

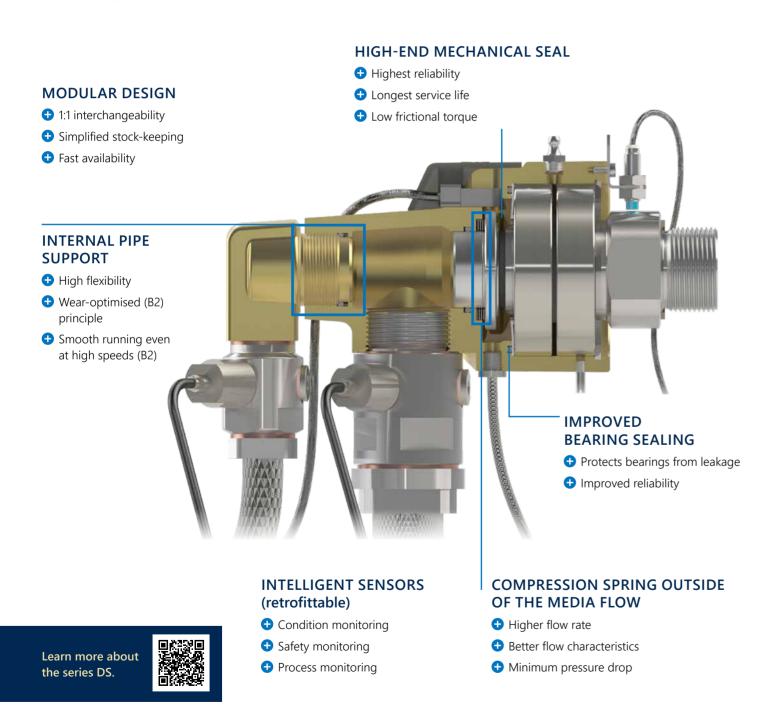
ROTARY JOINTS SERIES DS



SENSOR READY SUPERIOR PERFORMANCE SMART CUSTOMISING

Rotary joints of the DS series are suitable for high speeds with low frictional torque, especially suitable for non-driven rolls. They are available from size DN 10 (3/8") to 80 (3 1/2") as mono- and duo-flow versions and are designed for the passage of water, heat transfer oil, air and technical gases.

Optionally, a monitoring sensor system for seal wear and other process values can be integrated. The recipe for success of the **maier**GROUP's rotary joints: intensive development, combined with tests in the laboratory and in practice - for high performance of machines and plants in different industries.



DESIGN CHARACTERISTICS

- Self-supporting design
- Two ball bearings, lubricated for life up to 80°C
- Primary seal: mechanical seal (axial)
- Secondary seal: O-rings
- Bearing protection seal: lip seal and O-ring
- Modular design

🤼 HOT WATER		HOT	WA	TER
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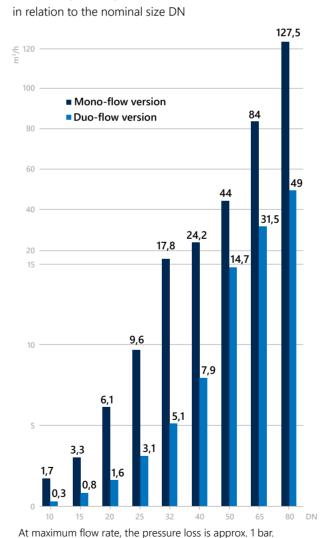
MAXIMUM APPLICATION DATA

The possible application data result from the selected sealing combination.

The combination of maximum values should be avoided. Deviating media and application data on request.

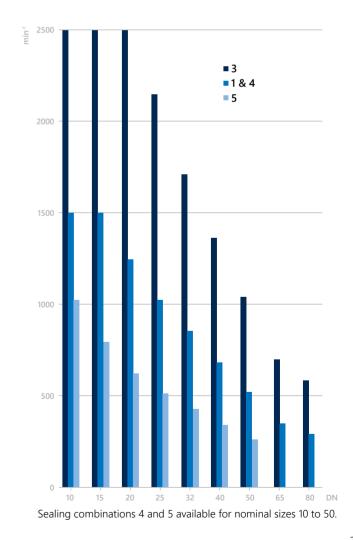
No.	Sealing co	mbination	Medium	Temperature	Pressure
1	Stainless steel	Synthetic carbon	Water	-10 + 80°C	10 bar
3	Superhard	High-performance carbon	Water, Heat transfer oil	-10 +140°C 0 +160°C	10 bar
		Carbon	Heat transfer oil	0 +100 C	
4	Superhard	Superhard	Polluted water	-10 +140°C	10 bar
5	Superhard	Synthetic carbon	Air, Water-glycol mixture	-10 +120°C	10 bar

MAXIMUM FLOW RATE



MAXIMUM SPEED

In relation of sealing combination to nominal size



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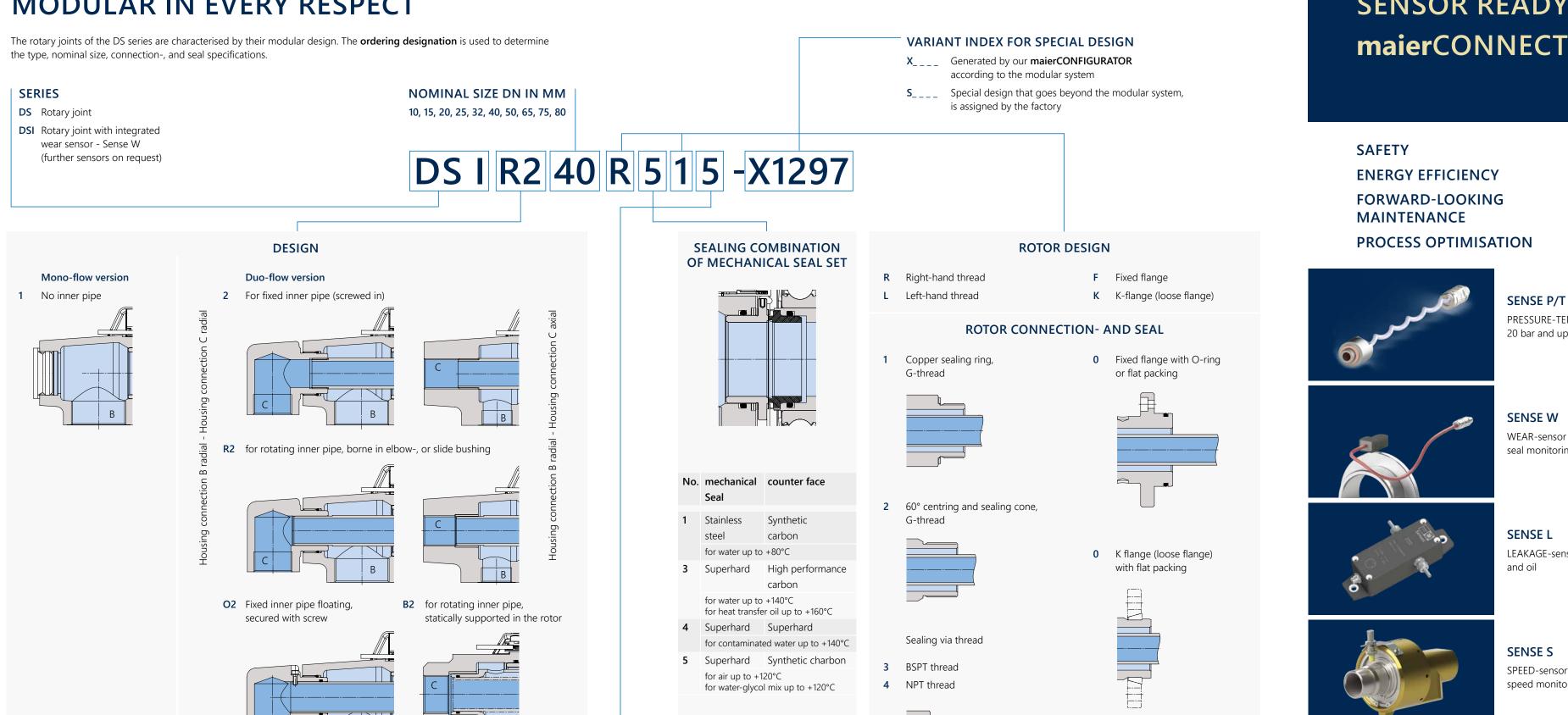
HYDRO-TECH

o.z. HYDRO-TECH HENNLICH s.r.o. Českolipská 9, 412 01 Litoměřice **Telefon:** +420 416 711 222

E-mail: hydro-tech@hennlich.cz

www.hennlich.cz/hydro-tech

MODULAR IN EVERY RESPECT



SENSOR READY

PRESSURE-TEMPERATURE-sensor 20 bar and up to 250°C

WEAR-sensor for seal monitoring

LEAKAGE-sensor for water



SPEED-sensor for simple speed monitoring



LINK C

The efficient way to send rotary joint data to the PLC or the cloud via IO-Link.





G-thread (B radial, C axial)

Flange connections

9 Special version

NPT thread (B radial, C axial)



HOUSING CONNECTIONS

G thread (B radial, C radial)

NPT thread (B radial, C radial)

NPT thread on B, NPSC thread on C (B radial, C radial)

Telefon: +420 416 711 222

E-mail: hydro-tech@hennlich.cz

The intelligent monitoring sensors can record all relevant rotary joint data. The "Link C" processing module converts the data into IO-Link.

The data obtained can be forwarded to your machine control or the cloud with the aid of evaluation electronics.



With original spare parts from the maierGROUP, we guarantee the best quality, a long service life and high system availability.

For the DS series, you can obtain complete repair kits that enable the simple replacement of wearing parts.

Alternatively, we offer professional repair by maierGROUP specialists at the factory or at your site.



SENSE S

SENSE W

Wear monitoring

Continuous monitoring of the mechanical

downtime and detect unusual conditions.

seal can prevent unplanned machine

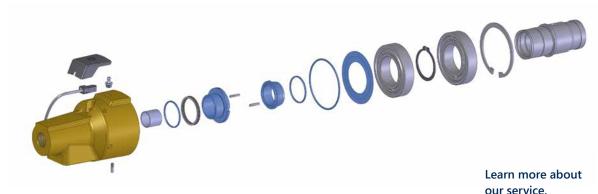
Speed monitoring

Simple monitoring, especially of non-driven rollers for "smooth" running.

Learn more about

SMALL REPAIR KIT (DN65 TO DN80)

For nominal sizes 65 to 80, the main housing can be separated from the bearing housing for easy repair. For this reason - in addition to the comprehensive repair kit - a small repair kit is also available, which only contains parts of the mechanical seal. Depending on the maintenance interval, a choice can be made between minor and major maintenance.



SENSE L

Leakage monitoring

Unpredictable media leaks, especially environmentally hazardous media, are detected by the leakage sensor and thereby kept to a minimum.

SENSE P/T

Pressure and temperature monitoring

Monitoring important process parameters helps both the quality of the end product and the rotary joint by detecting and avoiding situations such as dry running.



SUSTAINABLE SERVICE

This repair kit contains all components that are subject to

or which have to be replaced due to ageing (elastomers).

mechanical wear (mechanical seal, roller bearing, slide bushing),

Addidiotnally included are, the fastening parts, such as screws

and retaining rings which always have to be replaced during the

repair. For the DSI version, the repair kit also contains spare parts

STANDARD REPAIR KIT

With the maierCONFIGURATOR developed by maierGROUP, you can quickly and conveniently select the most suitable rotary joint for you. With the help of your operating parameters, the maierCONFIGURATOR will dimension the ideal rotating union. In addition, different connections, materials and installation positions can be selected. You will receive your configuration result conveniently by e-mail in the form of a drawing, a 3D model in STEP format and a commercial offer.





HENNLICH-ŽIJEME TECHNIKOU

o.z. HYDRO-TECH HENNLICH s.r.o.

Telefon: +420 416 711 222 Českolipská 9, 412 01 Litoměřice

E-mail: hydro-tech@hennlich.cz

www.hennlich.cz/hydro-tech



Rotary joints of the maierGROUP a union for life

Christian Maier GmbH & Co. KG

Würzburger Straße 67–69 89520 Heidenheim Germany

+49 7321 317-0 vkd@maier-heidenheim.de maier-heidenheim.com

Maier Rotary Joints (Kunshan) Co. Ltd.

No. 329 Jujin Road, Zhang Pu Township 215321 Kunshan, Jiang Su Province

+86 512 368 53 832 sales@maierchina.com maier-heidenheim.com/zh-hans/

Maier Rotary Joints Singapore Pte Ltd

4 Battery Road # 25-01 Bank of China Building Singapore 049908

+65 6525 5198 jimmy.lim@maier-heidenheim.de maier-heidenheim.com

Maier Italia S.r.l.

Via E. Toti 3 21040 Gerenzano (VA) Italy

+39 0296 24 82 88 info@maier-italia.com maier-italia.com

Maier America LLC

6669 Peachtree Ind. Blvd. Suite L/M Norcross, GA 30092 USA

+1 770 409 0022 info@maieramerica.com maieramerica.com

Telefon: +420 416 711 222

E-mail: hydro-tech@hennlich.cz