



Linear systems



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ABOUT VANSICHEN LINEAR TECHNOLOGY

Vansichen Linear Technology is a Belgian company with over 25 years of expertise in developing and manufacturing linear axis systems. We design and build our own high-quality products, offering tailor-made solutions for robot integration and automation. Known for our precision, durability, and innovation, our linear units are used in a wide range of industrial applications. From single-axis systems to complete multi-axis setups, we support your automation challenges with reliable technology. Explore our in-house product range in this catalog.



LINEAR SYSTEMS

GANTRY SYSTEMS

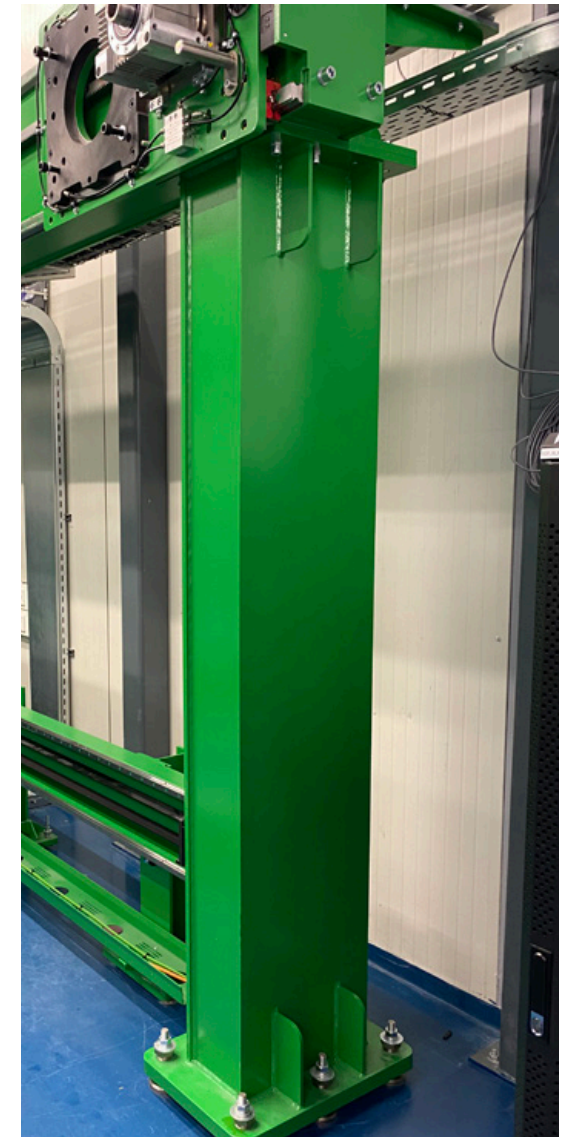
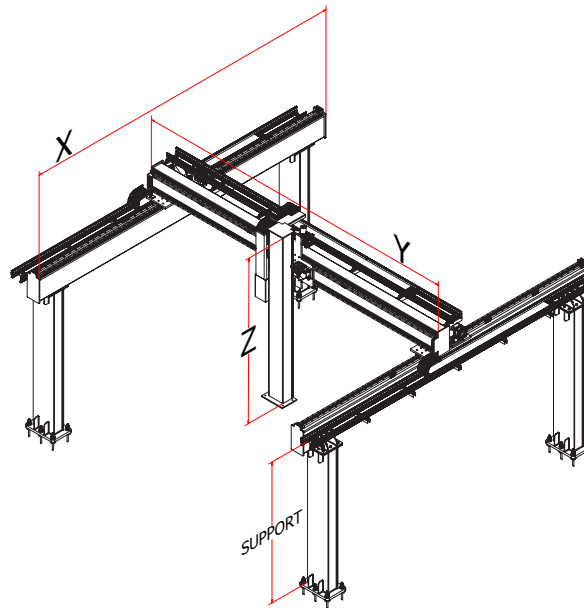
We offer six sizes ranging from 100 kg to 2,500 kg payload capacity on the Z-axis. Our gantries are systems that use ball bearing linear guideways, driven at the base by a rack and pinion mechanism. The Z-axis can be driven either by rack and pinion or by ball screw.

The corresponding Y-axis can span up to 10 meters. The X-axis require support every 6 meters and can reach a total length of up to 100 meters.

Our systems include the mechanical components, including the gearbox and energy chains. The supports can reach heights of up to 3.5 meters and are mounted using set screws.

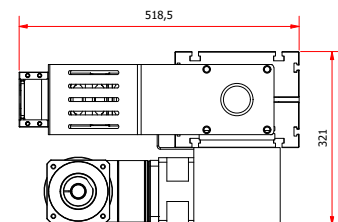
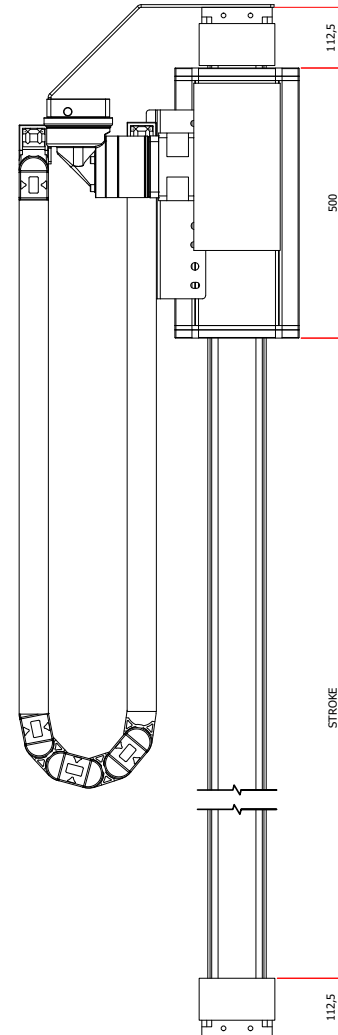
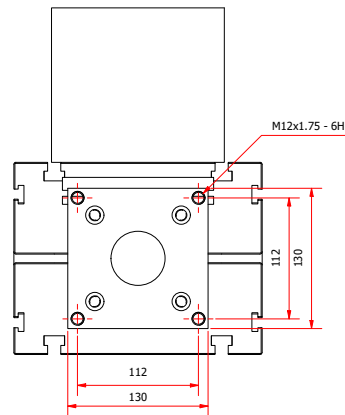
OPTIONS

- /// Z-axis can be equipped with fall protection
- /// Free choice of motor manufacturer and type
- /// Worldwide installation service
- /// Custom made solutions
- /// Higher speeds and accuracies on request
- /// RAL color of your choice



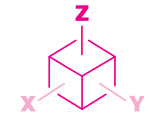
Support for the X-axis with set screw

Z-100



Z-100-BD

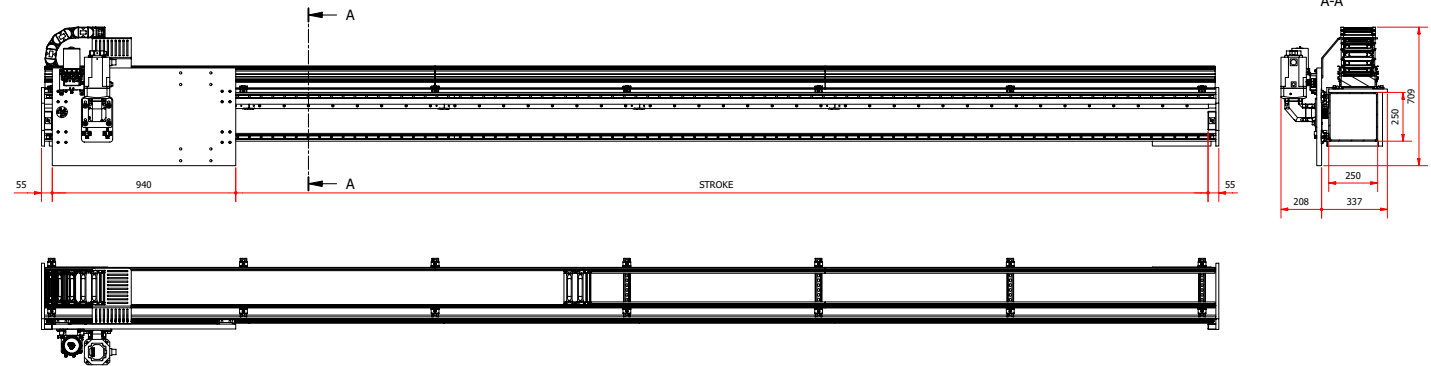
Position



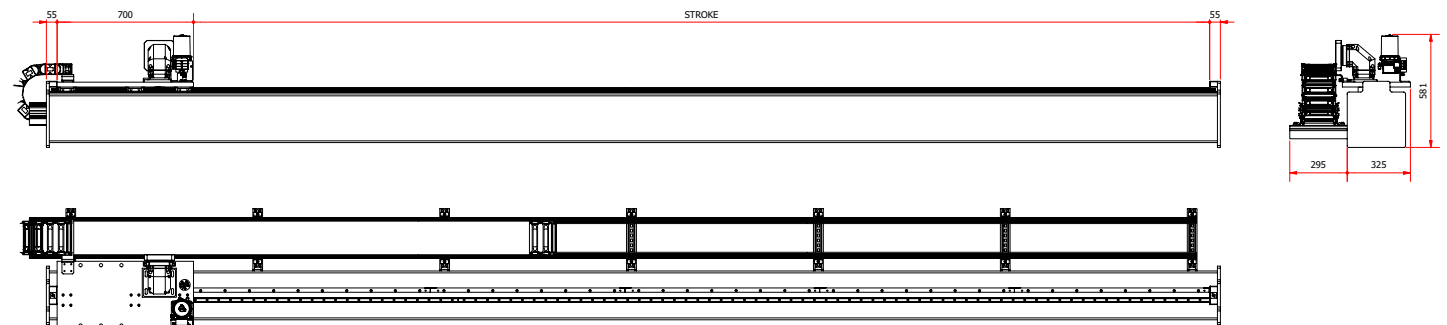
Base mass (0 mm stroke)	42.5 kg
Mass per 100 mm stroke	2 kg
Guiding	Roller guides
Belt	8M70
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	2.000 mm
Maximum load	1 kN

Y-100 & X-100

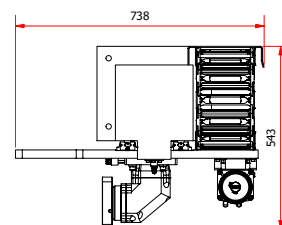
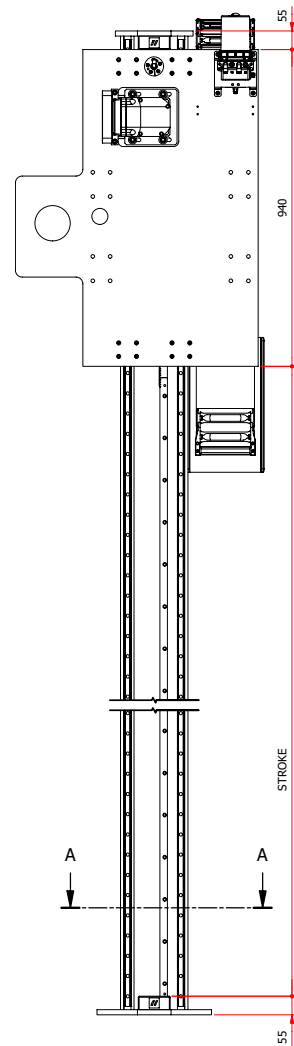
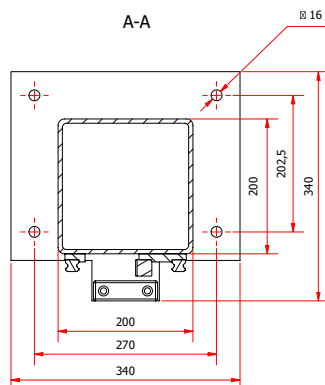
Y-100	
Position	
Base mass (0 mm stroke)	233 kg
Mass per 100 mm stroke	7 kg
Guiding	20
Rack	M2
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	10.000 mm
Maximum load	3,5 kN



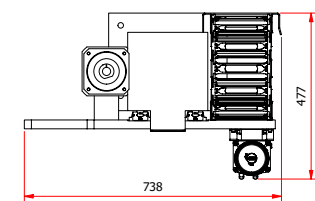
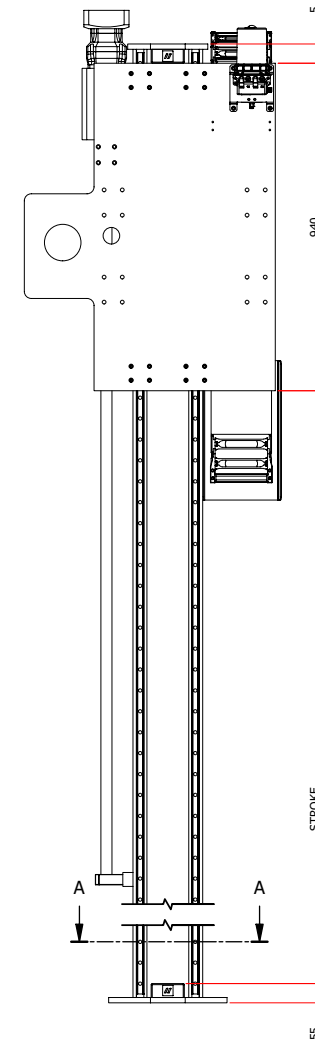
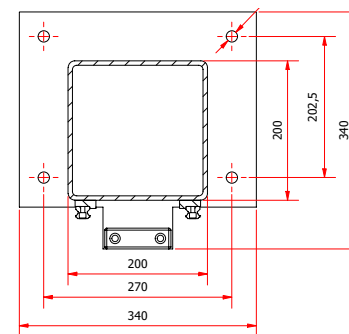
X-100	
Position	
Base mass (0 mm stroke)	227 kg
Mass per 100 mm stroke	6 kg
Guiding	20
Rack	M2
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	100 m
Maximum load	11 kN



Z-350



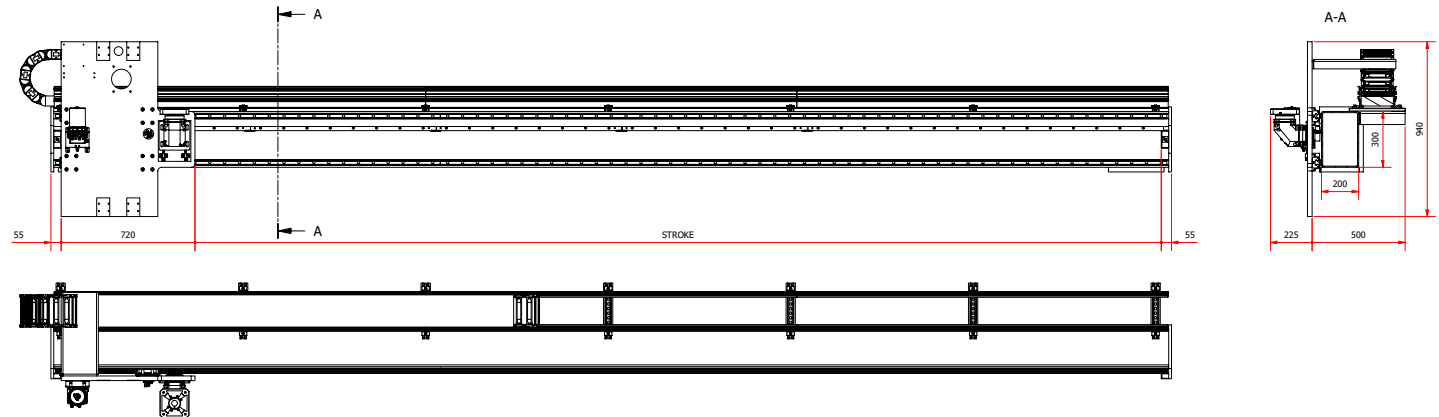
Z-350-RP	
Position	
Base mass (0 mm stroke)	83 kg
Mass per 100 mm stroke	6 kg
Guiding	20
Rack	M2
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	2.000 mm
Maximum load	3,5 kN



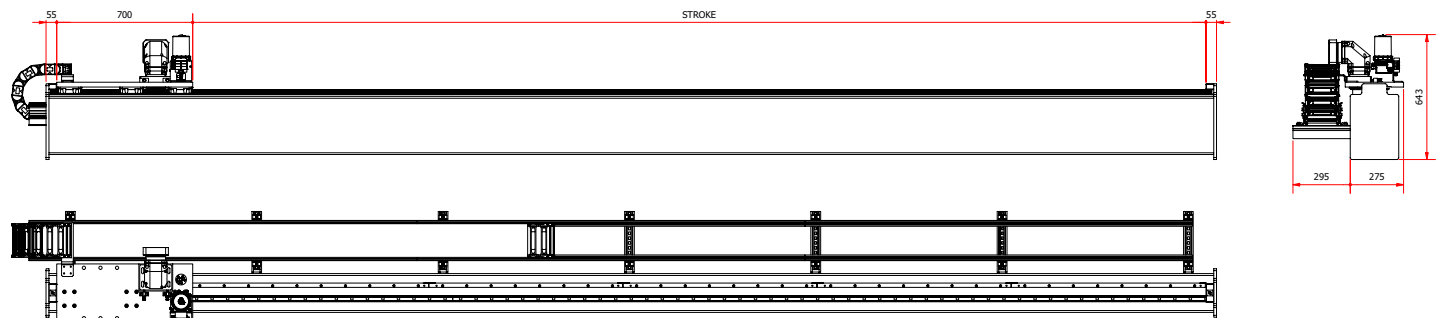
Z-350-BS	
Position	
Base mass (0 mm stroke)	83 kg
Mass per 100 mm stroke	6 kg
Guiding	20
Spindle	R32-10
Acceleration	1 m/s ²
Speed	0.16 m/s
Maximum stroke	2.000 mm
Maximum load	3,5 kN

Y-350 & X-350

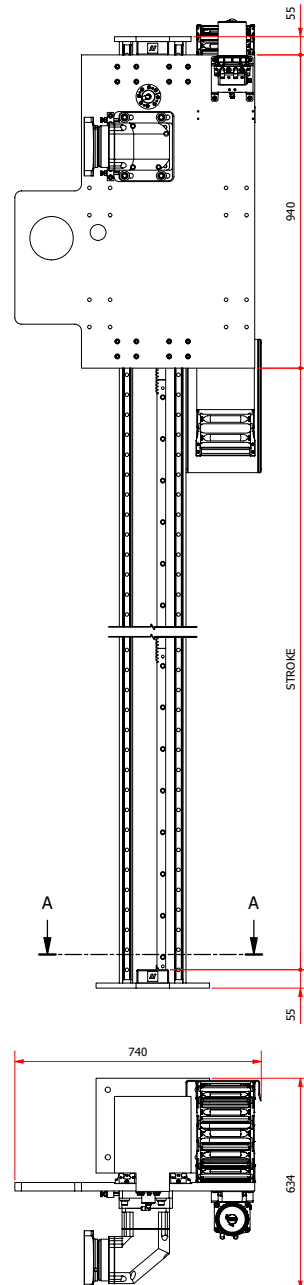
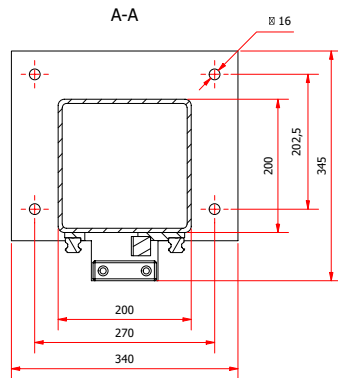
Y-350	
Position	
Base mass (0 mm stroke)	310 kg
Mass per 100 mm stroke	8 kg
Guiding	30
Rack	M2
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	10.000 mm
Maximum load	8 kN



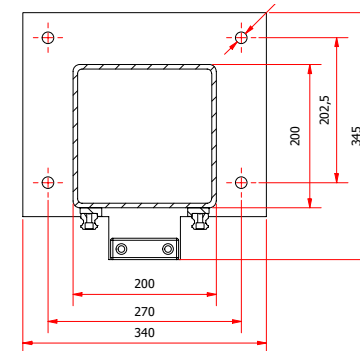
X-350	
Position	
Base mass (0 mm stroke)	300 kg
Mass per 100 mm stroke	6.5 kg
Guiding	30
Rack	M2
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	100 m
Maximum load	17 kN



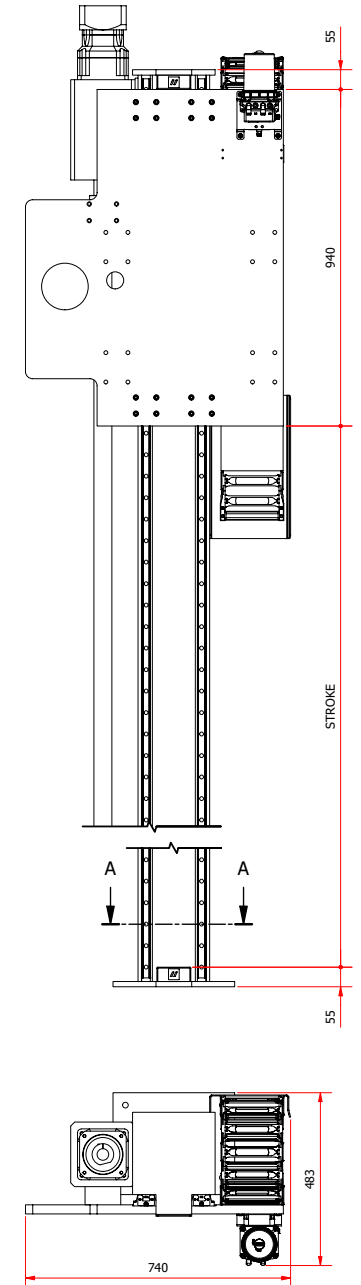
Z-600



Z-600-RP	
Position	
Base mass (0 mm stroke)	89 kg
Mass per 100 mm stroke	6.5 kg
Guiding	25
Rack	M3
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	2.000 mm
Maximum load	6 kN

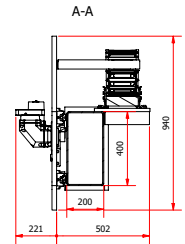
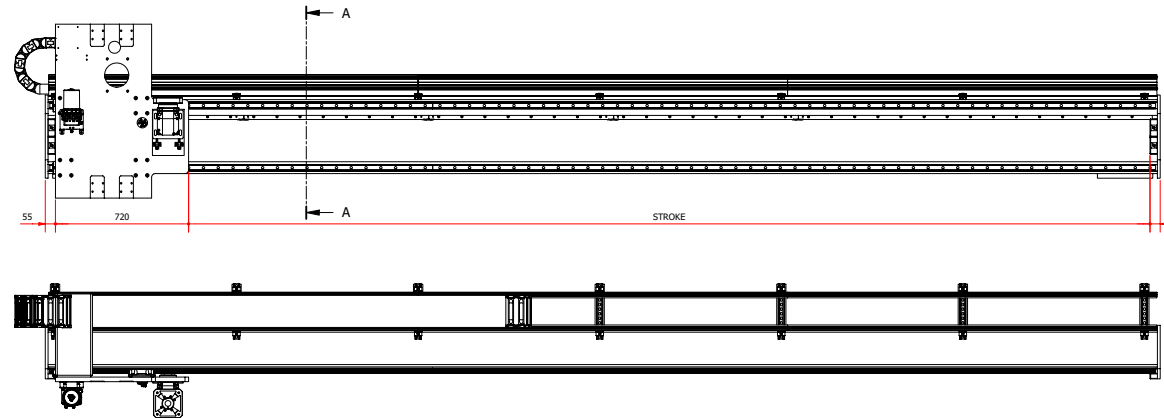


Z-600-BS	
Position	
Base mass (0 mm stroke)	89 kg
Mass per 100 mm stroke	6.5 kg
Guiding	25
Spindle	R50-10
Acceleration	1 m/s ²
Speed	0.26 m/s
Maximum stroke	2.000 mm
Maximum load	6 kN

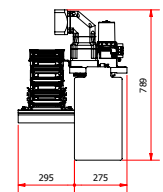
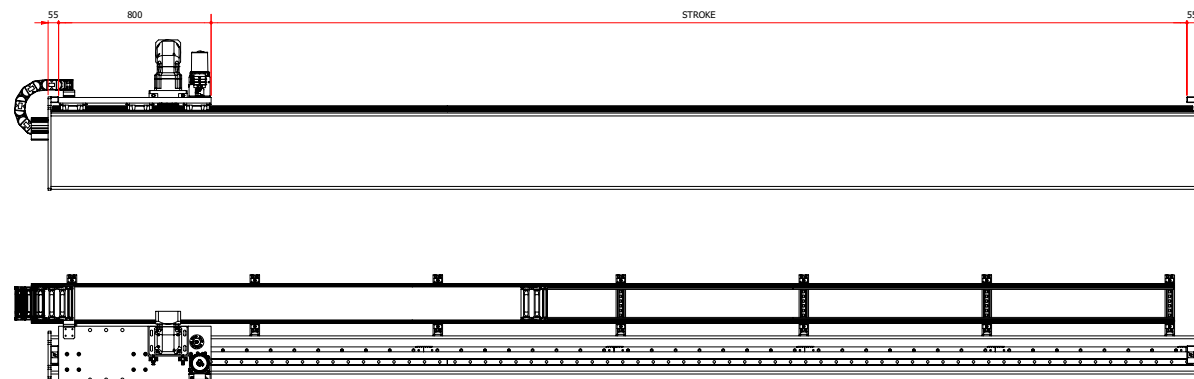


Y-600 & X-600

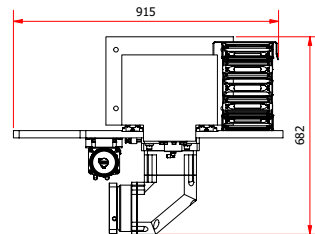
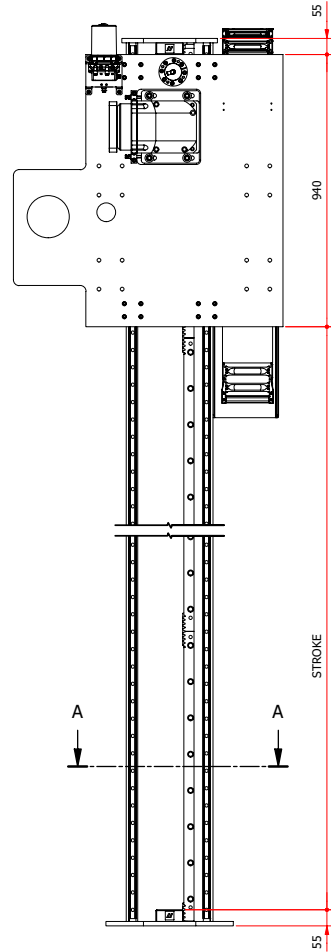
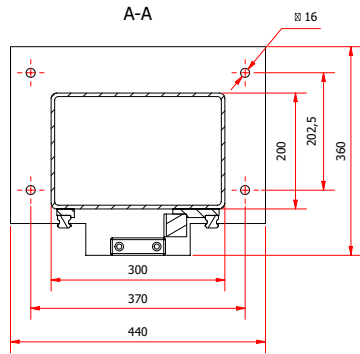
Y-600	
Position	
Base mass (0 mm stroke)	407 kg
Mass per 100 mm stroke	12 kg
Guiding	35
Rack	M2
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	10.000 mm
Maximum load	11 kN



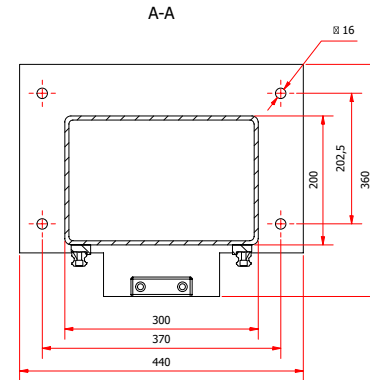
X-600	
Position	
Base mass (0 mm stroke)	401 kg
Mass per 100 mm stroke	11 kg
Guiding	35
Rack	M3
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	100 m
Maximum load	25 kN



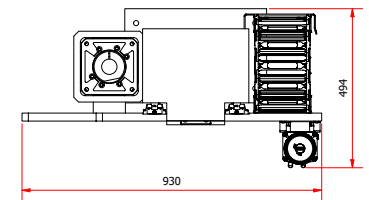
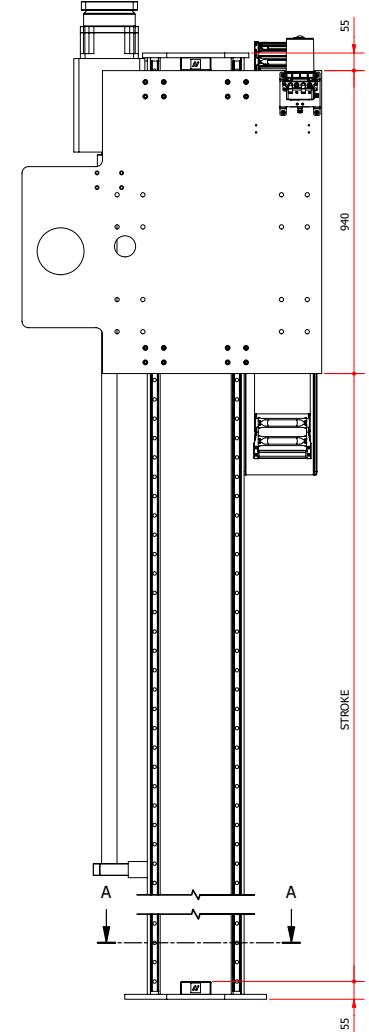
Z-850



Z-850-RP	
Position	
Base mass (0 mm stroke)	112 kg
Mass per 100 mm stroke	8.5 kg
Guiding	30
Rack	M4
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	2.000 mm
Maximum load	8,5 kN



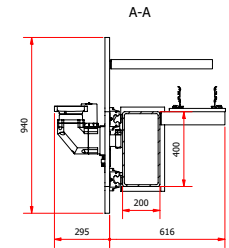
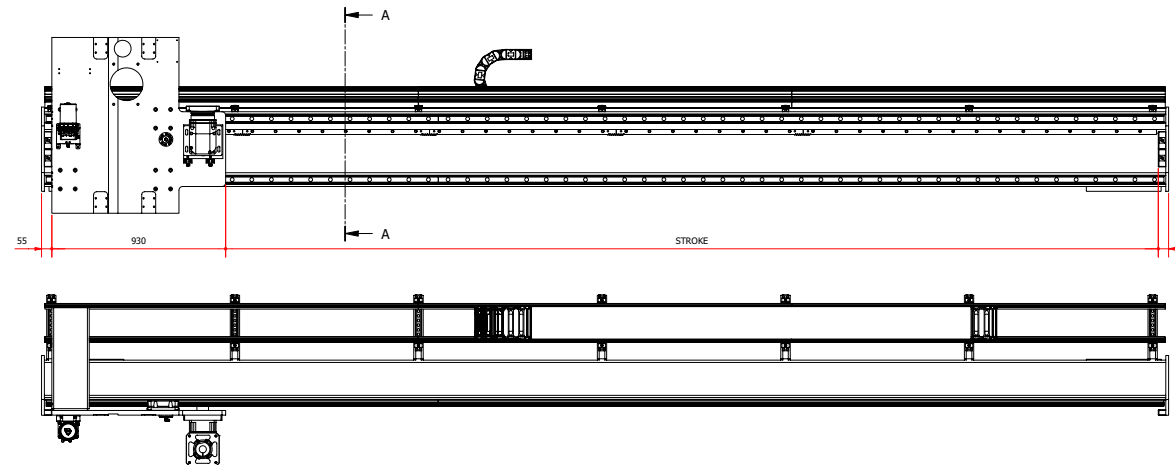
Z-850-BS	
Position	
Base mass (0 mm stroke)	112 kg
Mass per 100 mm stroke	8.5 kg
Guiding	30
Spindle	R50-20
Acceleration	1 m/s ²
Speed	0.49 m/s
Maximum stroke	2.000 mm
Maximum load	8,5 kN



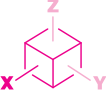
Y-850 & X-850

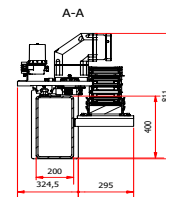
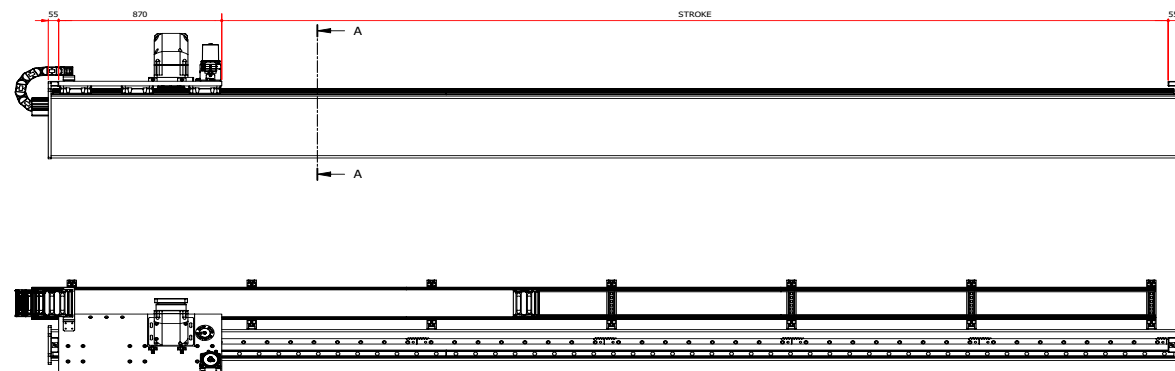
Y-850

Position	
Base mass (0 mm stroke)	539 kg
Mass per 100 mm stroke	13 kg
Guiding	45
Rack	M3
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	10.000 mm
Maximum load	16 kN

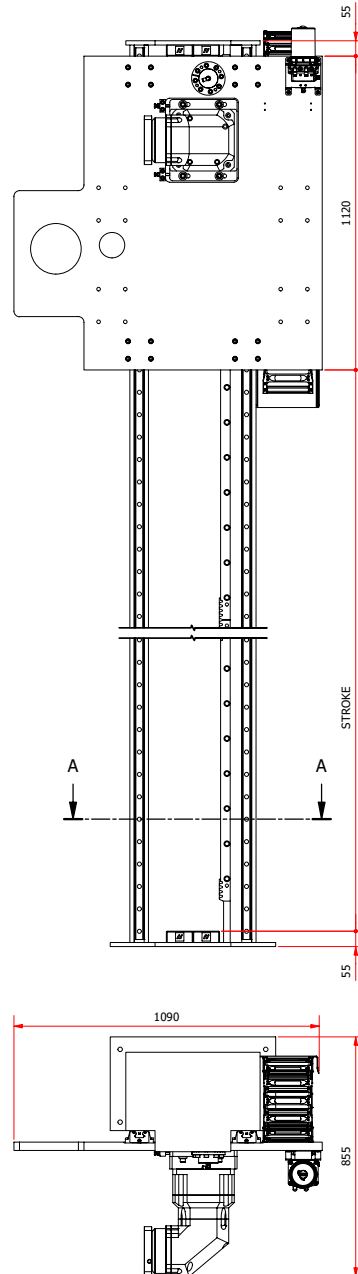
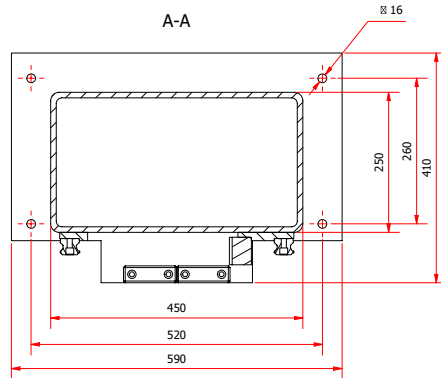


X-850

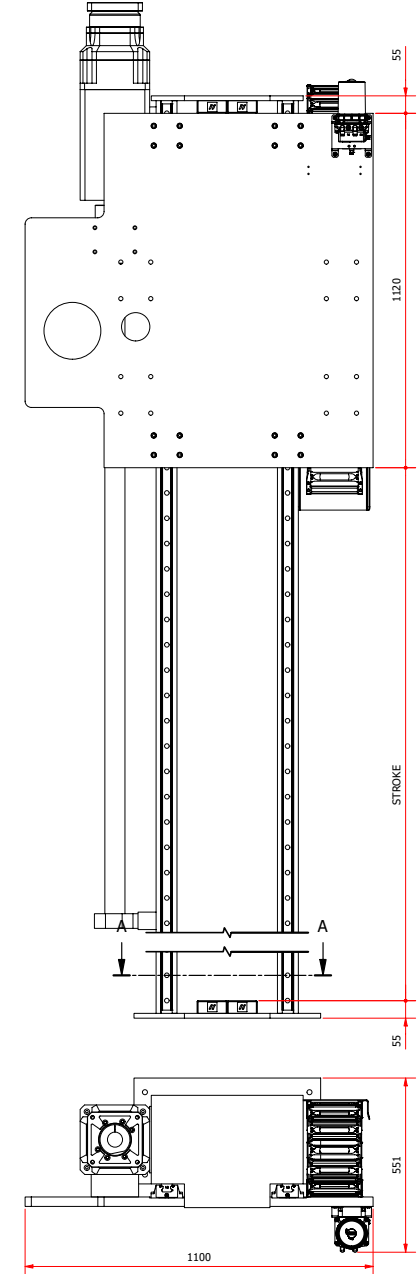
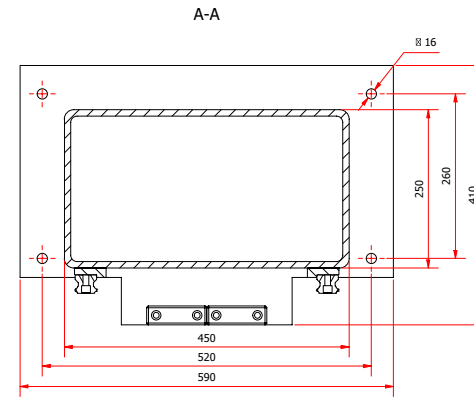
Position	
Base mass (0 mm stroke)	539 kg
Mass per 100 mm stroke	12 kg
Guiding	45
Rack	M4
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	100 m
Maximum load	31,5 kN



Z-1500



Z-1500-RP	
Position	
Base mass (0 mm stroke)	192 kg
Mass per 100 mm stroke	15 kg
Guiding	35
Rack	M5
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	2.000 mm
Maximum load	15 kN

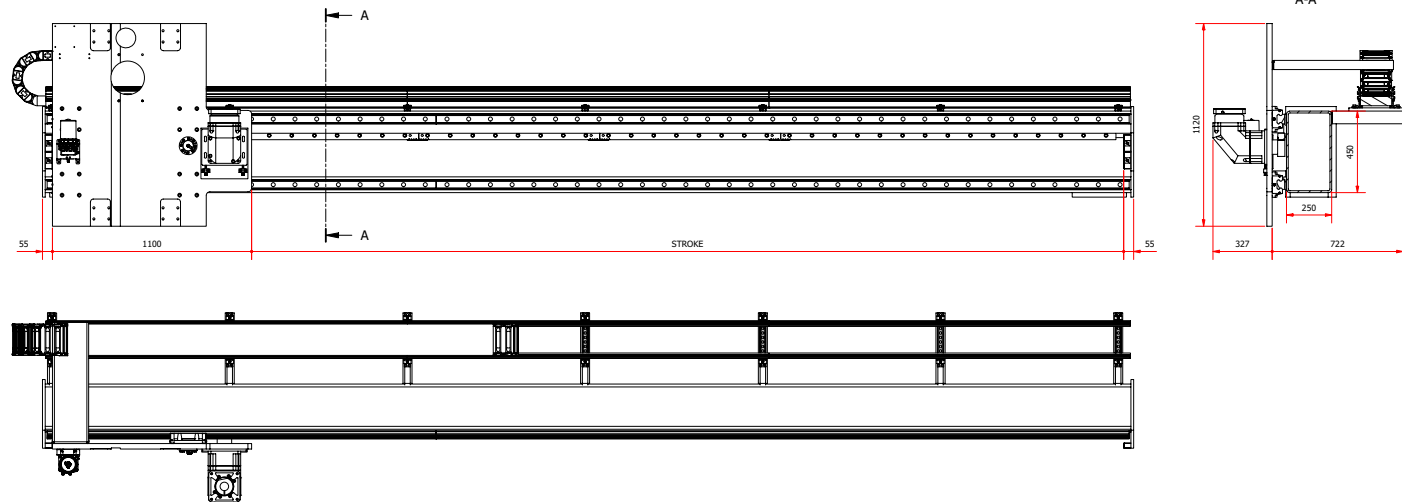


Z-1500-BS	
Position	
Base mass (0 mm stroke)	192 kg
Mass per 100 mm stroke	15 kg
Guiding	35
Spindle	R63-20
Acceleration	1 m/s ²
Speed	0.57 m/s
Maximum stroke	2.000 mm
Maximum load	15 kN

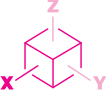
Y-1500 & X-1500

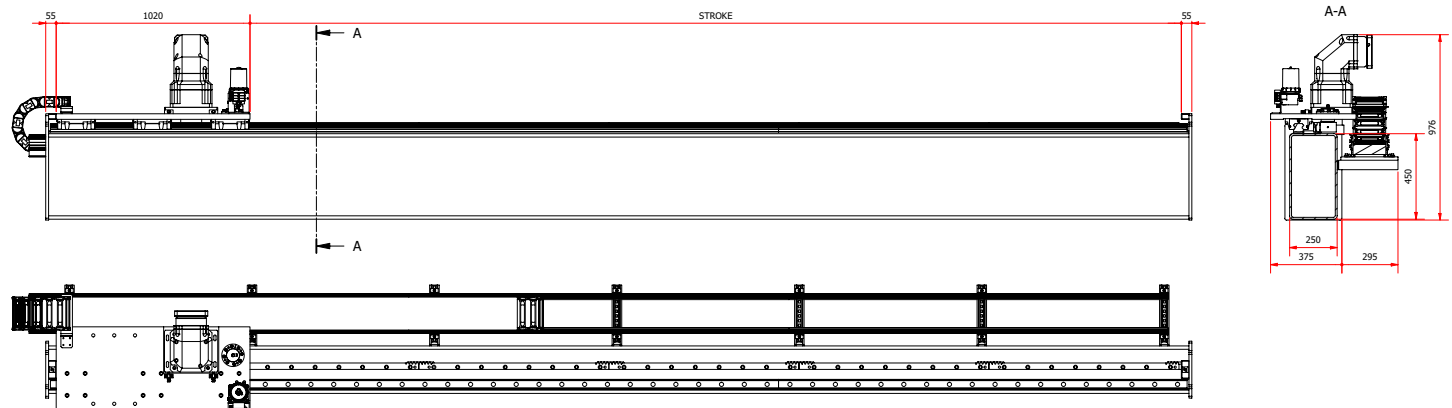
Y-1500

Position	
Base mass (0 mm stroke)	585 kg
Mass per 100 mm stroke	17 kg
Guiding	55
Rack	M4
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	10.000 mm
Maximum load	25 kN

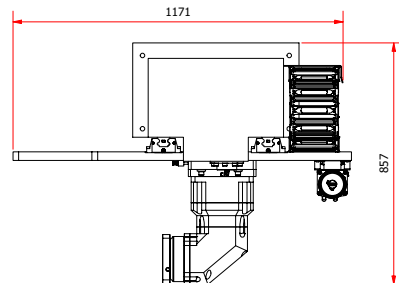
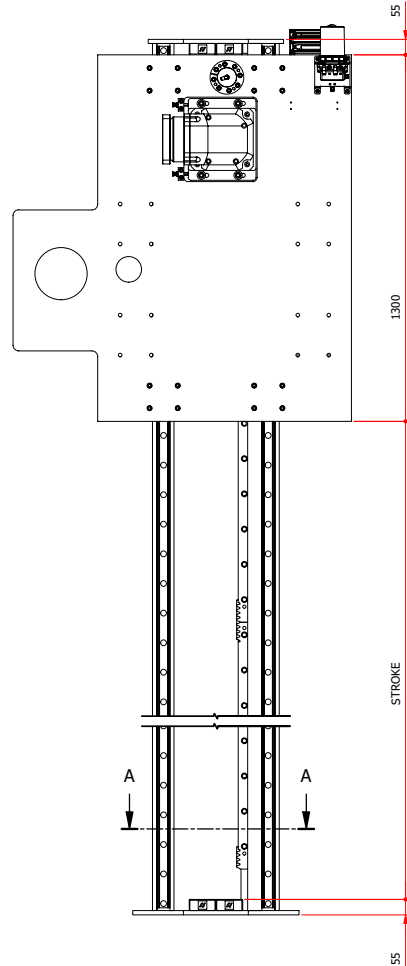
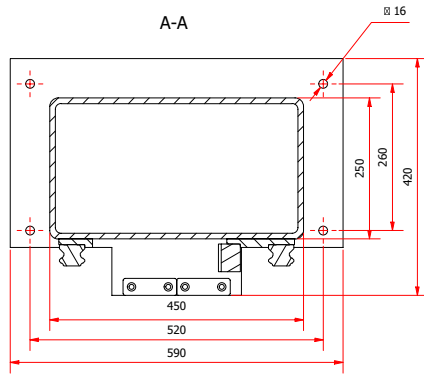


X-1500

Position	
Base mass (0 mm stroke)	571 kg
Mass per 100 mm stroke	14.5 kg
Guiding	55
Rack	M5
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	100 m
Maximum load	43 kN

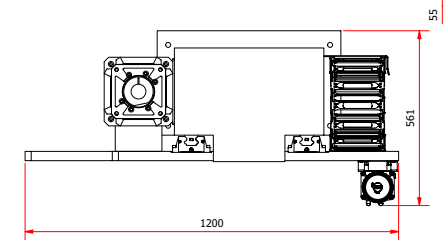
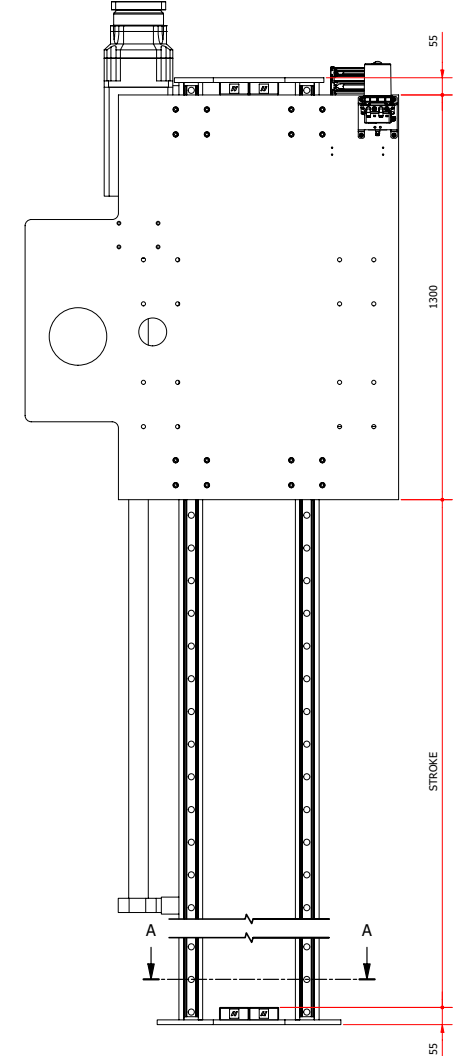
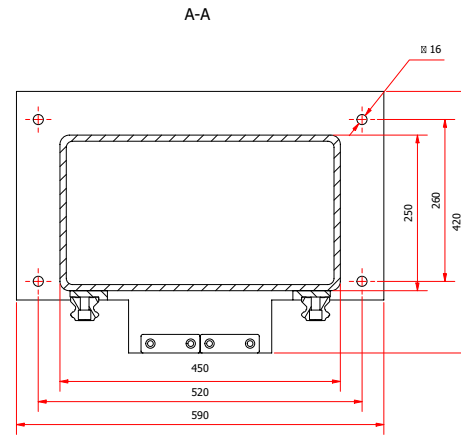


Z-2500



Z-2500-RP

Position	
Base mass (0 mm stroke)	205 kg
Mass per 100 mm stroke	16.5 kg
Guiding	45
Rack	M5
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	2.000 mm
Maximum load	25 kN

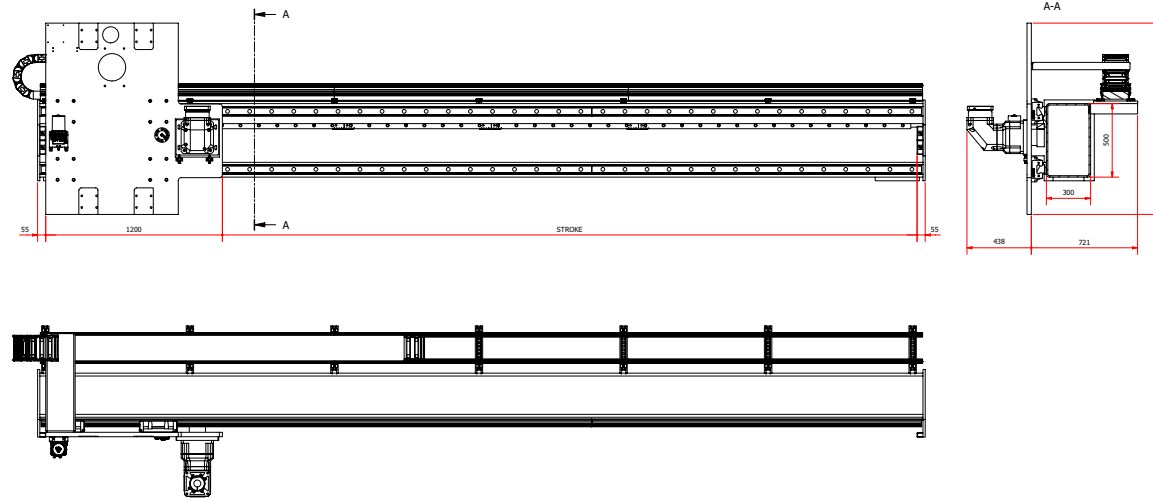


Z-2500-BS

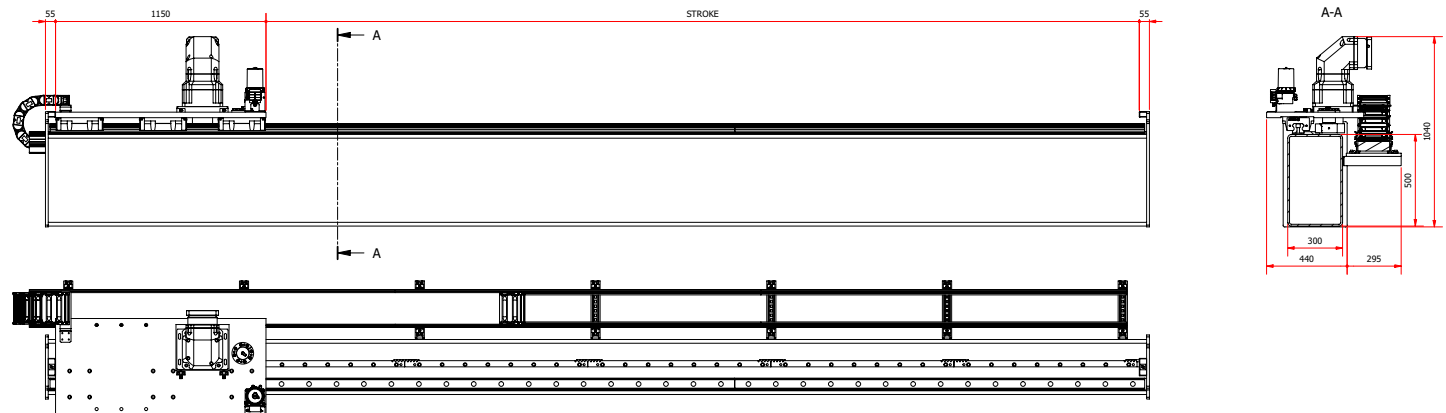
Position	
Base mass (0 mm stroke)	205 kg
Mass per 100 mm stroke	16.5 kg
Guiding	45
Spindle	R63-20
Acceleration	1 m/s ²
Speed	0.57 m/s
Maximum stroke	2.000 mm
Maximum load	25 kN

Y-2500 & X-2500

Y-2500	
Position	
Base mass (0 mm stroke)	632 kg
Mass per 100 mm stroke	21 kg
Guiding	65
Rack	M5
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	10.000 mm
Maximum load	36 kN



X-2500	
Position	
Base mass (0 mm stroke)	605 kg
Mass per 100 mm stroke	17 kg
Guiding	65
Rack	M5
Acceleration	1 m/s ²
Speed	1 m/s
Maximum stroke	100 m
Maximum load	57 kN



REALISATIONS

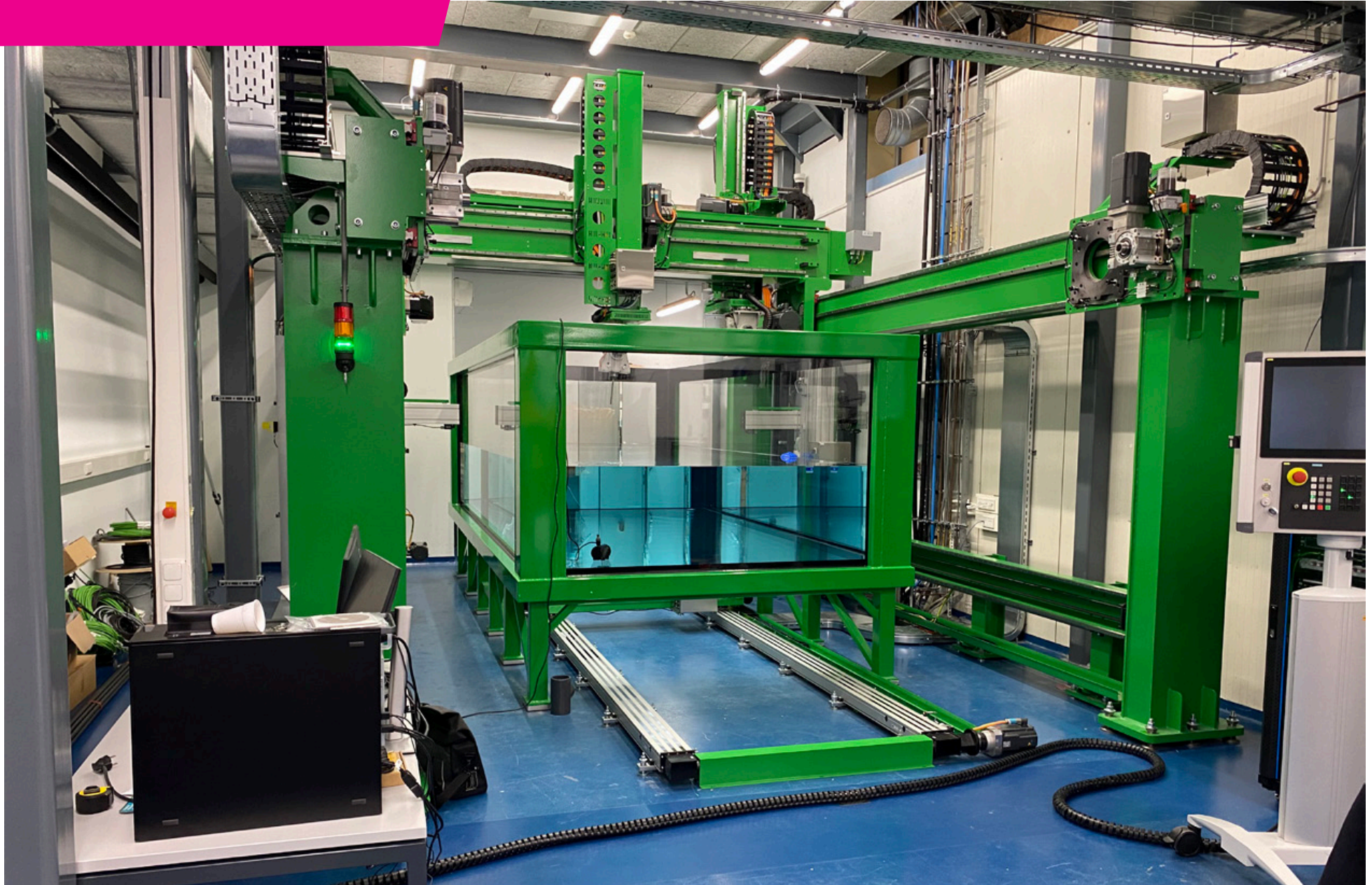
LINEAR SYSTEMS

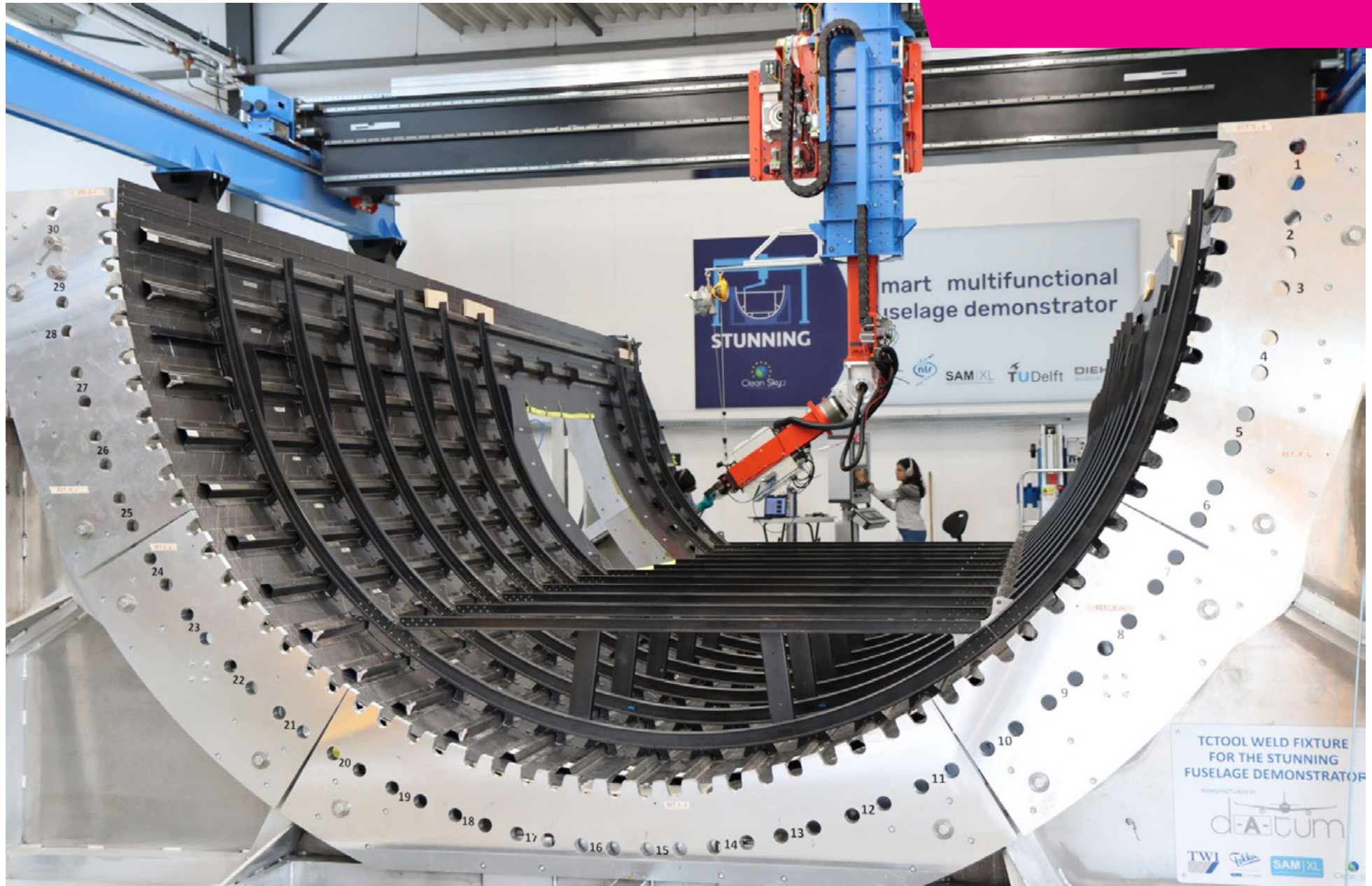




REALISATIONS

LINEAR SYSTEMS





REALISATIONS

LINEAR SYSTEMS





KK-MODULES

LINEAR KK-MODULES GENERAL INFORMATION

The Vansichen linear KK-modules consist of a steel profile with two HIWIN linear guideways.

THERE ARE 3 DRIVE TYPES

- ▮ KK-HD: Rotating ballscrew with leading nut from HIWIN.
- ▮ KK-RP: Rack and pinion from ATLANTA.
- ▮ KK-BD: HTD toothed belt.

FITTING POSITION

As required. Maximum part length is 12000 mm. Connecting multiple parts is possible. The maximum length for the KK-HD is limited to 6000 mm.

CARRIAGE SUPPORT

In the standard version is the carriage supported with 4 runner blocks. For longer carriages the number of runner blocks can be increased.

LUBRICATION

- ▮ Guideways with a greasnipple on the runner blocks.
- ▮ Ballscrew with a greasnipple on the leading nut.
- ▮ Rack and pinion with a toothed felt gear.
- ▮ Toothed belt is maintenance free.

OTHER POSSIBILITIES (ON REQUEST)

KK-HD

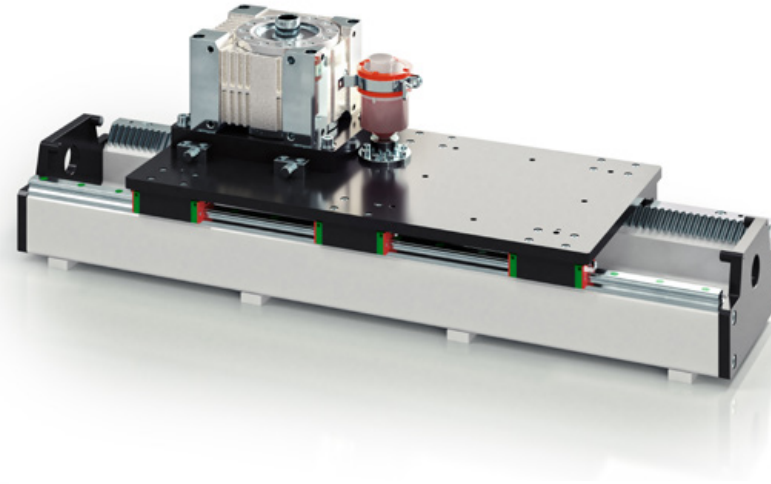
- ▮ High precision ballscrew.
- ▮ Ballsscrew protected with a bellow.
- ▮ Reinforced bearings for higher axial loads.
- ▮ Adapter and coupling for motor/gearbox.

KK-RP

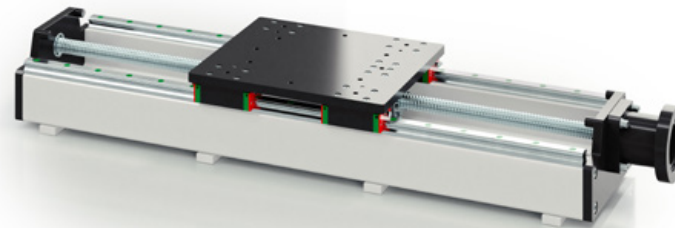
- ▮ High precision racks and pinions.
- ▮ Other types of racks and pinions allow different forces.
- ▮ Adapter and coupling for motor.

KK-BD

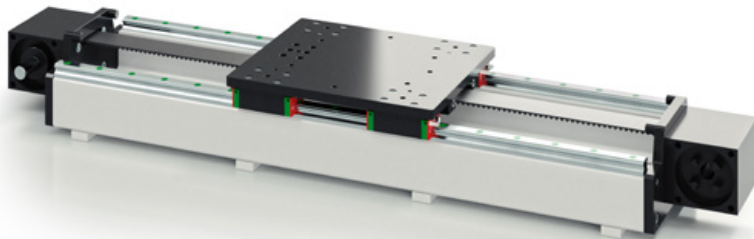
- ▮ Adapter and coupling for gearbox.
- ▮ Special belts for special environments.



KK-RP

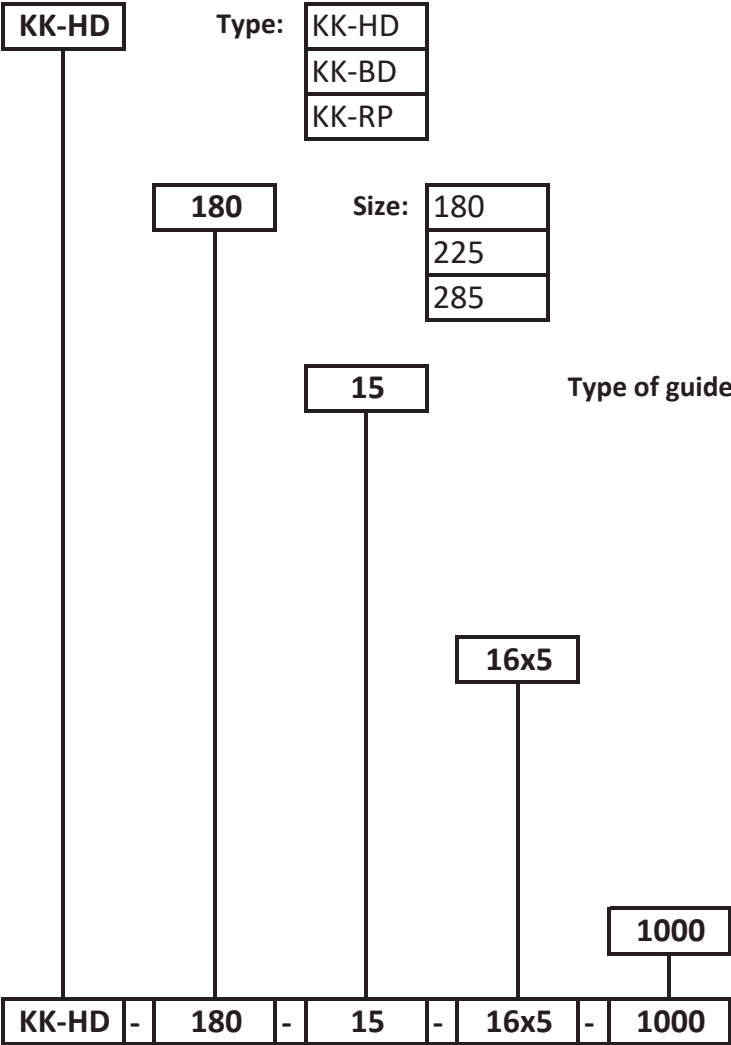


KK-HD



KK-BD

ORDER CODE

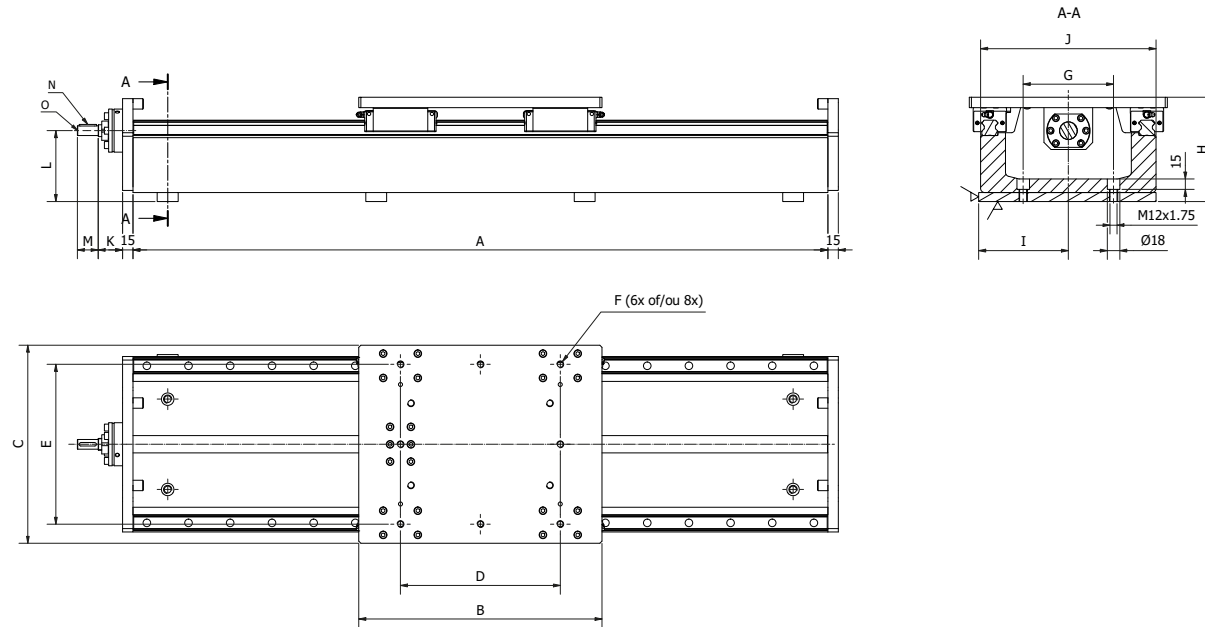


Size	Type of guide
180	(15) HGH15CA
225	(20) HGH20HA
285	(25) HGH25HA
285	(30) HGH30HA

Size	KK-HD			KK-RP	KK-BD
180	20x5	20x10	20x20	-	HTD 5M25
225	20x5	20x10	20x20	M2	HTD 8M30
285	25x5	25x10	25x20	M3	HTD 8M50
285	32x5	32x10	32x20	-	HTD 8M70

Base length A

KK-HD

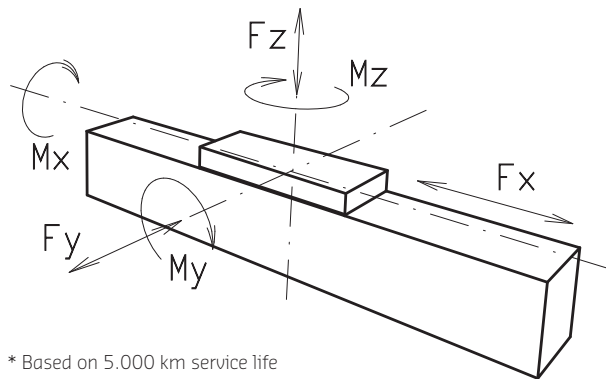


	Base length A [mm] *	B	C	D	E	F	G	H	I $\pm 0,05$	J	K	L	M	Astap**		Base weight	Weight per 100 mm
														N Spline	O (øh6)		
KK-HD-180-15	250	220	180	140	140	M10	60	106	81	157.2	30	58	25	3 x 3 x 20	10	19.5 kg	4.1 kg
KK-HD-225-20	315	285	225	180	180	M10	100	118	103	201.5	30	70	25	3 x 3 x 20	10	35 kg	6.0 kg
KK-HD-285-25	380	350	285	230	230	M10	130	150	129	252.5	35	102	30	5 x 5 x 25	14	61.4 kg	9.1 kg
KK-HD-285-30	395	365	285	230	230	M10	130	155	129	252.5	38	100	30	5 x 5 x 25	14	67.5 kg	9.6 kg

* Base length A is the profile length with stroke length 0 mm

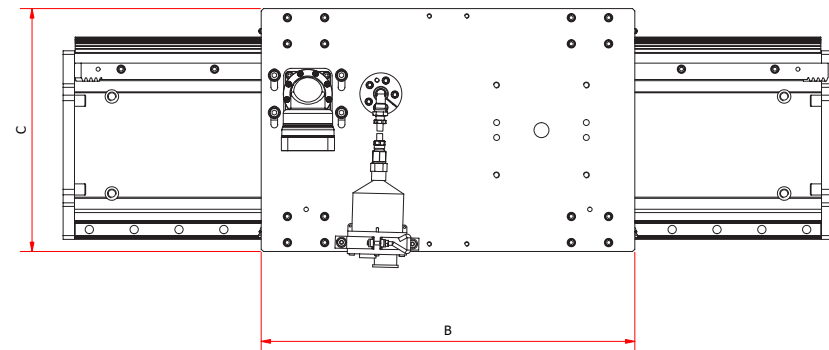
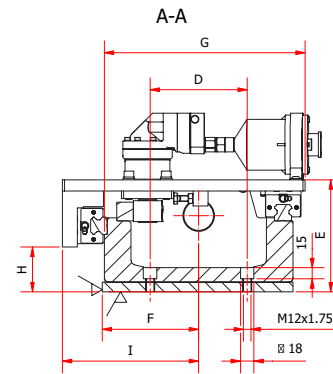
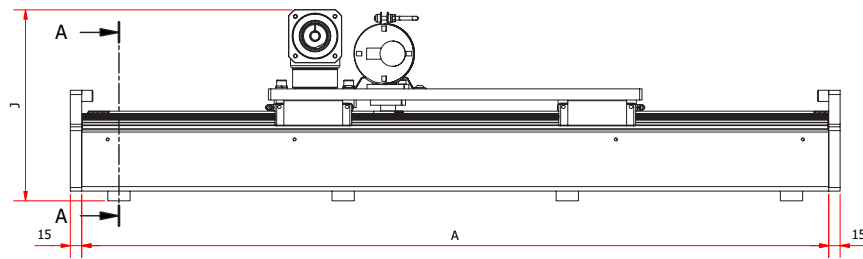
** VSL standard, when ordering this together with the coupling and motor adapter can be adapted to the type of motor

KK-HD FORCES AND MOMENTS



Build size	KK-HD-180-15			KK-HD-225-20			KK-HD-285-25			KK-HD-285-30		
Ball screw diameter	20			20			25			32		
Velocity	5	10	20	5	10	20	5	10	25	5	10	20
Cdyn [N] ballscrew	16.400	12.100	8.400	16.400	12.100	8.400	18.200	18.100	9.300	29.200	33.000	20.900
Cdyn [N] bearing	18.600			18.600			18.800			26.000		
Profile guide size	15			20			25			30		
F _y [N]*	6.330			14.075			18.000			25.000		
F _z [N]*	12.660			28.150			36.000			50.000		
M _x [Nm]*	850			2.500			4.000			5.500		
M _y [Nm]*	850			2.500			4.000			5.500		
M _z [Nm]*	850			2.500			4.000			5.500		
Use the formula below for the forces and moments on the linear module												
Table value	$\frac{F_y}{F_{y_{dyn}}} + \frac{F_z}{F_{z_{dyn}}} + \frac{M_x}{M_{x_{dyn}}} + \frac{M_y}{M_{y_{dyn}}} + \frac{M_z}{M_{z_{dyn}}} \leq 1$											
Actual load												
Mass moment of inertia of the base profile												
I _x [mm ⁴]	149,04 x 10 ⁵			343,02 x 10 ⁵			860,54 x 10 ⁵			860,54 x 10 ⁵		
I _y [mm ⁴]	15,03 x 10 ⁵			27 x 10 ⁵			72,15 x 10 ⁵			72,15 x 10 ⁵		
E [N/mm ²]	210.000			210.000			210.000			210.000		

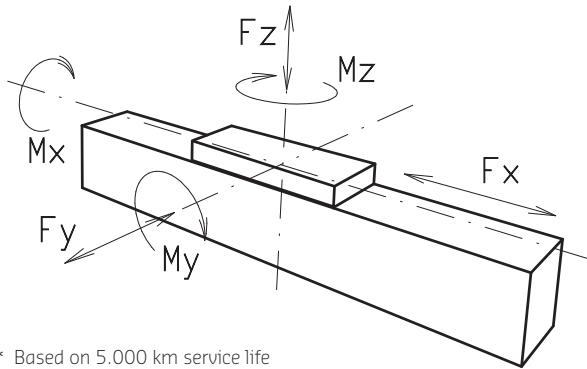
KK-RP DIMENSIONS



	Base length A [mm] *	B	C	D	E	F ± 0,05	G	H	I	J	Base weight	Weight per 100 mm
KK-RP-225-20	530	500	260	100	118	103	213	43	147.5	224	64.5 kg	6.1 kg
KK-RP-285-25	530	500	325	130	150	129	269	60	182.5	256	105.5 kg	15.1 kg

* Base length A is the profile length with stroke length 0 mm

KK-RP FORCES AND MOMENTS

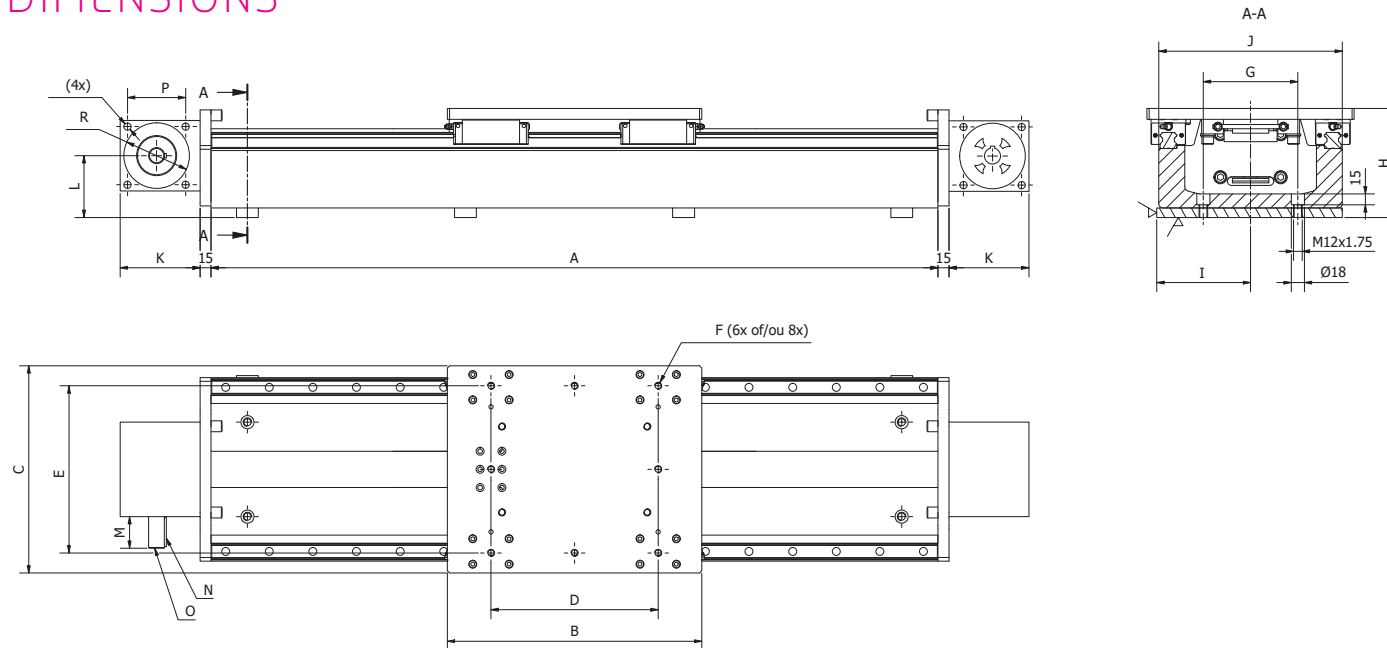


* Based on 5.000 km service life

Profile size	KK-RP-225-20	KK-RP-285-25
Gearbox type	PAIIR 060	PAIIR 060
Module	M2	M2
Rack and pinion type	Rack: Q8, tempered Pinion: Q6, 20 teeth, case-hardened steel	
F _x [N]**	825	825
Profile guide size	20	25
F _y [N]*	14.090	18.125
F _z [N]*	28.180	36.250
M _x [Nm]*	3.590	4.600
M _y [Nm]*	7.745	10.000
M _z [Nm]*	7.745	10.000
Use the formula below for the forces and moments on the linear module		
Table value	$\frac{F_y}{F_{y_{dyn}}} + \frac{F_z}{F_{z_{dyn}}} + \frac{M_x}{M_{x_{dyn}}} + \frac{M_y}{M_{y_{dyn}}} + \frac{M_z}{M_{z_{dyn}}} \leq 1$	
Actual load		
Mass moment of inertia of the base profile		
I _x [mm ⁴]	343,02 x 10 ⁵	860,54 x 10 ⁵
I _y [mm ⁴]	27 x 10 ⁵	72,15 x 10 ⁵
E [N/mm ²]	210.000	210.000

** Toothed bar/gear is not the limiting load factor at a KK

KK-BD DIMENSIONS

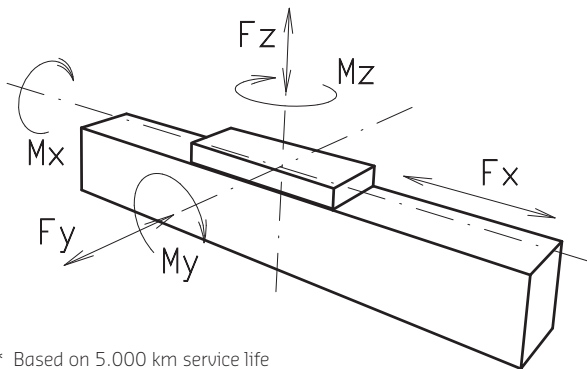


	Base length A [mm] *	B	C	D	E	F	G	H	I ± 0,05	J	K	L	M	Astep**		P	Q	R -0,05	Base weight	Weight per 100 mm
														N Spline	O (øh6)					
KK-BD-180-15	250	220	180	140	140	M10	60	106	81	157.2	70	57.5	34	5 x 5 x 28	14	42	M6	47	20.4 kg	4.0 kg
KK-BD-225-20	315	285	225	180	180	M10	100	118	103	201.5	95	61	43.5	6 x 6 x 40	10	60	M8	68	36.8 kg	5.8 kg
KK-BD-285-25	380	350	285	230	230	M10	130	150	129	252.5	110	85	43.5	6 x 6 x 40	14	80	M10	90	64.7 kg	8.7 kg
KK-BD-285-30	395	365	285	230	230	M10	130	155	129	252.5	110	90	43.5	8 x 7 x 50	14	80	M10	90	68.0 kg	9.0 kg

* Base length A is the profile length with stroke length 0 mm

** VSL standard, when ordering the position of the shaft journal can be adjusted or it can be replaced by a rotex claw.

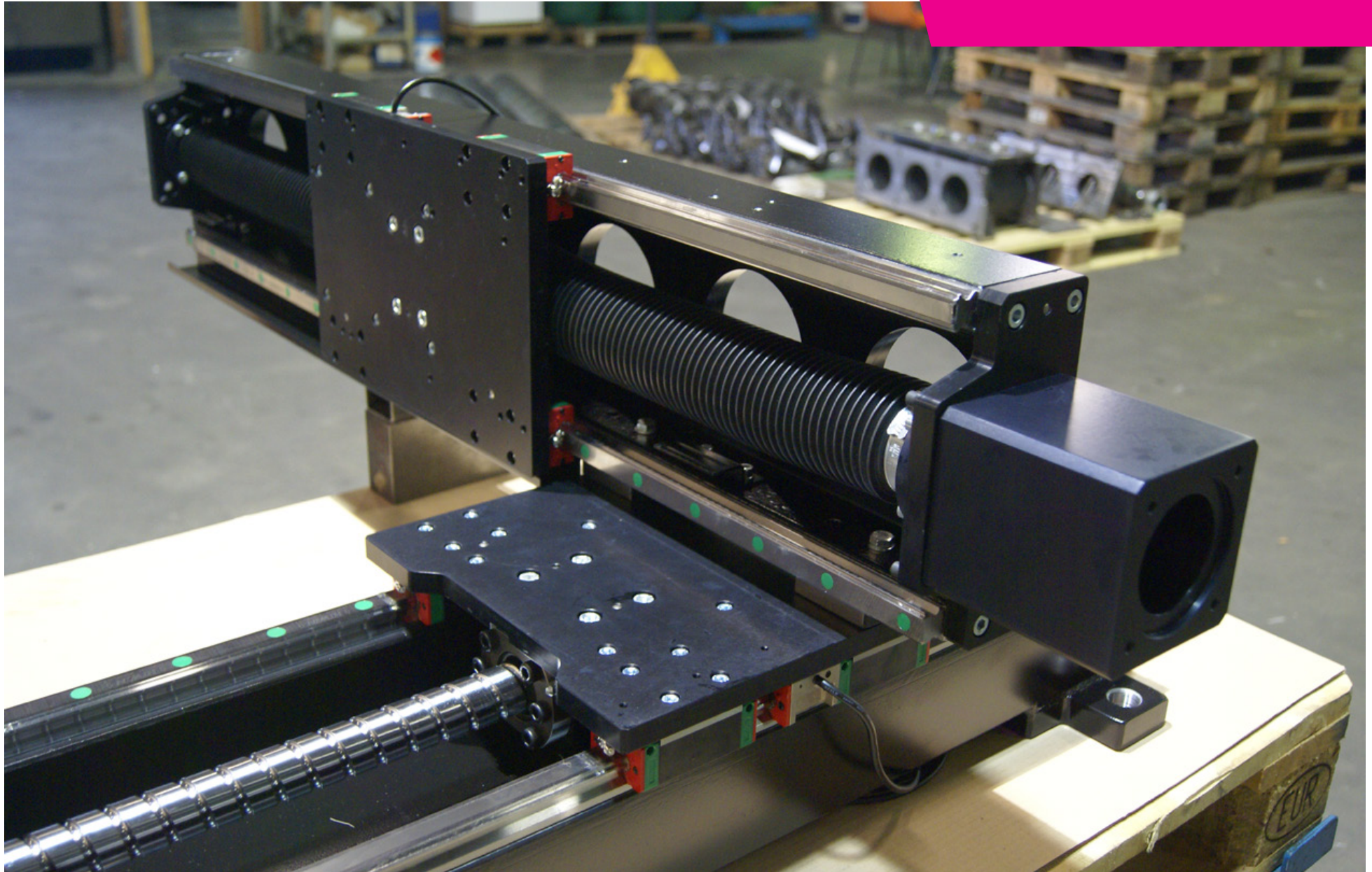
KK-BD FORCES AND MOMENTS



* Based on 5.000 km service life

Profile size	KK-BD-180-15	KK-BD-225-20	KK-BD-285-25	KK-BD-285-30
Belt type	HTD 5M25	HTD 8M30	HTD 8M50	HTD 8M70
Displacement per revolution drive shaft	130 mm/rev.	176 mm/rev.	224 mm/rev.	224 mm/rev.
F _x [N]	800	1.800	3.800	5.750
Profile guide size	15	20	25	30
F _y [N]*	6.330	14.075	18.000	25.000
F _z [N]*	12.660	28.150	36.000	50.000
M _x [Nm]*	850	2500	4.000	5.500
M _y [Nm]*	850	2500	4.000	5.500
M _z [Nm]*	850	2500	4.000	5.500
Use the formula below for the forces and moments on the linear module				
Table value	$\frac{F_y}{F_{y_{dyn}}} + \frac{F_z}{F_{z_{dyn}}} + \frac{M_x}{M_{x_{dyn}}} + \frac{M_y}{M_{y_{dyn}}} + \frac{M_z}{M_{z_{dyn}}} \leq 1$			
Actual load				
Mass moment of inertia of the base profile				
I _x [mm ⁴]	149,04 x 10 ⁵	343,02 x 10 ⁵	860,54 x 10 ⁵	860,54 x 10 ⁵
I _y [mm ⁴]	15,03 x 10 ⁵	27 x 10 ⁵	72,15 x 10 ⁵	72,15 x 10 ⁵
E [N/mm ²]	210.000	210.000	210.000	210.000

** Toothed bar/gear is not the limiting load factor at a KK



REALISATIONS

KK-MODULES

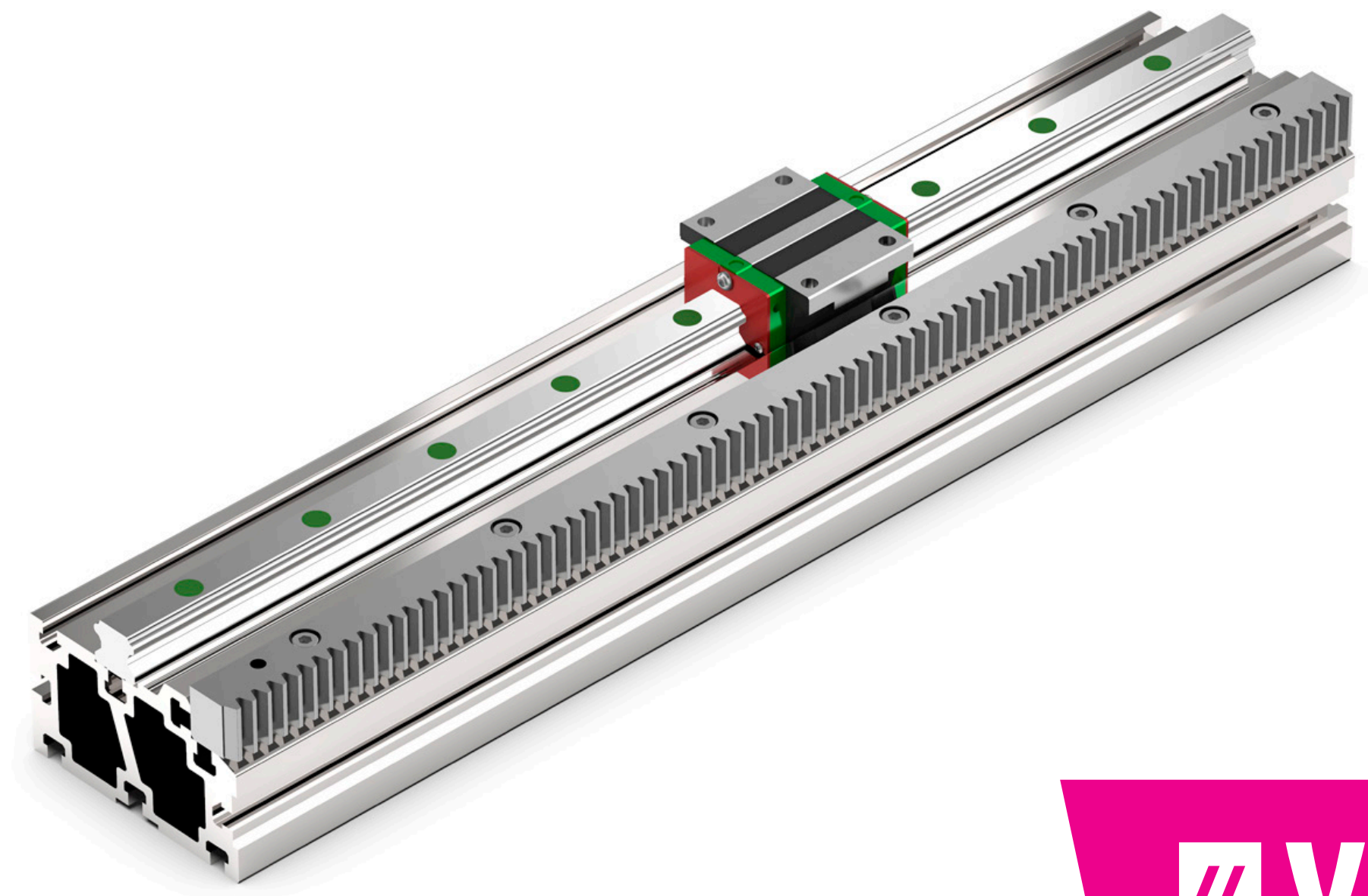






VAP

VAP

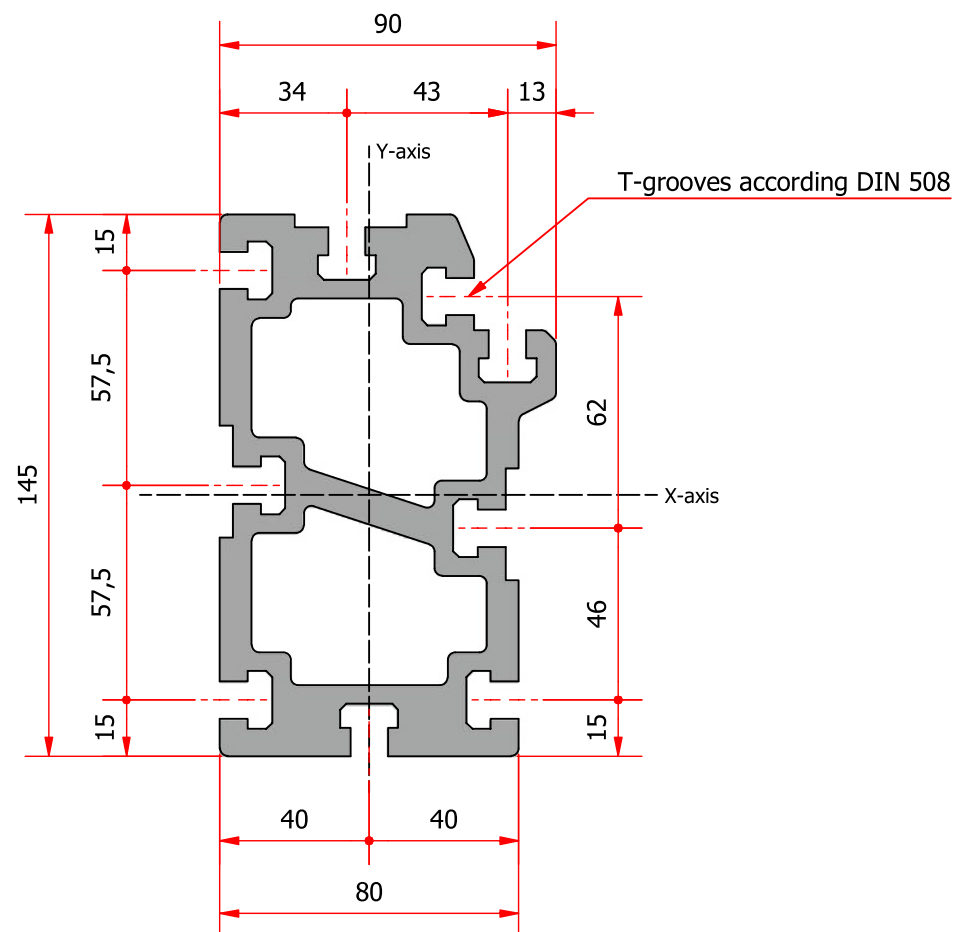


VAP

VAP
VANSICHEN ALUMINIUM PROFILE

VAP30

Weight	12,64 kg/meter
Material	3.2315 – AlMgSi1
Straightness	0,35 mm/meter
Moment of inertia I _x	1.024,91 cm ⁴
Moment of inertia I _y	333,73 cm ⁴
Max length of one piece	7.000 mm (connectable)
Treatment	Optional
T-Nut	DIN 508 M8



ORDERING / QUOTATION CODE

VAP30VA	Total Length in mm (up to 100 meters).	Q HIWIN CARRIAGE X		RACK	
VAP30VB		1	HGW30CCZOH	1	Straight toothed gear rack Module 3 Q8
VAP30VC		2	HGW30HCZOH	2	Straight toothed gear rack Module 3 Q10
VAP30HA		3	HGH30CAZOH	3	Helical gear rack Module 3 Q8
VAP30HB		4	HGH30HAZOH	4	Helical gear rack Module 3 Q10

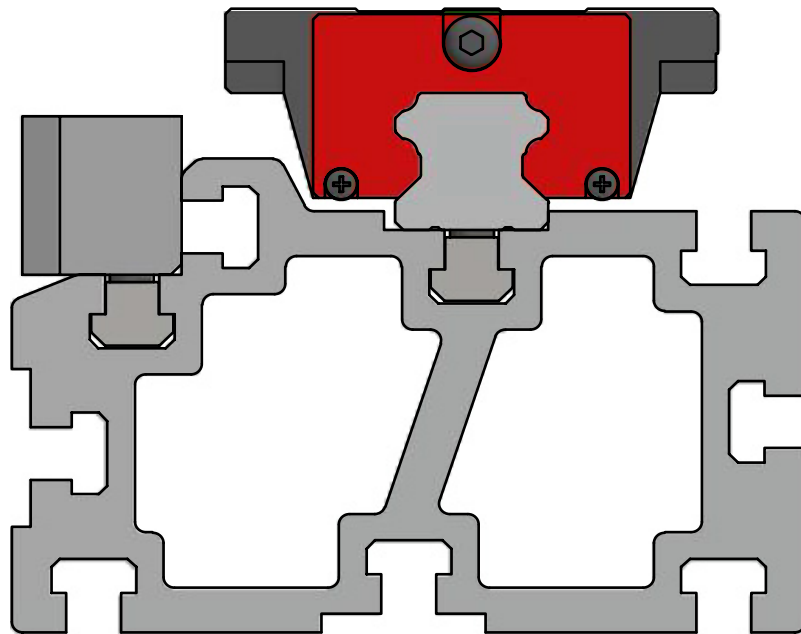
VAP	LENGTH	QUANTITY x HIWIN CARRIAGE	RACK
VAP30VB	7000	8x1	1

Example

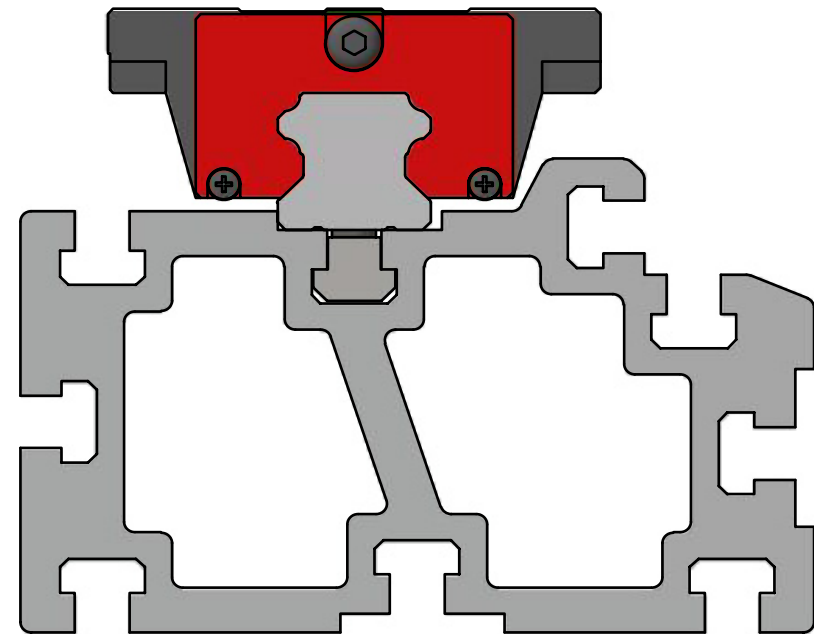
If you require any extra's or options on our standard profile, please note in your quotation or order.

ASSEMBLIES EXISTING VAP30 WITH HIWIN GUIDWAYS HGR30R AND ATLANTA RACKS M3

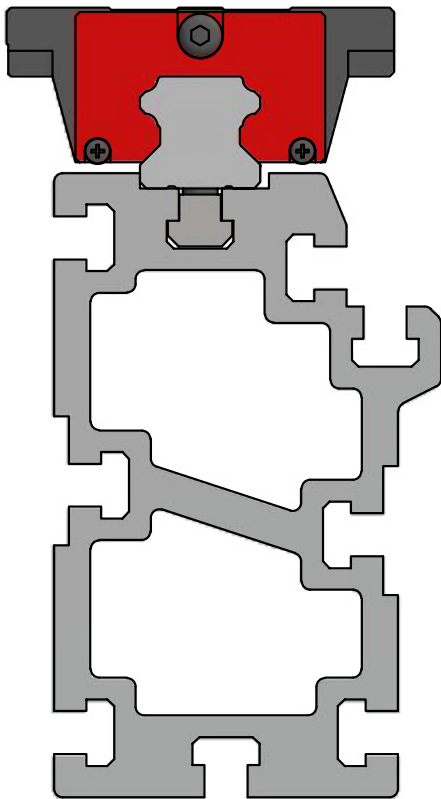
The VAP30 profile is only as an assembled unit available.



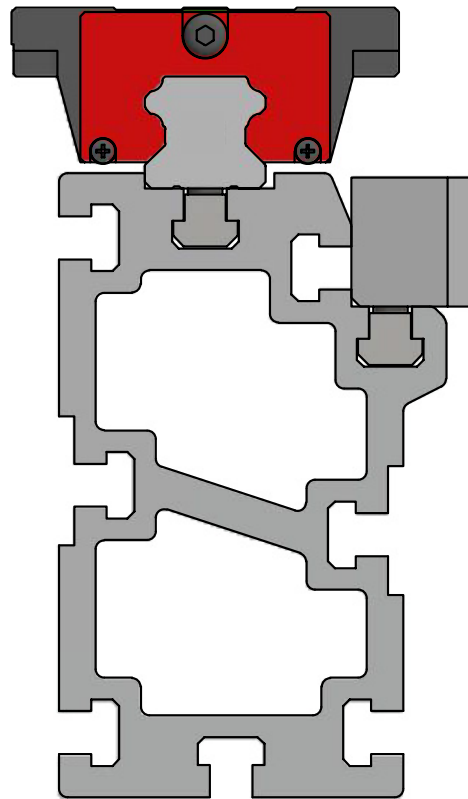
Horizontal – setup A
VAP30HA



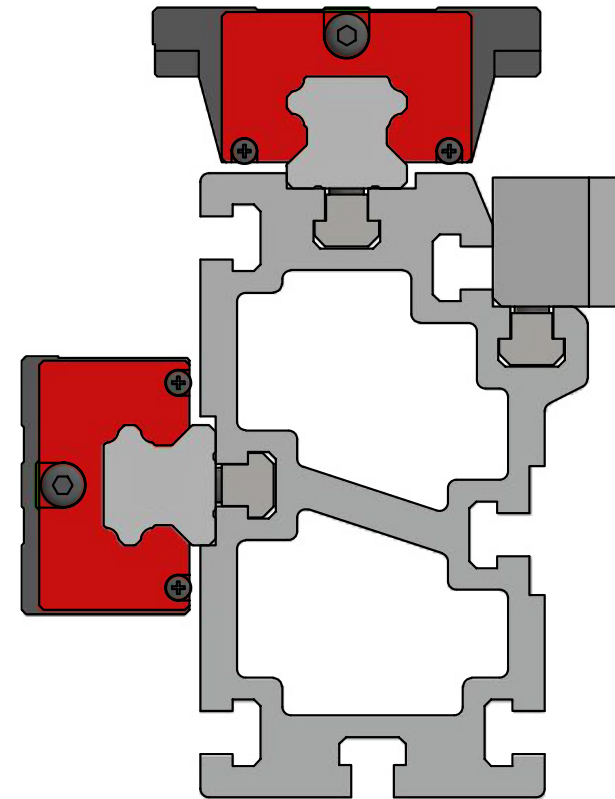
Horizontal – setup B
VAP30HB



Vertical – setup A
VAP30VA



Vertical – setup B
VAP30VB



Vertical – setup C
VAP30VC

EXTRA'S

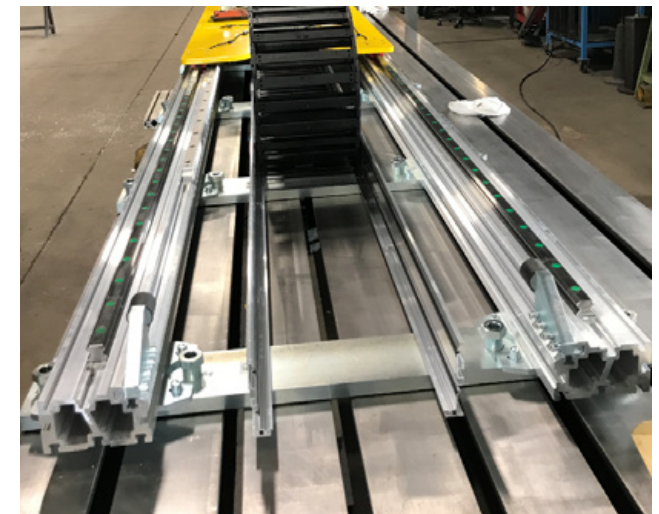
- /// DIN 508 M8 T-Nut available for mounting (per 50)
- /// Pinion
 - Straight tooth system: M3
 - Helical tooth system: M3
- /// Mounting blocks BC 03003

OPTIONS ON DEMAND

- /// Stop buffers
- /// Connecting elements between 2 profiles in parallel
- /// Surface treatments
 - Anodizing coating of the aluminium profile
- /// Coating HIWIN rails: CZS or CTS
- /// Straight toothed gear rack or helical toothed gear rack (M3)
 - Coating on request
- /// Other brands of guideways and racks on request



VAP30HA



VAP30HB



PCG

PCG - PNEUMATIC CYLINDER GUIDEWAY ECG - ELECTRIC CYLINDER GUIDEWAY

GENERAL INFORMATION

The compact PCG/ECG Unit provides robust guidance for both pneumatic and electric actuators, and it does this in compliance with the ISO 15552 standard.

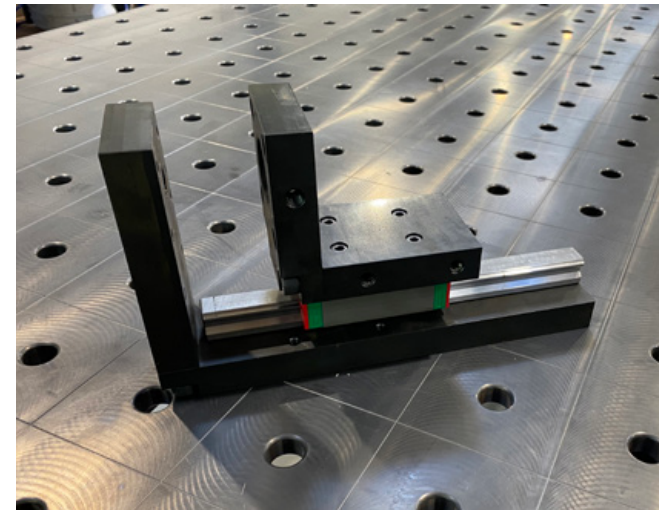
The units have been developed on the basis of standard dimensions and are available in bore sizes 32 through 63 with a maximum stroke length of 500 mm. Other information and stroke lengths are available upon request.

FEATURES

- High load capacity
- High rigidity with compact dimensions
- Easy assembly and maintenance
- Long service life
- Compatible elements
- Actuators are not included



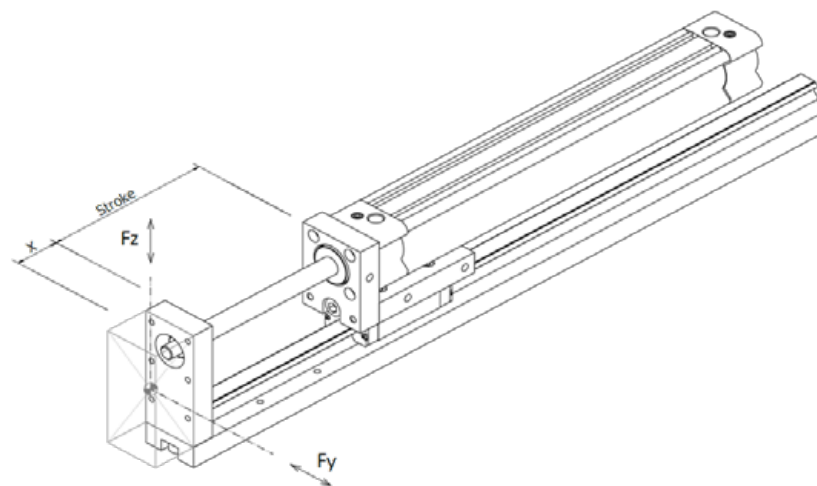
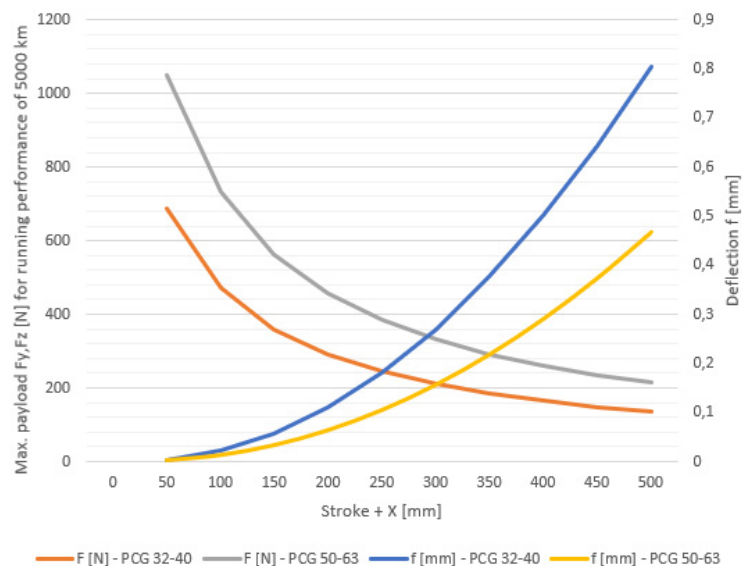
ELECTRIC CYLINDER GUIDEWAY



PNEUMATIC CYLINDER GUIDEWAY

FORCES

VANSICHEN PCG/ECG VS BALL BEARING BASED GUIDE UNIT

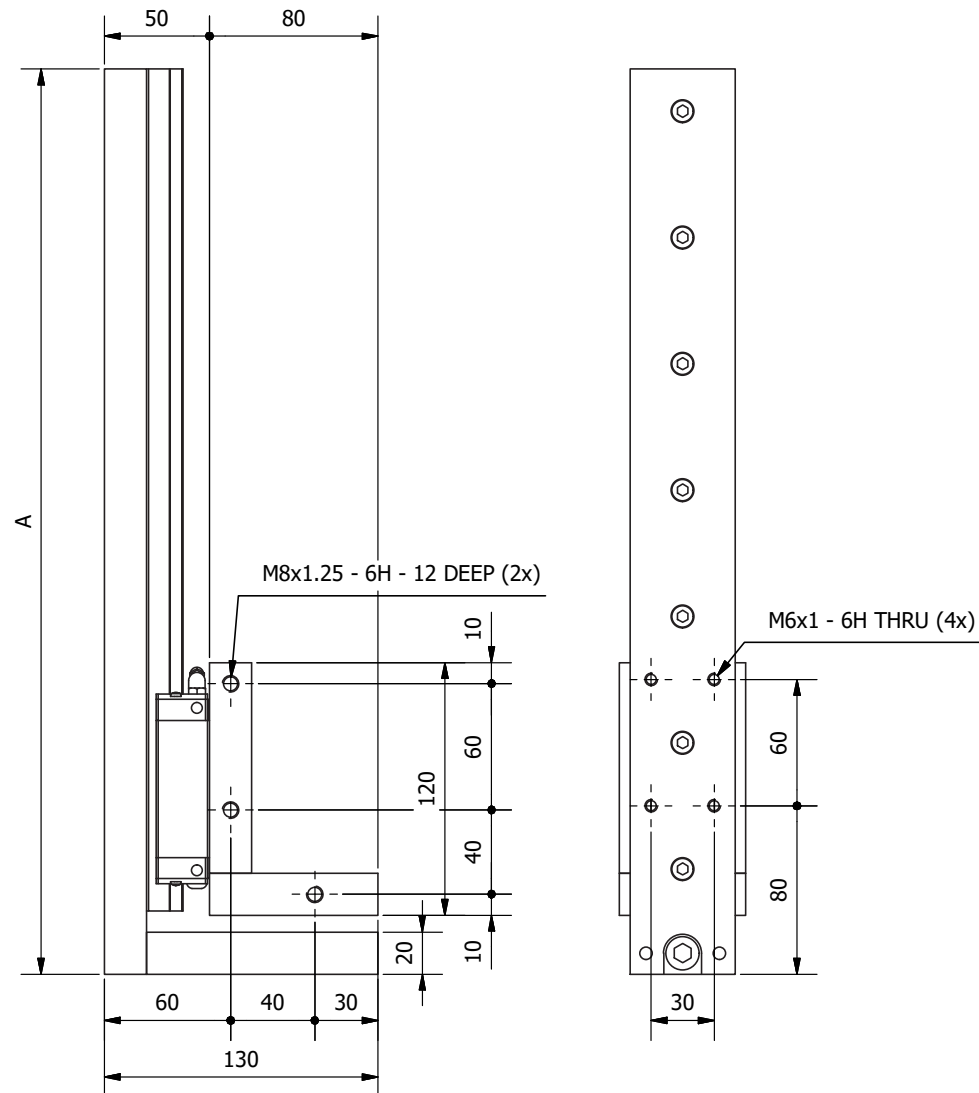
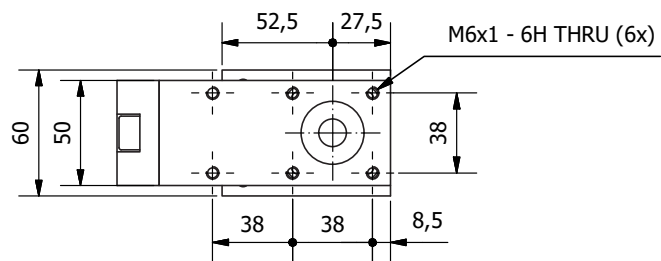


ORDER CODE

PCG/ECG	Cylinder		Guide type		Stroke length	
	(32) Cylinder Ø32 mm		(20) HGH20HA		(I) Max. 125 mm	
	(40) Cylinder Ø40 mm				(II) Max. 250 mm	
	(50) Cylinder Ø50 mm		(25) HGH25HA		(III) Max. 500 mm	
	(63) Cylinder Ø63 mm					
PCG/ECG	-	32	-	20	-	I

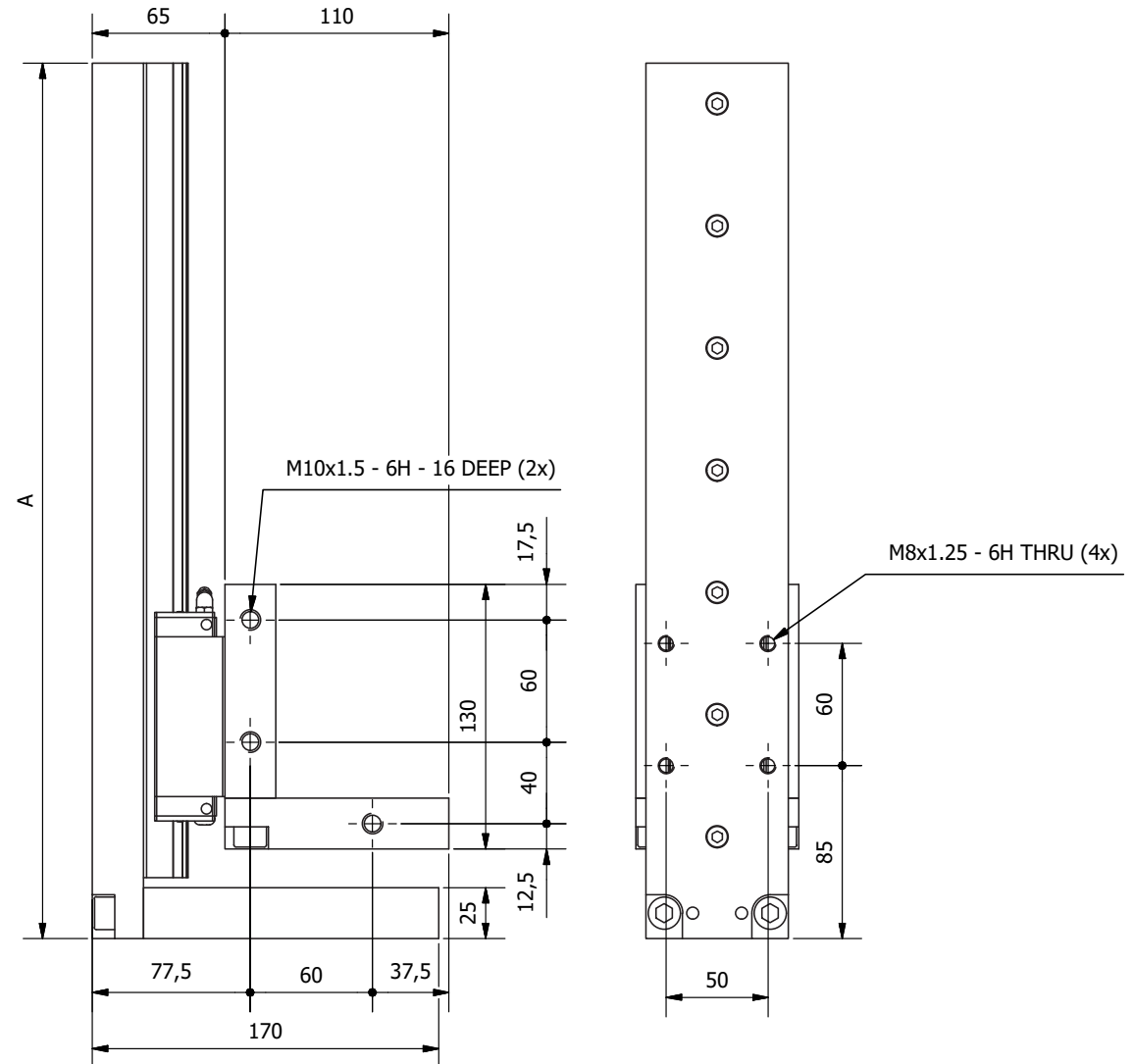
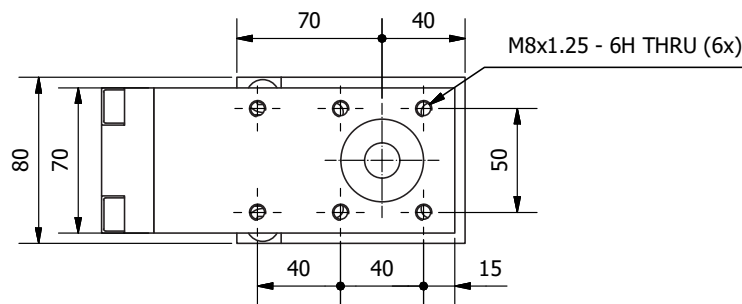
DIMENSIONS PCG/ECG 32-40

		A
PCG/ECG-32-20-I	PCG/ECG-40-20-I	260
PCG/ECG-32-20-II	PCG/ECG-40-20-II	430
PCG/ECG-32-20-III	PCG/ECG-40-20-III	670

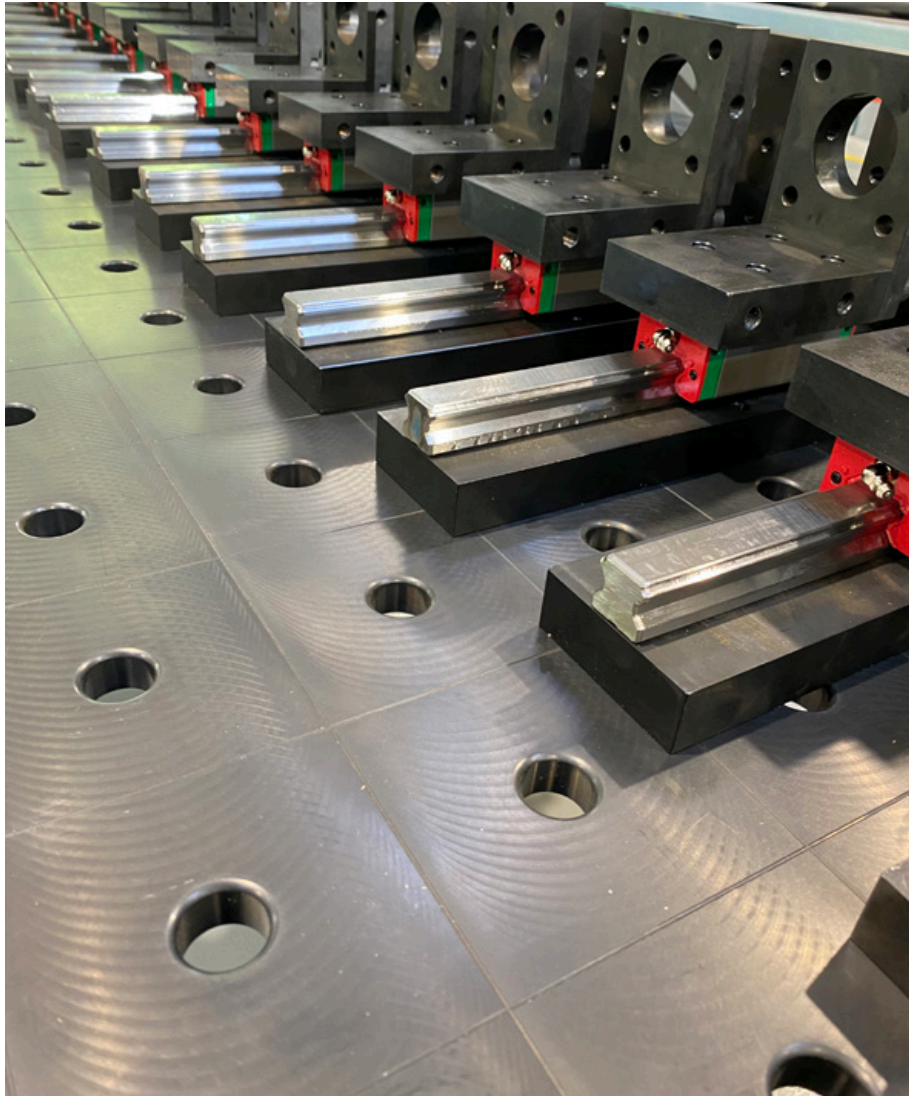


DIMENSIONS PCG/ECG 50-63

		A
PCG/ECG-50-25-I	PCG/ECG-63-25-I	310
PCG/ECG-50-25-II	PCG/ECG-63-25-II	430
PCG/ECG-50-25-III	PCG/ECG-63-25-III	670

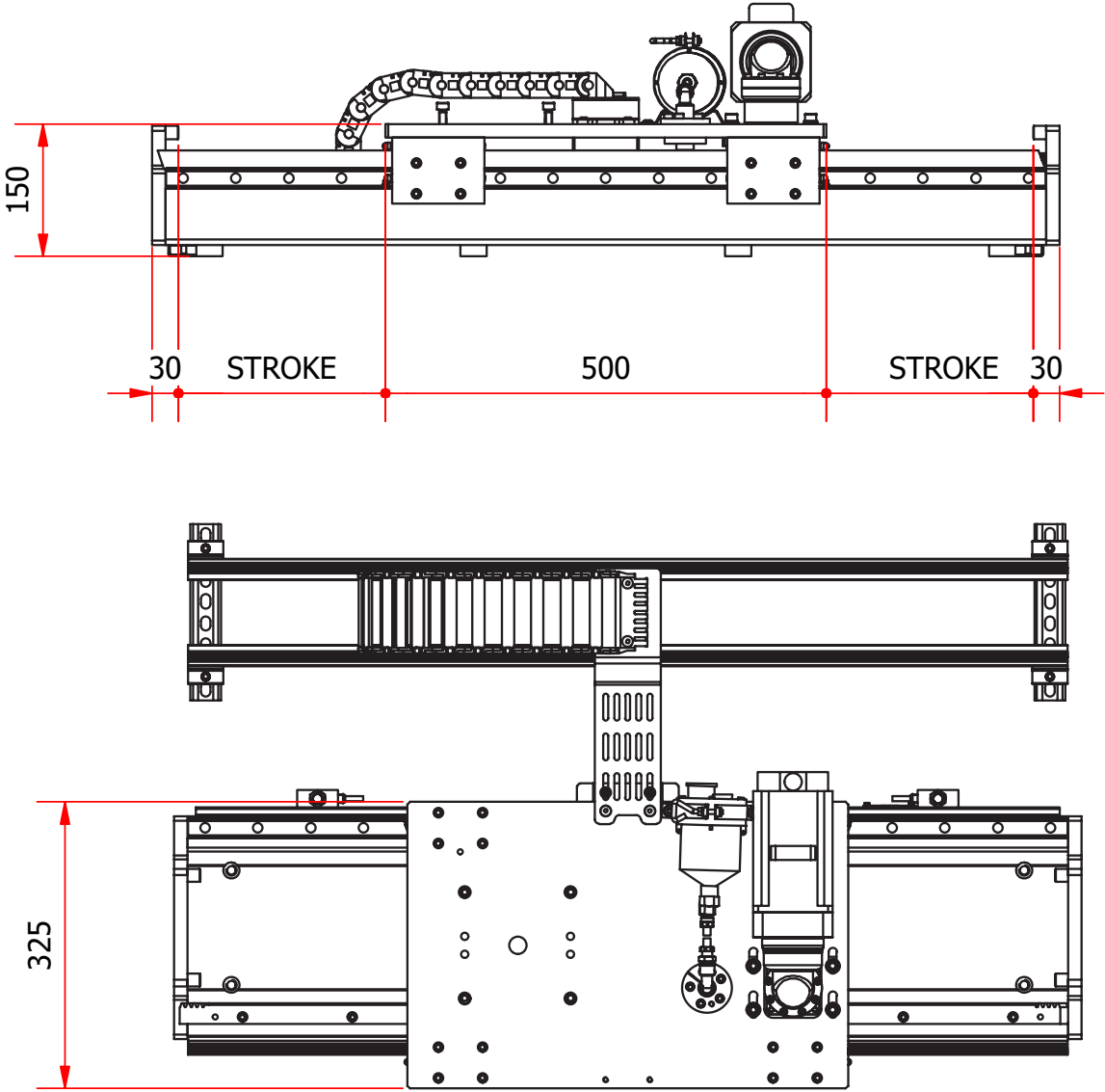


REALISATIONS

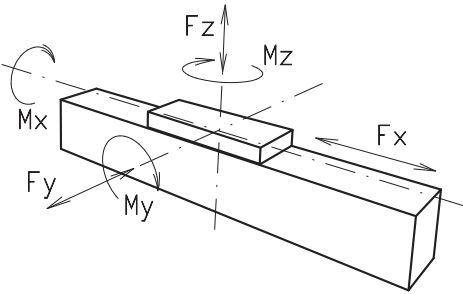




TRANSFER UNITS



Transferunit FT25



Gearbox type	AFR075
Module	M3
Rack and pinion type	Rack: Q8, tempered Pinion: Q6, 18 teeth, case-hardened steel
Fx [N]**	3.075
Profile guide size	25
Fy [N]*	18.125
Fz [N]*	36.250
Mx [Nm]*	4.600
My [Nm]*	10.000
Mz [Nm]*	10.000

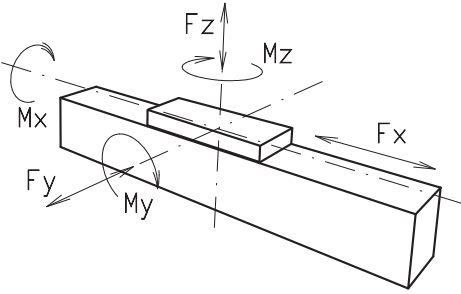
Use the formula below for the forces and moments on the linear module

Table value $\frac{F_y}{F_{y_{dyn}}} + \frac{F_z}{F_{z_{dyn}}} + \frac{M_x}{M_{x_{dyn}}} + \frac{M_y}{M_{y_{dyn}}} + \frac{M_z}{M_{z_{dyn}}} \leq 1$

Actual load

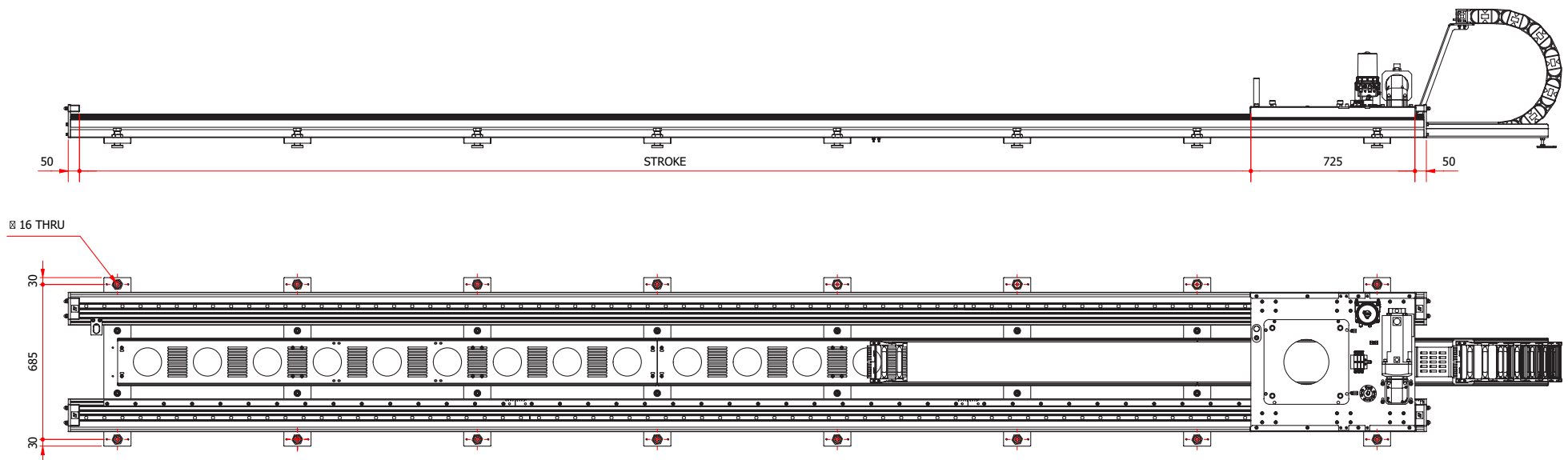
* Based on 5.000 km service life
** Toothed bar/gear is not the limiting load factor.

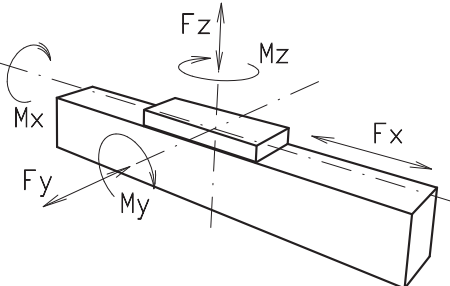
Transferunit FT30-AL

	Gearbox type	ABR90	Fz [N]*	75.500
	Module	M3	Mx [Nm]*	17.150
	Rack and pinion type	Rack: Q8, tempered Pinion: Q6, 20 teeth, case-hardened steel	My [Nm]*	14.250
	Fx [N]**	2.425	Mz [Nm]*	14.250
	Profile guide size	30	Use the formula below for the forces and moments on the linear module Table value $\frac{F_y}{F_{y_{dyn}}} + \frac{F_z}{F_{z_{dyn}}} + \frac{M_x}{M_{x_{dyn}}} + \frac{M_y}{M_{y_{dyn}}} + \frac{M_z}{M_{z_{dyn}}} \leq 1$	
	Fy [N]*	37.750		

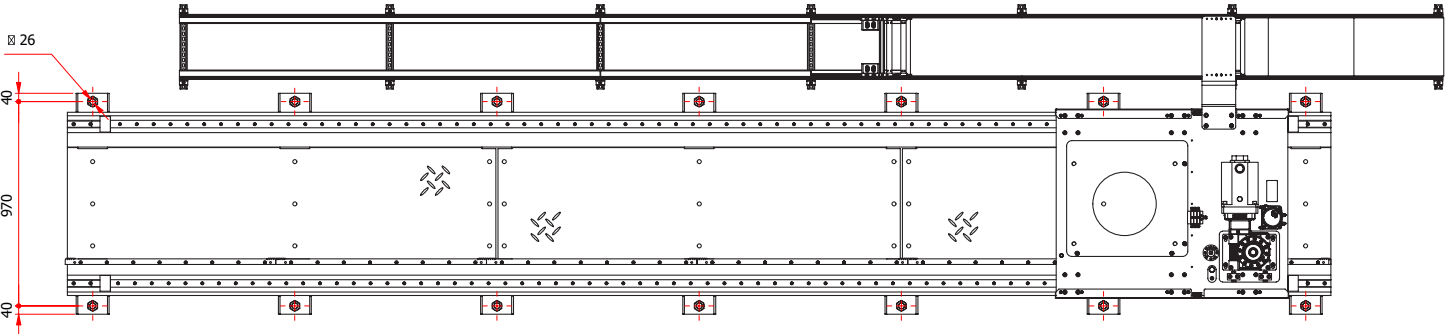
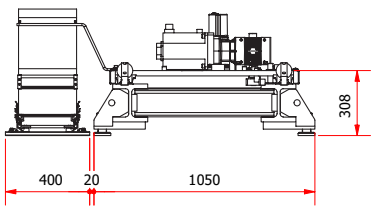
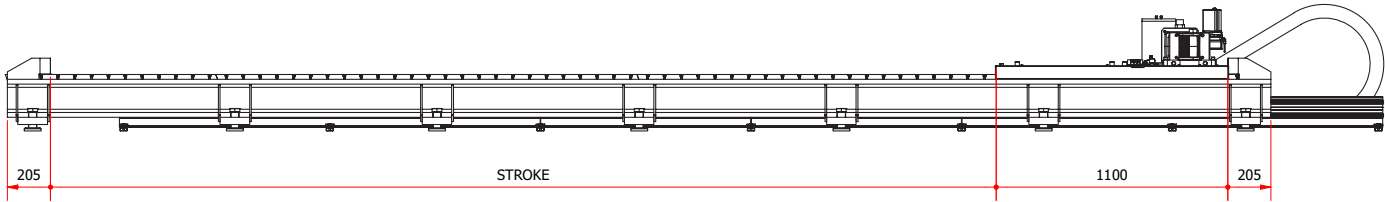
* Based on 5.000 km service life

** Toothed bar/gear is not the limiting load factor.

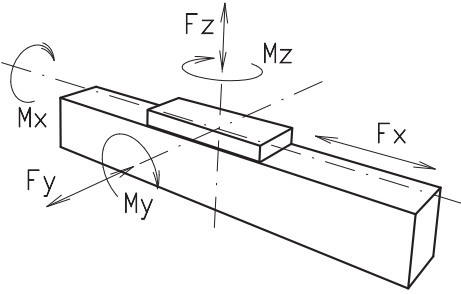


Transferunit FT35				
	Gearbox type	AFR140	Fz [N]*	100.500
	Module	M3	Mx [Nm]*	38.050
	Rack and pinion type	Rack: Q8, tempered Pinion: Q6, 22 teeth, case-hardened steel	My [Nm]*	28.350
	Fx [N]**	10.500	Mz [Nm]*	28.350
	Profile guide size	35	Use the formula below for the forces and moments on the linear module Table value $\frac{F_y}{F_{y_{dyn}}} + \frac{F_z}{F_{z_{dyn}}} + \frac{M_x}{M_{x_{dyn}}} + \frac{M_y}{M_{y_{dyn}}} + \frac{M_z}{M_{z_{dyn}}} \leq 1$ Actual load	
	Fy [N]*	50.250		

* Based on 5.000 km service life
** Toothed bar/gear is not the limiting load factor.

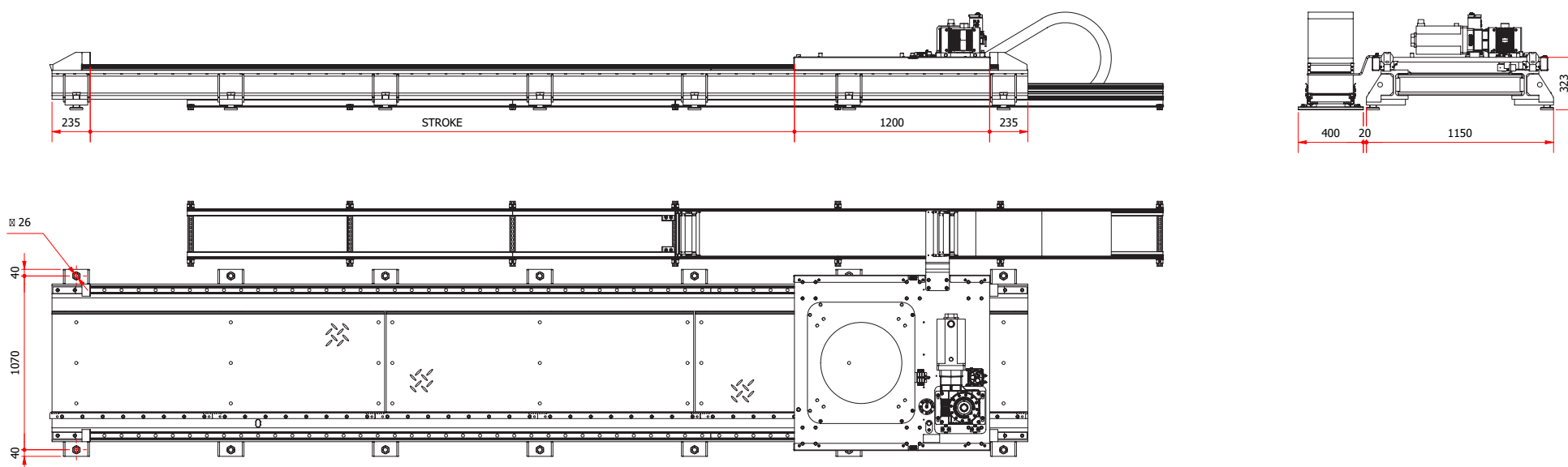


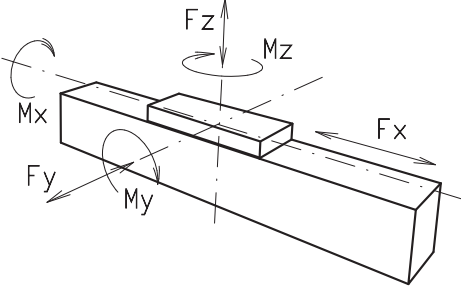
Transferunit FT45

	Gearbox type	AFR140	Fz [N]*	161.750
	Module	M4	Mx [Nm]*	72.450
	Rack and pinion type	Rack: Q8, tempered Pinion: Q6, 21 teeth, case-hardened steel	My [Nm]*	55.050
	Fx [N]**	10.500	Mz [Nm]*	55.050
	Profile guide size	45	Use the formula below for the forces and moments on the linear module Table value $\frac{F_y}{F_{y_{dyn}}} + \frac{F_z}{F_{z_{dyn}}} + \frac{M_x}{M_{x_{dyn}}} + \frac{M_y}{M_{y_{dyn}}} + \frac{M_z}{M_{z_{dyn}}} \leq 1$ Actual load	
	Fy [N]*	80.875		

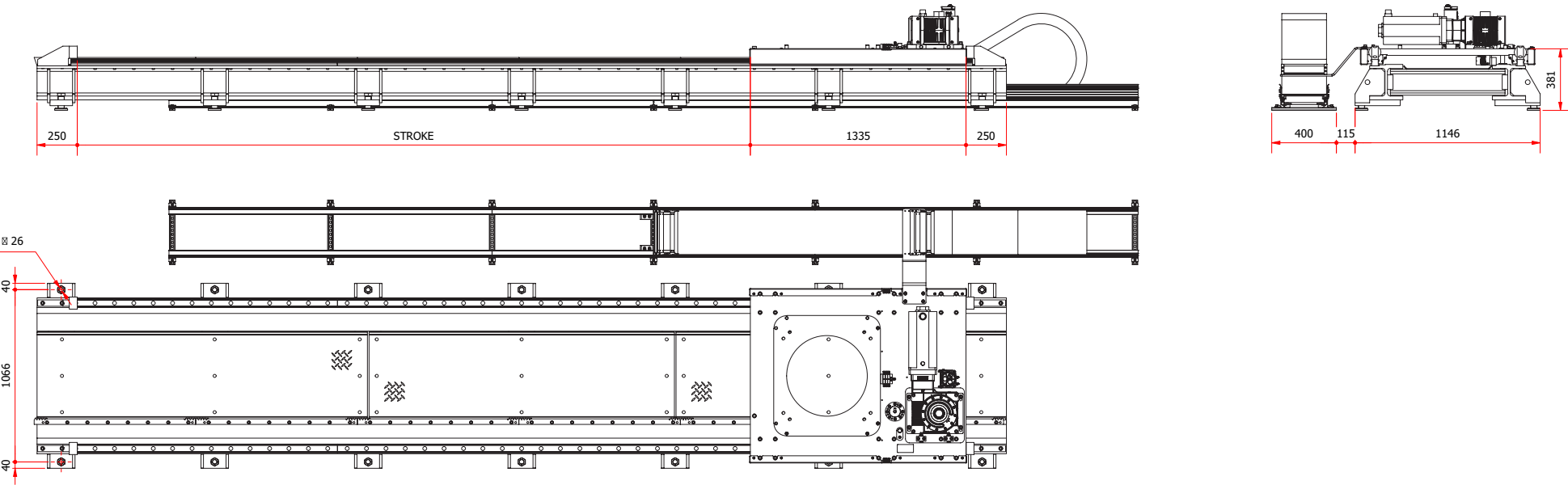
* Based on 5.000 km service life

** Toothed bar/gear is not the limiting load factor.



Transferunit FT55				
	Gearbox type	AFR180	Fz [N]*	239.000
	Module	M5	Mx [Nm]*	107.550
	Rack and pinion type	Rack: Q8, tempered Pinion: Q6, 24 teeth, case-hardened steel	My [Nm]*	89.200
	Fx [N]**	13.500	Mz [Nm]*	89.200
	Profile guide size	55	Use the formula below for the forces and moments on the linear module Table value $\frac{F_y}{F_{y_{dyn}}} + \frac{F_z}{F_{z_{dyn}}} + \frac{M_x}{M_{x_{dyn}}} + \frac{M_y}{M_{y_{dyn}}} + \frac{M_z}{M_{z_{dyn}}} \leq 1$	
	Fy [N]*	119.500		

* Based on 5.000 km service life
** Toothed bar/gear is not the limiting load factor.

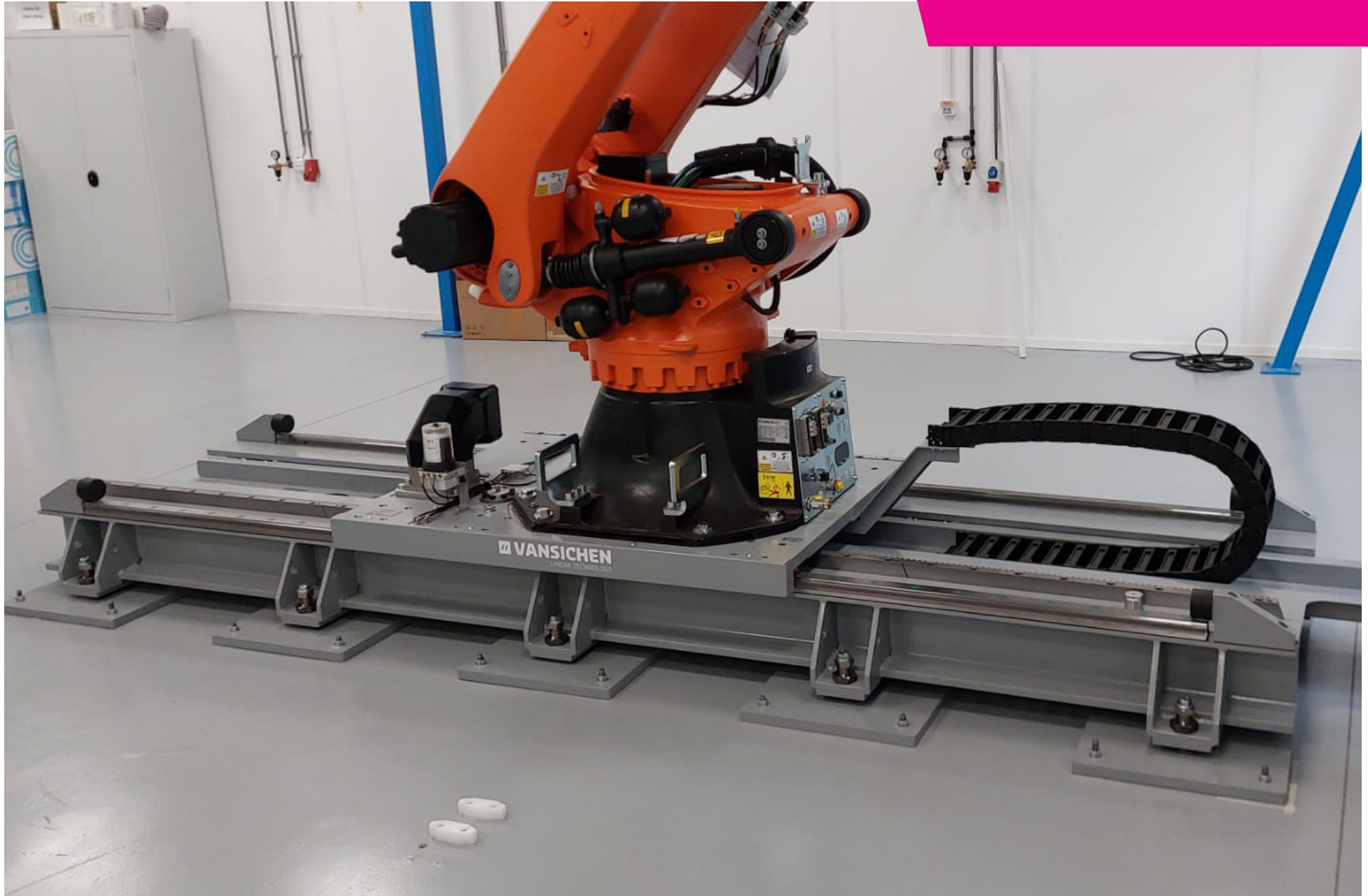






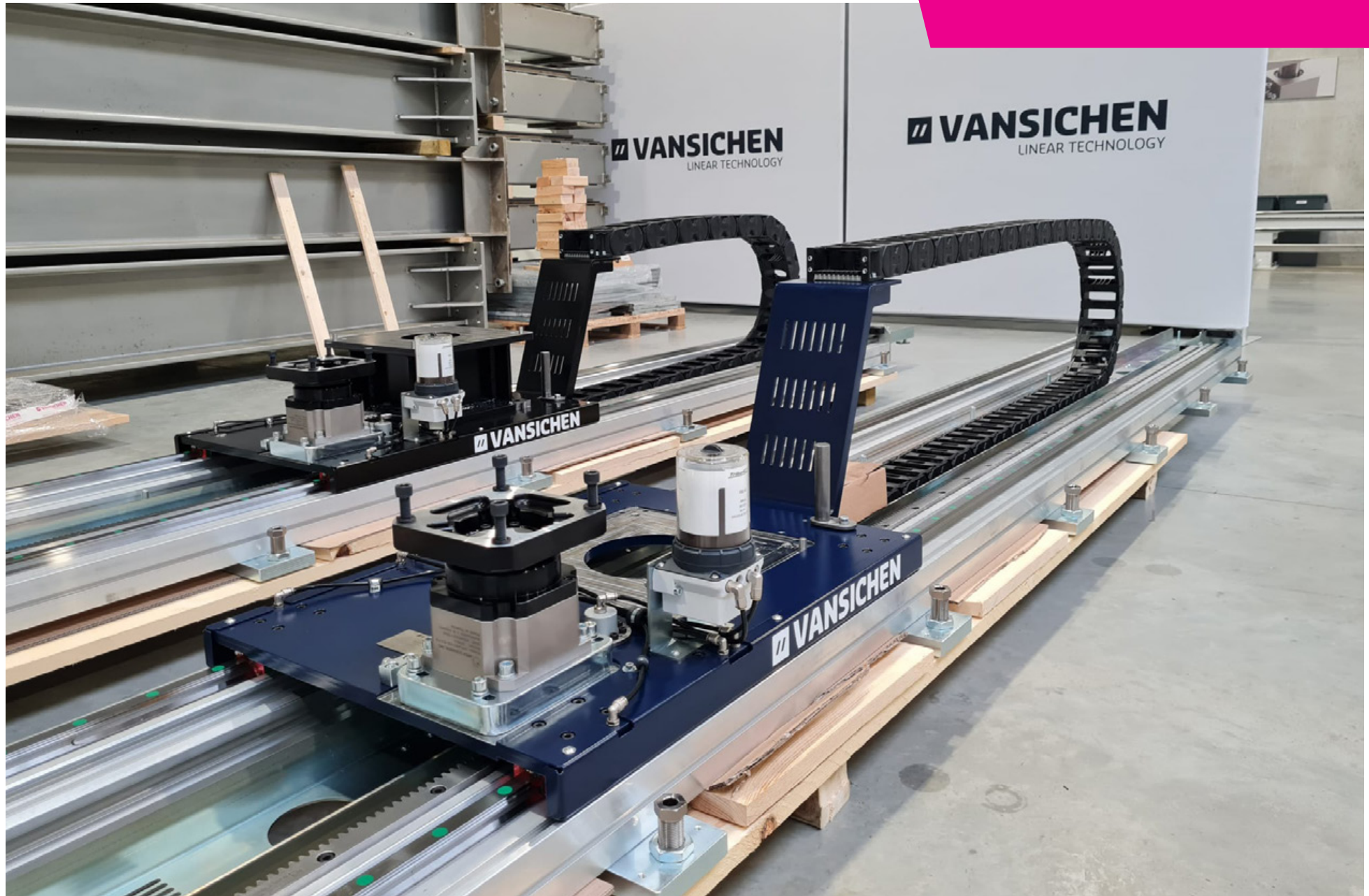
**DISCOVER MORE
ON OUR WEBSITE**

ROBOT TRANSFER UNITS



REALISATIONS





REALISATIONS







POSITIONERS

POSITIONERS

Our comprehensive product portfolio of positioners enables individual solutions for partially special conditions, such as ex-protection areas, cleanroom conditions, aggressive materials or high amounts of dust. Economic design, efficient automation and highest product quality must not contradict each other – quite the contrary! In all of our conception and customer-specific applications we focus on:

- “ In-house and thus, exclusively German designs and conceptions
- “ Modern state-of-the-art applications
- “ Professional drive layout computation
- “ Robust and statically dimensioned design
- “ Sufficiently dimensioned mounting and pivot bearing
- “ Robust face plates according to customer specifications
- “ All of our products are delivered including CE-conform documentation.
- “ Upon request you can receive drawings in 2D and 3D format as well as all descriptions and maintenance schedules.

Vansichen positioners utilize servo motors of the robot manufacturers, which are directly addressed by the robot control. All positioners can be combined with our linear travelling axes. Besides professional on-site assembly and complete service we also offer the option to startup your system at our premises.



**DISCOVER MORE
ON OUR WEBSITE**

REALISATIONS

POSITIONERS



Linear systems

