

Ball Bushing Slide Type KCL with integrated linear motor

**Handling, Assembly Technique, Machining Technique, etc.
... but also for your applications**

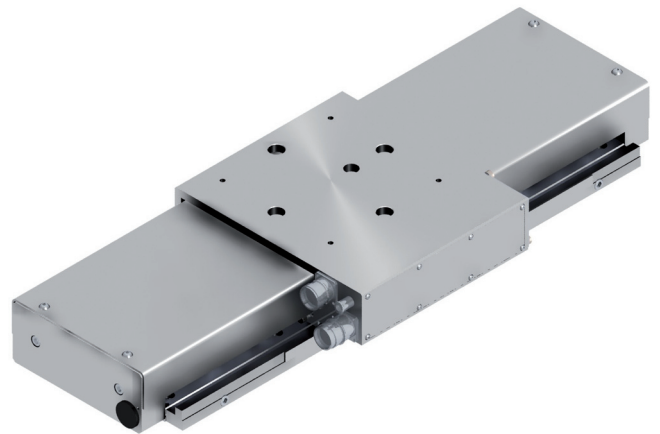
- ✓ *compact*
- ✓ *high dynamics*
- ✓ *high operational performance*

Föhrenbach's precision slide guide type KCL with ball bushings and integrated linear motor, is an alternative solution to belt and rack axes.

The type KCL is characterized by

- very compact design
- optimum running characteristics
- low noise operation
- high dynamics
- high power density
- continuous high positioning and repeating accuracy by zero backlash (without mechanical transmission components with clearance)
- good regulation characteristics
- high rigidity and damping
- small maintenance costs

Possible speed up to 3 m/s and accelerations up to 10 m/s².



Material

- Aluminium anodised natural

Slide

- Ball bushing slide

Drive

- Föhrenbach linear motor
(control by conventional servo controllers)

Protection class

- Protection class: IP 50 (Other protection classes on request)

Lubrication

- With first greasing run achievement above 6000 km; longer running times on request

Ambient temperature

- Allowable temperature at the operating location: +10 °C up to +40 °C

Field of applications

- Assembly technique, handling and machining technique, automation systems, electronic and packaging industry

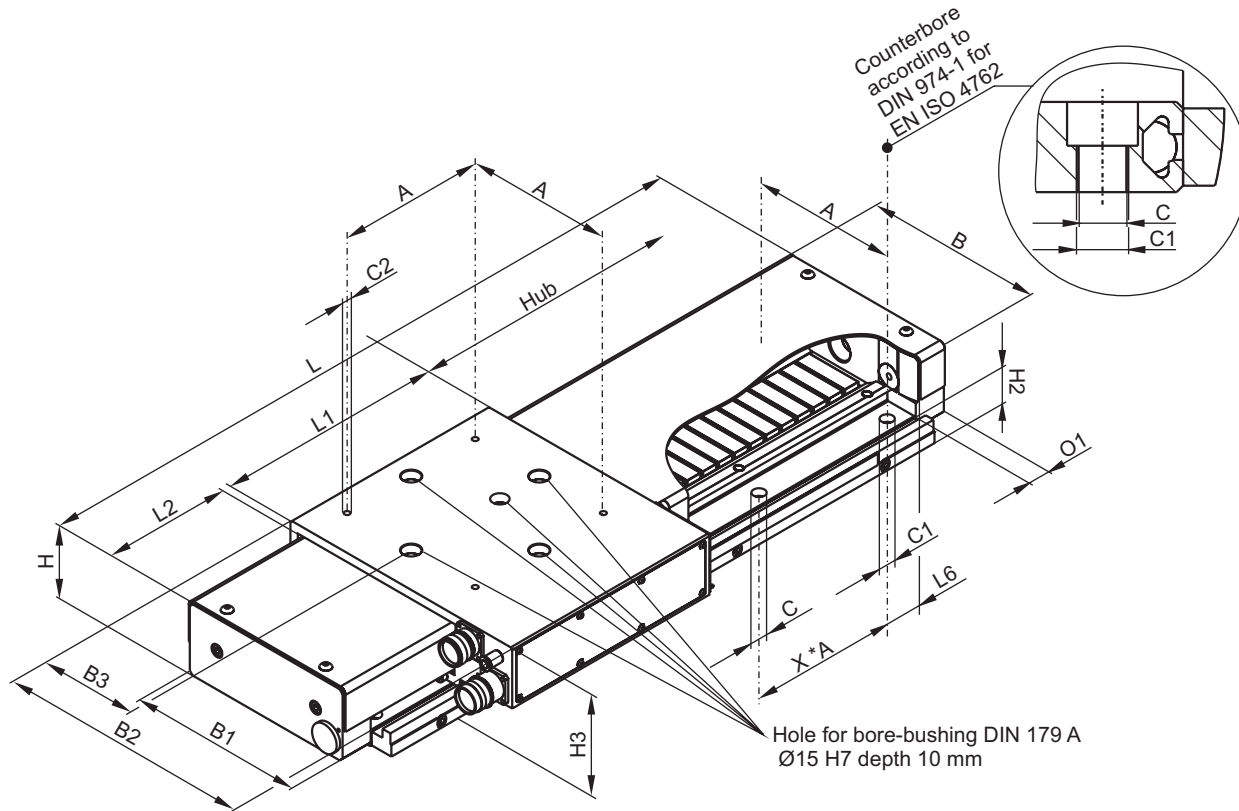
Measuring systems

- Position measuring systems, absolute
- Position measuring systems, incremental

Technical data

- Positioning accuracy ± 20 µm
- Accuracy with compensation ± 5 µm
- Traversing range (stroke) up to 3000 mm

Ball Bushing Slide Type KCL 155



Dimensions

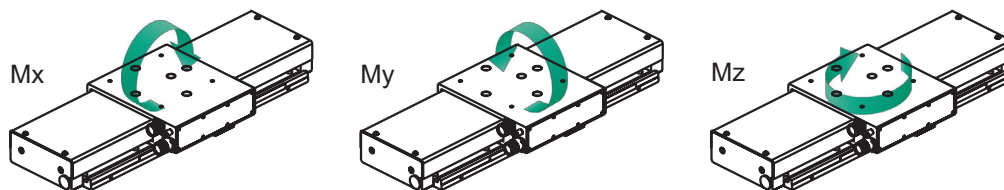
Dimensions [mm]

A	B	B1	B2	B3	C	C1	C2	H	H1	H2	H3	L1	O1	L2
130	159	155	225	87.5	7.4	M8	M6	65.5	-	14	75	200	28.5	42.5

Dimensions [mm] and weight [kg] at standard strokes

Stroke	300	400	500	600	800	1000	1200	1400	1500	1800	2000	2500	3000
L	609	709	809	909	1109	1309	1509	1709	1809	2109	2309	2809	3309
X * A	4	4	5	6	7	9	11	12	13	15	17	21	24
L6	44.5	94.5	79.5	64.5	99.5	69.5	39.5	74.5	59.5	79.5	49.5	39.5	94.5
Weight	11.8	12.5	14.4	16.4	20.4	24.4	28.4	32.4	34.3	40.3	44.3	54.3	64.2

Torque loading capacity and torsional stiffness of the non-supported slide



Static torque loading capacity [Nm] (for strokes >= length L1)			Torsional stiffness K_T [Nm/°]		
M_x	M_y	M_z	M_x	M_y	M_z
154	146	220	2496	2915	5812