

TOOL CHANGERS SERIES WWR

▶ PRODUCT ADVANTAGES



▶ **Secure hold during pressure drop**

A redundant system, created by the combination of spring accumulator and a self locking mechanism, guarantees 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



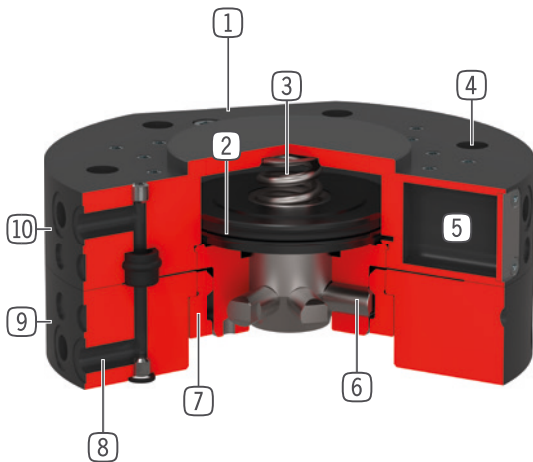
▶ **Our products welcome the challenge!**

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 / vacuum transfer
 - Hoseless control possible
- ⑨ **Loose part**
 - for tool side assembly
- ⑩ **Fix part**
 - for robot 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

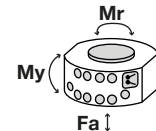
INSTALLATION SIZE WWR160

▶ PRODUCT SPECIFICATIONS



▶ 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



O-Ring

COR0070150

▶ RECOMMENDED ACCESSORIES



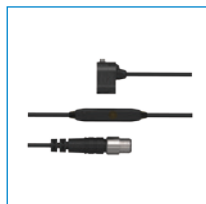
Straight Fittings - Quick Connect Style

GV1-4X8



Angled Fittings - Quick Connect Style

WV1-8X8



Piston position sensing

ZUB088922



Inductive Proximity Switch
Cable 0,3 m - Connector
M8

NJR04-E2SK



Energy Elements see
page 52

▶ RECOMMENDED ACCESSORY STORAGE STATION



Base module for storage
station

ALSR13160



Inductive proximity switch
- Cable 5 m

NJ8-E2



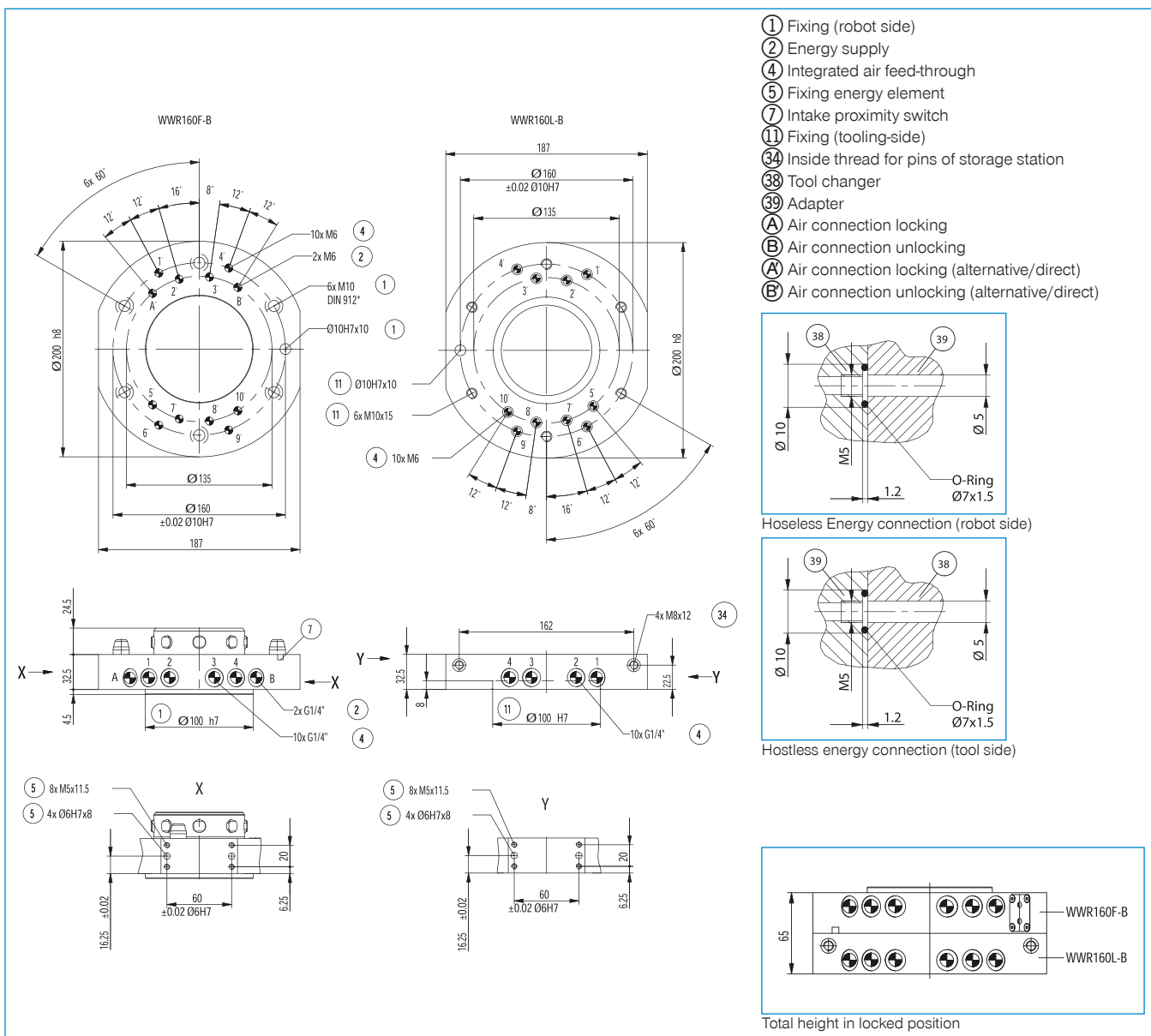
Inductive proximity switch
- Connector M8

NJ8-E2S

► Technical Data*

Order no.	WWR160F-B	WWR160L-B
Connecting flange according EN ISO 9409-1	TK 160	TK 160
Recommended handling weight [kg]	300	-
Pneumatic energy transfer [Quantity]	10	10
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	-
Repetition accuracy in X, Y [mm]	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
Operating temperature [°C]	5 ... +80	5 ... +80
Air volume per cycle [cm ³]	97	-
Moment of inertia [kg/cm ²]	134	132
Weight [kg]	3.7	2.6

*All data measured at 6 bar



ENERGY ELEMENTS FOR TOOL CHANGER

SIZES WWR125 / WWR160

▶ CONNECTION DIAGRAM

