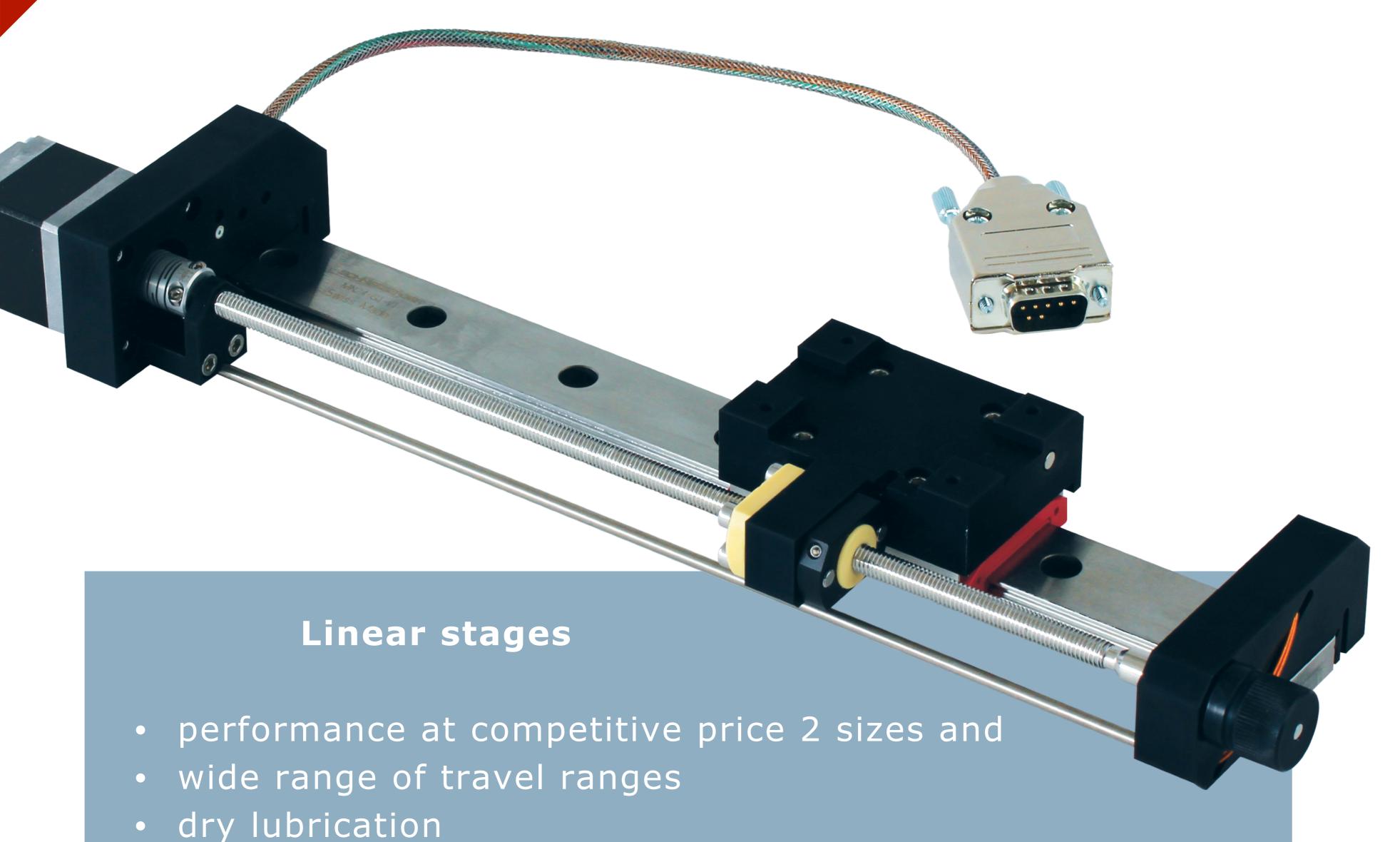
FlatRail





These low profile linear translation stages are designed with a stainless steel recirculating ball bearing, a preloaded lead-screw drive, a stepper motor, contactless end of run sensors and optional integrated linear measurement system for Closed loop control; this design matches load capacity, compactness and micro-positioning performances at a competitive price. Two sizes and a wide range of standard travel ranges, optional double carrier to increase stiffness and load capacity plus standard accessories for XY and XYZ mounting make Flat Rail flexible to any configuration. The lubricant free drive system makes them extremely clean and maintenance free. AntRail stages match sub micron positioning resolution and repeatability with high speed positioning and they are suitable for both laboratory and industrial environment. The dry lubrication lead screw is non reversible and keeps the position stable even when the motor is off, a knob allows to do manual adjustment which is always very useful in the system mounting operations before you connect the controller.

Flat Rail stages can be used in laboratory as well as industrial environment, Flat Rail eXtreme share the same design but are made with materials and components that make them usable in Vacuum, HV or UHV environment.

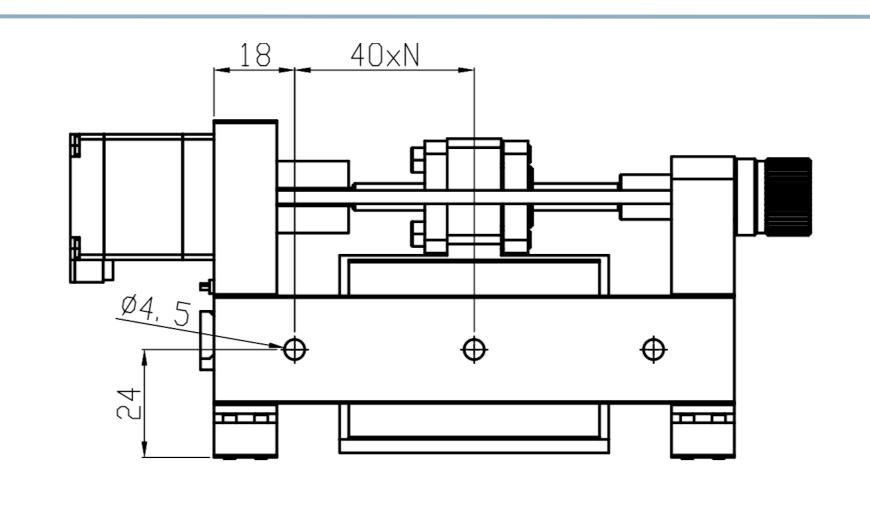
FR-S-1 FlatRail Small size with single carrier

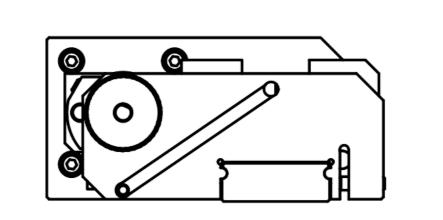
open and Closed loop

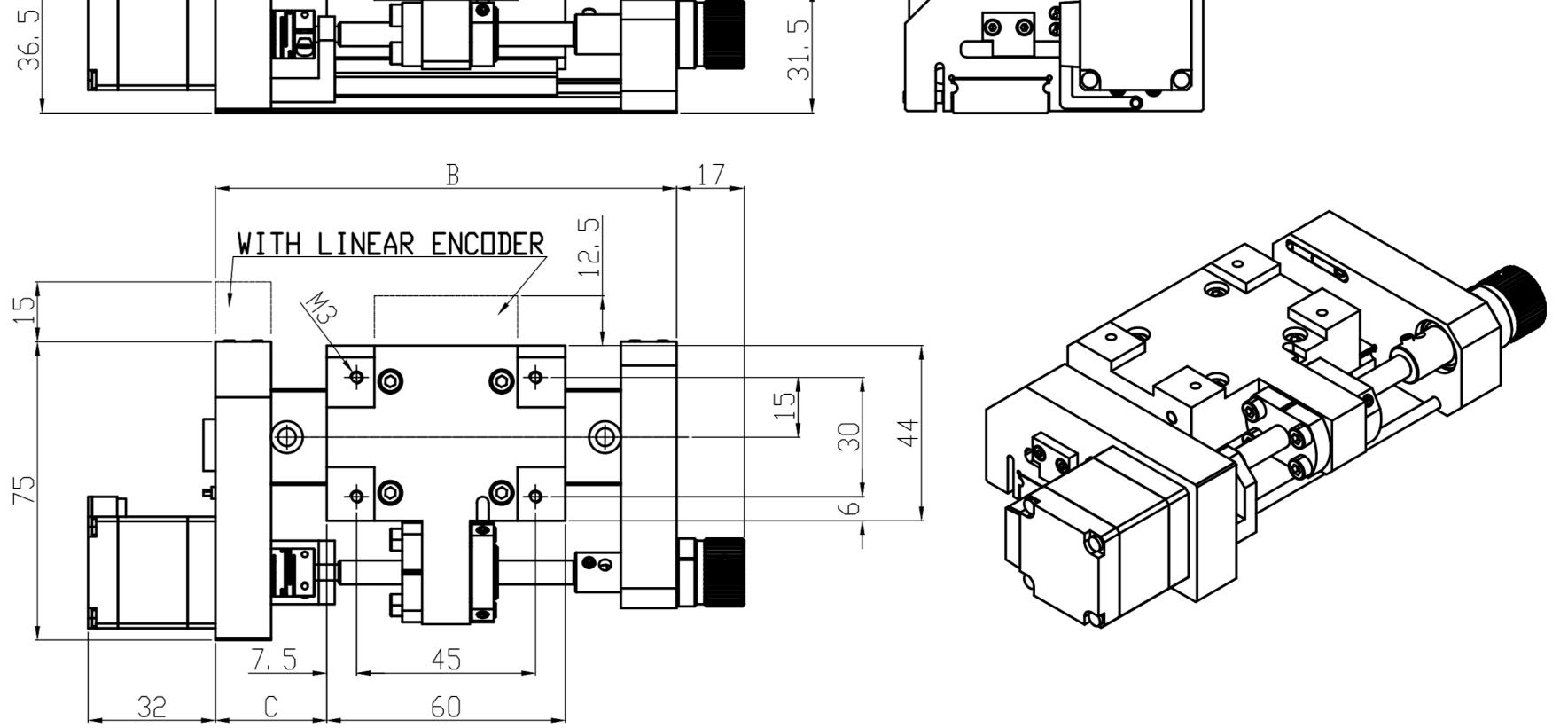
available in eXtreme version for HV and UHV

Stroke	В	C	N
25	116	28	2
65	156	48	3
105	196	68	4
145	236	88	5
185	276	108	6
225	316	128	7
265	356	148	8

Stroke	В	C	N
25	116	28	2
65	156	48	3
105	196	68	4
145	236	88	5
185	276	108	6
225	316	128	7
265	356	148	8





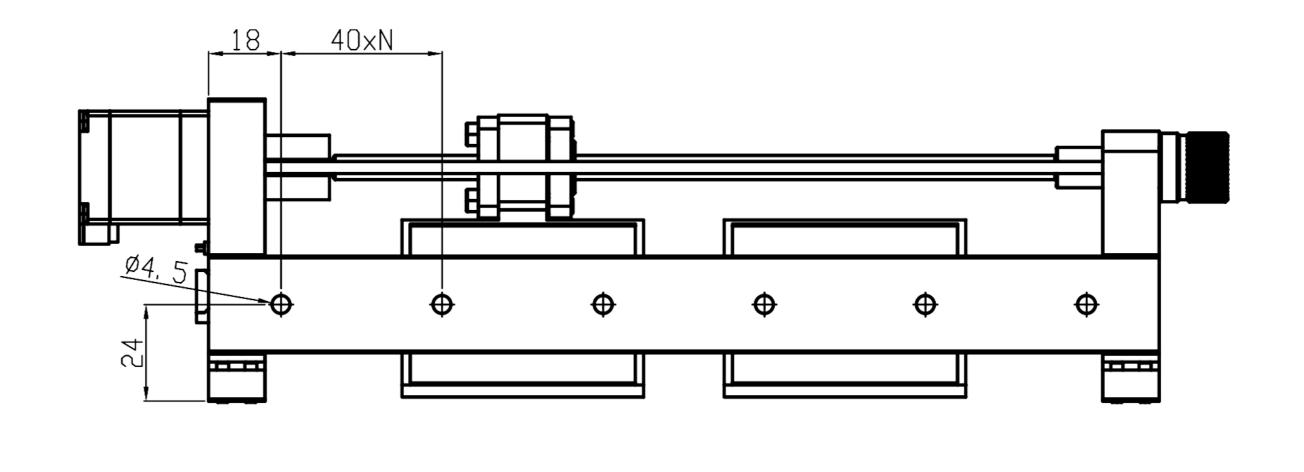




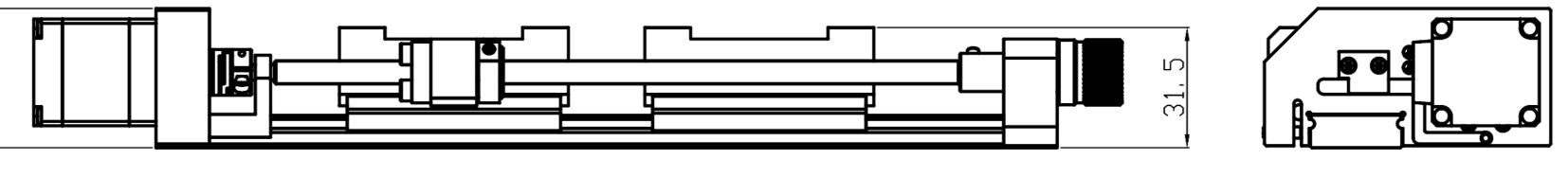
FR-S-2

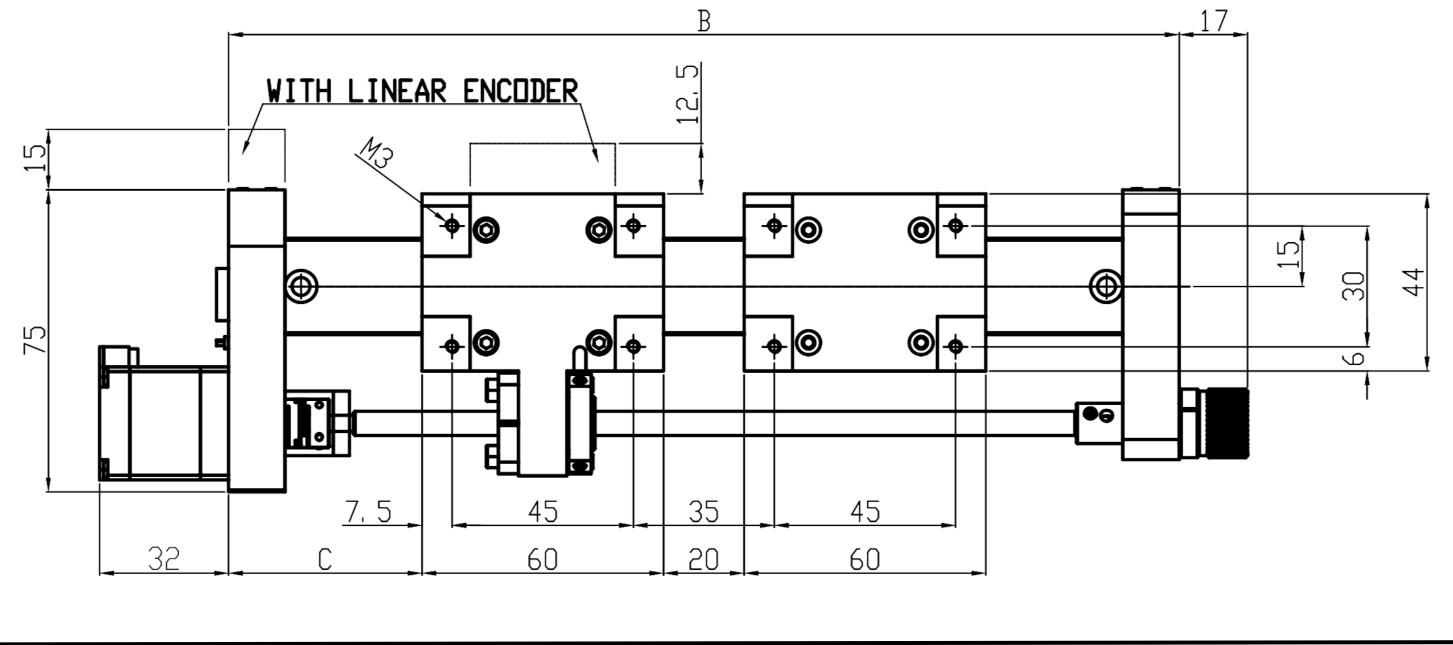
FlatRail Small size with double carrier

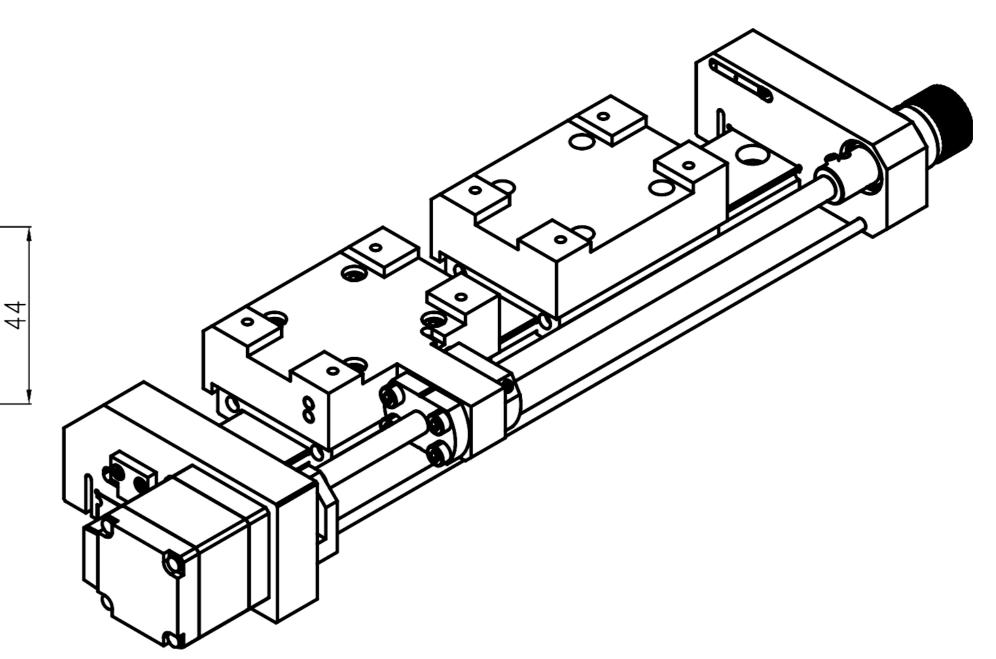
Stroke	В	C	N
65	236	48	6
105	276	68	6
145	316	88	7
185	356	108	8







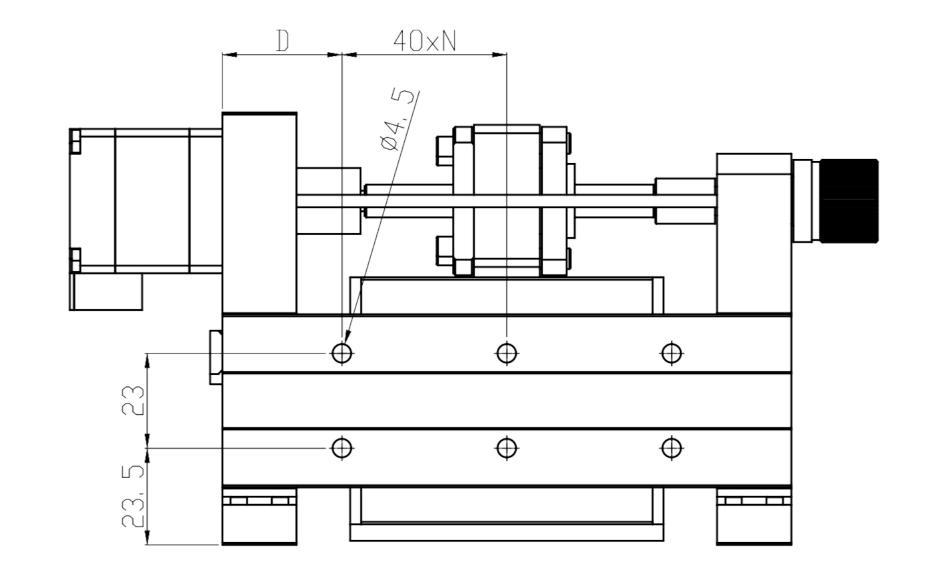


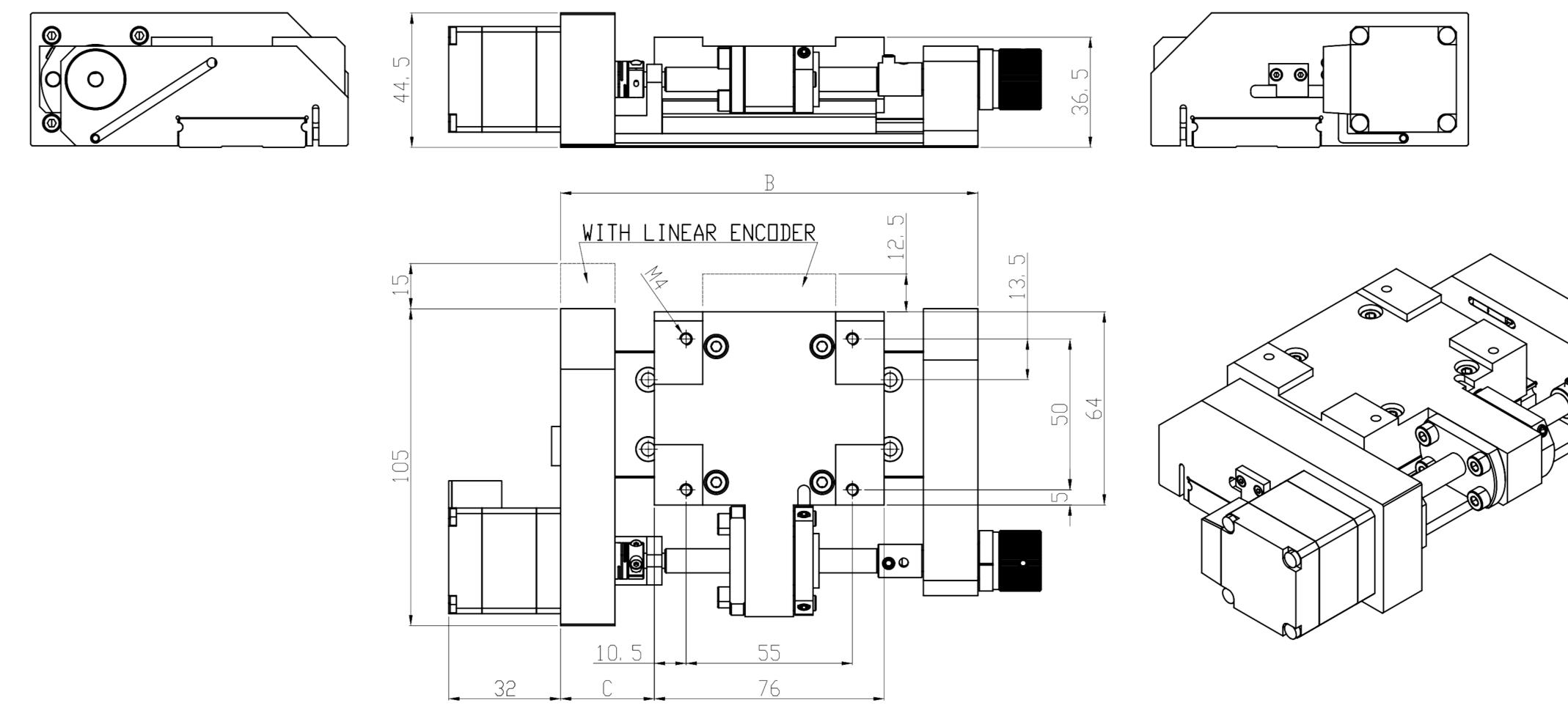


FR-M-1

FlatRail Medium size with single carrier

Stroke	В	C	D	N
25	138	31	29	2
50	164	44	22	3
90	204	64	22	4
130	244	84	22	5
170	284	104	22	6
210	324	124	22	7
250	364	144	22	8
290	404	164	22	9
330	444	184	22	10
370	484	204	22	11
410	524	224	22	12

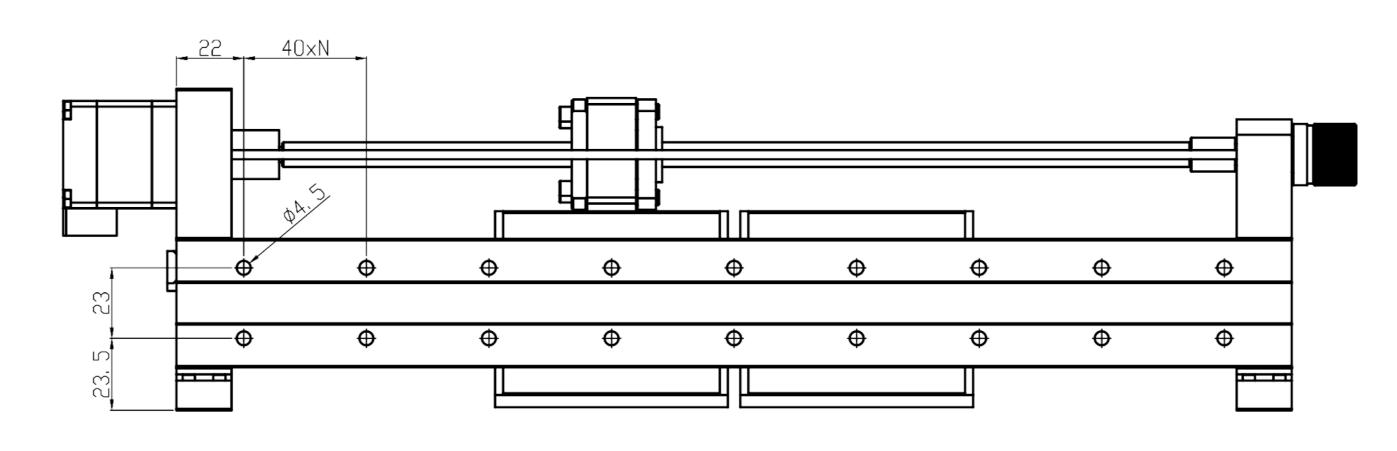




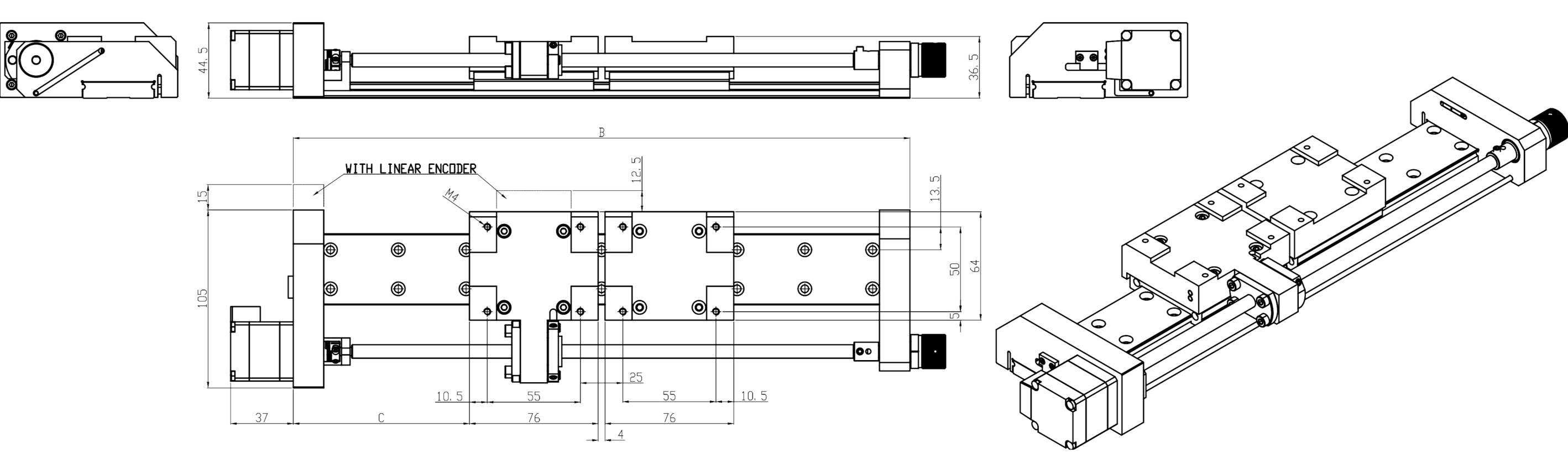
FR-M-2

FlatRail Medium size with double carrier

Stroke	В	C	N
170	364	104	8
210	404	124	9
250	444	144	10
290	484	164	11
330	524	184	12







FR-S-xyz

FlatRail Small size xyz configuration

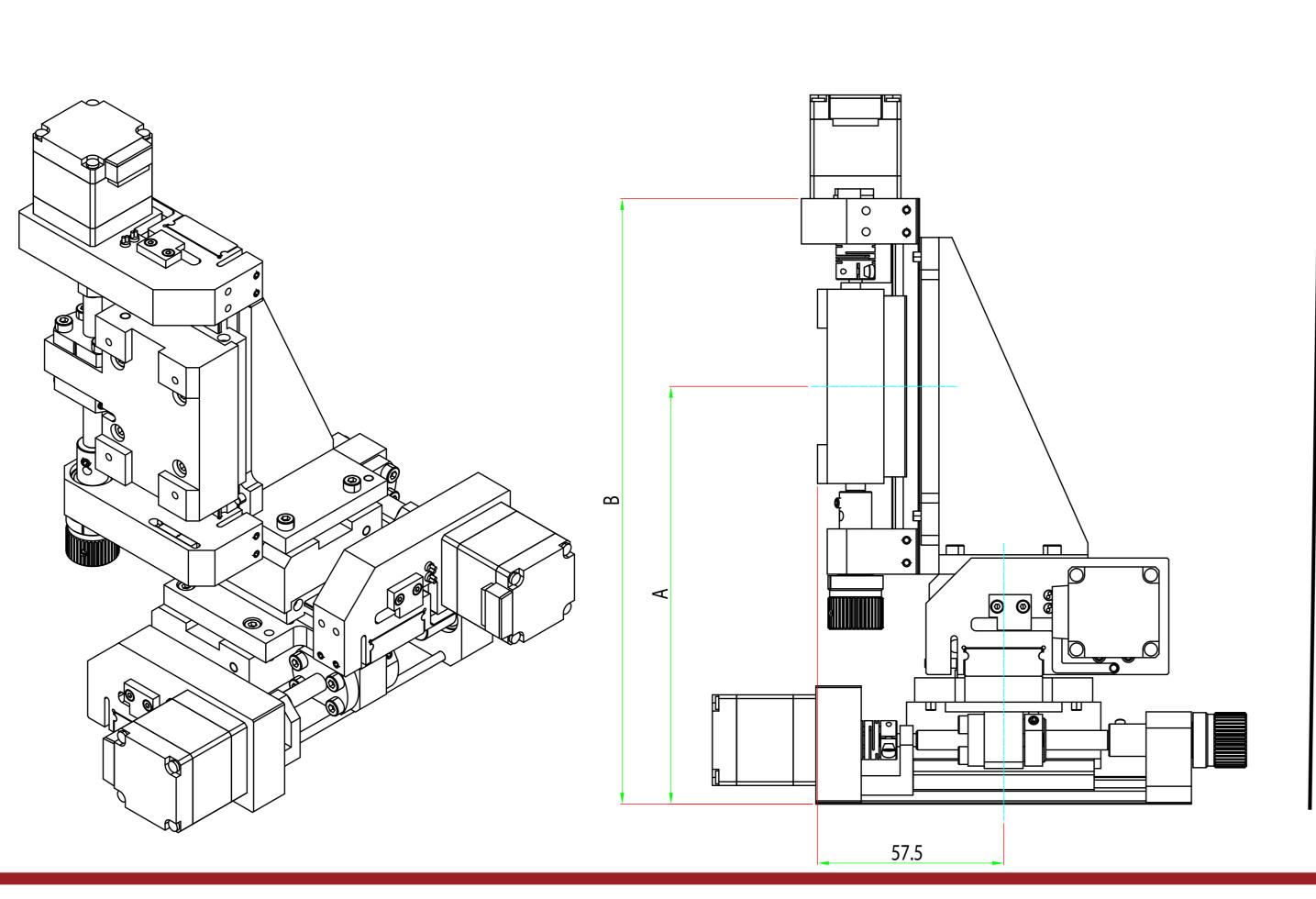
Stroke	A	В
25	129	187
65	149	227
105	169	267
145	189	307
185	209	347
225	229	387
265	249	427

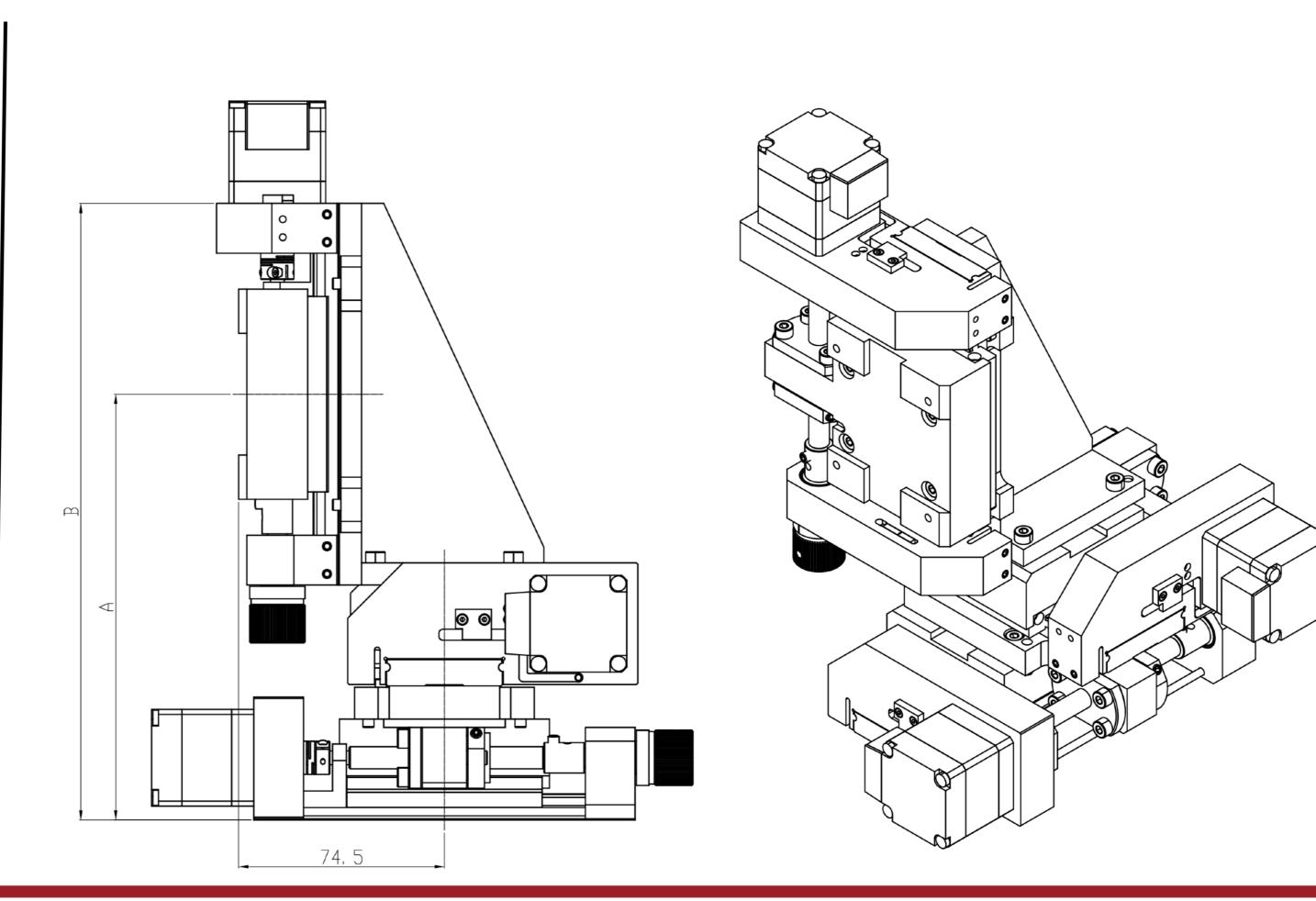
FlatRail series **Ordering Information**

Flat Rail	Size	Carriers	Stroke		
FR	S	1	25/65/105/145/185/225/265		
		2	65/105/145/185		
	N/I	1	25/50/90/130/170/210/250/290/330/370/410		
	M	2	170/210/250/290/330		

e.g.:

FR-S-2-145-HV = Flat Rail Small size, double carrier, 145mm stroke with HV motor; FR-M-1-50-UHV-XYZ = Flat rail Medium size, single carrier, 50mm stroke, UHV motor, XYZ configuration





FR-M-xyz

FlatRail Medium size xyz configuration

Stroke	A	В
25	154	223
50	167	249
90	187	289
130	207	329
170	227	369
210	247	409
250	267	449
290	287	489
330	307	529
370	327	569
410	347	609



Questionnaire

Fill in this questionnaire and mail it to ufficiovendite@vacuumfab.it to get ou	r consultancy for the positionin	g system design, free of charge	es:	
	CUSTOMER'S REFI			
Name, surname:	Institute/company:			
Phone Number:	Email:			
	WEIGHT/SPECIMEN IN	FORMATION	NA. A	
Dimensions (mm):	lenght	width	height	→ Fy
Shape: (description or better attach drawing)			Mz	
Weight (g):				
Center of gravity coordinates from the center of the carrier (mm):	X	Y	Z Fz	
Notes:			→	
	POSITIONING REQU	JIREMENT	Fx	
Travel range required (mm):				
Positioning resolution required (µm):			Mx	
Repeatability required (µm):	uni-directional	bi-directional		
Applied force (N):	Fx	Fy	Fz	
Applied Moment (Nm):	Mx	My	Mz	
Speed required (mm/s):				
Acceleration required (mm/s²):				
Duty Cycle:				
Other degrees of freedom required: please specify and possibly add a sketch	and a description f the applica	ation		
	WIRING REQUIR	EMENT		
Cable lenght in air from the mechanics to the controller (m):				
	CONTROLLER REQU	IREMENT		
Motion control type:	point to point	linear interpolation	contouring	
Positioning application type:	high resolution	high repeatability		
Computer connection port:	Ethernet	USB	other (specify)	
Software compatibility:	DLL	LabVIEW	EPICS	TANGO
Notes:				
Date and signature:				
Date and signature:				