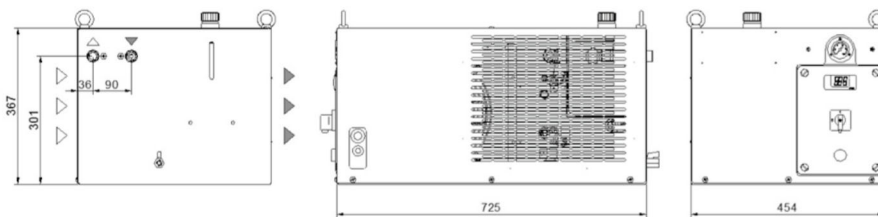


Recommended cooling units (e.g. for high-speed dry machining)

Temperature module for machines with SIEMENS, Mitsubishi and Heidenhain CNC

OLAER cooling unit



Order items

Item no.	Designation
AGG.OL-CW12*	OLAER Minichiller CW12, net cooling capacity approx. 1'300 W, incl. cooling lines and connection to rotary table

* Installation by customer or on request by pL LEHMANN (e.g. in the course of commissioning)

Temperature protection module (for Siemens, Mitsubishi and Heidenhain)

Item no.	Designation
MOT.Temp	IMTHP module incl. connecting stranded wire 24V

If a rotary table with wall bushing (WDF) is ordered, a thermal protection module is always included

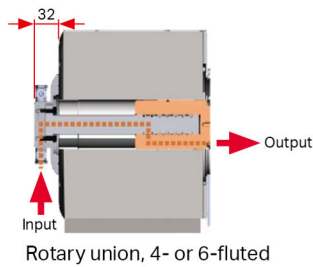


Rotary union

- up to 250 bar at max. 80 rpm (air and oil) or up to 6 bar at max. 1500 rpm (only air)
- low-maintenance, compact
- simple, suitable for retrofitting



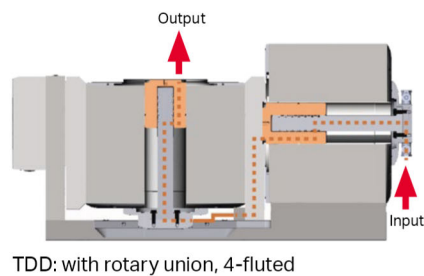
E-Series rotary union



DDF 4-fluted



T-Series rotary union

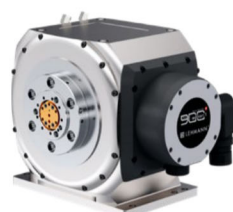


Permissible operating parameters

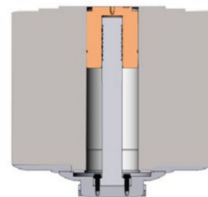
up to 250 bar at max. 80 rpm (air and oil) or up to 6 bar at max. 1500 rpm (only air)

Pressure-speed data for rotary union

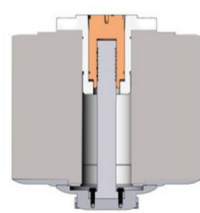
Avoid high and longer lasting speeds under pressure if possible (greatly reduces seal life).
For safety reasons, we also recommend «pressureless clamping»



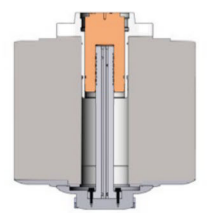
DDF.91x-04-d80



DDF.91x-0x



DDF.91x-04-d80



DDF.91x-04-KK5

Order items

Item no.	Designation
DDF.91x-04	Rotary union, 4-fluted, 6 bar, oil/air, for ED and indexing axis, high-speed
DDF.91x-04-d80	Rotary union, 4-fluted, 6 bar, incl. spindle adapter Ø80, high-speed
DDF.91x-04-KK5	Rotary union, 4-fluted, 6 bar, incl. spindle adapter KK5, high-speed
DDF.91x-06	Rotary union, 6-fluted, 250 bar, oil/air, for EA
DDF.91x-06-KK5	Rotary union, 6-fluted, 250 bar, incl. spindle adapter KK5
DDF.91x-06-TAP9	Rotary union, 6-fluted, 250 bar, oil/air, for swiveling/tilting axis (4 media channels)
DDF.918-06-TAP9v	Rotary union, 6-fluted, 250 bar, oil/air, for swiveling/tilting axis (4 media channels)
DDF.520-06-TAP5	Rotary union, 6-fluted, 250 bar, oil/air, for swiveling/tilting axis (4 media channels)
DDF.520-06CH-TAP5	Rotary union, 6-fluted, 250 bar, oil/air, for tilting axis (4 media channels) WMS compact Heidenhain
DDF.EA-91x-AGG	Loose accessories, 2-passage for cooling unit
DDF.TUP1-04	Adapter plate and piping for the tilting axis
DDF.TxP9-DDF	Piping (handshake), 4-6-fluted, for rotary union
DDF.TxP9-SPZ	Piping (handshake), max. 4-fluted, for release cylinder
DDF.TxP9-AGG-2	Piping (handshake) TDD, 2-passage, for cooling unit
DDF.TxP5-AGG	Piping (handshake) TPD, 2-passage, for cooling unit