TOOL CHANGER

TKX-030

Picture similar. Errors and omissions excepted.
The product illustrations are non-binding.

Modularity taken to the limit

3 drives – compatible and interchangeable

The new TKX product family revolutionizes the world of robot automation: Three drive technologies with endless application possibilities. In typical industrial applications as well as for use with light-weight robots and stationary applications, the new tool changers are the best choice. From now on, you can use a single system to equip every robot in your production – interchangeable and fully flexible. The universal tool side can be coupled with each of the three robot sides (pneumatic, electric, manual).

- **Manual, electric and pneumatic robot side**
- **Easy teaching due to long guide pins**
- **Highest moment load capacity in its class enables maximum speeds**
- **Easily exchangeable pneumatic seals for compressed air and vacuum**

IPR – Intelligent Peripherals for Robots GmbH

Jakob-Dieffenbacher-Str. 4/2
75031 Eppingen
Germany

T +49 7262 9239-100 info@iprworldwide.com
F +49 7262 9239-400 en.iprworldwide.com

INTELLIGENT PERIPHERALS FOR ROBOTS

TKP | PNEUMATIC

Proven functional principle – successful for 30 years and further improved with optimized kinematics for maximum locking force.

TKE | ELECTRIC

Changing with 24 V – no pneumatics necessary, therefore especially suitable for light-weight robots, cobots and environments without compressed air.

TKM | MANUAL

Change in the blink of an eye – no power supply necessary, therefore especially suitable for applications with low replacement cycles.

Technical data

	TKP-030	TKE-030	TKM-030	TKT-030
Item no.	150301250	150301476	150301378	150301246
Attachment	robot side	robot side	robot side	tool side
Type of actuation	pneumatic	electric	manual	-
Recommended payload	30 kg			
Max. tensile/compressive force	6.000 N			
Max. moment Mx, My	300 Nm			
Max. moment Mz	815 Nm			
Repeatability	0.02 mm			
Number of mounting surfaces	5	5	4	5
Number of pneumatic/ vacuum feedthroughs	6	6	4	6
Connection type internal bushings	M5			
Weight	0.58 kg	-	0.66 kg	0.41 kg
Locking/unlocking time	0.4 s	-	application-dependent	-
Energy required for locking/unlocking	4 to 8 bar	-	application-dependent	-
Self-hold	Stainless steel pressure spring	-	Kinematics	-
Optional sensors	Status query (locked/ unlocked/ presence mold side by means of attachment module)			-
Connection flange	ISO 9409-1-50-4-M6			
Outer diameter (base body)	90 mm			
Height (base body)	31 mm			
Protection class	IP 54			
Max. axis deviation in X/Y direction	+/- 1.6 mm			
Max. offset while locking	0.8 mm			
Coupling way	25.5 mm			
Air consumption per cycle	0.087 l	-	-	-
Ambient temperature	+5 to +80 °C	+5 to +55 °C	+5 to +80 °C	+5 to +80 °C

All data apply at 6 bar nominal operating pressure.

Sensor kits can be ordered separately as an option.

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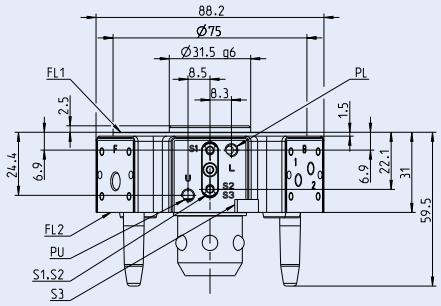
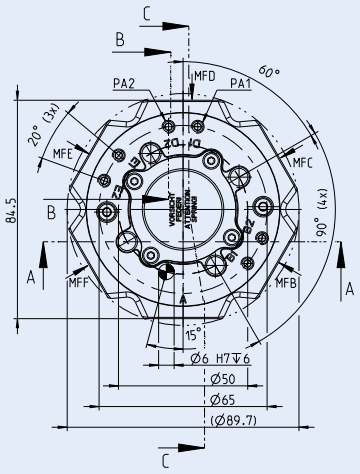
Technical drawings

TKP | PNEUMATIC

TKP-030 | Robot side pneumatic

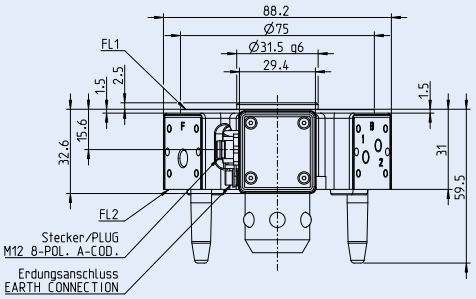


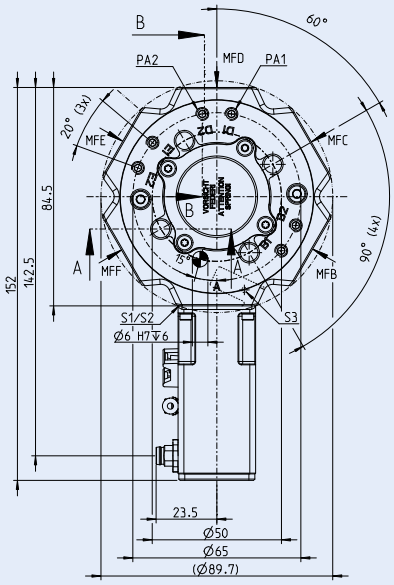


TKE | ELECTRIC

TKE-030 | Robot side electric

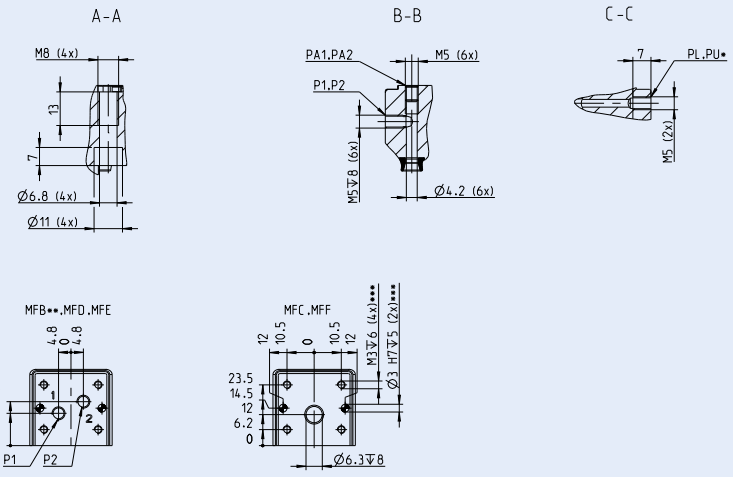
COMING SOON





Valid for all variants:

FL1	MOUNTING SURFACE
FL2	DOCKING SURFACE
MFB.MFC-MFF	MOUNTING SURFACE B-F F. OPT. MODULE
P1.P2.P3	AIR CONNECTION 1/2/3 ON MFB••.MFC-MFF
PA1.PA2.PA3	AIR CONNECTION 1/2/3 ALTERNATIVE F. MFB••.MFC-MFF
PL	AIR CONNECTION LOCK
PU	AIR CONNECTION UNLOCK
•	NOT FOR TKE.TKM
••	NOT FOR TKM
•••	FOR ALL MOUNTING SURFACES EXCEPT A
	OPTION
S1	SENSOR LOCKING (UNLOCKED)•• / TKE ALLWAYS INSTALLED
S2	SENSOR LOCKING (LOCKED) / TKE ALWAYS INSTALLED
S3	SENSOR TOOL SIDE PRESENT, ON FL2



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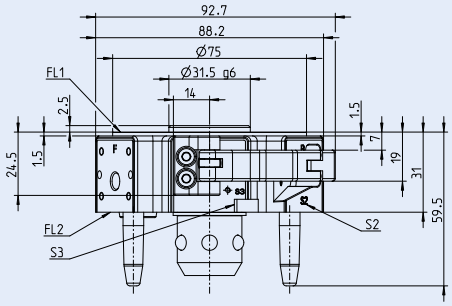
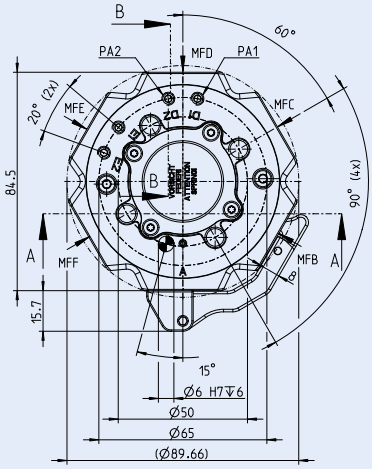
INTELLIGENT PERIPHERALS FOR ROBOTS

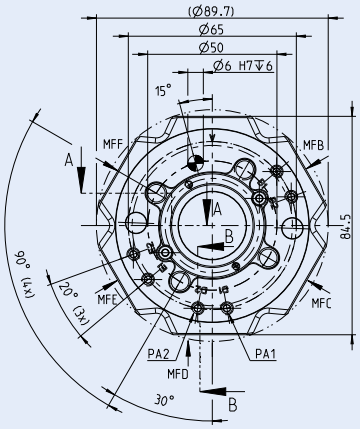
TKM | MANUAL

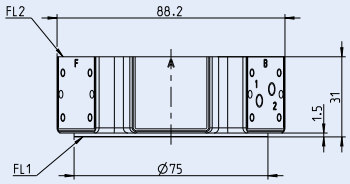
TKM-030 | Robot side manual





TKT-030 | Tool side





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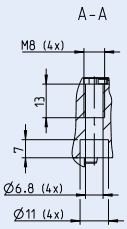

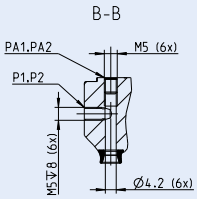

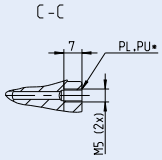

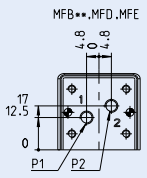

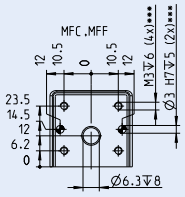

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