

# TOOL CHANGERS

## SERIES WWR1000

### ▶ PRODUCT ADVANTAGES



#### ▶ **Secure hold during pressure drop**

The combination of spring accumulator and mechanical force transmission ensures that the tool is held securely - even in the event of a sudden loss of pressure in the system.

#### ▶ **High loads for major challenges**

With load capacities of over 1,000 kg, the tool changer is ideal for use on heavy-duty robots and enables stable, automated changing processes even under the most demanding conditions.

#### ▶ **Inexhaustible variety of media transfer systems**

Whether pneumatics, vacuum, hydraulics, coolant, electrical signals or load - our modular system allows the integration of a wide variety of media carriers - flexibly adaptable to the most diverse process requirements.

### ▶ THE BEST PRODUCT FOR YOUR APPLICATION



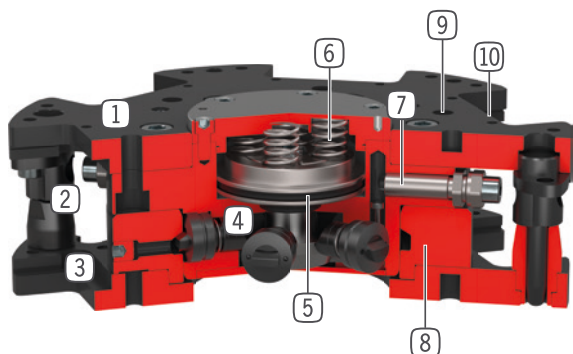
#### ▶ **Our products welcome the challenge!**

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](http://www.zimmer-group.com)

## ► BENEFITS IN DETAIL



- 1 Fix part**  
- For robot side assembly
- 2 Centering pins**  
- twist protection and positioning for loose part
- 3 Loose part**  
- For tool side assembly
- 4 Locking bolt**  
- adapted to the clamping sleeve
- 5 Drive**  
- double-acting pneumatic cylinder
- 6 Integrated spring**  
- energy storage in case of drop in pressure
- 7 Piston position sensing**  
- Via inductive proximity switch
- 8 Locking sleeve**
- 9 Robot flange**  
- partial mounting circle in accordance with EN ISO 9409-1
- 1 0 Mounting for energy element**

## ► TECHNICAL DATA

	Connecting flange according EN ISO 9409-1	Electrical energy transfer	Fluid energy transfer
<b>Installation size</b>			
<b>WWR1160</b>	TK 160	optional	optional
<b>WWR1200</b>	TK 200	optional	optional

## ► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: [www.zimmer-group.com](http://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

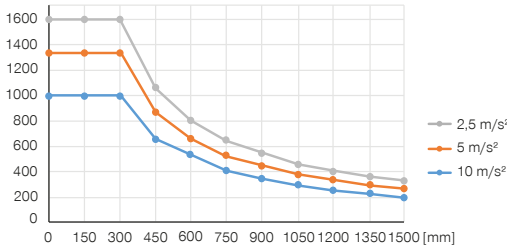
## INSTALLATION SIZE WWR1200

### PRODUCT SPECIFICATIONS



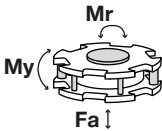
#### Variable installation position

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



#### Forces and moments

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



Mr [Nm]	12000
My [Nm]	12000
Fa [N]	75000

### INCLUDED IN DELIVERY



2 [piece]  
Mounting bracket for proximity switch  
**ZUB0014**

### RECOMMENDED ACCESSORIES



#### ENERGY SUPPLY



**GV1-8X8**  
Straight Fittings - Quick Connect Style



#### SENSORS



**NJ8-E2S-17**  
Inductive proximity switch - Connector M8



#### CONNECTIONS / OTHER



Energy elements and accessories for tool  
changer



**KAG500**  
Plug-in connector Straight Cable 5m - Socket M8  
(female)

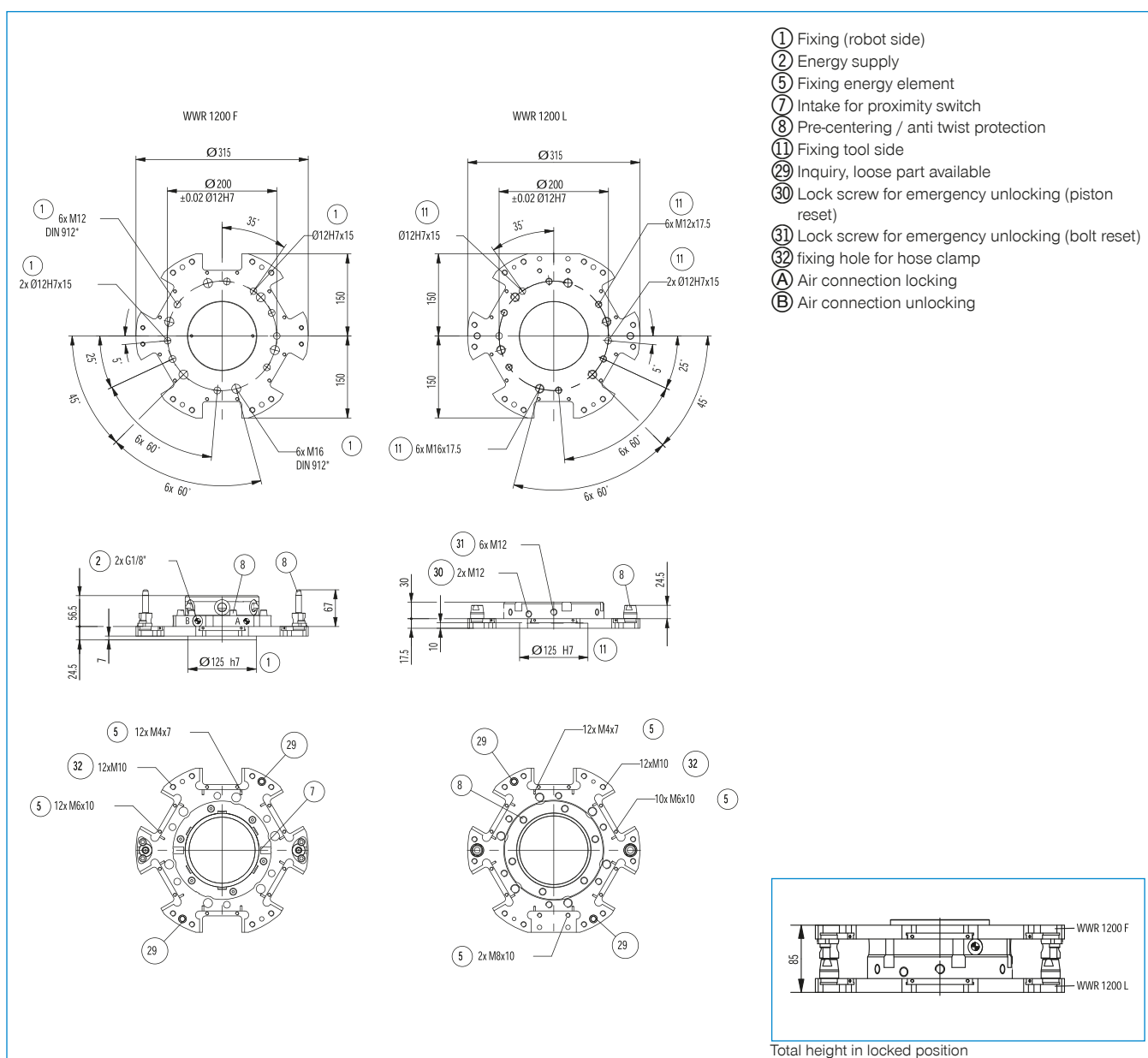


**ZUB0022**  
Programming pins



**ALSR1-1200**  
Storage station

Order no.	► Technical data	
	WWR1200F	WWR1200L
Connecting flange according EN ISO 9409-1	TK 200	TK 200
Electrical energy transfer	optional	optional
Fluid energy transfer	optional	optional
Self locking mechanism when locking	mechanical	mechanical
Locking stroke [mm]	1	
Repetition accuracy +/- [mm]	0.02	0.02
Offset at coupling max. in X,Y [mm]	3.0	3.0
Operating pressure [bar]	6 ... 8	6 ... 8
Nominal operating pressure [bar]	6	6
Operating temperature [°C]	5 ... +80	5 ... +80
Air volume per cycle [cm³]	83	
Weight [kg]	15	8.6



# ENERGY ELEMENTS FOR TOOL CHANGER

## SIZES WWR1160 / WWR1200

### ► CONNECTION DIAGRAM

