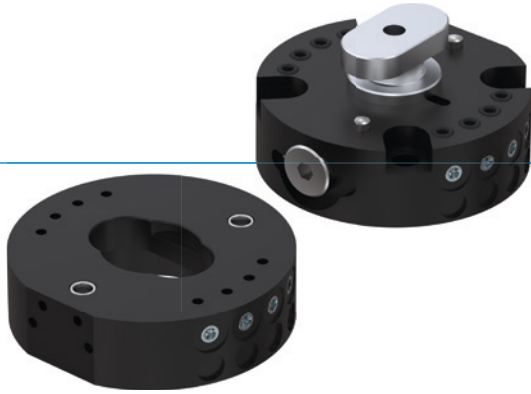


TOOL CHANGERS

SERIES HWR2000

▶ 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



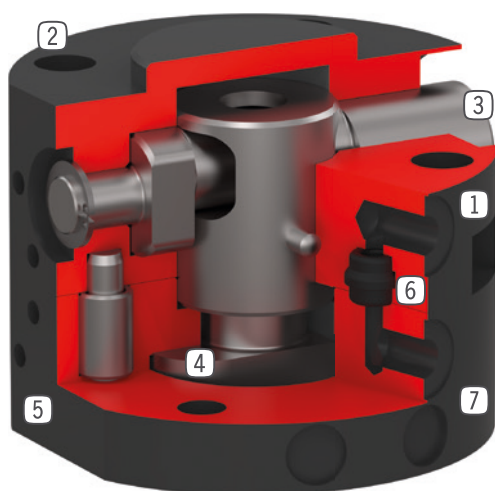
▶ **Our products welcome the challenge!**

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.com

► 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 **Mounting for energy element**
- ⑥ **Integrated air feed-through**
- Air / vacuum transfer
- Hoseless control possible
- ⑦ **Loose part**
- For tool side assembly

► TECHNICAL DATA

Installation size	Connecting flange according EN ISO 9409-1	Pneumatic energy transfer	Electrical energy transfer
		[Quantity]	
HWR2031	TK 31.5	4	optional
HWR2040	TK 40	4	optional
HWR2050	TK 50	8	optional

► FURTHER INFORMATION IS AVAILABLE ONLINE



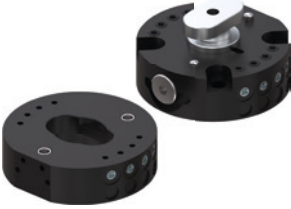
All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

TOOL CHANGERS

INSTALLATION SIZE HWR2050

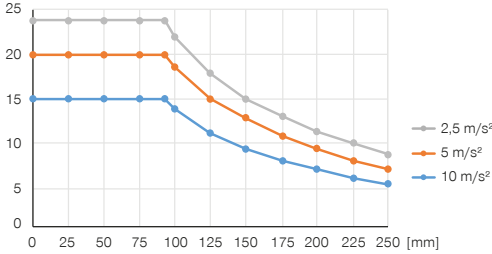
▶

PRODUCT SPECIFICATIONS



▶ Variable installation position

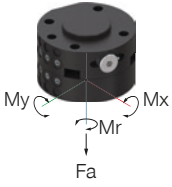
Shows the maximum handling weight depending on acceleration and lever arm. Does not replace the technical design.



Acceleration [m/s²]	0 mm	25 mm	50 mm	75 mm	100 mm	125 mm	150 mm	175 mm	200 mm	225 mm	250 mm
2.5	24	24	24	24	23	19	16	14	12	10	8
5	20	20	20	20	19	15	13	11	9	7	6
10	15	15	15	15	14	11	9	7	6	5	4

▶ Forces and moments

Shows the maximum forces and moments which may impact on the tool changer.



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

▶

RECOMMENDED ACCESSORIES



ENERGY SUPPLY



GVM5
 Straight Fittings - Quick Connect Style

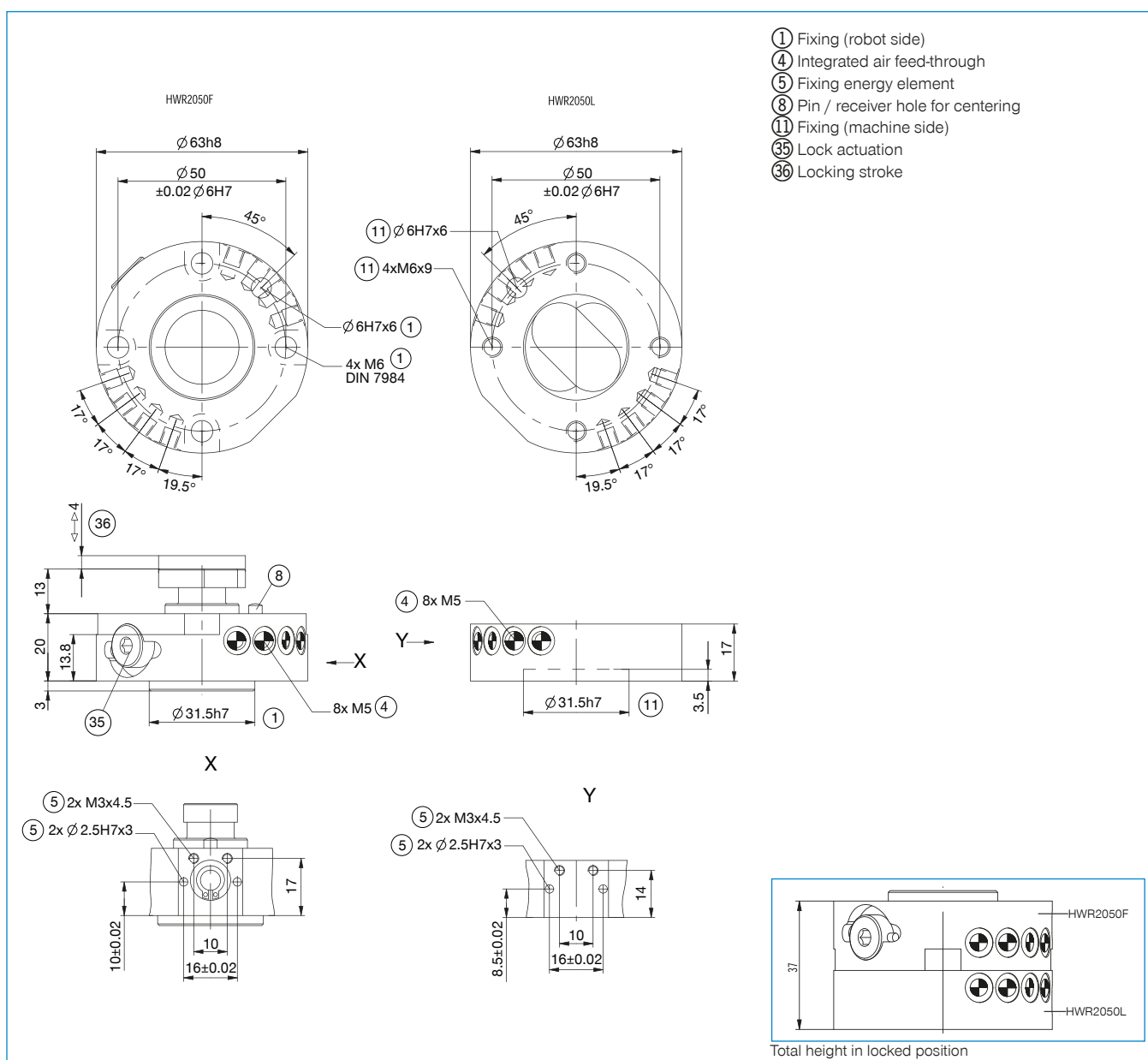


CONNECTIONS / OTHER



Energy elements and accessories for tool changers

Order no.	► Technical data	
	HWR2050F	HWR2050L
Connecting flange according EN ISO 9409-1	TK 50	TK 50
Pneumatic energy transfer [Quantity]	8	8
Flow per connector [l/min]	150	150
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
Nominal operating pressure [bar]	6	6
Operating temperature [°C]	5 ... +80	5 ... +80
Moment of inertia [kgcm ²]	0.86	0.67
Certifications	LABS / REACH / RoHS	LABS / REACH / RoHS
Weight [kg]	0.23	0.11



ENERGY ELEMENTS FOR TOOL CHANGER

SIZES HWR2031 / HWR2040 / HWR2050

► CONNECTION DIAGRAM

