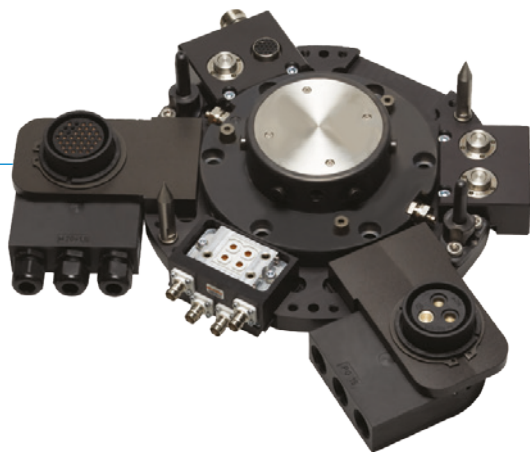


TOOL CHANGERS

SERIES WWR1000

► 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

► **Handling weight from up to one tonne**

Automated changes can be carried out by this changer with process reliability even with the largest robots

► **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



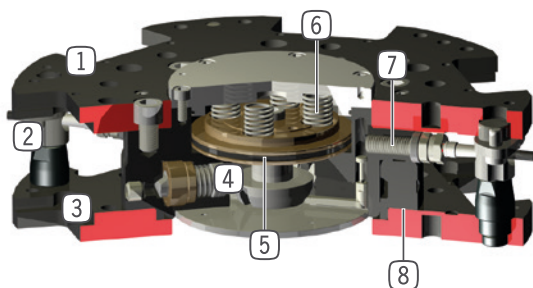
► **Our products welcome the challenge!**

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 **Fix part**
- for robot side assembly
- ② **Centering bolts**
- 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**

► 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

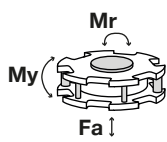
INSTALLATION SIZE WWR1200

PRODUCT SPECIFICATIONS



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



Mounting bracket for proximity switch
ZUB0014

RECOMMENDED ACCESSORIES



Programming pins
ZUB0022



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



Straight Fittings - Quick Connect Style
GV1-8X8



Inductive proximity switch - Connector M8
NJ8-E2S-17



Storage station
ALSR1-1200

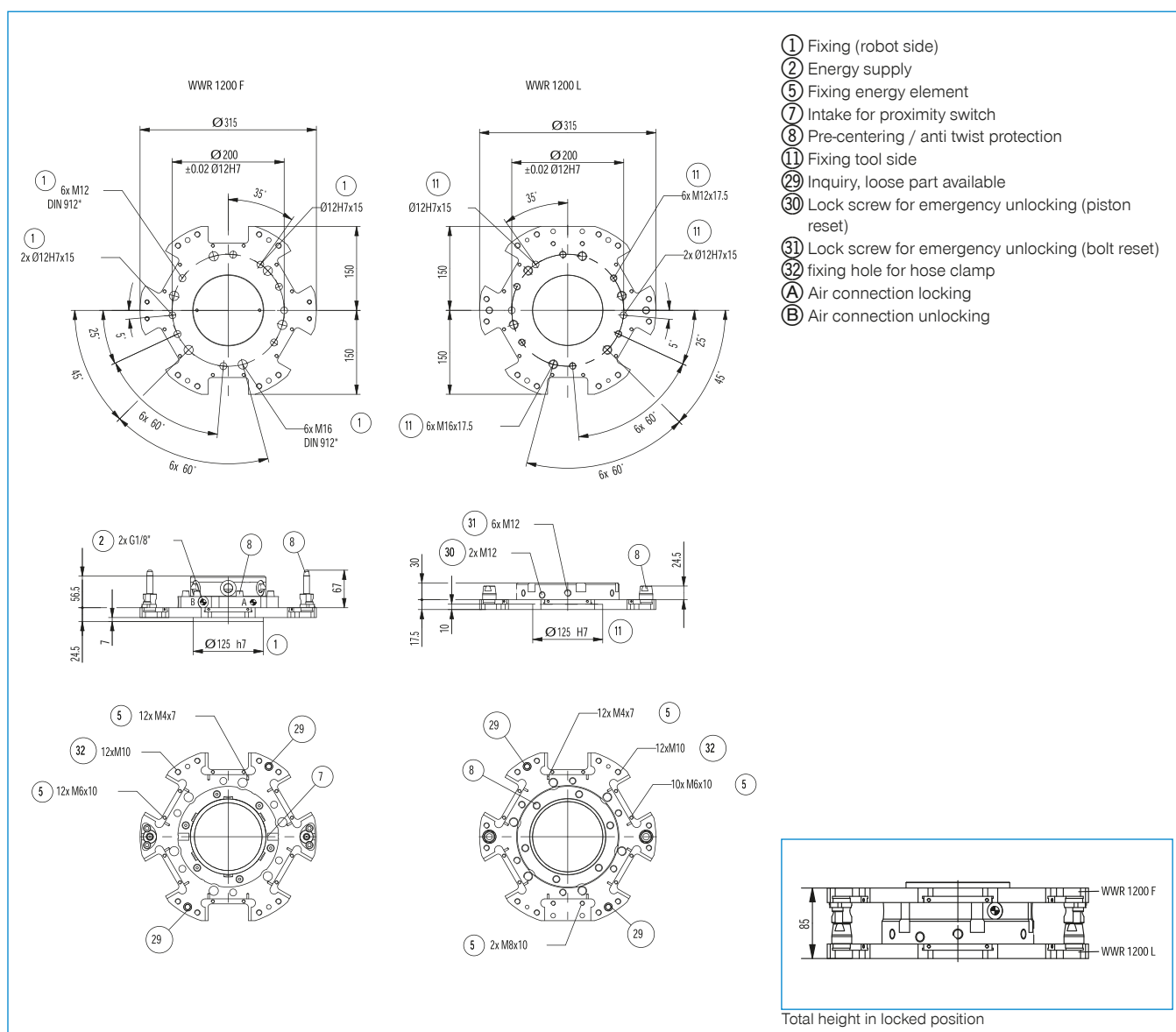


Energy Elements see page 60

► Technical Data*

Order no.	WWR1200F	WWR1200L
Locking stroke [mm]	1	-
Recommended handling weight [kg]	1000	-
Self locking mechanism when locking	mechanical	mechanical
Fluid energy transfer	optional	optional
Electrical energy transfer	optional	optional
Operating pressure min. [bar]	6	6
Operating pressure max. [bar]	8	8
Repetition accuracy +/- [mm]	0.02	0.02
Offset at coupling max. in X,Y [mm]	3	3
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	83	-
Weight [kg]	15	8.5

*All data measured at 6 bar



ENERGY ELEMENTS FOR TOOL CHANGER

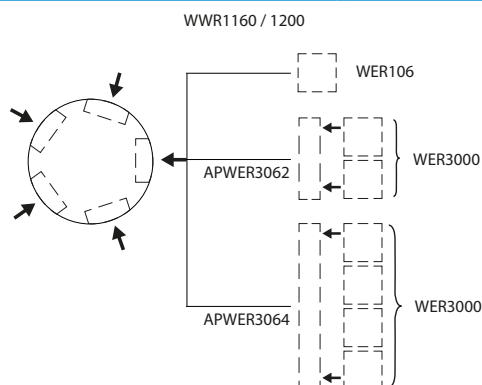
SIZES WWR1160 / WWR1200

PRODUCT SPECIFICATIONS

WER106FH4DNW8



WER106LH4DNW8



FLUIDIC

Technical Data

Order no.	WER106FP06	WER106LP06	WER106FP15	WER106LP15	WER106FH1DNW8	WER106LH1DNW8
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Fixing thread	G1/8"	G1/8"	M5	M5	G1/2"	G1/2"
Number of fluid couplings	6	6	15	15	1	1
Nominal diameter	1/8"	1/8"	5	5	8	8
Flow per connector max. [l/min]	-	-	-	-	25	25
Operating pressure max. [bar]*	10	10	10	10	250	250
Operating pressure max. [bar]**	-	-	-	-	10	10
Weight [kg]	0.25	0.25	0.25	0.25	0.35	0.35

*At pressures of approximately 50 bar and higher, there must be external locking of the elements.

**Observe coupling force

Technical Data

Order no.	WER106FH2DNW5	WER106LH2DNW5	WER106FH2DNW8	WER106LH2DNW8	WER106FH4DNW8	WER106LH4DNW8
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Fixing thread	G1/4"	G1/4"	G1/2"	G1/2"	G1/2"	G1/2"
Number of fluid couplings	2	2	2	2	4	4
Nominal diameter	5	5	8	8	8	8
Flow per connector max. [l/min]	12	12	25	25	25	25
Operating pressure max. [bar]*	350	350	250	250	250	250
Operating pressure max. [bar]**	15	15	10	10	10	10
Weight [kg]	0.35	0.35	0.69	1.00	1.40	2.10

*At pressures of approximately 50 bar and higher, there must be external locking of the elements.

**Observe coupling force

Technical Data

Order no.	WER3000FPL02-03	WER3000LPL02-03	WER3000FPL01-04	WER3000LPL01-04
compatible with	Fix part	Loose part	Fix part	Loose part
Fixing thread	G1/4"	G1/4"	G3/8"	G3/8"
Number of fluid couplings	2	2	1	1
Operating pressure [bar]	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10
Weight [kg]	0.13	0.13	0.13	0.13

► ELECTRICAL

	► Technical Data	
Order no.	WER106FL0335	WER106LL0335
compatible with	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector
Round Connector [Straight]	-	-
Round Connector [Angle]	-	-
Fixing thread	-	-
No. of contacts	3	3
Nominal current [A]	150	150
Supply voltage [V AC]	630	630
Weight [kg]	0.95	0.90
Connection type	Customizable	Customizable

	► Technical Data					
Order no.	WER3000FLA06-00	WER3000LLA06-00	WER3000FLA08-00	WER3000LLA08-00	WER3000FSI12-00	WER3000LSI12-00
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector
Round Connector [Straight] *	RST-VLM23G06B-B	RST-VLM23G06S-B	RST-VLM23G08B-B	RST-VLM23G08S-B	RST-VSM23G12B-B	RST-VSM23G12S-B
Round Connector [Angle] *	RSTVLM-23W06B-B	RSTVLM-23W06S-B	RSTVLM-23W08B-B	RSTVLM-23W08S-B	RSTVSM-23W12B-B	RSTVSM-23W12S-B
Fixing thread	M23	M23	M23	M23	M23	M23
No. of contacts	5+PE	5+PE	(3+PE) / 4	(3+PE) / 4	12	12
Nominal current [A]	15	15	15/6	15/6	6	6
Supply voltage [V AC]	600	600	600/150	600/150	150	150
Weight [kg]	0.35	0.41	0.35	0.40	0.12	0.15
Connection type	Male	Socket	Male	Socket	Male	Socket

* als Zubehör erhältlich see page 63

	► Technical Data			
Order no.	WER3000FSI19-00	WER3000LSI19-00	WER3000FSI19-09	WER3000LSI19-09
compatible with	Fix part	Loose part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Spring contact	Spring contact
Round Connector [Straight] *	RSTVSM23G19B-B	RSTVSM23G19S-B	RSTVSM23G19B-B	RSTVSM23G19S-B
Round Connector [Angle] *	RSTVSM23W19B-B	RSTVSM23W19S-B	RSTVSM23W19B-B	RSTVSM23W19S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	19	19	19	19
Nominal current [A]	6	6	3	3
Supply voltage [V AC]	150	150	60	60
Weight [kg]	0.13	0.15	0.13	0.15
Connection type	Male	Socket	Male	Socket

* als Zubehör erhältlich see page 63

ENERGY ELEMENTS FOR TOOL CHANGER

SIZES WWR1160 / WWR1200

► ELECTRICAL + 3 CONNECTION OPTIONS FOR WWR SENSORS

Order no.	► Technical Data		
	WER3000FSI19-01	WER3000FSI19-02	WER3000LSI19-00
compatible with	Fix part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Plug-in Connector
Round Connector [Straight] *	RSTVSM23G19B-B	RSTVSM23G19B-B	RSTVSM23G19S-B
Round Connector [Angle] *	RSTVSM23W19B-B	RSTVSM23W19B-B	RSTVSM23W19S-B
Fixing thread	M23	M23	M23
No. of contacts	14+5 Sensoric	14+5 Sensoric	19
Nominal current [A]	6	6	6
Supply voltage [V AC]	150	150	150
Sensor linkage	Left	Right	-
Weight [kg]	0.16	0.16	0.15
Connection type	Male	Male	Socket

*als Zubehör erhältlich see page 63

► FIELDBUS

Order no.	► Technical Data					
	WER3000FPN01-00	WER3000LPN01-00	WER3000FPB01-00	WER3000LPB01-00	WER3000FIL01-00	WER3000LIL01-00
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Data transmission	Profinet/Industrial Ethernet	Profinet/Industrial Ethernet	Profibus	Profibus	IO-Link	IO-Link
Data rate	100	100	12	12	-	-
Fixing thread	M12	M12	M12	M12	M12	M12
Weight [kg]	0.11	0.11	0.13	0.12	0.11	0.11

► ADAPTER PLATES

Order no.	► Technical Data	
	APWER3062	APWER3064
compatible with	2xWER3000	4xWER3000
Weight [kg]	0.15	0.42

PLUG-IN CONNECTOR FOR ENERGY ELEMENTS

SUITABLE FOR WER201 / WER02 / WER03 / WER3000

► PLUG-IN CONNECTOR FOR ENERGY ELEMENTS WER201 / WER02 / WER03

	► Technical Data							
Order no.	KAG500B4	KAW500B4	B8-G-4	B8-W-4	KAG500S4	KAW500S4	S8-G-4	S8-W-4
Fixing thread	M8	M8	M8	M8	M8	M8	M8	M8
No. of contacts	4	4	4	4	4	4	4	4
Cable length [m]	5	5	-	-	5	5	-	-
Cable-Ø [mm]	4.3	4.3	-	-	4.3	4.3	-	-
Cable sheath material	PUR	PUR	-	-	PUR	PUR	-	-
Bend radius	10xØ	10xØ	-	-	10xØ	10xØ	-	-
Protection to IEC 60529	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Connection type	Female	Female	Female	Female	Connector	Connector	Connector	Connector
Version [Type]	Straight	Angle	Straight	Angle	Straight	Angle	Straight	Angle

► ROUND PLUG FOR WER3000

	► Technical Data			
Order no.	RSTVLM23G06B-B	RSTVLM23W06B-B	RSTVLM23G06S-B	RSTVLM23W06S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	6	6	6	6
Protection to IEC 60529	IP67	IP67	IP67	IP67
Connection type	Socket	Socket	Male	Male
				

	► Technical Data			
Order no.	RSTVLM23G08B-B	RSTVLM23W08B-B	RSTVLM23G08S-B	RSTVLM23W08S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	8	8	8	8
Protection to IEC 60529	IP67	IP67	IP67	IP67
Connection type	Socket	Socket	Male	Male
				

	► Technical Data			
Order no.	RSTVSM23G12B-B	RSTVSM23W12B-B	RSTVSM23G12S-B	RSTVSM23W12S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	12	12	12	12
Protection to IEC 60529	IP67	IP67	IP67	IP67
Connection type	Socket	Socket	Male	Male
				

	► Technical Data			
Order no.	RSTVSM23G19B-B	RSTVSM23W19B-B	RSTVSM23G19S-B	RSTVSM23W19S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	19	19	19	19
Protection to IEC 60529	IP67	IP67	IP67	IP67
Connection type	Socket	Socket	Male	Male
				