

TOOL CHANGERS SERIES HWR2000

1

► PRODUCT ADVANTAGES



► Change in seconds

Reduce your start up costs and minimise downtimes by changing your tool in seconds

► Integrated air transfer system

For supplying pneumatic actuators. Additional media can be transmitted using optional energy elements.

► Includes loss protection

Undesired falling of work pieces is eliminated - this means the highest safety for man and machine

► THE BEST PRODUCT FOR YOUR APPLICATION



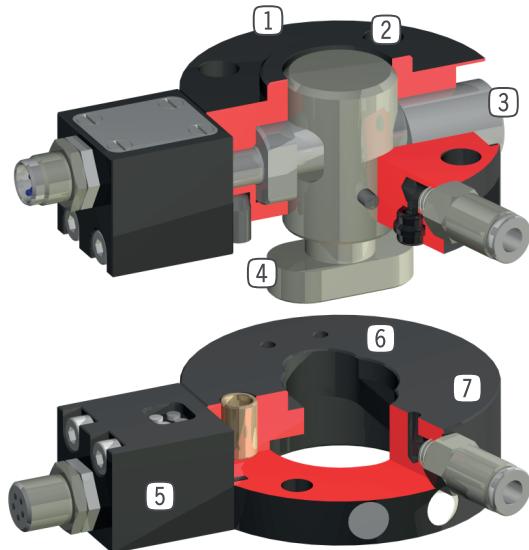
► Our products welcome the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you endless possibilities.

Find the best product for your specific use:

www.zimmer-group.de

► BENEFITS IN DETAIL



- ① **Fix part**
 - for robot side assembly
- ② **Robot flange**
 - partial mounting circle in accordance with EN ISO 9409-1
- ③ **Eccentric locking bolt**
 - with spring supported snap in function
- ④ **Locking bolt**
 - adapted to the clamping sleeve
- ⑤ **Pre-assembled standard energy element**
- ⑥ **Integrated air feed-through**
 - air / vacuum transfer from fix to loose part, hoseless control possible
- ⑦ **Loose part**
 - for tool side assembly

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



TOOL CHANGERS

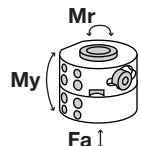
INSTALLATION SIZE HWR2050

► PRODUCT SPECIFICATIONS



► Forces and moments

Shows static forces and moments which may impact on the tool changer when locked.



Mr [Nm]	80
My [Nm]	70
Fa [N]	1600

► RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

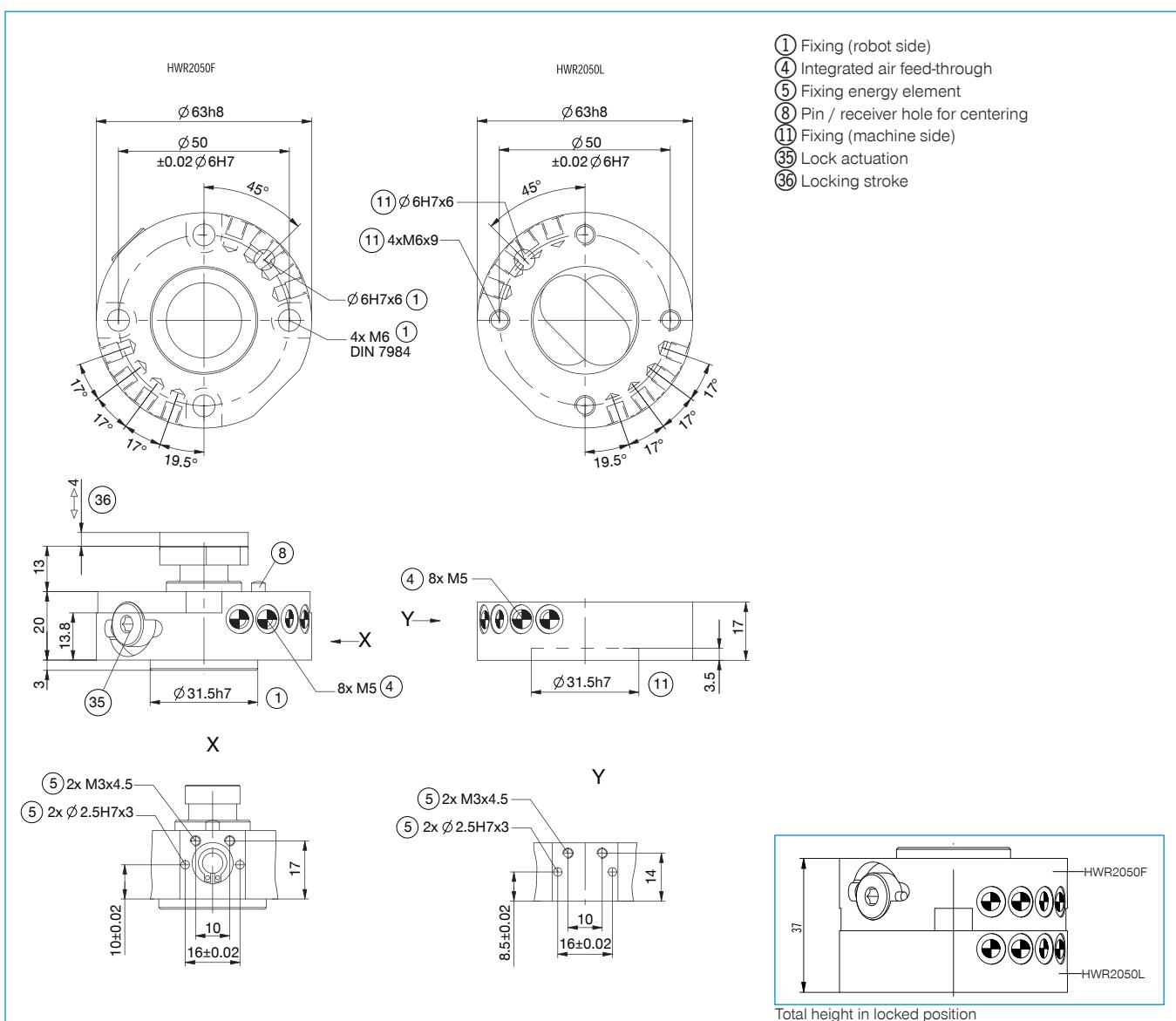
GVM5



Energy Elements see page 18

► Technical Data

Order no.	HWR2050F		HWR2050L
Connecting flange according EN ISO 9409-1	TK 50	TK 50	
Recommended handling weight [kg]	20	20	
Pneumatic energy transfer [Quantity]	8	8	
Electrical energy transfer	optional	optional	
Self locking mechanism when locking	mechanical	mechanical	
Locking stroke [mm]	4	-	
Repetition accuracy in Z [mm]	0.01	0.01	
Repetition accuracy in X, Y [mm]	0.02	0.02	
Operating temperature min. [°C]	5	5	
Operating temperature max. [°C]	+80	+80	
Moment of inertia [kg/cm ²]	0.86	0.67	
Weight [kg]	0.23	0.115	

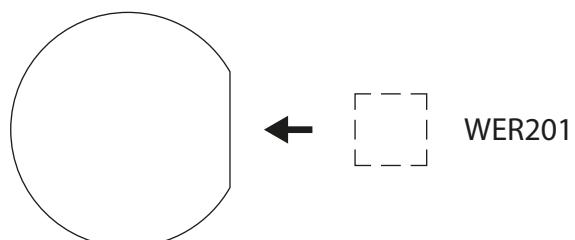


ENERGY ELEMENTS FOR TOOL CHANGER SIZES HWR2031 / HWR2040 / HWR2050

► PRODUCT SPECIFICATIONS



HWR2031 / 2040 / 2050



► ELECTRICAL

► Technical Data		
Order no.	WER201FF04	WER201LF04
compatible with		
Connection type	Fix part	Loose part
Round Connector [Straight] *	Spring contact	Spring contact
Round Connector [Angle] *	KAG500B4	KAG500S4
Fixing thread	KAW500B4	KAW500S4
No. of contacts	M8	M8
Nominal current [A]	4	4
Supply voltage [V AC]	3	3
Supply voltage [V DC]* *	60	60
Weight [kg]	75	75
Connection type	0.03	0.03
	Male	Socket

* als Zubehör erhältlich see page 63

** Specifications for on-site grounding, 60V without grounding

PLUG-IN CONNECTOR FOR ENERGY ELEMENTS

SUITABLE FOR WER201 / WER02 / WER03 / WER3000

► PLUG-IN CONNECTOR FOR ENERGY ELEMENTS WER201 / WER02 / WER03

Order no.	► Technical Data							
	KAG500B4	KAW500B4	B8-G-4	B8-W-4	KAG500S4	KAW500S4	S8-G-4	S8-W-4
Fixing thread	M8	M8	M8	M8	M8	M8	M8	M8
No. of contacts	4	4	4	4	4	4	4	4
Cable length [m]	5	5	-	-	5	5	-	-
Cable-Ø [mm]	4.3	4.3	-	-	4.3	4.3	-	-
Cable sheath material	PUR	PUR	-	-	PUR	PUR	-	-
Bend radius	10xØ	10xØ	-	-	10xØ	10xØ	-	-
Protection to IEC 60529	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Connection type	Socket	Socket	Socket	Socket	Male	Male	Plug	Plug
Version [Type]	Straight	Angle	Straight	Angle	Straight	Angle	Straight	Angle

► ROUND PLUG FOR WER3000

Order no.	► Technical Data			
	RSTVLM23G06B-B	RSTVLM23W06B-B	RSTVLM23G06S-B	RSTVLM23W06S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	6	6	6	6
Protection to IEC 60529	IP67	IP67	IP67	IP67
Connection type	Socket	Socket	Male	Male
				

Order no.	► Technical Data			
	RSTVLM23G08B-B	RSTVLM23W08B-B	RSTVLM23G08S-B	RSTVLM23W08S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	8	8	8	8
Protection to IEC 60529	IP67	IP67	IP67	IP67
Connection type	Socket	Socket	Male	Male
				

Order no.	► Technical Data			
	RSTVSM23G12B-B	RSTVSM23W12B-B	RSTVSM23G12S-B	RSTVSM23W12S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	12	12	12	12
Protection to IEC 60529	IP67	IP67	IP67	IP67
Connection type	Socket	Socket	Male	Male
				

Order no.	► Technical Data			
	RSTVSM23G19B-B	RSTVSM23W19B-B	RSTVSM23G19S-B	RSTVSM23W19S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	19	19	19	19
Protection to IEC 60529	IP67	IP67	IP67	IP67
Connection type	Socket	Socket	Male	Male
				