

LWA 6DOF 6kg PowerBall Light Weight Arm

Part No. 0306960

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Base Data



Туре	Articulated 6 DOF Light Weight Robot		
Nominal payload	6 kg		
Number of axis	6		
Wrist mounting flange	Flat Tool Changer		
	Including several free signal connections and power		
Mounting position	any		
Repeatability	±0.06 mm		
Weight, Protection	12.5 kg, IP 54		
Axis data	Speed at nominal load	Range	
Axis 1	72 °/s	±170°	
Axis 2	72 °/s	±110	
Axis 3	72 °/s	±155	
Axis 4	72 °/s	±170	
Axis 5	90 °/s	±140	
Axis 6	90 °/s	±170	
Drives	Brushless DC motors with permanent magnetic brakes		
Position Feedback	Absolute position sensing		
Work space	See figures		
Power supply	24 V DC/ avg. 3 A / max. 20A		
Single axis control via	CANopen (CiA DS402:IEC61800-7-201)		

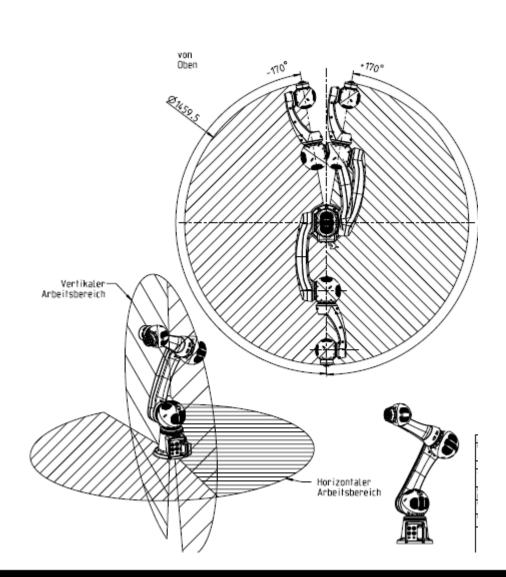


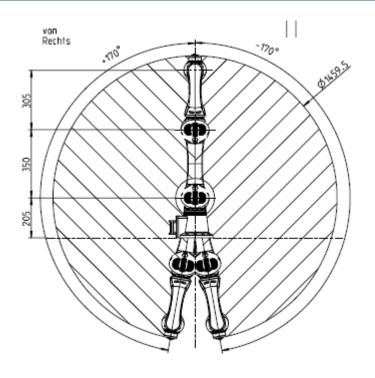




Workspace









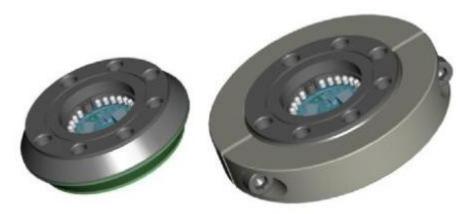


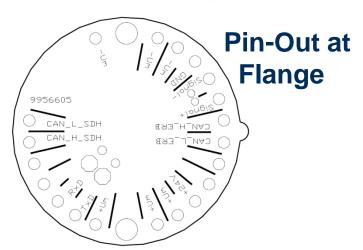


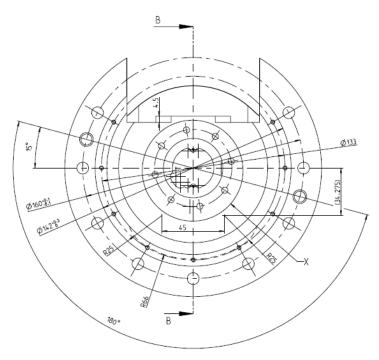
Flanges



Manual Flat Tool Changer







Robot Base





ERB PowerBall









Details per Axis		ERB 115	ERB 145
Max. Speed	[°/s]	72	72
Nominal Torque	[Nm]	7	35
Max. Torque	[Nm]	19	64
Max. rotation angle	[°]	340	340
Max. ambient temp	[°C]	40	40
Max. surface temp	[°C]	70	70
Weight	[kg]	1.8	3.9
Communication	CANopen (DS402:IEC61800-7-201)		





Electronic control unit
 Encoder
 Drive

Harmonic Drive® gears
Holding brake
Quill for internal wiring

Accessories



KEBA Robot Control CP242/A







Gripper EGP/MEG050

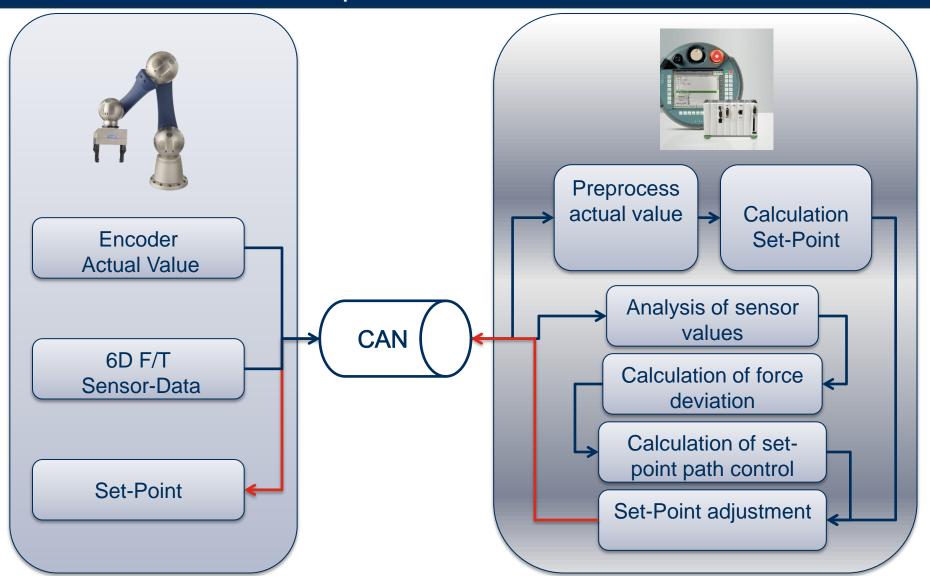


Gripper WSG 050





Force Control and compliant behavior





Example Application: Lab Automation





Mobile Manipulator for

- Grasping of small parts
- Sharing workspace with humans on a mobile platform
- Easily adaptable
- Minimal sensor usage
- Safe according to ISO EN 10218











Thank you for you attention!

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