



RING STAR

Riding ring lubrication system
for rotary kilns



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With the handy Ring Star lubrication gun or the fully automatic, stationary Ring Star automatic application unit, the lubricant can now be applied with pinpoint accuracy to lubrication points that are very difficult to reach.

Precise lubricant application despite the toughest conditions.

Until now, manual lubricant application into the riding ring gap of rotary kilns was a major challenge for maintenance staff. The reason: high temperatures and the rotating kiln tube are a potential danger that should not be underestimated. With the Ring Star units, the lubricant can now be applied precisely, in sufficient quantity and at a safe distance.

Benefits at a glance:

- › **Precise lubricant application:** The Ring Star enables the lubricant to be applied with a precise „shot“ from a safe distance
- › **Saving time and money**
- › The amount of lubricant is properly dosed
- › **Prevention of occupational accidents** safe for employees as application is done from a safe distance
- › **No contamination** in the area surrounding the rotary kiln
- › **Sustainable use of lubricants**

Automatic filling - proven process - safe for your employees.

With the manual, compressed air operated lubrication gun, the lubricant comes directly into the riding ring gap at high speed. The Ring Star lubrication gun is connected to the compressed air supply network at the operating site via a compressed air quick coupling and a hose line. Once the lubrication gun is filled with the lubricant, it is immediately ready for operation. The unit is equipped as standard with a filling connection and a level sensor for automatic filling.



developed and produced by



LUBRICATION GUN

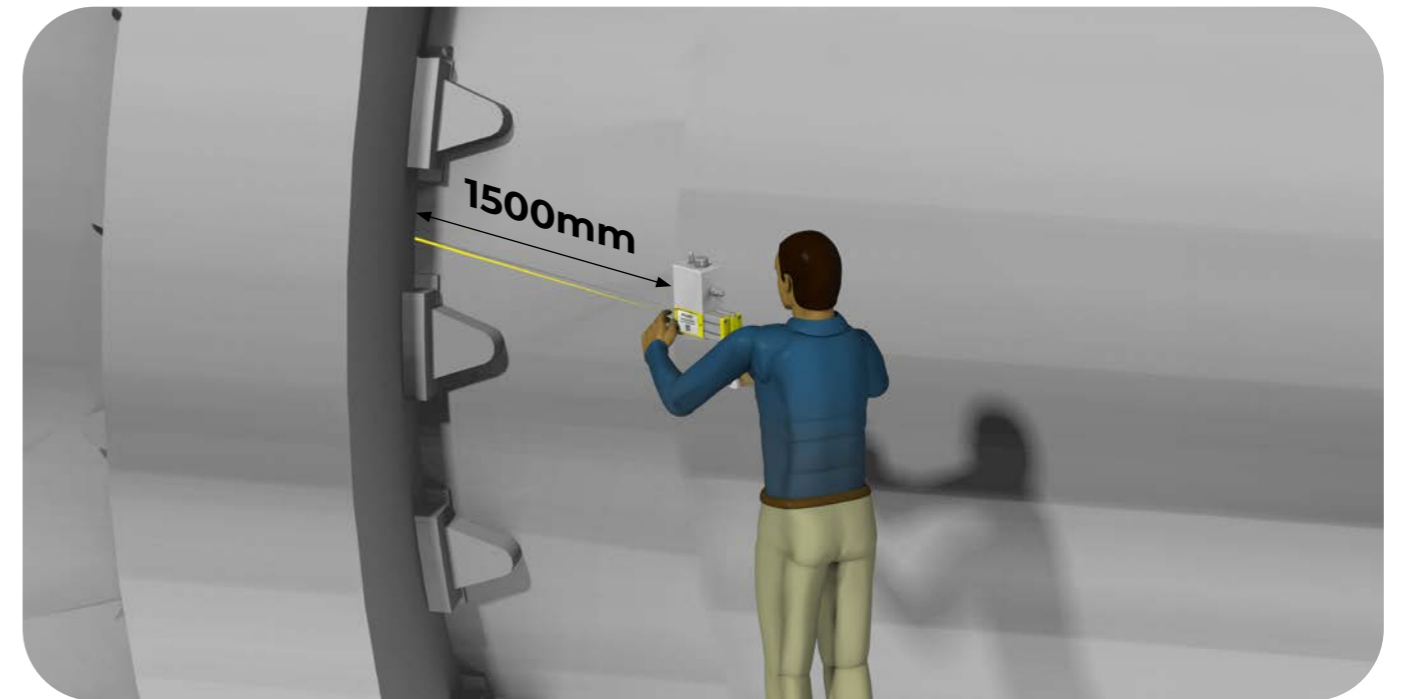
How it works

With the portable Ring Star lubrication gun, manually operated with compressed air, lubricant can be introduced or applied directly into the riding ring gap or to the flanks of a rotary kiln.

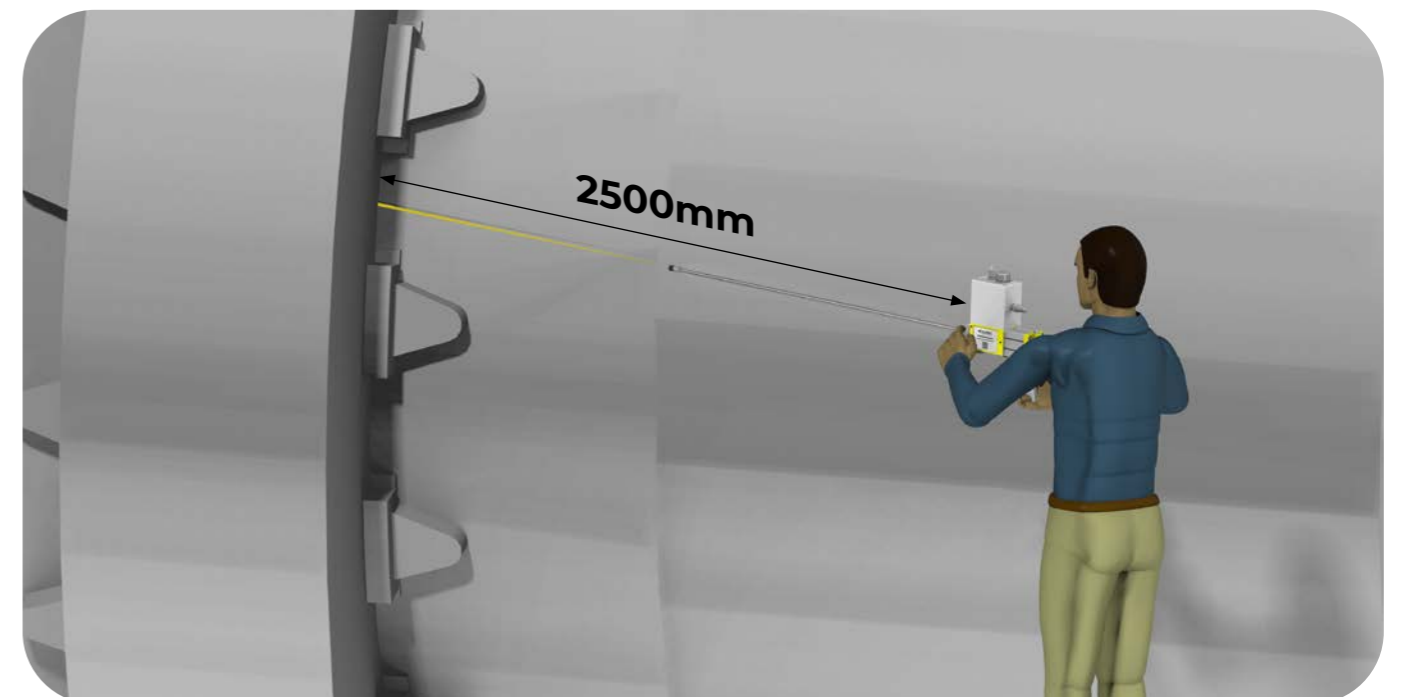
The lubricant is dispensed from safe distance by means of a "spray process" and is applied precisely to the target surface. The gun is connected to the compressed air supply network at the operating site by means of a compressed air quick coupling.

The Ring Star lubrication gun is fitted as standard with a quick coupling for the lubricant filling connection as well as an optical MAX-Indication which indicates whether the refilling process is finished. Optionally a protective cabinet and various filling pumps are available.

Application distance with Ring Star



Application distance using the Ring Star extension



APPLICATION UNIT

How it works

The Ring Star automatic application unit is set up within a stainless sheet steel safety cabinet. An automatic Ring Star lubrication gun is built into the cabinet.

The gun is fitted with a compressed air valve to trigger the application process, a sensor to monitor the piston stroke and sensors for signaling whether the container is full or empty, as well as a filling connector. The application unit is equipped with a lubricant filling filter 270 µm, a filling valve, a filling duct, a compressed air maintenance unit consisting of a filter regulator, oiler and pressure switch, as well as a central terminal box for cooling the

components inside of the cabinet. There is a VORTEC compressed air cooling system built onto the unit with integrated thermostatic controls, connected within the cabinet to the general compressed air supply and is individually adjustable.

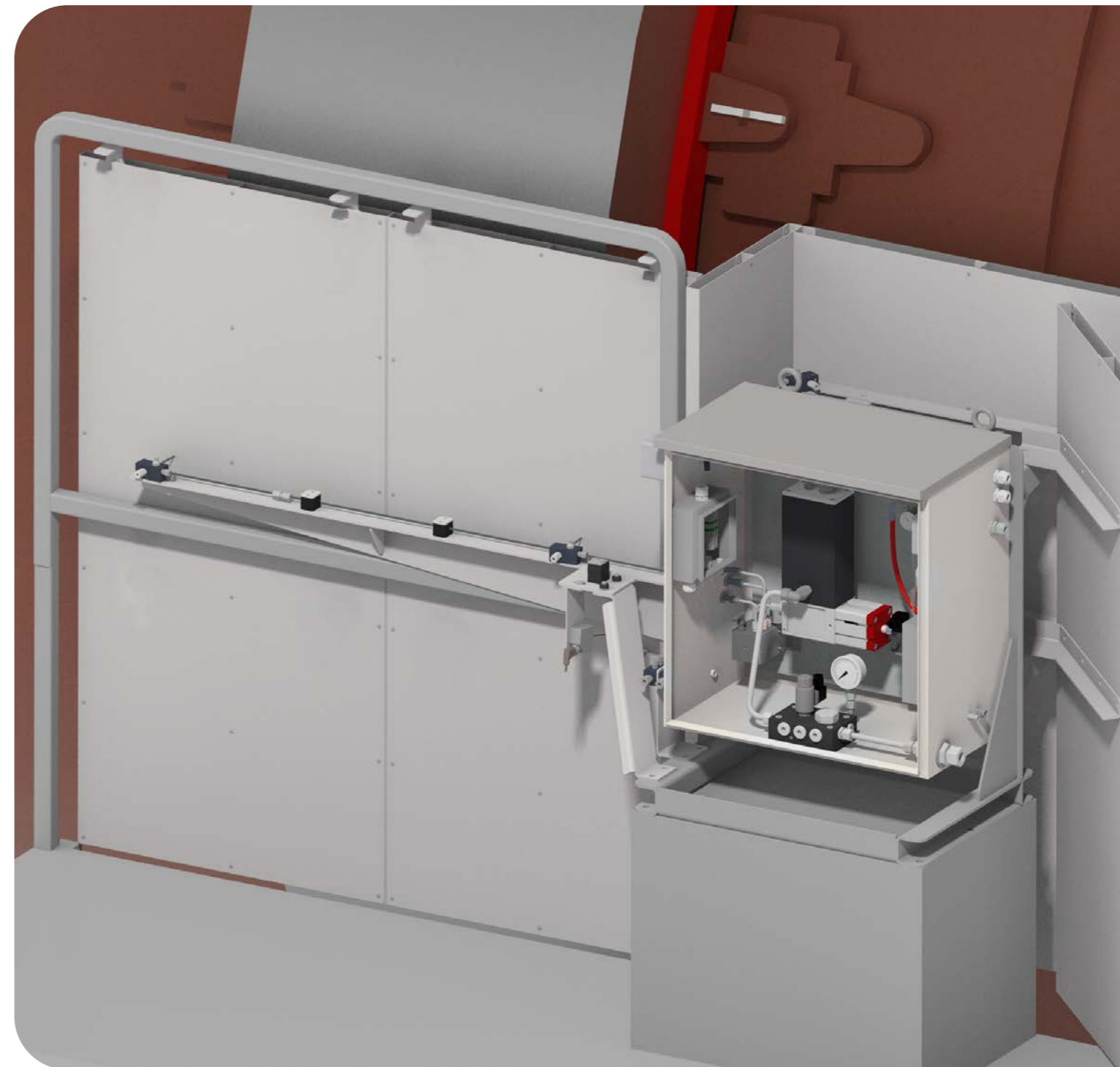
The application unit itself is ready-wired, with the tubes connected, and therefore ready to install. The filling pump station and the electrical controls for the system are not included in here. These two components are available as the corresponding factory standard or can be made in individual consultation with us.

Design available from mid-2023

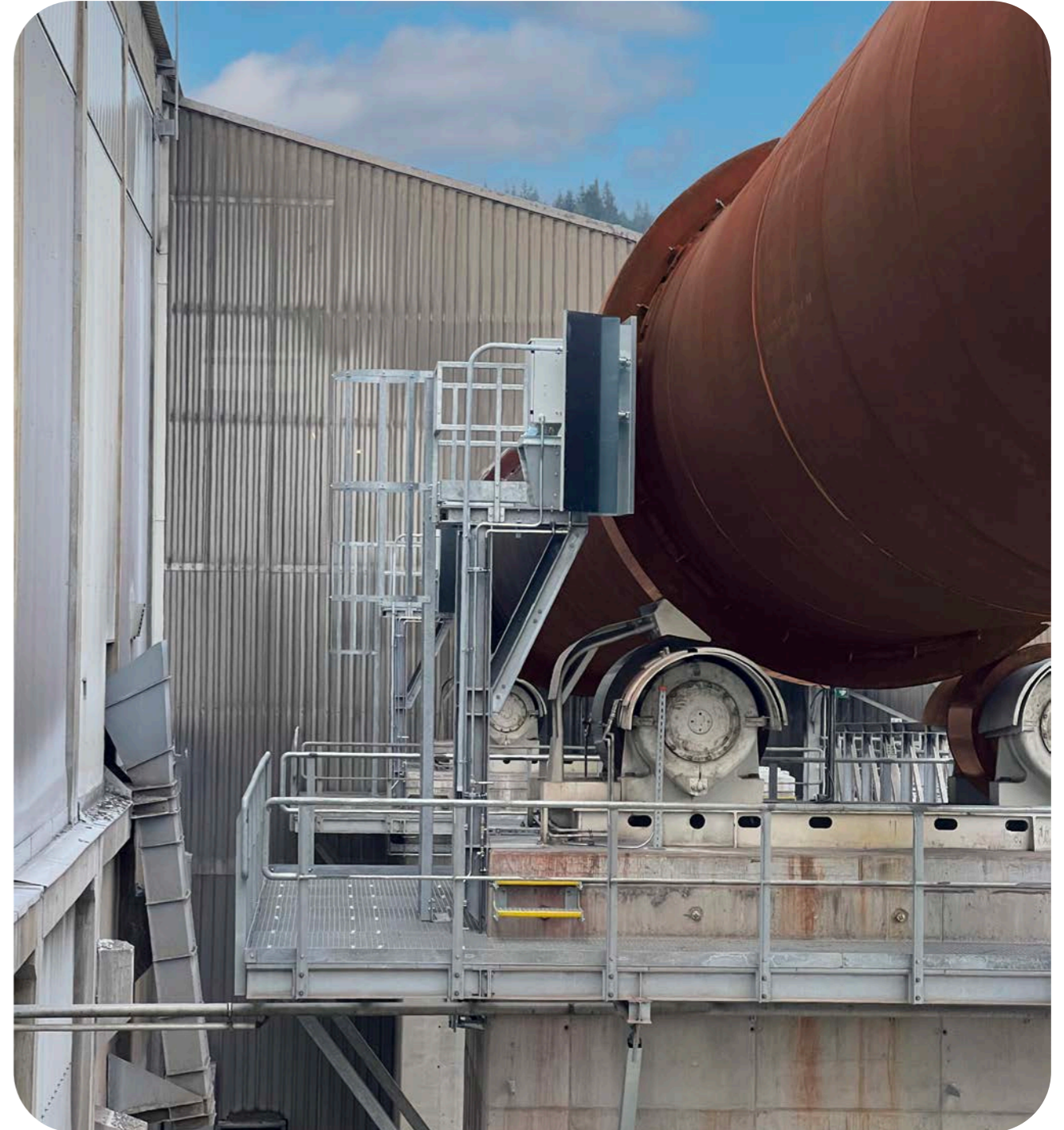
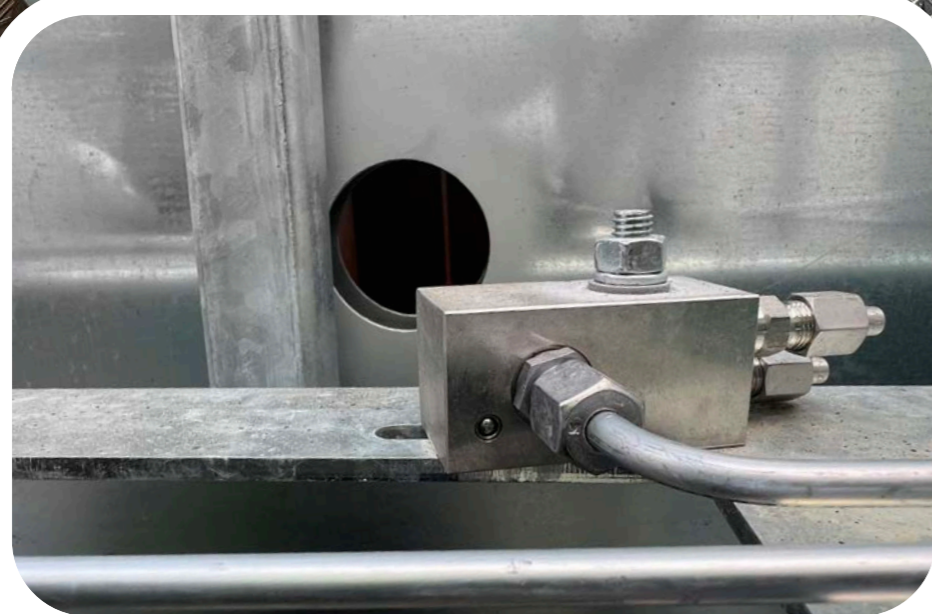
- › **Automated lubrication** of the riding ring gap and the riding ring flank
- › **Lower heat load** due to greater distance to the rotary kiln
- › Only localised water cooling of the spray nozzles required
- › Overall concept for the **protection of maintenance personnel**



Illustration of the current version of the automatic Ring Star lubrication system



Execution of an automatic Ring Star lubrication system

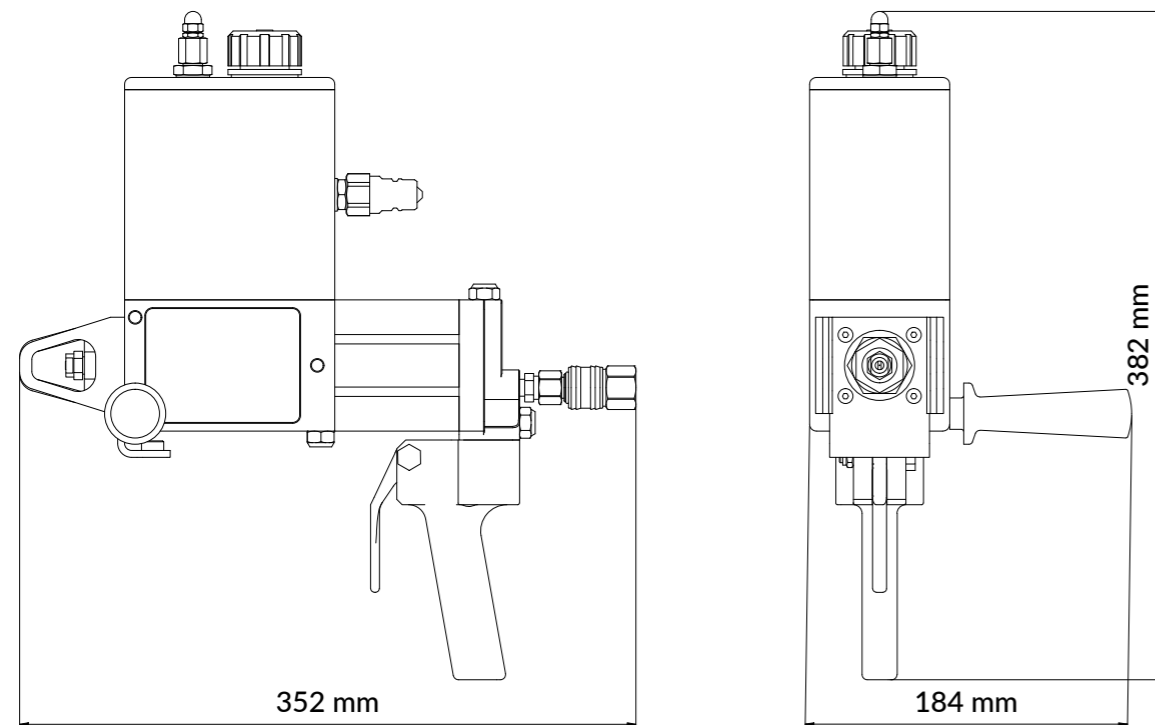


TECHNICAL DATA

Ring Star lubrication system

Ring Star lubrication gun

Description	Value	Unit
Weight	ca. 4,5	kg
Reservoir volume	1,2	dm ³
Single shot quantity	0,9	cm ³
Operating temp. range	-10 to +45	°C
Inlet air pressure	max. 10	bar
Operating air pressure	1,5 - 2,5	bar
Required air quality	744	According to ISO 8573-1
Spray range	1500	mm
Spray range with extension	2500	mm



Ring Star automatic application unit

Description	Value	Unit
Weight	ca. 36	kg
Reservoir volume	1,9	dm ³
Single shot quantity	0,9	cm ³
Operating temperature range	-10 to +45	°C
Inlet air pressure	max. 10	bar
Operating air pressure	1,5 - 2,5	bar
Compressed air filter element	40	µm
Lubricant filter element	270	µm
Required air quality	744	According to ISO 8573-1
Maximum spray range	1500	mm
Compressed air connection	15L	ferrule fitting
Refill connection	8L	ferrule fitting
Electrical connection	M20x1,5	Cable gland

Approved lubricants

Producer	Designation
Klüber	WOLFRACON C FLUID
Klüber	GRAFLOSCON SY 20 ULTRA
Fuchs	Ceplattyn HT



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