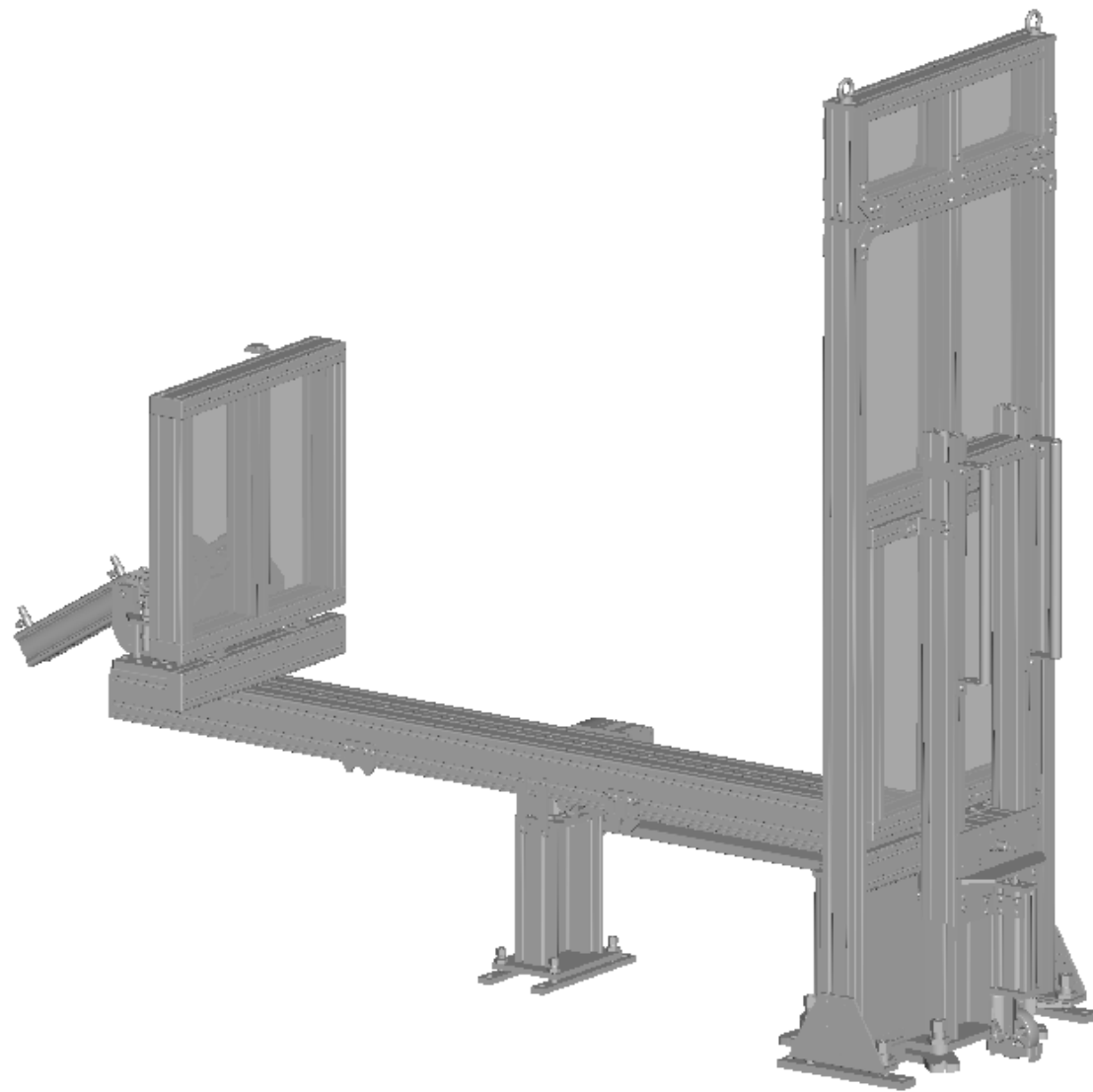


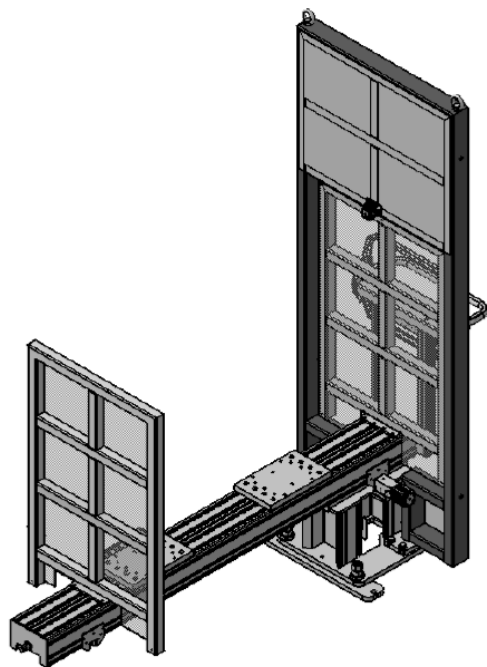
SLUICE DRAWER Index D

Osterhofen
2025-05-15

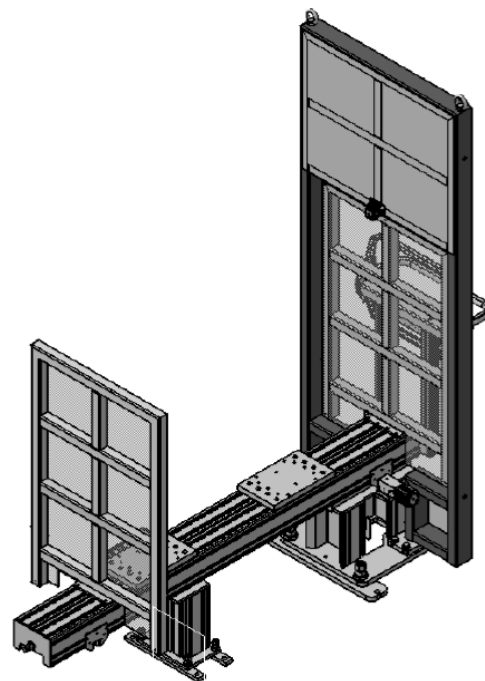


SLUICE DRAWER

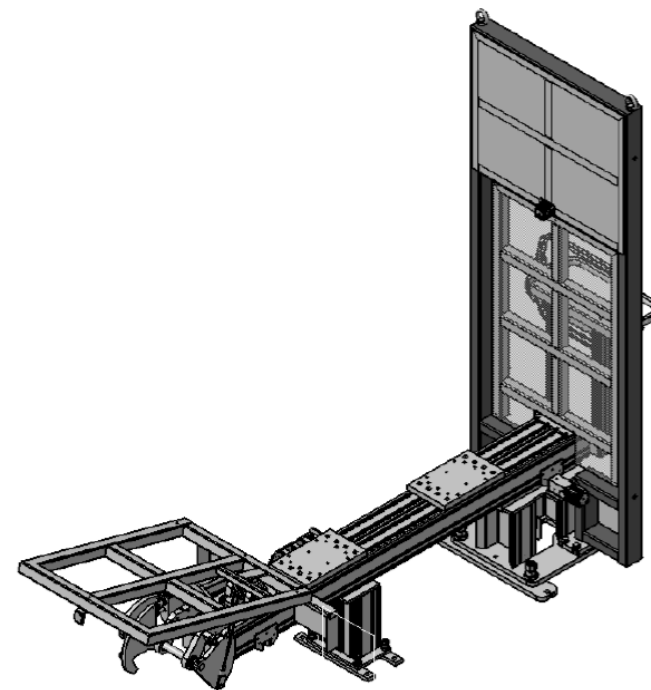
01. Types



Basic version
Type code „G“



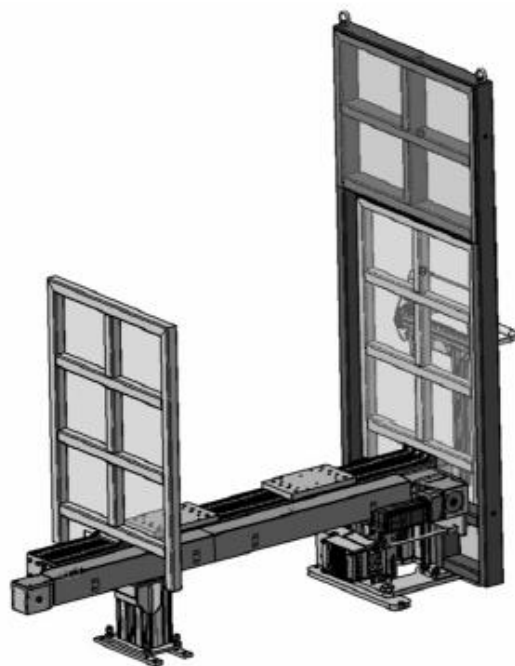
Basic version + support roll
Type Code „GS“



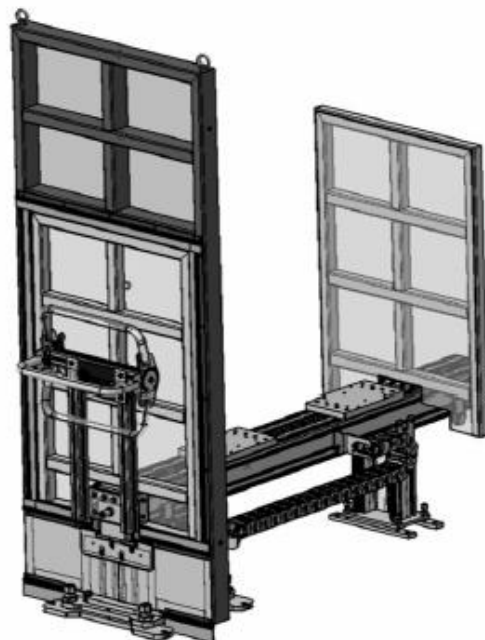
Basic version + support roll + tiltable window
Type code „GSK“

SLUICE DRAWER

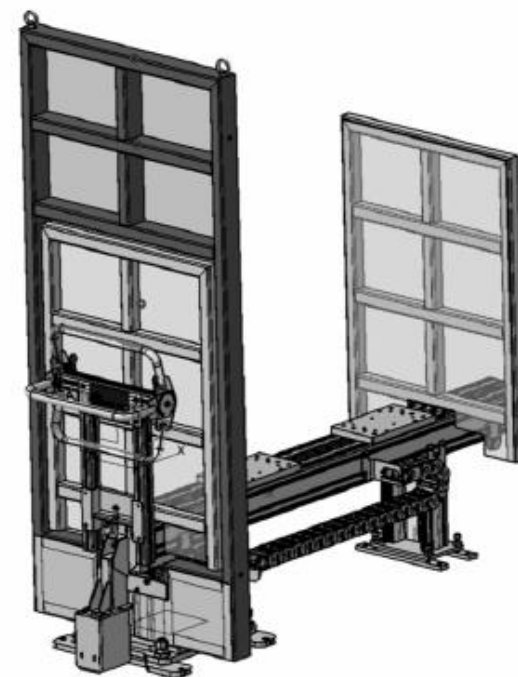
01. Types



**Basic version + support roll +
electric drive**
Type Code „GS-EA“



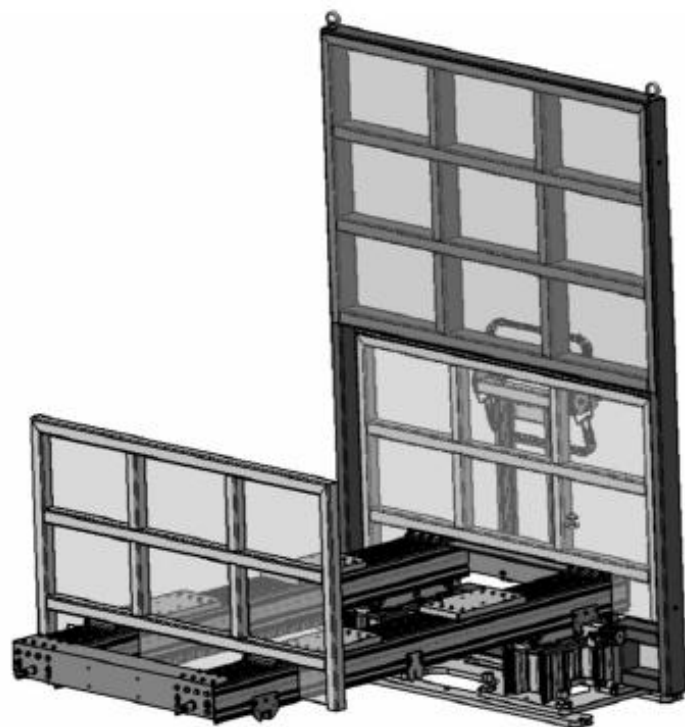
TecSa Option
Type Code „G/GS/GSK+SSD“



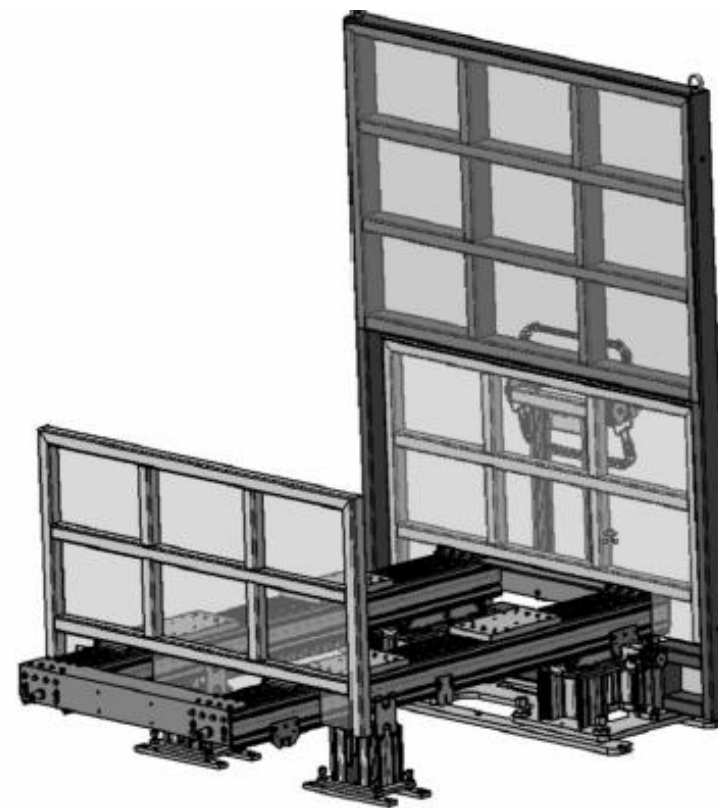
Support roll mobile Option
Type Code „G/GS/GSK+SREF“

SLUICE DRAWER

01. Types



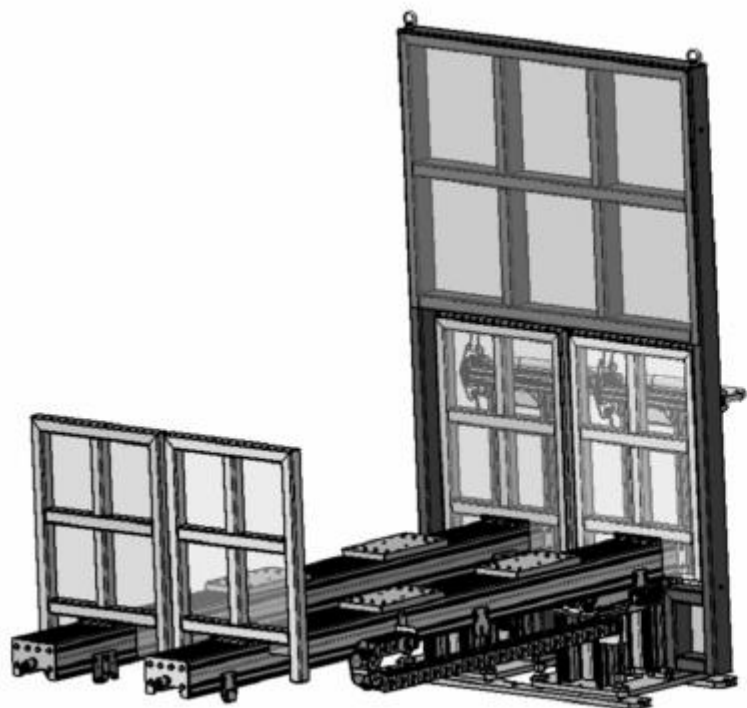
Basic version Double-drawer
Type Code „Doppel-G“



Basic version Double-drawer + support roll
Type Code „Doppel-GS“

SLUICE DRAWER

01. Types



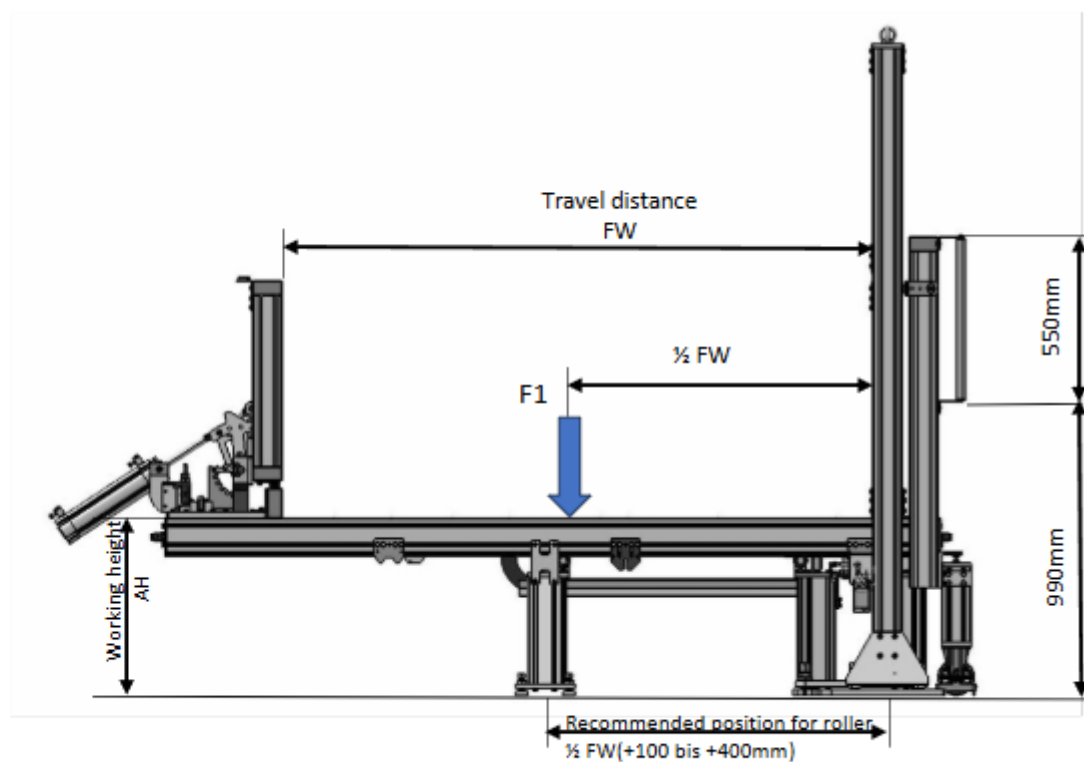
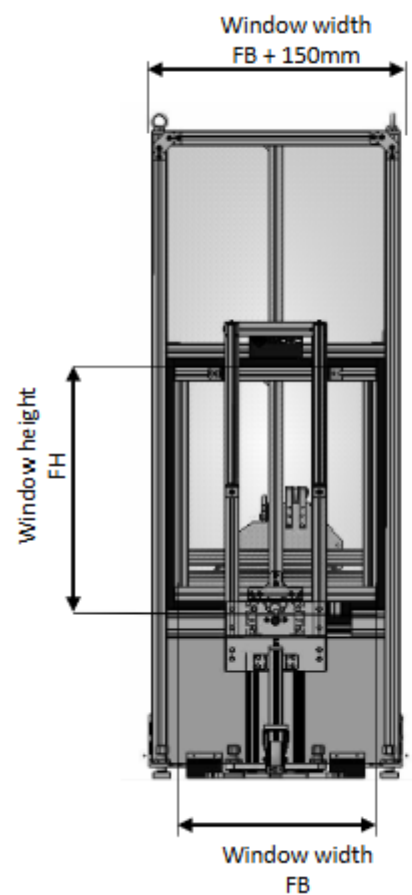
Basic version TWIN-drawer
Type Code „TWIN-G“



Basic version TWIN-drawer + support roll
Type Code „TWIN-GS“

SLUICE DRAWER

02. Dimensions and Abbreviations



sluice length -	FW
window height -	FH
window wide -	FB
setup high -	AH
angle tiltable window -	WKF
setup mounting -	AP



adjustable handle with
locking pin

SLUICE DRAWER

03. Available Dimensions:

version	sluice length mm (FW)	window height mm (FH)	window wide mm (FB)	setup hight (AH)	tiltable window (WKF) GSK only	Qty mounting plates (AP)
G	500	100	500	425	15°	1
GS	600	200	600	500	30°	2
GSK	700	300	700	600	45°	3
	800	400	800	700	60°	
	900	500	900	800	75°	
	1000	600	1000		90°	
	1100	700	1100			
	1200	800	1200			
	1300	900				
	1400	1000				
	1500	1100				
	1600	1200				
	1700	1300				
	1800	1400				
	1900	1500				
	2000	1600				
	2100	1700				
	2200					
	2300					
	2400					
	2500					
	3000					
	3500					
	4000					
	4500					
	5000					

additional
- support roll and
- moving support roll worker side
necessary

SLUICE DRAWER

03. Simple quotation request via website:

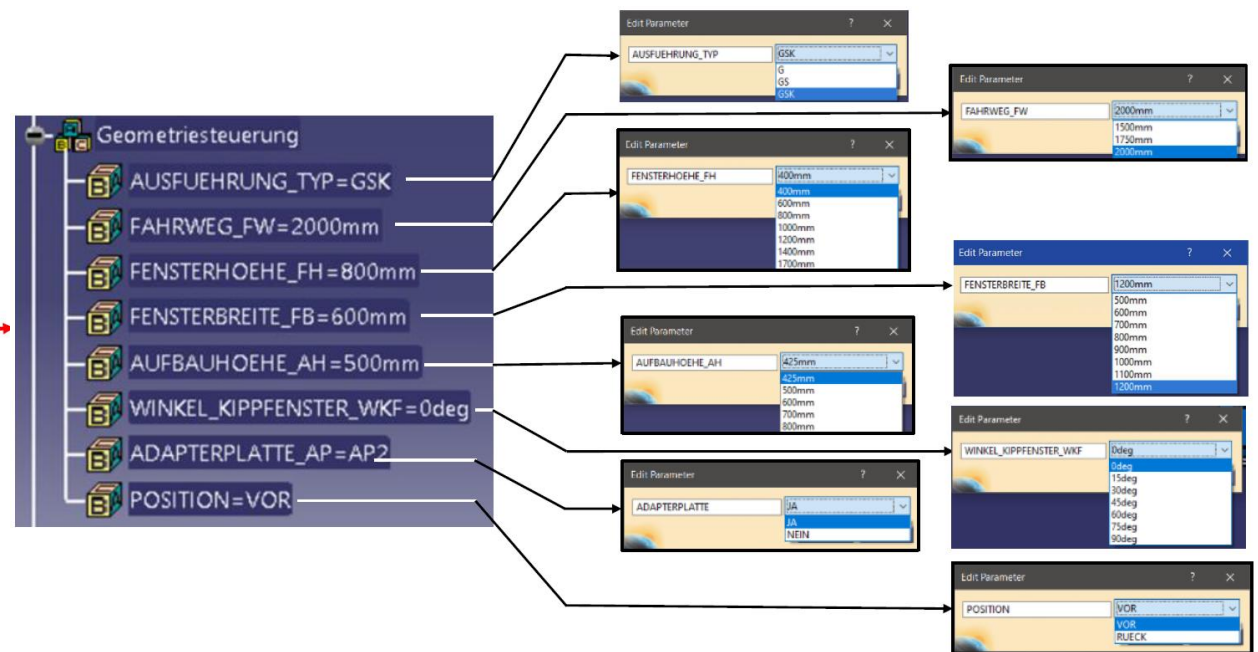
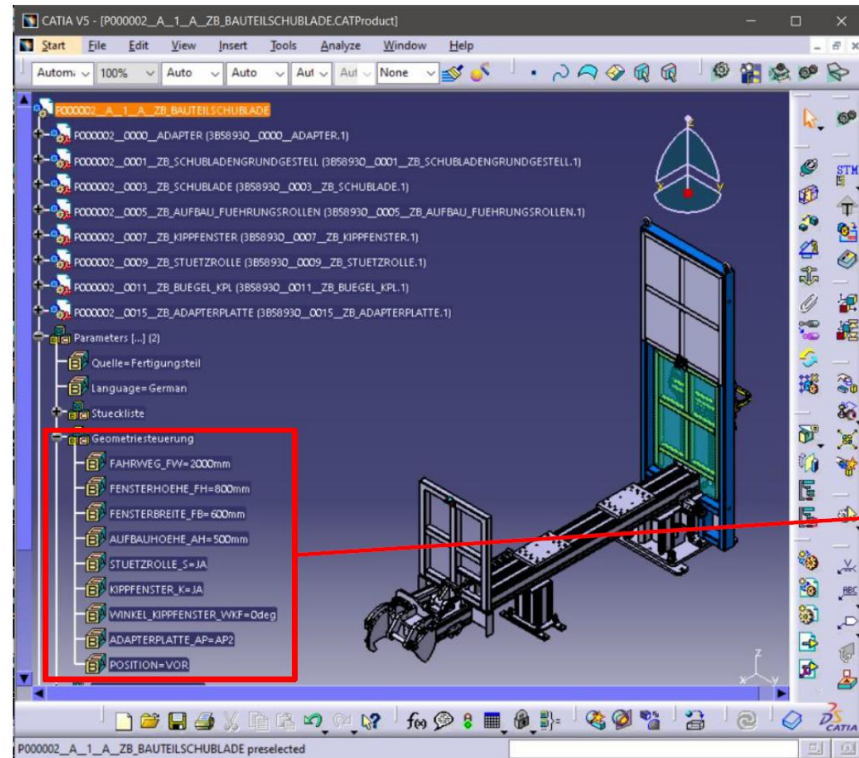


Configure your Sluice Drawer via our website:

www.multinorm.gmbh

SLUICE DRAWER

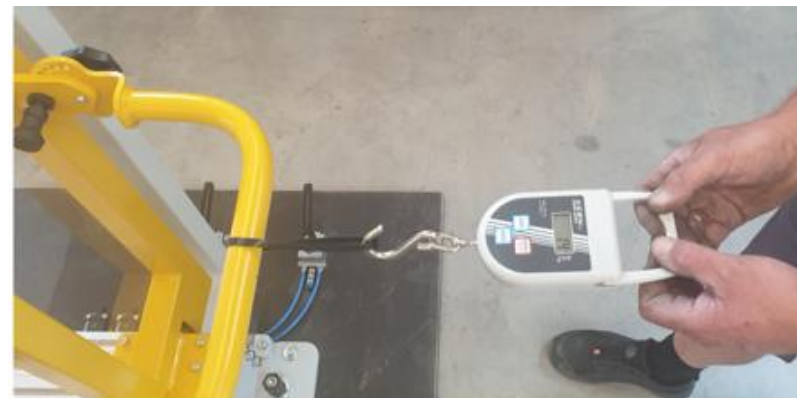
04. Geometric control CAD



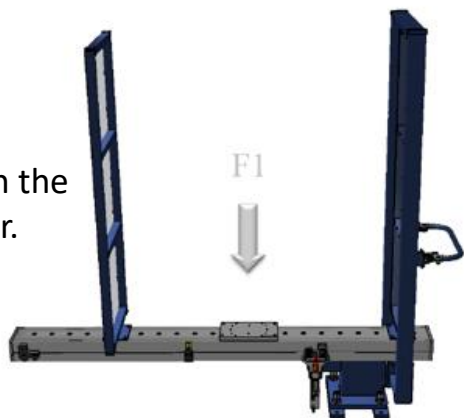
SLUICE DRAWER

05. Payload

payload	starting force	centred travel force	
0 kg	19 N	18 N	target
	~21 N	~18 N	Multinorm
75 kg	43 N	21 N	target
	~23 N	~21 N	Multinorm
125 kg	51 N	20 N	target
	~23 N	~21 N	Multinorm
Travelling forces were measured with calibrated spring scales on a sample drawer with 2000 mm stroke and tilting window			



maximum payload in the middle of the drawer.



Maximum drawer load in the middle of the travel path, standard version		
Version	G	GS/GSK
Travel distance FH mm	F1 max./Kg	F1 max./Kg
1500	200	300
1750	175	275
2000	125	225

Maximum drawer load in the middle of the travel path, Special version		
Version	G	GS/GSK
Travel distance FH mm	F1 max./Kg	F1 max./Kg
>1500	200	300
2250	100	175
2500	75	125

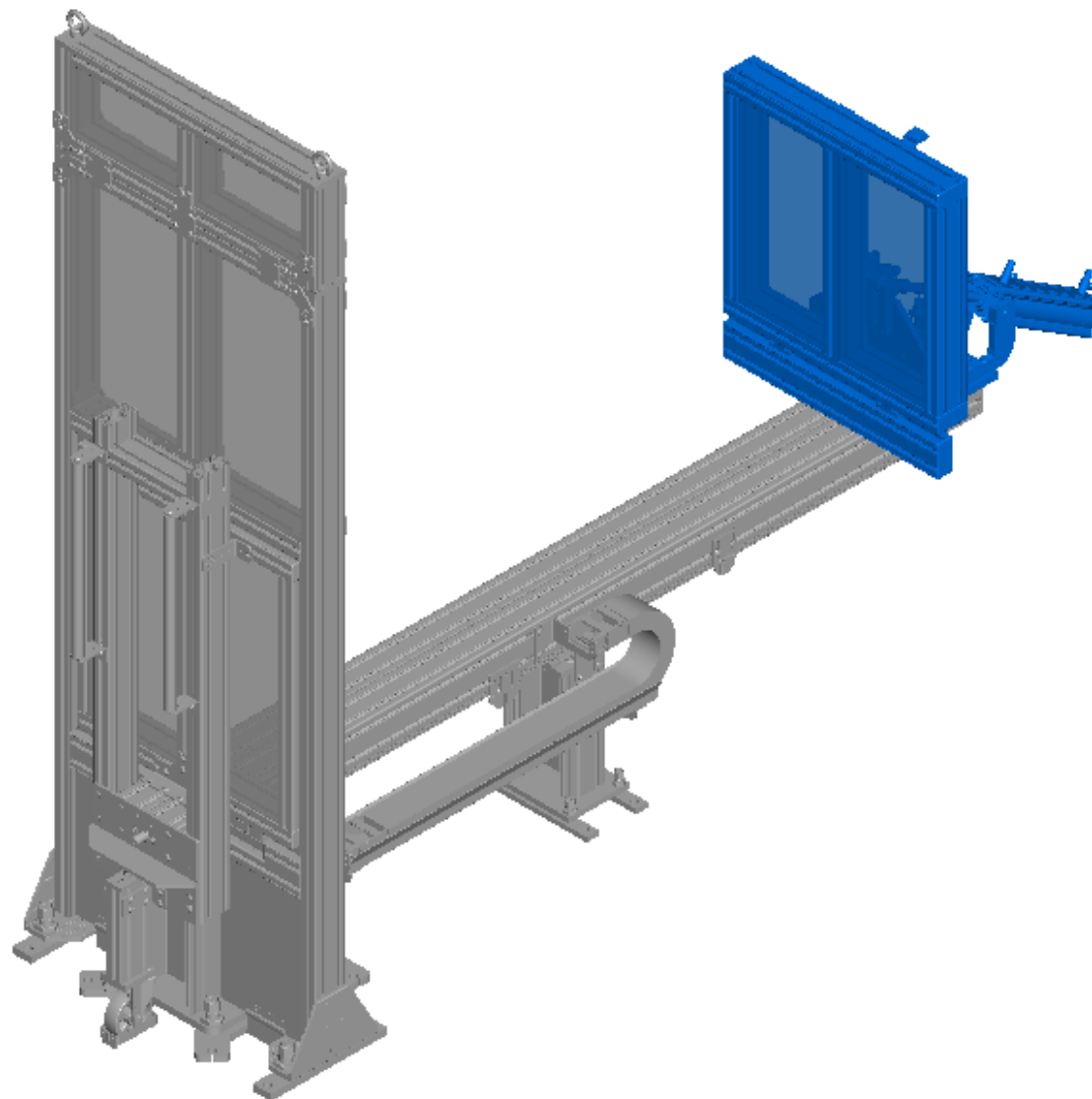
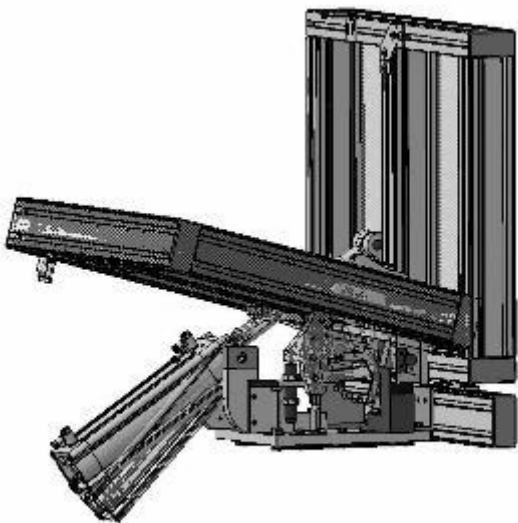
Option - Heavy Duty 25% additional payload

SLUICE DRAWER

06. Options

Tilttable Window

- in 15° steps adjustable

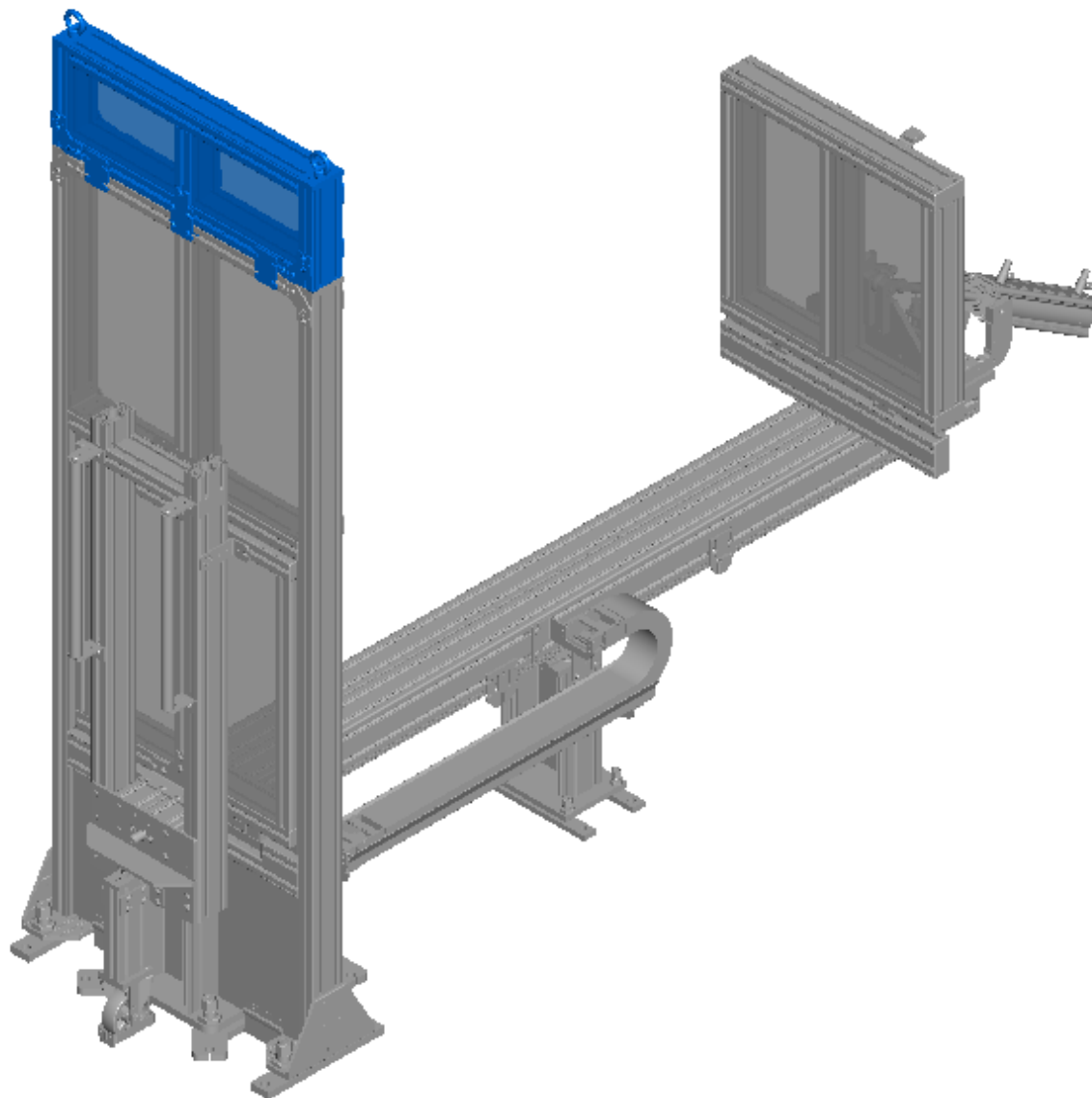


SLUICE DRAWER

06. Options

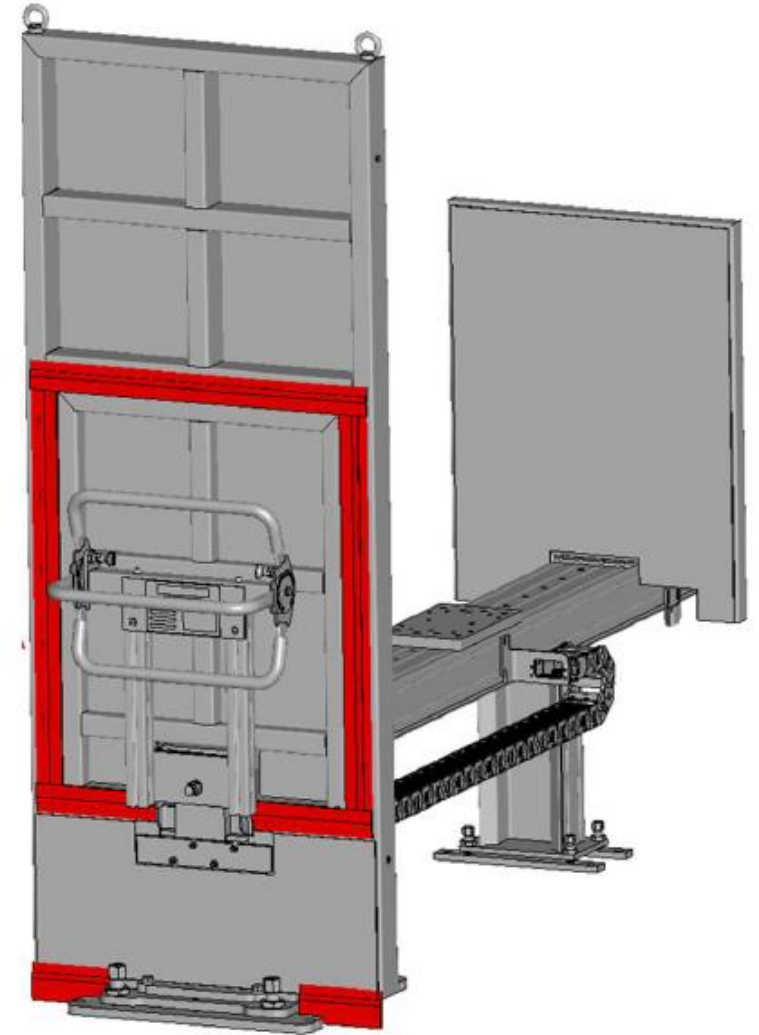
Safety fence height

- 2200 mm
- 2500 mm



SLUICE DRAWER

06. Options

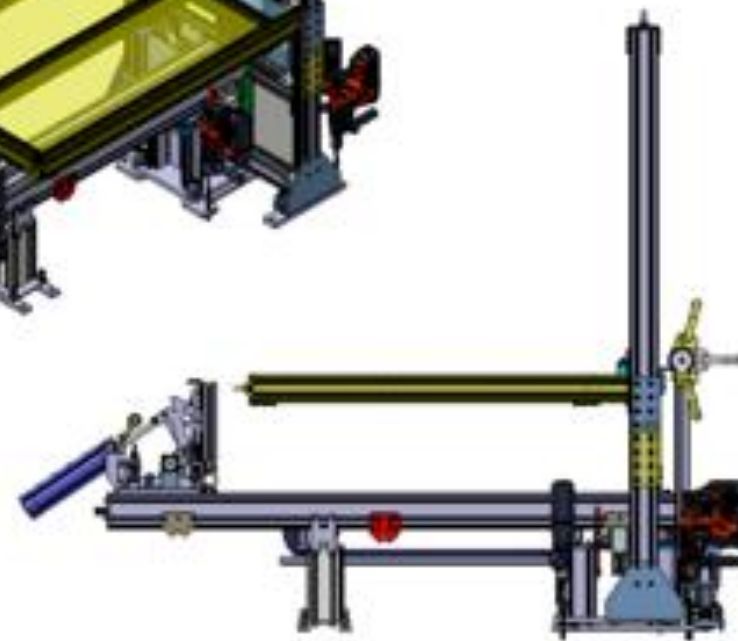
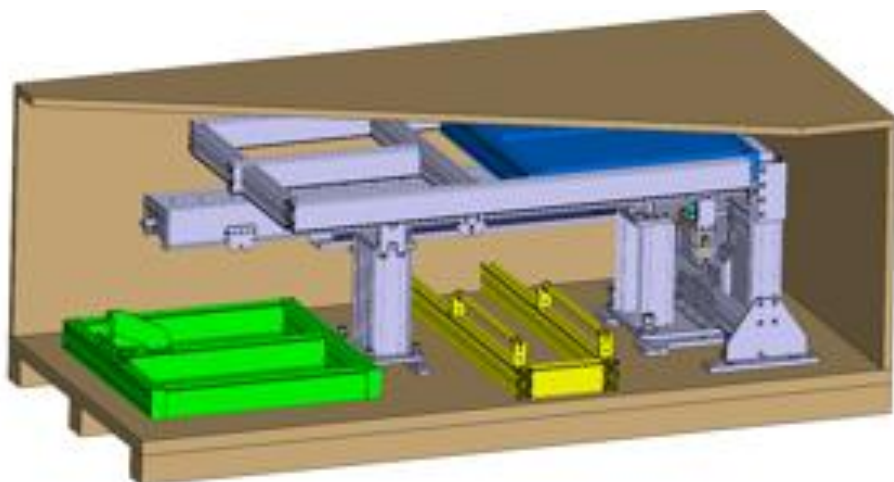


SLUICE DRAWER

06. Options

Folded Window

- Small packing size
- Easy and affordable overseas transportation

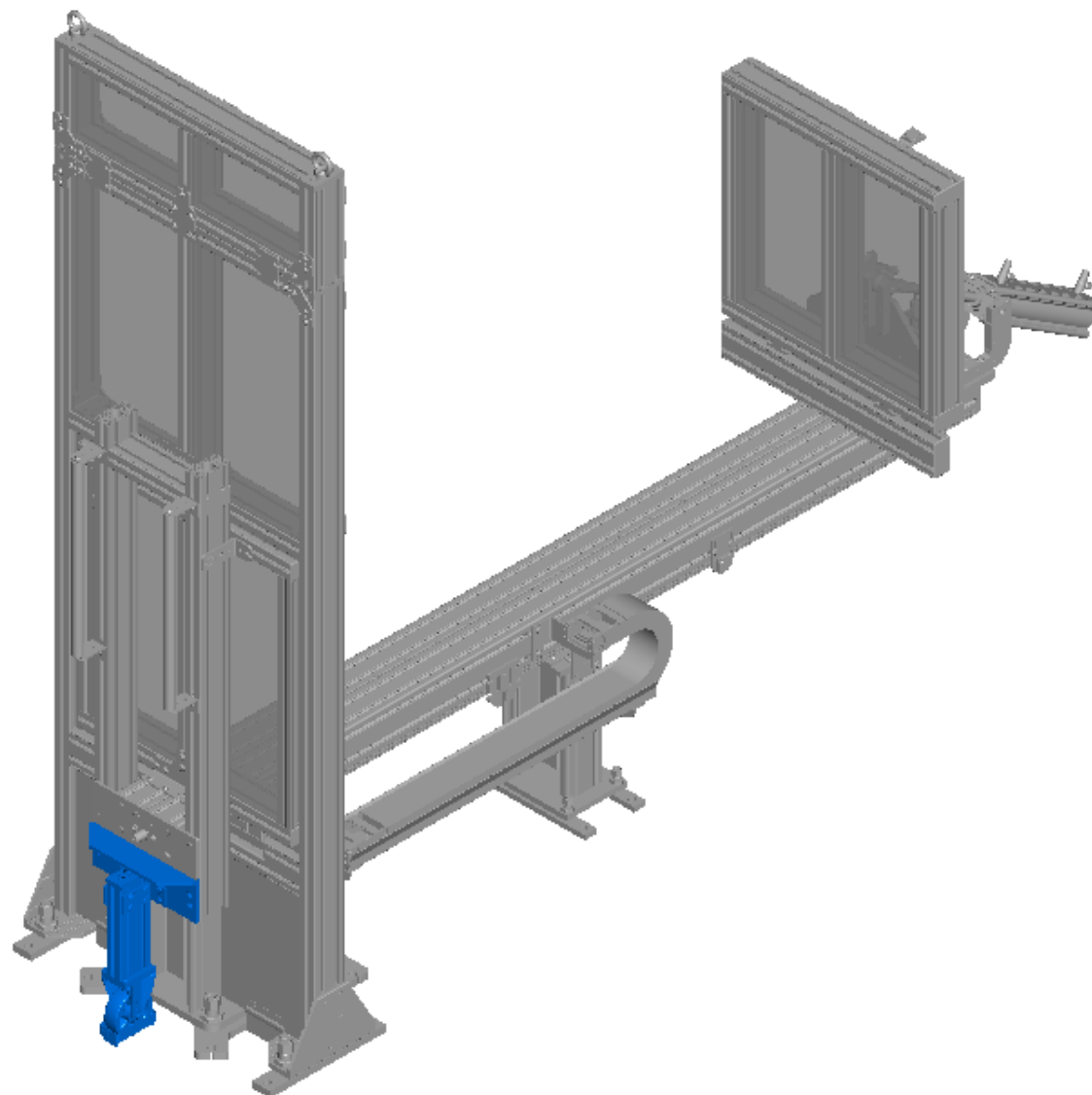


SLUICE DRAWER

06. Options

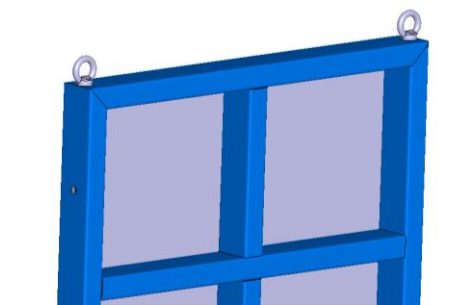
Moving support roll on worker side

- For heavy parts



SLUICE DRAWER

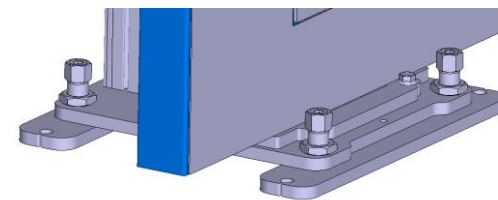
07. Transportation, Assembly



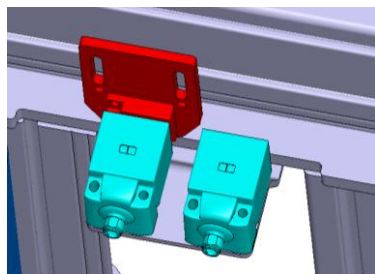
Transport eyes



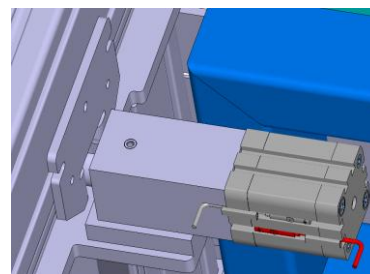
Transport position



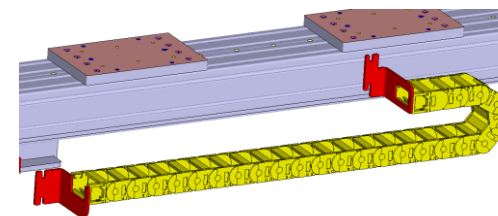
Base plates with adjustable screws



**Safety switch
forward/backward**



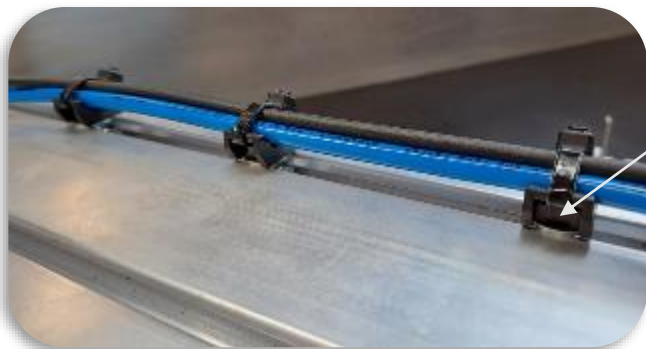
Compact cylinder



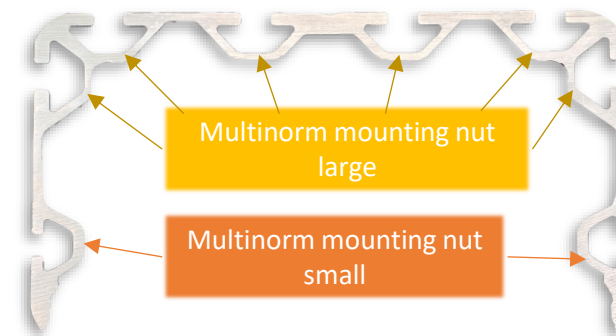
energy supply chain

SLUICE DRAWER

08. Installation



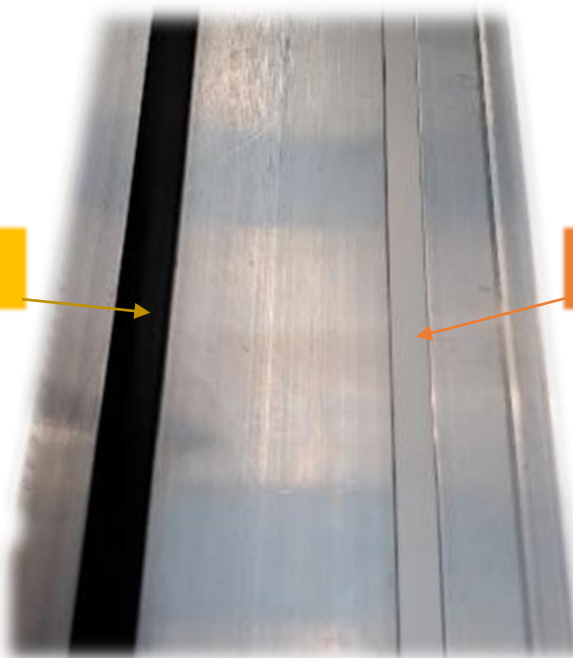
mounting nut Multinorm
covering profile nut small or large



Cross-sectional view of the outer contour of
the Multinorm aluminium profile



Covering profile
Multinorm large

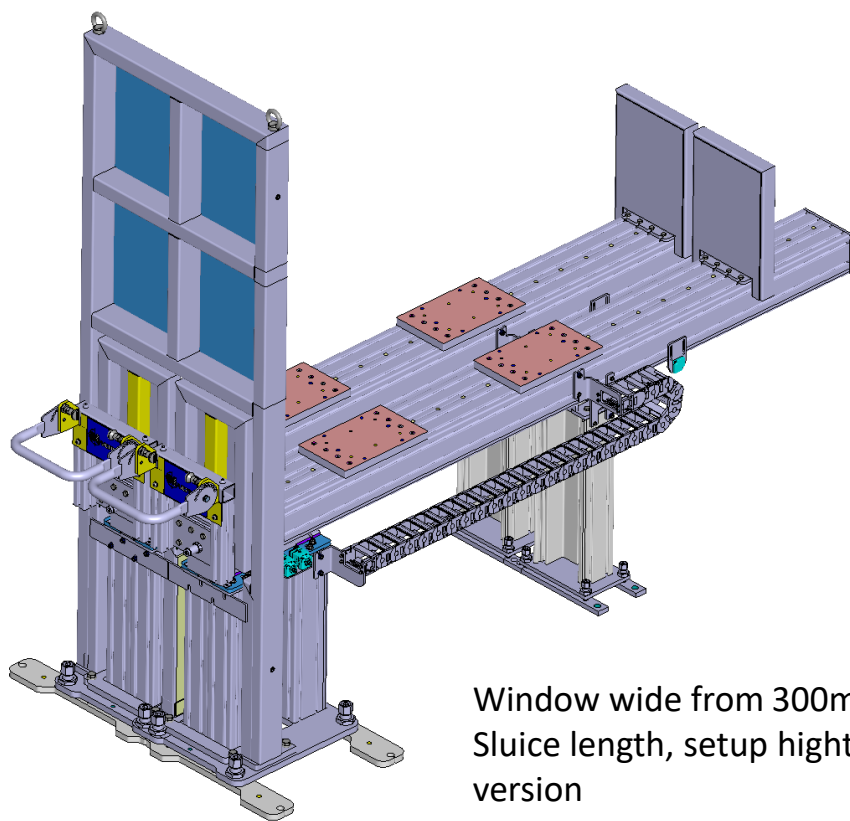


Covering profile
Multinorm Profilnut small

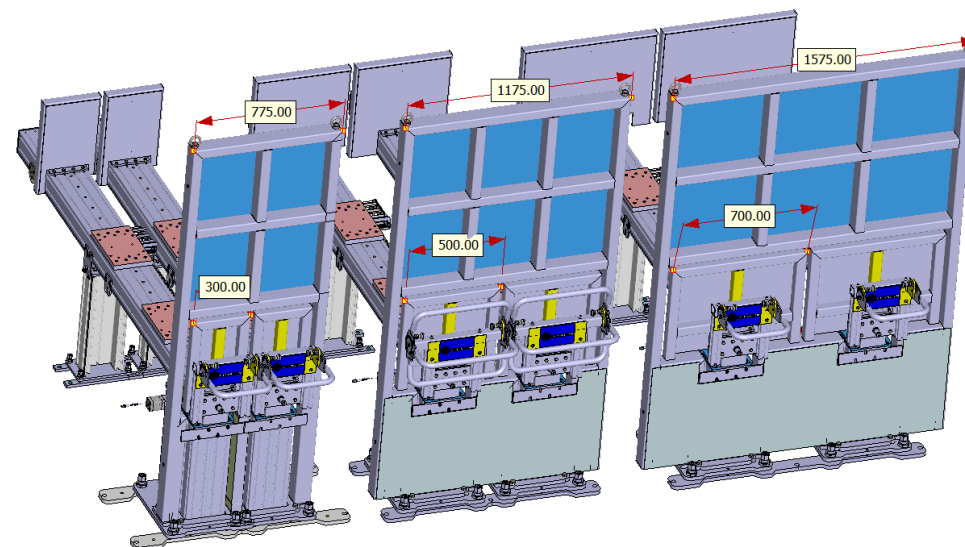


SLUICE DRAWER

09. TWIN Version



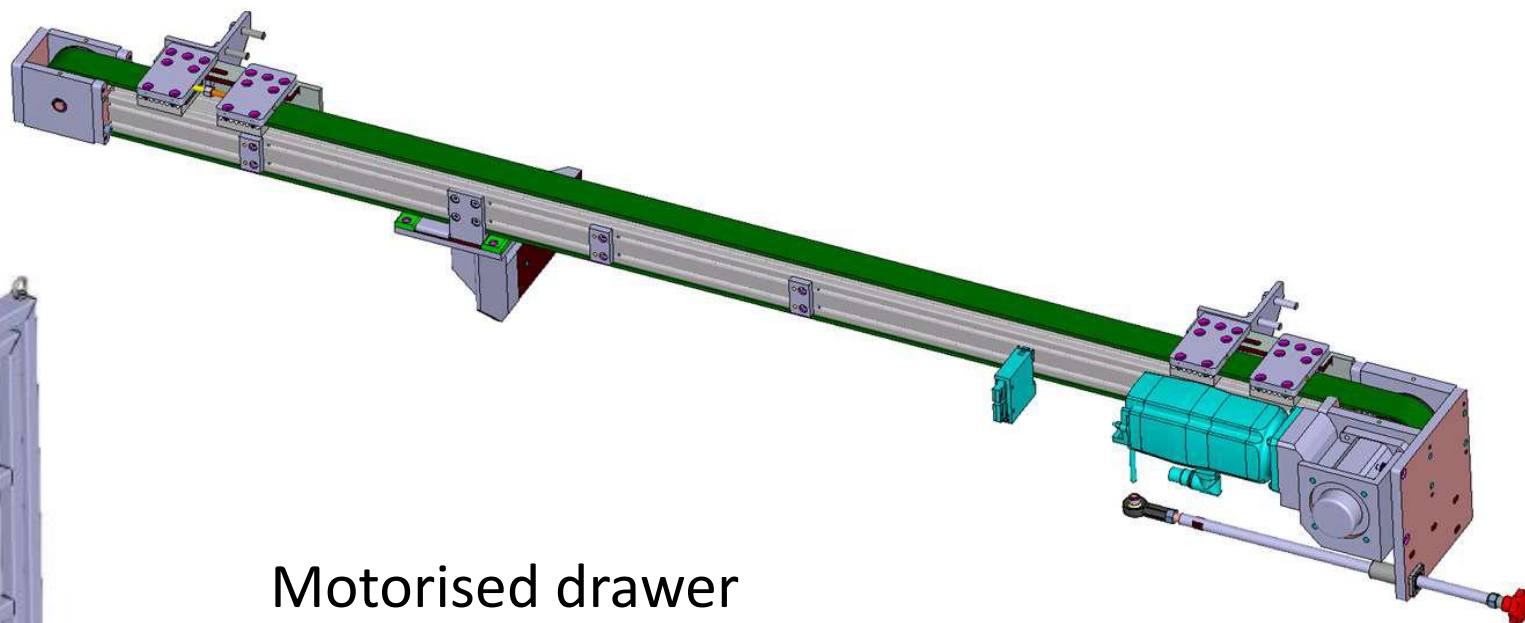
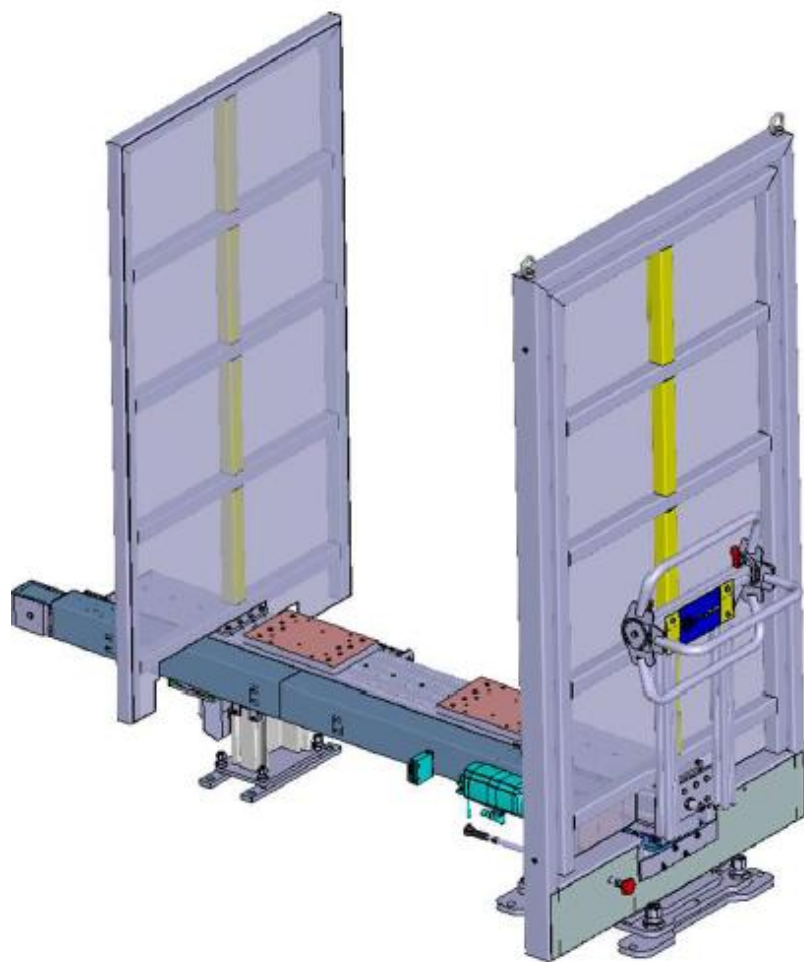
Window wide	Total wideness standard-version	Total wideness Twin-version	Saved space in mm	Saved space in %
300mm	925	775	150	-16%
500mm	1325	1175	150	-11%
700mm	1725	1575	150	-9%



Window wide from 300mm till 700mm in 100mm steps.
Sluice length, setup high and window high parameterised like standard-version

SLUICE DRAWER

10. Automatic Version

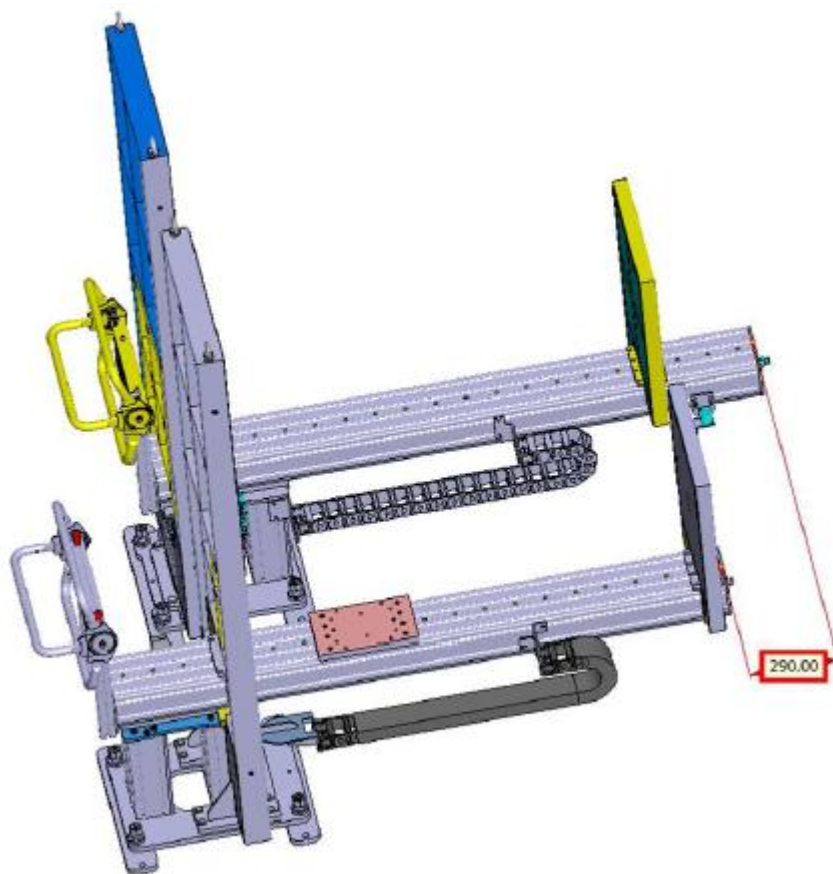


Motorised drawer

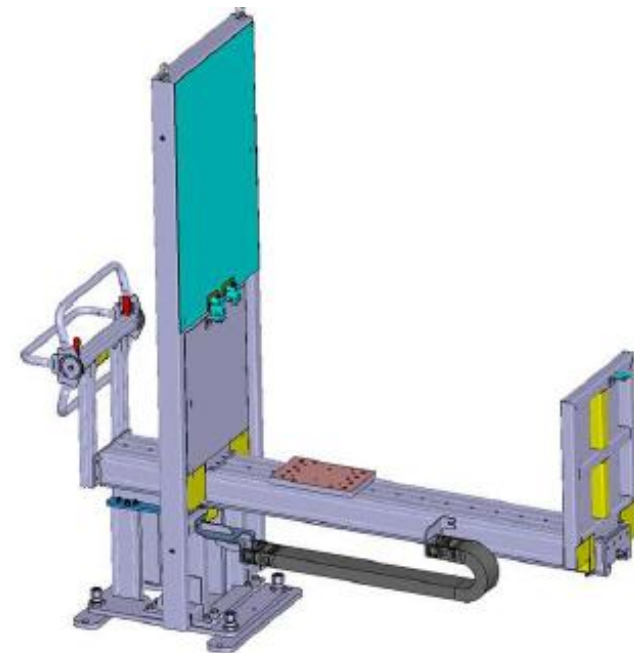
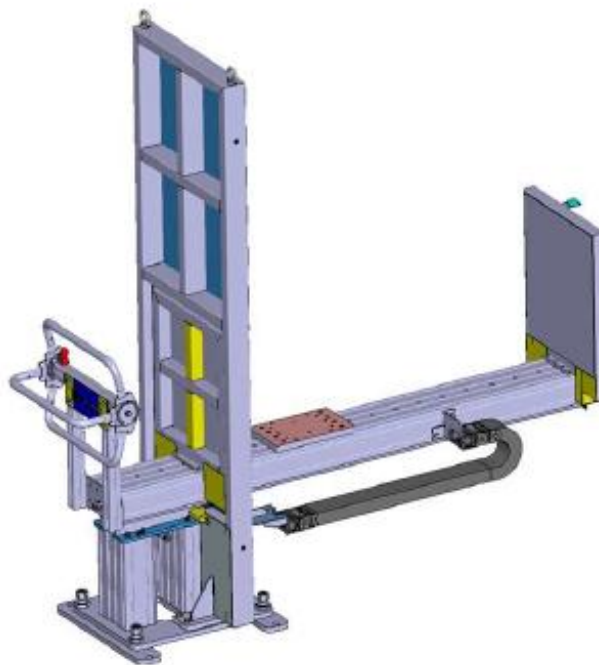
- Travelling speed 250mm/sec.
- braking distance 10mm
- max. max. load 400kg
- min. window width 600mm
- support roller provided
- External safety (laser scanner)

SLUICE DRAWER

11. Guide rail on worker side



In comparison to standard drawer

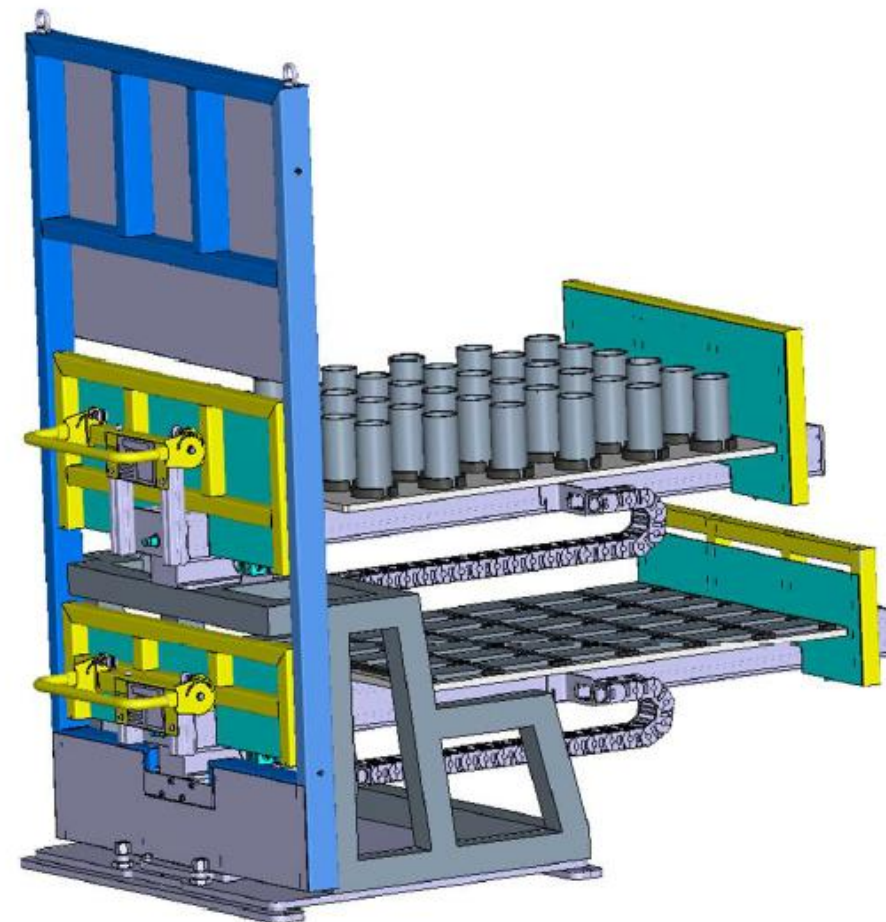
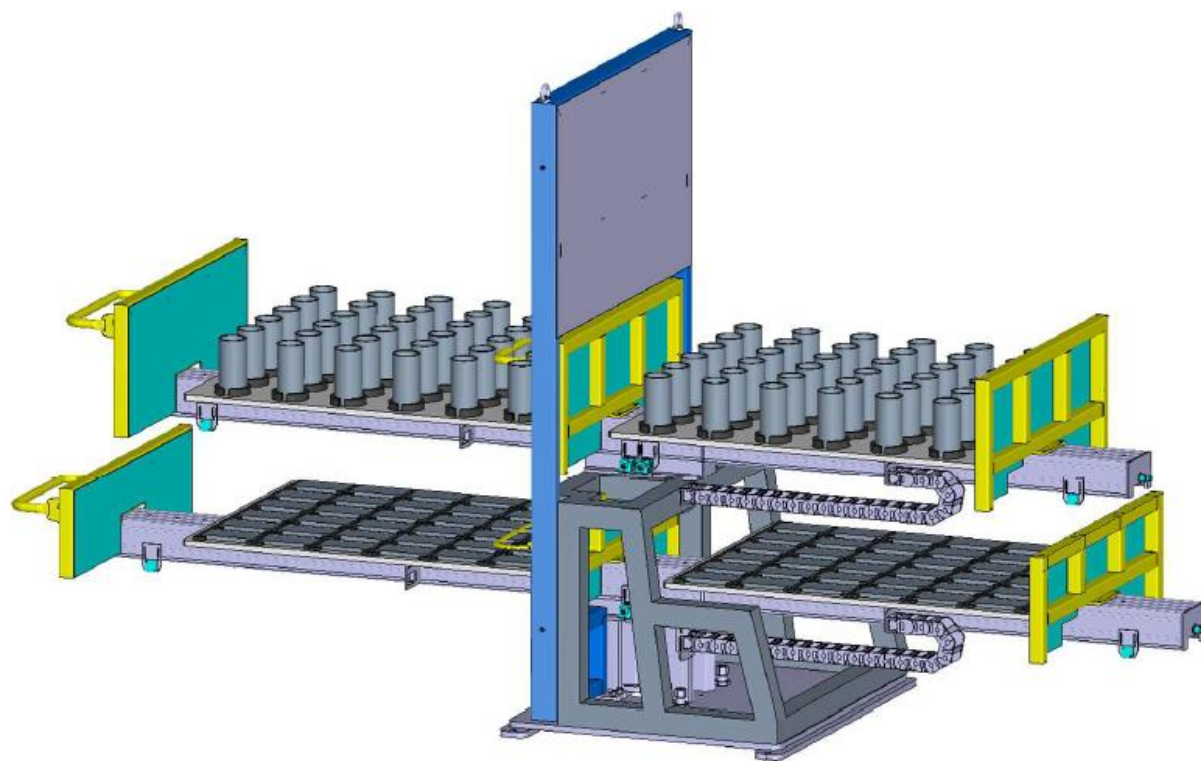


Guide rail on worker side

By moving the drawer guide rail from the system side to the worker side, the space requirement on the system side is reduced by 290 mm.

SLUICE DRAWER

12. Version Double-Floor



SLUICE DRAWER

13. Life-Time permanent test



Test 08.02.2023 to 23.05.2023

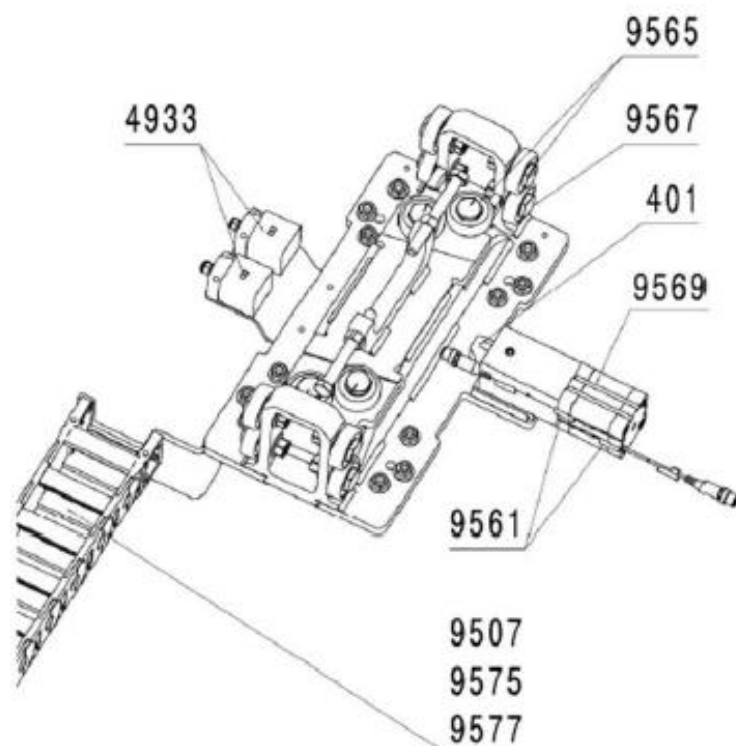
- Travelling distance 2000mm
- 2 shifts of 8 hours each
- Load 250kg-250,500 cycles (opening/closing)
- 1,002,000m (1000km) working distance

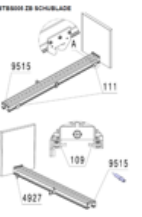
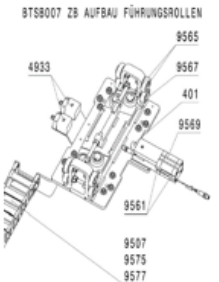


SLUICE DRAWER

14. Spareparts

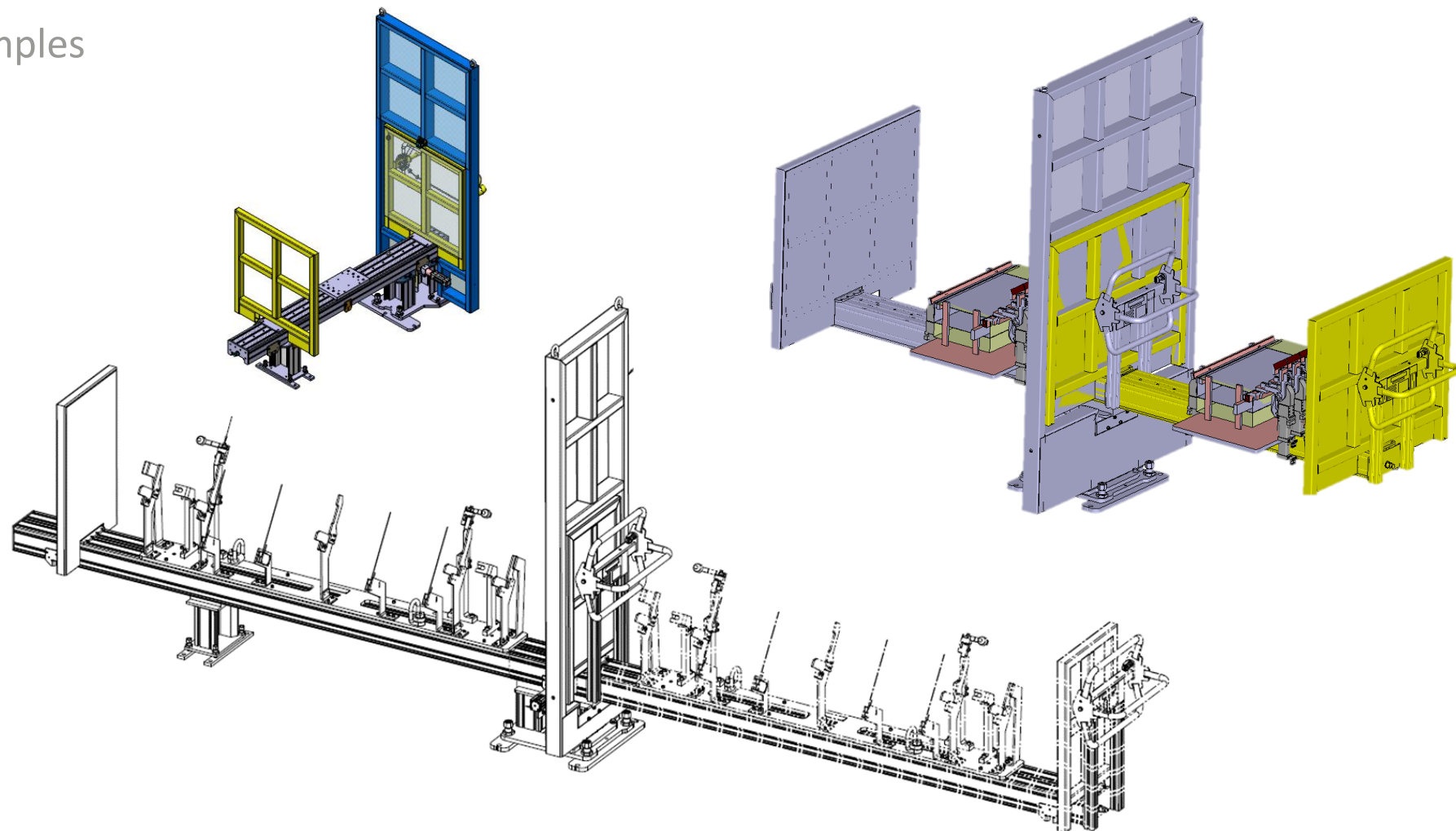
BTSE007 ZB AUFBAU FÜHRUNGSROLLEN



SEMI-FG	picutre	sparepart P/N	pcs/drawer MOQ	description
BTSE0003		4933	1	safety switch
BTSE0005		111	2	positioning plate
BTSE0005		109	2	guiding rail 1500mm
BTSE0005		109	2	guiding rail 1750mm
BTSE0005		109	2	guiding rail 2000mm
BTSE0005		4927	2	operator
BTSE0005		9515	2	shock absorber
BTSE0007		401	1	locking pin
BTSE0007		9567	4	centric roller
BTSE0007		9565	8	eccentric roller
BTSE0007		9569	1	compact cylinder
BTSE0007		9561	2	proximity sensor
BTSE0007		4933	2	safety switch
BTSE0007		9507	1	guiding rail 1500mm
BTSE0007		9575	1	guiding rail 1750mm
BTSE0007		9577	1	guiding rail 2000mm

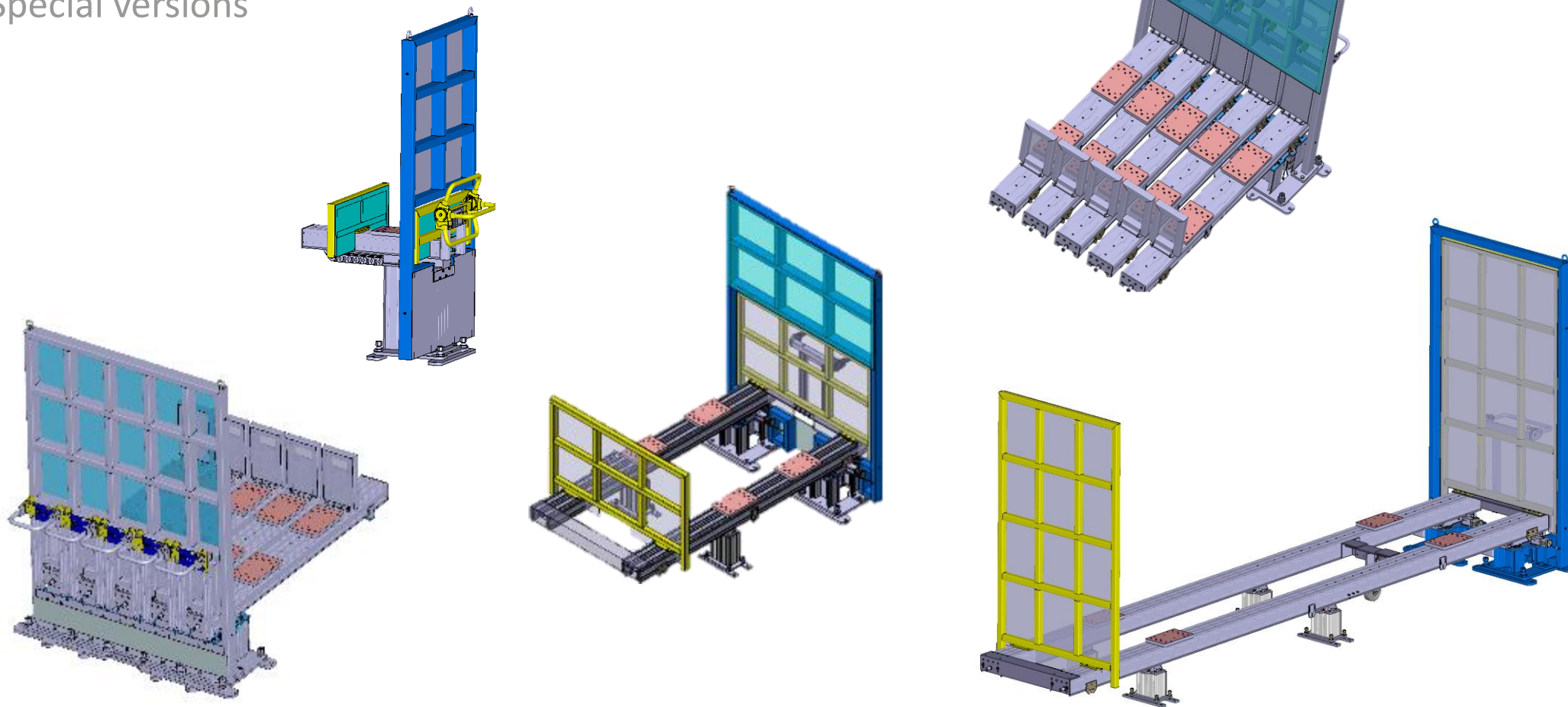
SLUICE DRAWER

15. Practical examples



SLUICE DRAWER

16. Special versions



SLUICE DRAWER

17. Images from production line



SLUICE DRAWER

18. Packaging



Safe loading by forklift possible. (2x eyebolts in the base frame)!

Optional: for sea freight in special made wooden boxes for high weight and bulky devices incl. corrosion-resistant packaging materials (vpCI foil and absor-gel)



Assembly instruction with each drawer

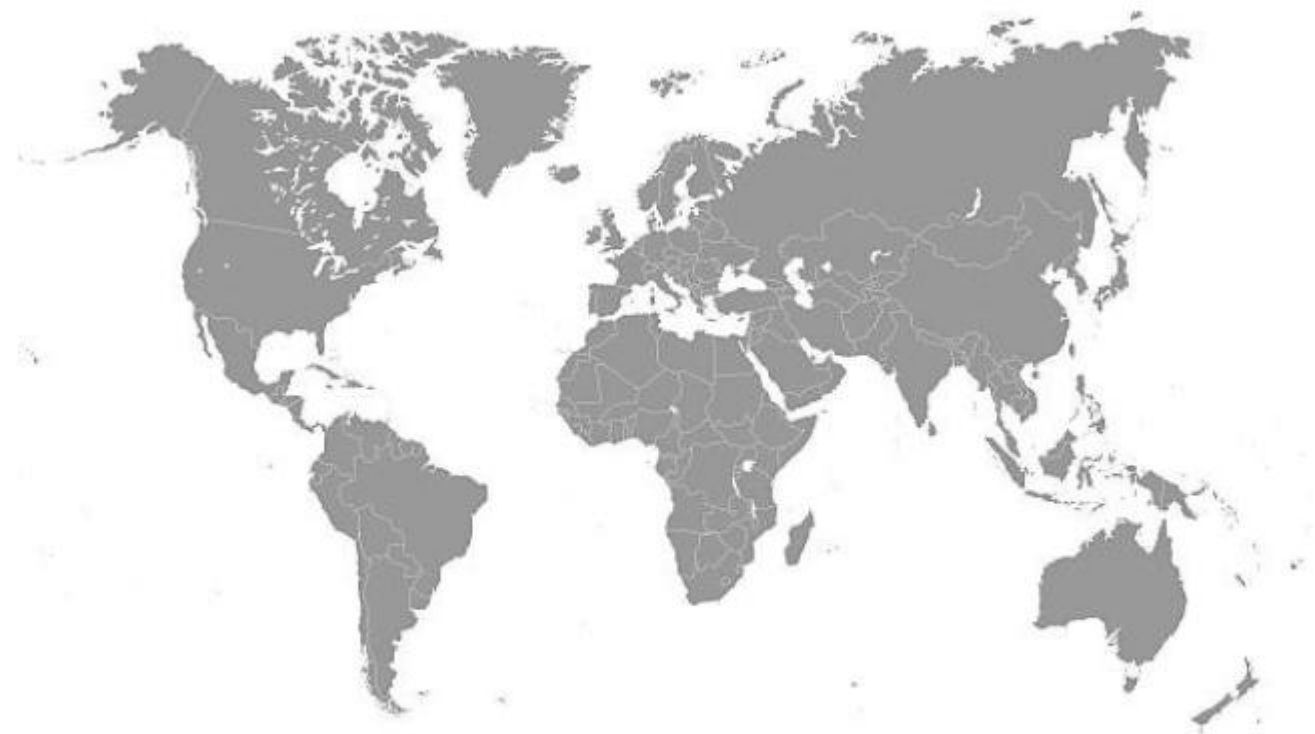
SLUICE DRAWER

19. Technical data

- maximum environmental temperature: 50 °C
- minimum environmental temperature : 0 °C
- Technical availability: 99 %
- Service life of drawer: 350.000 cycles
- Average operating time until failure: 12 years [period of time]
- Protection class IP65: yes
- Fire safety class: B2
- Ozone/UV-resistance: yes
- Welding spatter resistance: yes
- LABS-conform: yes
- acoustic immission (acoustic pressure/acoustic performance): 75 dB (A) in 1 m
- maximum hight above sea level: 2000 m

SLUICE DRAWER

20. Worldwide in Use



May 2025:

- More than 900 sold drawers
- 30 customers all over the world
- 8 countries: Germany, China, Hungary, USA, Czech Republik, Austria, Romania, Mexico

Contact Person



MARTIN RÜPL

mail: martin.ruepl@multinorm.hr

phone: +49 9932 / 400 7888

MULTINORM GmbH
Am Stadtwald 50, 94486 Osterhofen

MEMBERS OF STRAMAGROUP



DEUTSCHLAND, Straubing
CHINA, Taicang
USA, Duncan, SC
MEXICO, Puebla
INDIEN, Nashik



DEUTSCHLAND, Kassel



DEUTSCHLAND,
Osterhofen

KROATIEN,
Cerna
Gradište



DEUTSCHLAND, Ottobrunn
USA, Foothill Ranch
CHINA, Shanghai
SINGAPUR