TOOL CHANGERS SERIES WWR

PRODUCT ADVANTAGES



Secure hold during pressure drop

The combination of spring loaded and a high gear ratio guarantees them a safe machine

Extremely flat design

This structure reduces the moment load for your robot to a minimum and makes it possible to use smaller and more affordable sizes

Inexhaustible variety of media transfer systems

No matter which medium you would like to transmit, we will draw from our wealth of experience in implementing projects and find a solution to suit your needs!

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 Mounting for energy element
- 2 Drive
 - double-acting pneumatic cylinder
- 3 Integrated spring
 - energy storage in case of drop in pressure
- (4) Robot flange
 - partial mounting circle in accordance with EN ISO 9409-1
- 5 Piston position sensing
 - via magnetic field sensor
- 6 Locking bolt
 - adapted to the clamping sleeve
- 7 Locking sleeve
 - high moment capacity
- 8 Integrated air feed-through
 - Air / vaccum transfer
 - Hoseless control possible
- 9 Loose part
 - For tool side assembly
- 1 0 Fix part
 - For robot side assembly

► TECHNICAL DATA

	Connecting flange according EN ISO 9409-1	Pneumatic energy transfer	Electrical energy transfer
Installation size		[Quantity]	
WWR40	TK 40	4	optional
WWR50	TK 50	4	optional
WWR63	TK 63	6	optional
WWR80	TK 80	6	optional
WWR100	TK 100	6	optional
WWR125	TK 125	10	optional
WWR160	TK 160	10	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 WWR160

▶ PRODUCT SPECIFICATIONS



Variable installation position

200

150

100 50

Shows the maximum handling weight depending on acceleration and lever arm. Does not replace the technical design. [kg] 500 450 400 300 250 -- 2,5 m/s²

75 150 225 300 375 450 525 600 675 750 [mm]

Forces and moments

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



Mr [Nm]	2000
My [Nm]	2200
Fa [N]	30000

INCLUDED IN DELIVERY



10 [piece] COR0070150

► RECOMMENDED ACCESSORIES



ENERGY SUPPLY



Straight Fittings - Quick Connect Style



SENSORS

--- 5 m/s²

- 10 m/s²



NJR04-E2SK

Inductive Proximity Switch Cable 0,3 m - Connector M8



WV1-8X8 Angled Fittings - Quick Connect Style



CONNECTIONS / OTHER



SENSORS



ZUB088922

Piston position sensing



Energy elements and accessories for tool changer



ALSR13160 Storage station

RECOMMENDED ACCESSORY STORAGE STATION



NJ8-E2

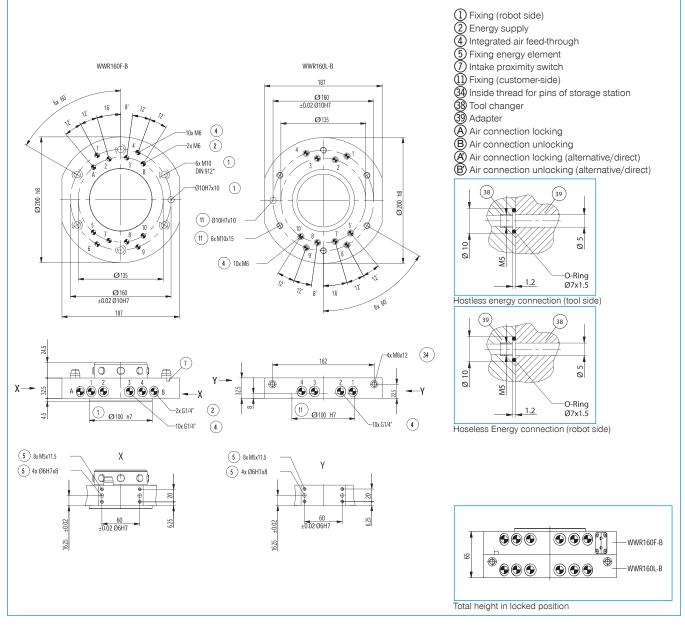
Inductive proximity switch - Cable 5 m



NJ8-E2S

Inductive proximity switch - Connector M8

	► Technical data		
Order no.	WWR160F-B	WWR160L-B	
Connecting flange according EN ISO 9409-1	TK 160	TK 160	
Pneumatic energy transfer [Quantity]	10	10	
Flow per connector [I/min]	500	500	
Electrical energy transfer	optional	optional	
Hydraulic energy transfer	optional	optional	
Self locking mechanism when locking	mechanical	mechanical	
Locking stroke [mm]	1.3		
Repetition accuracy in Z [mm]	0.01	0.01	
Repetition accuracy in X, Y [mm]	0.02	0.02	
Joining force [N]	150		
Release force [N]	80		
Offset at coupling max. in X,Y [mm]	2.85	2.85	
Operating pressure [bar]	4 10	4 10	
Nominal operating pressure [bar]	6	6	
Operating temperature [°C]	5 +80	5 +80	
Air volume per cycle [cm³]	97		
Moment of inertia [kgcm²]	134	132	
Weight [kg]	3.8	2.7	



ENERGY ELEMENTS FOR TOOL CHANGER SIZES WWR125 / WWR160

CONNECTION DIAGRAM

