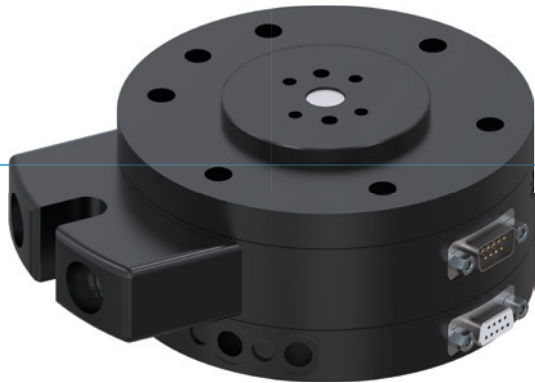


ROTARY DISTRIBUTORS

SERIES DVR

▶ PRODUCT ADVANTAGES



▶ **Compact media transfer system**

This D1 media exchanger makes cable breaks and undefined interference contours through the power supply line a thing of the past

▶ **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

▶ **Gold contact**

Allows flexibility for transmission because you can transfer everything from the smallest flows up to 250 volts and 6 amps with process reliability

▶ THE BEST PRODUCT FOR YOUR APPLICATION



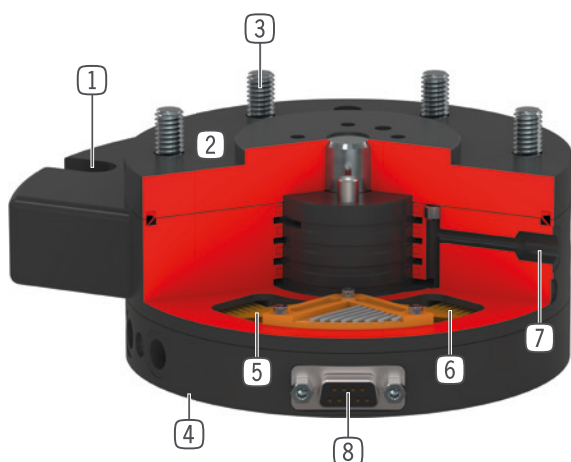
▶ **Our products welcome the challenge!**

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 Torque brace**
 - supports the rotor during rotation (movement)
- ② Robust, lightweight housing**
 - Hard-coated aluminum alloy
 - nitrated steel
- ③ Robot flange**
 - partial mounting circle in accordance with EN ISO 9409-1
- ④ Direct air connection**
 - to WWR series
- ⑤ Spring system**
 - from size DVR63 double fitting
- ⑥ Collector ring**
 - hard gold coated
 - transferable to finest currents
- ⑦ Up to 8 way integrated air feed-through**
 - for hoseless air transfer
 - hose package does not have to be pivoted
- ⑧ Up to 12 pole energy transfer**
 - for cable-free signal transfer
 - no cables are subjected to torsion

► TECHNICAL DATA

Installation size	Connecting flange according EN ISO 9409-1	Pneumatic energy transfer	Electrical energy transfer
		[Quantity]	
DVR40	TK 40	4	4-pole
DVR50	TK 50	4	4-pole
DVR63	TK 63	6	6-pole
DVR80	TK 80	6	6-pole
DVR100	TK 100	4 / 8	8-pole
DVR125	TK 125	4 / 8	12-pole
DVR160	TK 160	4 / 8	12-pole

► 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.

ROTARY DISTRIBUTORS

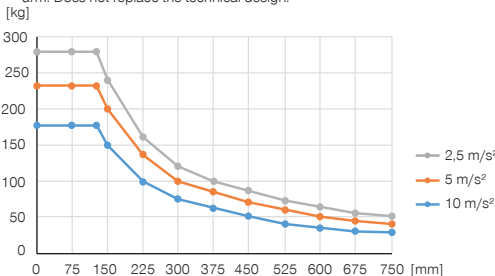
INSTALLATION SIZE DVR160

▶ PRODUCT SPECIFICATIONS



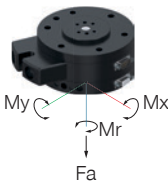
▶ Variable installation position

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



▶ Forces and moments

Shows static forces and moments which may impact on the rotary distributor.



Mr [Nm]	900
Mx [Nm]	900
My [Nm]	900
Fa [N]	7000

▶ INCLUDED IN DELIVERY



6 [piece]
Cylinder Screw
C7984100209



4 [piece]
O-Ring
COR0070150

▶ RECOMMENDED ACCESSORIES



ENERGY SUPPLY



GV1-8X8
Straight Fittings - Quick Connect Style



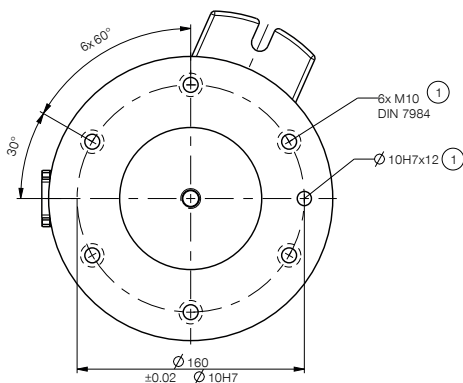
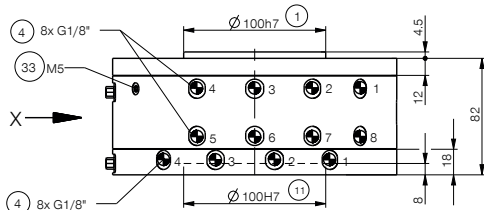
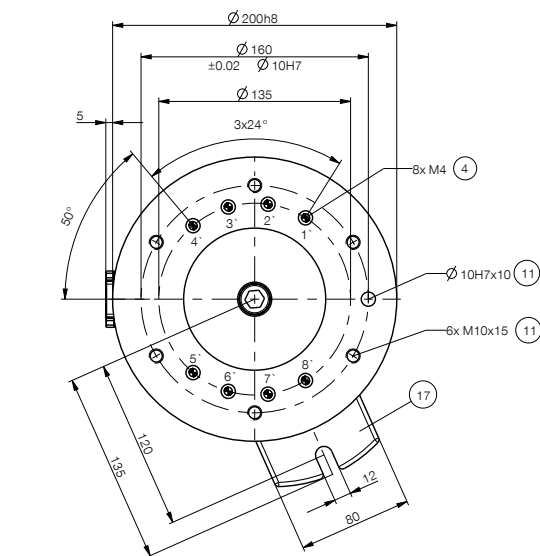
ENERGY SUPPLY



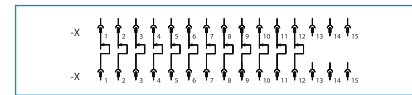
WV1-8X8
Angled Fittings - Quick Connect Style

Order no.	► Technical data	
	DVR160I4	DVR160I8
Connecting flange according EN ISO 9409-1	TK 160	TK 160
Pneumatic energy transfer [Quantity] *	4	8
Flow per connector [l/min]	270	270
Electrical energy transfer	12-pole	12-pole
Max. current [A]	6	6
Max. voltage [V]	250	250
Max. acceleration [m/s²]	20	20
Maximum speed [1/min.]	100	100
Maximum speed [°/s]	600	600
Radial run out +/- [mm]	0.05	0.05
Axial run out +/- [mm]	0.05	0.05
Constant torque [Nm]	4	5
Loose torque [Nm]	5	6
Operating pressure max. [bar]	10	10
Operating temperature [°C]	5 ... +80	5 ... +80
Moment of inertia [kgcm²]	480	580
Certifications	LABS / REACH / RoHS	LABS / REACH / RoHS
Protection to IEC 60529	IP64	IP64
Weight [kg]	9.1	11

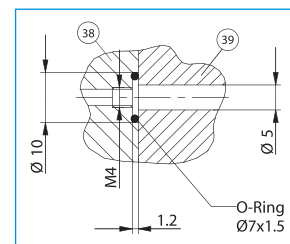
*Vacuum possible



- ① Fixing (robot side)
- ④ Integrated air feed-through
- ⑪ Fixing tool side
- ⑪ Torque brace
- ⑪ Electrical energy transfer robot side
- ⑪ Electrical energy transfer tool side
- ⑪ Air purge connection option
- ⑪ Tool changer
- ⑪ Adapter



PIN assignment



Hoseless air passage (tool)

