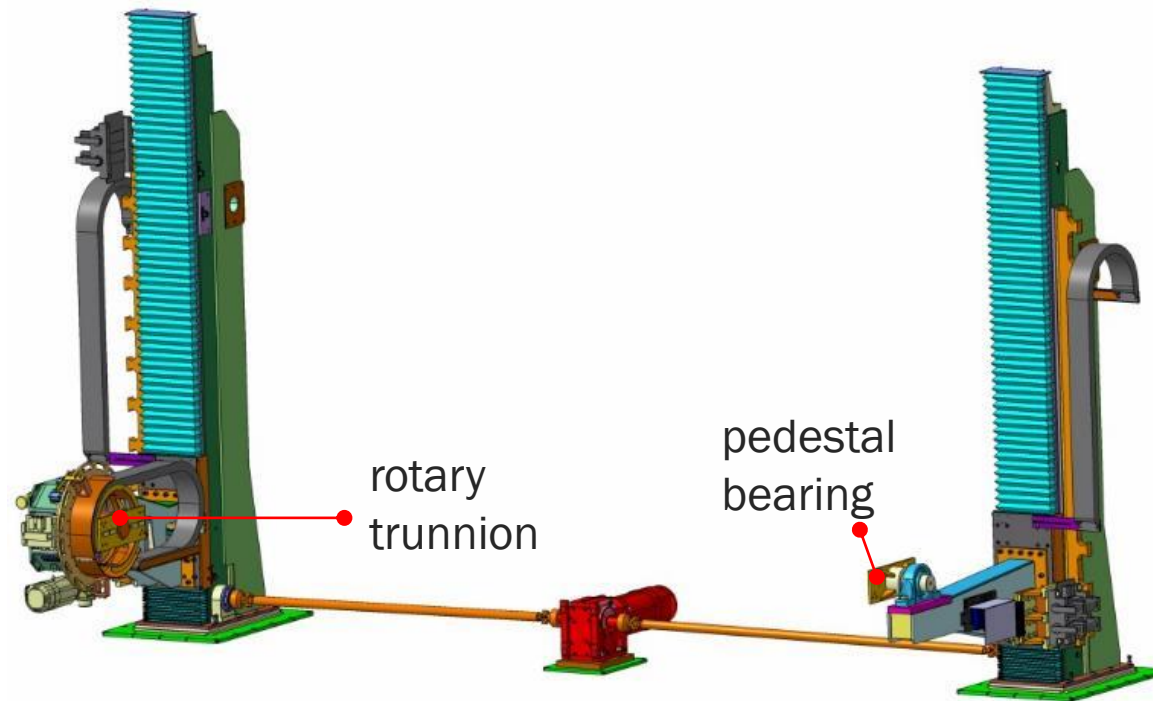
ring buffer
set up with several EXPERT
lifters EH23
Fully automated removal
and buffering of the parts
(eg. bodies)



Detail ring buffer:
**Lifting unit with cross
conveyor**
Large geometries and
weights can be fixed on
and lifted thanks to the
bore surface on the slide

[\(Link details, photos, videos\)](#)

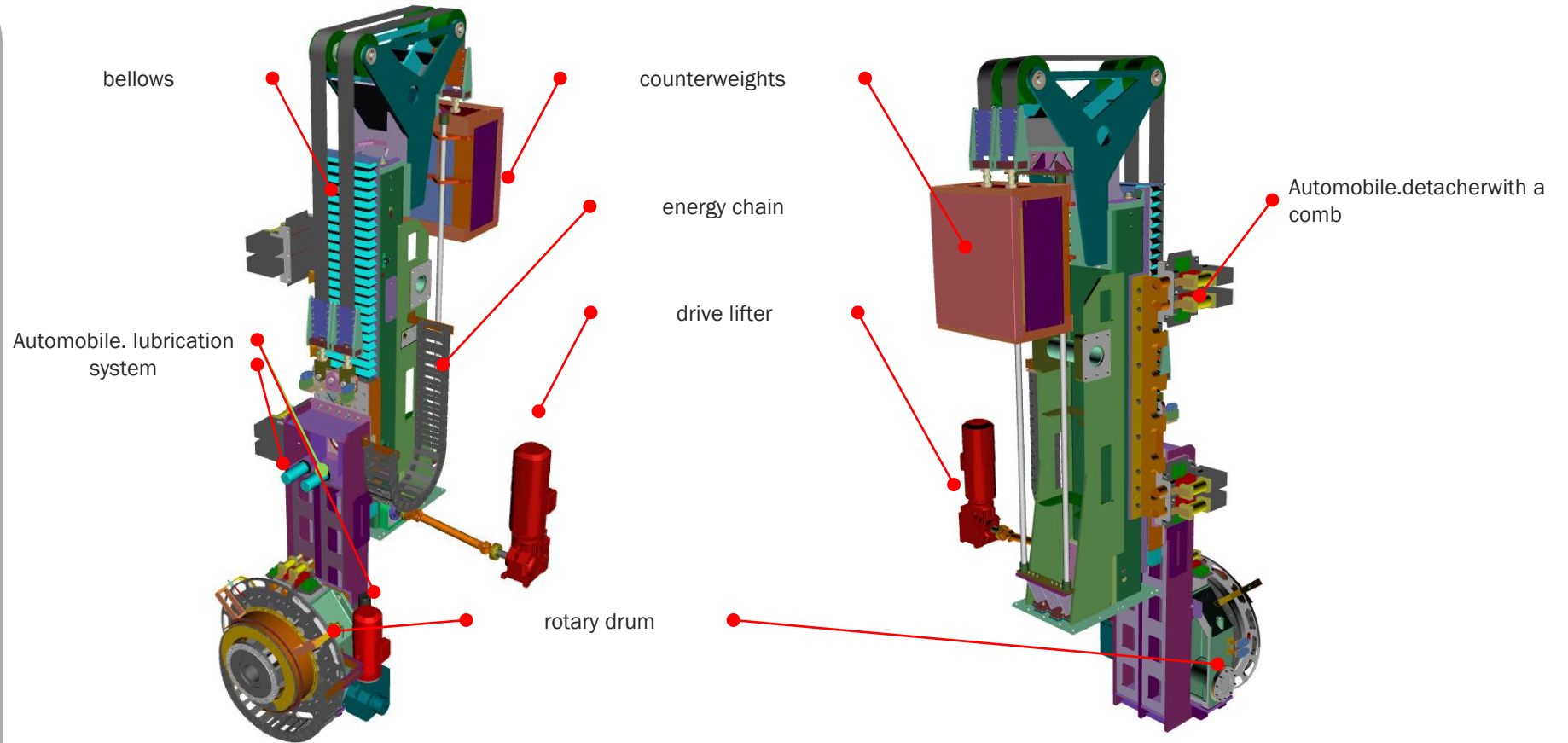
application example
rotary lifting unit



rotary lifting unit
two EH23 combined
with rotary drum EDH⁺
and a pedestal bearing
to lift and close large parts
by 360°
([Link details, photos, videos](#))

application example

heavy
duty standalone rotary
lifting unit



heavy duty standalone rotary lifting unit

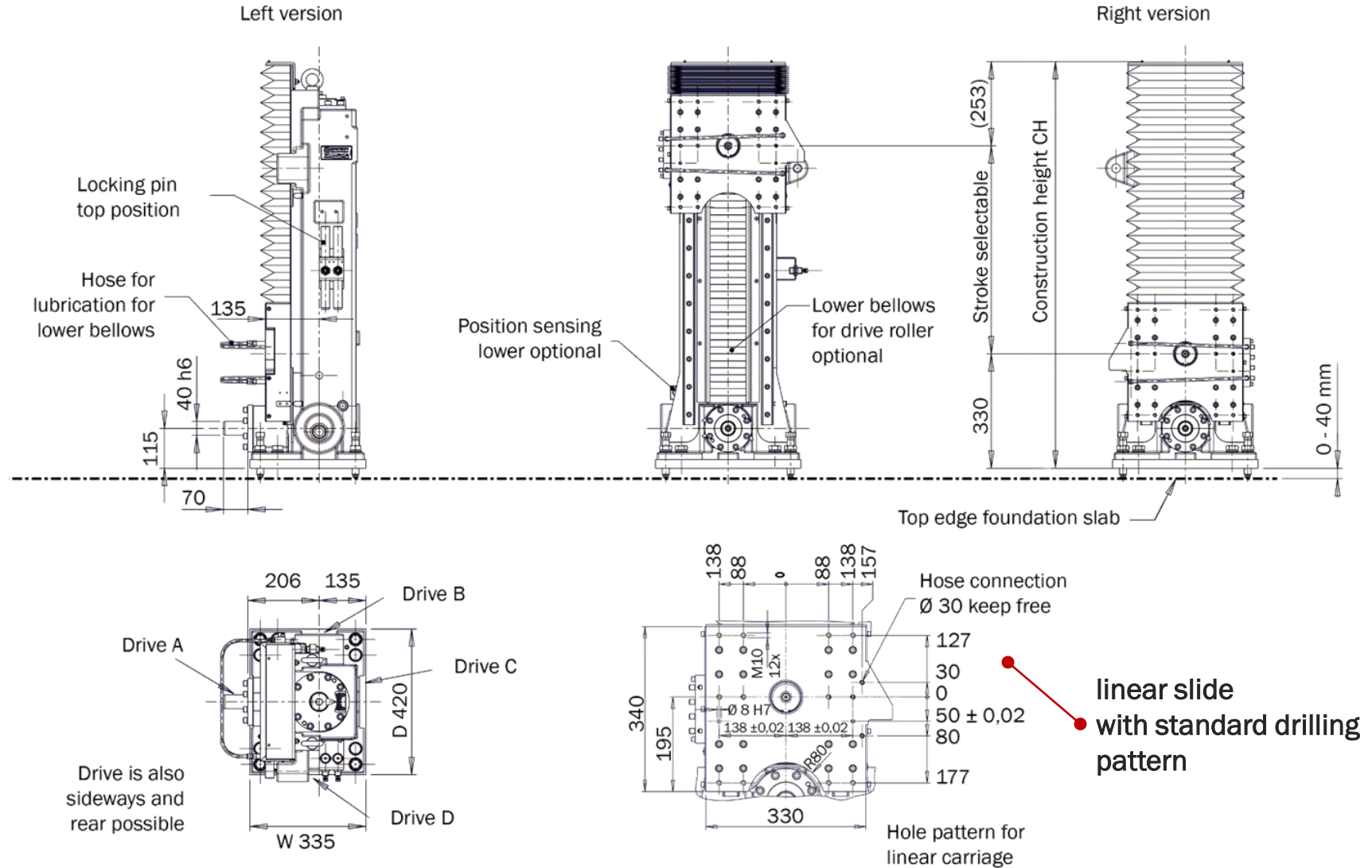
More than 3000 kg per drive?

With our EH23M you can easily solve the demanding super heavy duty lifting applications (here even with index drive [EDH+](#))

EH12 - Type 1

Technical data sheet

hub (mm)	600	800	1000	1200
height WxH (mm)	1183	1383	1583	1783
dimensions Wxd (mm)	335x420			
weight (kg)	300	340	390	452



EH12 - Type 1

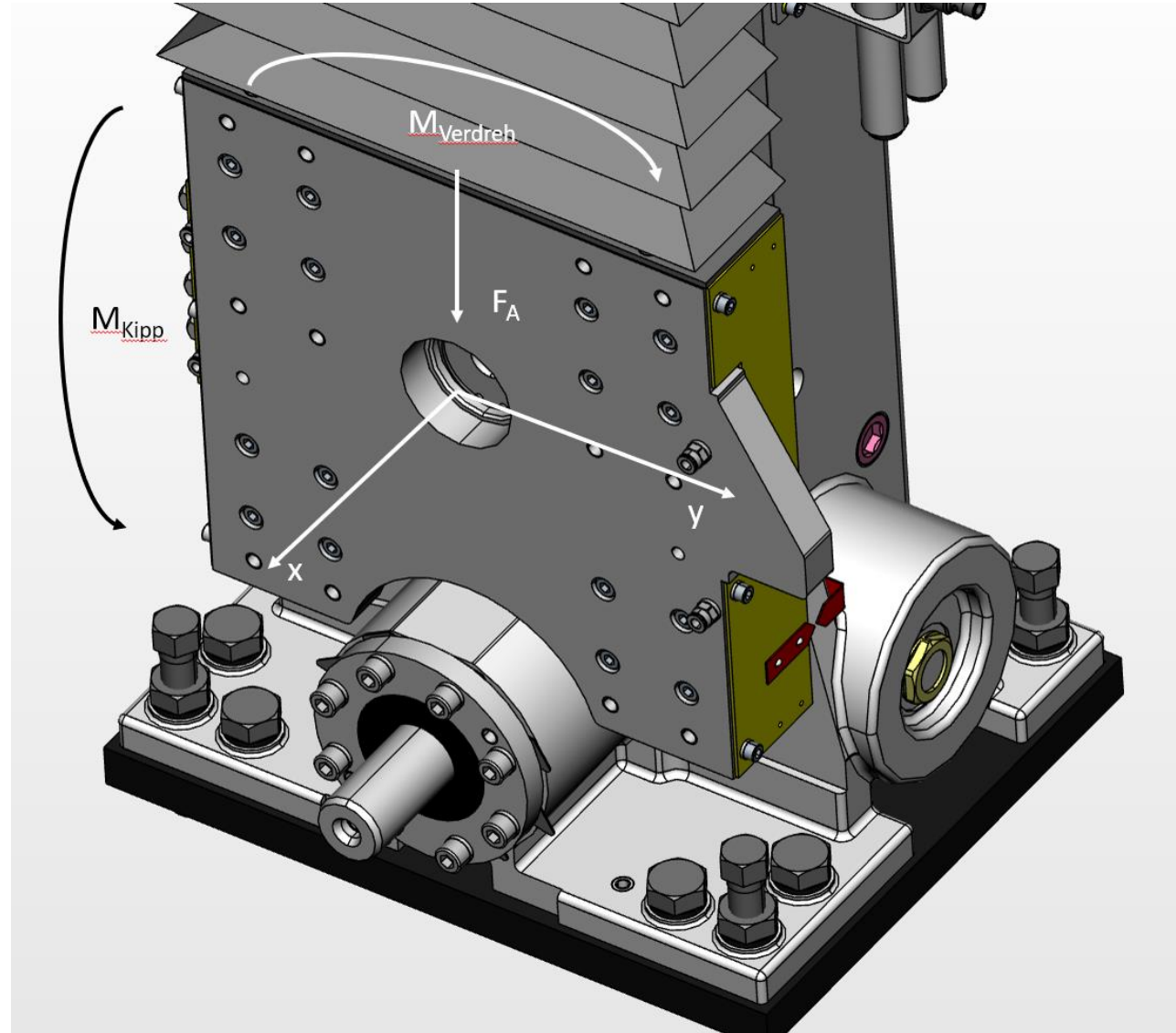
Technical specifications

maximum loads
on slider

$$M_{\text{Tilt}} = 5228\text{Nm}$$

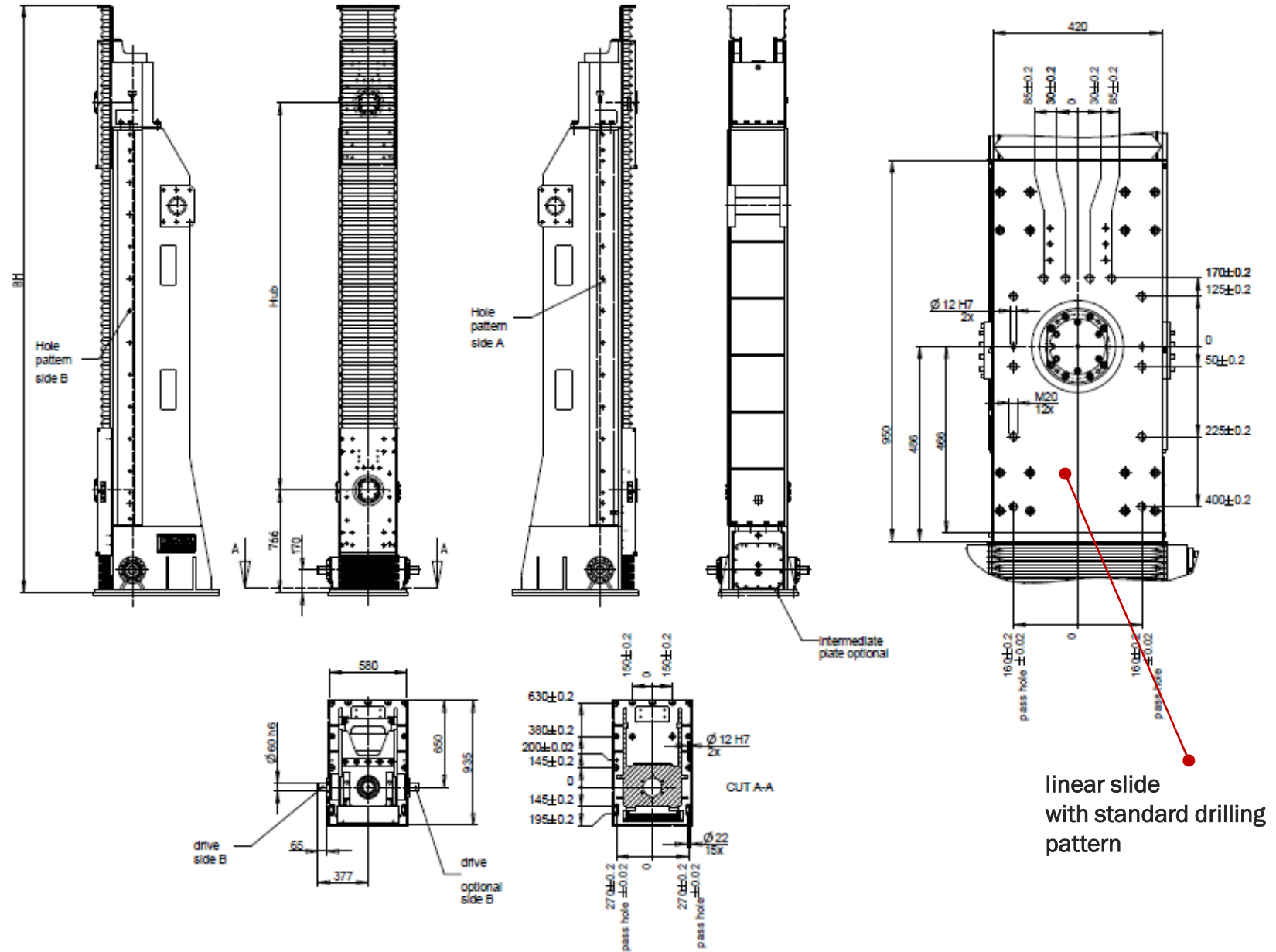
$$M_{\text{offset}} = 5228\text{Nm}$$

$$F_A = 11513\text{N}$$



EH23 - Type 3
heavy duty
Technical data sheet

Stroke (mm)	1000	1500	2000	2500	2900
Overall height BH (mm)	2600	3080	3560	4040	4400
Dimensions wxd(mm)	580x935				
weight (kg)	701	1143	1585	2027	2414



EH23 - Type 3

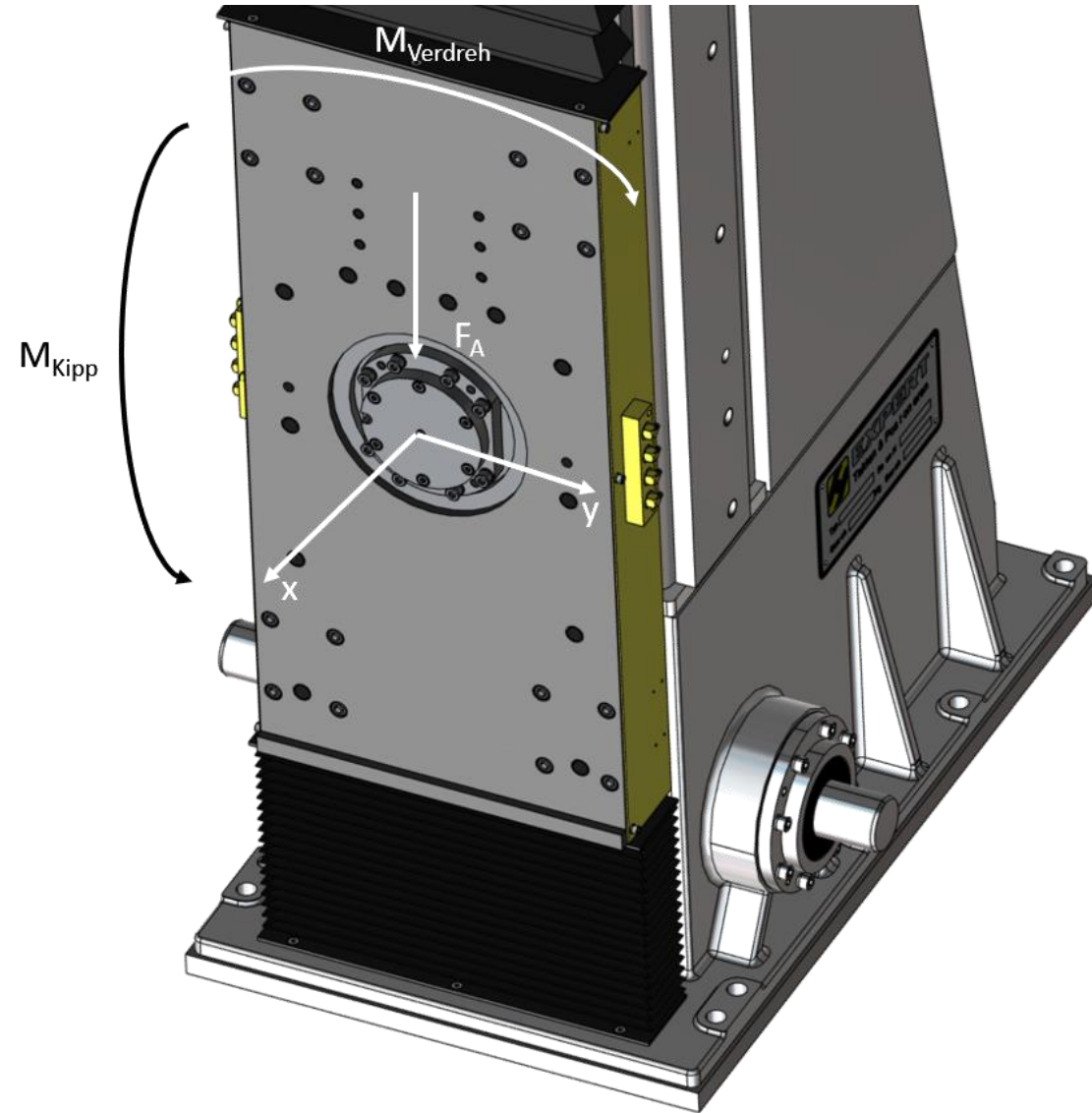
Technical specifications

maximum loads
on slider

$$M_{\text{Tilt}} = 51800\text{Nm}$$

$$M_{\text{offset}} = 51800\text{Nm}$$

$$F_A = 26737\text{N}$$



Data Sheets

EH12G > [link](#)
EH18S > Link (Coming Soon)
EH23M > [link](#)

Standard 3D models

EH12G > [link](#)
EH18S > Link (Coming Soon)
EH23M > [link](#)

more strokes,
types, interfaces and
models available on
request.

References

Automobil Manufacturers



Line Builders



Other Branches



We thank for Your attention

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