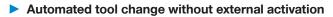
TOOL CHANGERS SERIES FWR

PRODUCT ADVANTAGES



In interaction with the storage station, the changer is actuated mechanically during retraction. As a result, no additional power supply is required for the change operation.

Manual tool change

The sizes FWR40 and FWR50 can be opened with just one hand. If this is not desired, you can lock the actuation manually.

Optional media transmission

Adapt the tool changer to your application. With the energy elements of the WER1000 and WER2000 series, you can transmit a variety of media with standard connections!

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

Connecting flange

 partial mounting circle in accordance with EN ISO 9409-1

(3) Loose part presence sensing

- via inductive proximity switch
- 4 Mounting for energy element
 - Direct connection, without adapter plates

5 Loose part

- for tool side assembly
- 6 Locking
 - Manual actuation
 - Automatic actuation via a storage station

7 Lock for manual actuation (optional)

- Secure against inadvertent loosening

8 Integrated air feed-through

Air / vaccum transferhoseless control possible

TECHNICAL DATA

	Connecting flange according EN ISO 9409-1	Handling weight max.*	Tool weight max.**	Pneumatic energy transfer
Installation size		[kg]	[kg]	[Quantity]
FWR40	TK 40	13	5	4
FWR50	TK 50	16	7	4
FWR63	TK 63	20	10	4
FWR80	TK 80	29	12	4

*The **handling weight** is the maximum weight that may be on the tool changer.

Handling weight = end effector + workpiece

The **tool weight is the maximum weight of the end effector that may be in the storage station (without workpiece).

Tool weight = end effector + loose part

FURTHER INFORMATION IS AVAILABLE ONLINE

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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 FWR50

PRODUCT SPECIFICATIONS

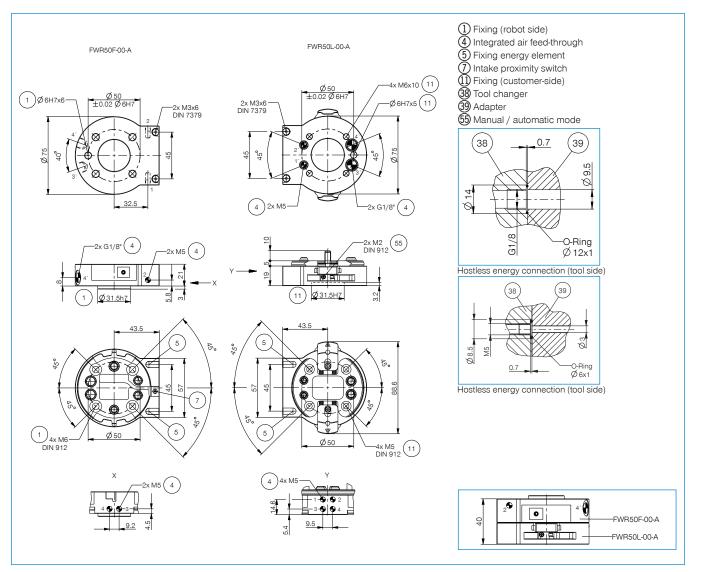
		Variable installation p	osition	Forces and m	noments
		arm. Does not replace the tect [kg]	y weight depending on accelera nnical design.	Mr 10 m/s ² 5 m/s ² 2,5 m/s ² Mr [Nm]	Fa 60 60 60
				Fa [N]	1200
	ED IN DELIVERY				
	2 [piece] Mounting screw C737903062		0	2 [piece] O-Ring COR0060100	
0	2 [piece] O-Ring COR0100100				
RECOM	MENDED ACCES	SORIES			
	RGY SUPPLY			NECTIONS / OTHER	1
	GVM5 Straight Fittings - Quick Co	nnect Style		Energy elements and accesso changer	pries for tool
	WV1-8X8 Angled Fittings - Quick Cor	nect Style	~	AFWR1-50-A Storage station	
SEN	SORS				
4	NJR04-E2SK Inductive Proximity Switch (tor M8	Cable 0,3 m - Connec-			
RECOM	MENDED ACCES	SORY STORAGE S	TATION		
	NJ5-E2SK-01	Cable 0.3 m Connector M8			

Inductive Proximity Switch Cable 0,3 m - Connector M8

	Technical data		
Order no.	FWR50F-00-A	FWR50L-00-A	
Connecting flange according EN ISO 9409-1	TK 50	TK 50	
Handling weight max. [kg]	16	16	
Tool weight max. [kg]	7	7	
Pneumatic energy transfer [Quantity]	4	4	
Flow per connector M5 [l/min]	170	170	
Flow per connector G1/8" [l/min]	650	650	
Electrical energy transfer	optional	optional	
Locking stroke [mm]	0.6		
Repetition accuracy in Z [mm]	0.02		
Repetition accuracy in X, Y [mm]	0.03		
Joining force [N]	0	0	
Release force [N]	0	0	
Offset at coupling max. in X,Y [mm]	2.0	2.0	
Offset at coupling max. in X,Y [°]	1.5	1.5	
Tightening force [N]*	70		
Tightening torque [Nm]*	4		
Operating pressure for energy transmission [bar]	-0.6 6	-0.6 6	
Operating temperature [°C]	5 +80	5 +80	
Moment of inertia [kgcm ²]	2.41	2.67	
Protection to IEC 60529	IP44**	IP44**	
Weight [kg]	0.26	0.33	

*Note the mating force of the energy elements!

** only in coupled state



ENERGY ELEMENTS FOR TOOL CHANGER SIZES FWR40 / FWR50

CONNECTION DIAGRAM

