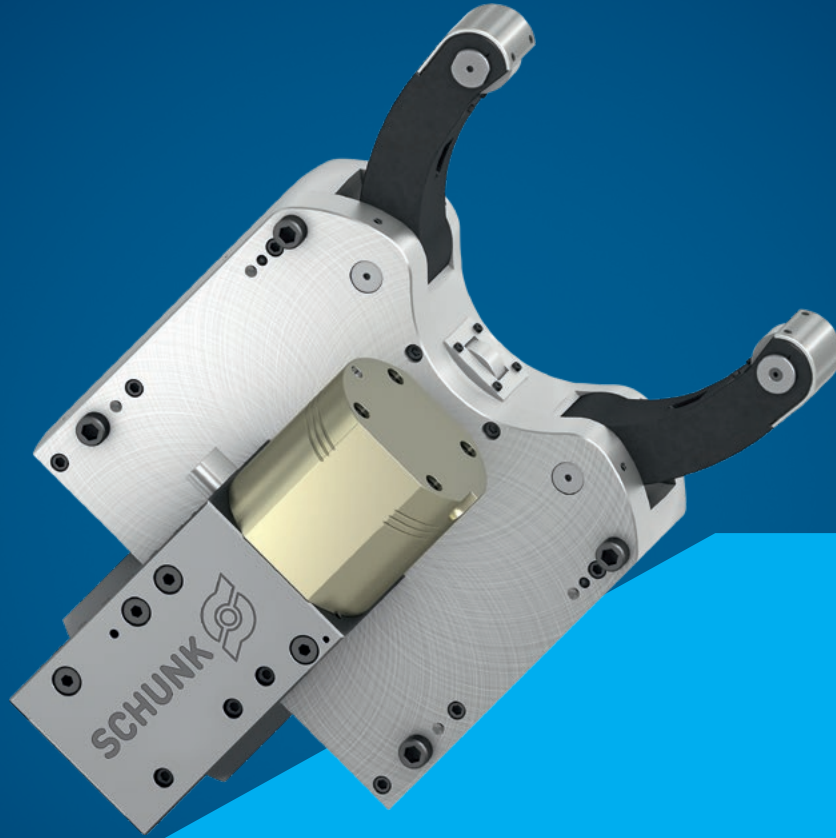




ZENTRICO THL-S plus

Self-centering steady rests with lateral cylinder

Self-centering steady rests with high clamping forces for confined installation spaces

The steady rest THL-S plus with lateral cylinder is designed for particularly confined installation spaces. It reduces the overall length of the steady rest. Depending on the installation dimensions it is also possible to use a larger steady rest with correspondingly a larger clamping range. Due to the optimized lever kinematics and central and manual lubrication, the steady rest achieves maximum clamping forces for each roller, as well as constantly excellent centering and repeat accuracies.

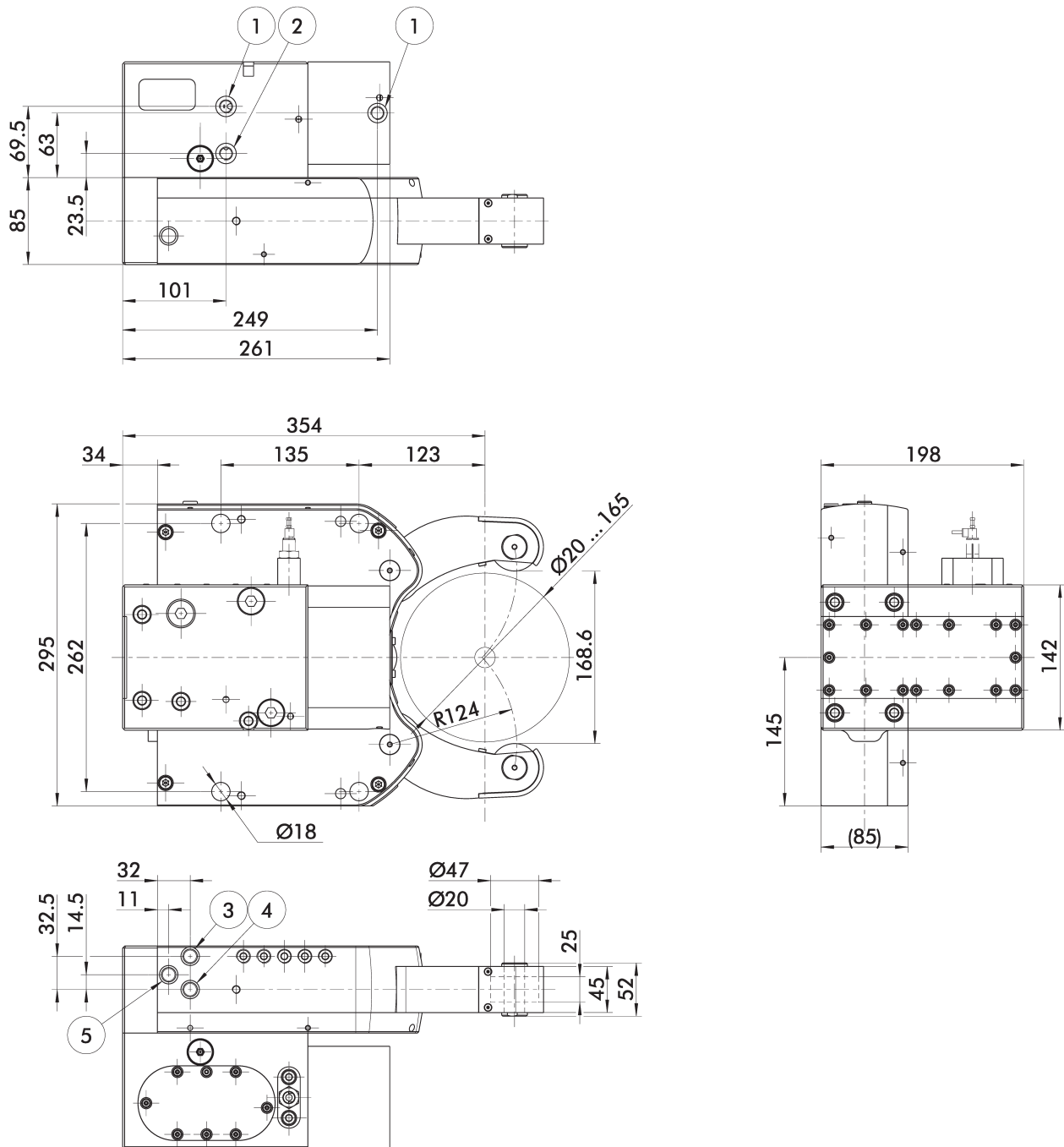


Advantages – Your benefits

- + Precision-lever steady rest for top quality demands**
Allows excellent machining results
- + Highly precise lever kinematics**
High centering and repeat accuracy
- + Serially sealed against chips and air purge connection as a standard**
Ensure higher process reliability and extended maintenance intervals
- + Roller rinsing as standard**
To avoid contamination and chip nesting
- + Optimized lubrication system due to central lubrication**
Easy supply and long lifetime
- + Hydraulic connections at the rear and side of the cylinder**
Easy attachment to almost any machine
- + Integrated safety valve and end position control**
Maximum operating safety
- + Monitoring of the piston position optionally available**
Shorter cycle times and collision protection
- + Compatible with all commercially available steady rests**
Easy exchange of steady rests without any additional special parts
- + All sides of the functional parts are hardened and ground**
Ensures a long service life

Technical data

Description	Clamping range [mm]	Operating pressure [bar]	Max. clamping force [kN]	Centering accuracy [mm]	Repeat accuracy [mm]
THL-S plus 300	12 - 152	8 - 60	10	< 0.04	< 0.007
THL-S plus 310	20 - 165	8 - 60	10	< 0.04	< 0.007
THL-S plus 400	35 - 245	8 - 60	15	< 0.05	< 0.01
THL-S plus 500	50 - 310	8 - 60	15	< 0.06	< 0.01
THL-S plus 510	90 - 350	8 - 80	15	< 0.06	< 0.01
THL-S plus 600	125 - 460	8 - 70	30	< 0.06	< 0.01



Subject to technical changes.

- | | |
|-------------------------------|---------------------|
| ① Hydraulics A: G1/4 | ④ Flushing D: G1/8 |
| ② Hydraulics B: G1/4 | ⑤ Air purge E: G1/8 |
| ③ Central lubrication C: G1/8 | |

Technical data

Description	ID	Type of lubrication	Rollers	Clamping range [mm]	Max. clamping force/roller [kN]	Weight [kg]
THL-S plus 310 Z-Z	0825431	Central lubrication	cylindrical	20 - 165	10	48
THL-S plus 310 Z-B	0825433	Central lubrication	spherical	20 - 165	10	48
THL-S plus 310 M-Z	0825432	Manual lubrication	cylindrical	20 - 165	10	48
THL-S plus 310 M-B	0825434	Manual lubrication	spherical	20 - 165	10	48

Scope of delivery

Steady rest, mounting screws, eye bolts and operating manual; without proximity switch for stroke monitoring

Notes

Maximum workpiece speed

The maximum workpiece speed in relation to the steady rest depends on the permissible circumferential speed of the steady rest rollers. The cutting speed on the clamping diameter is the same as the circumferential speed of the rollers.

Use of cylindrical rollers

Cylindrical rollers are mainly used in stationary steady rests or applications.

Use of spherical rollers

Spherical rollers are mainly used in trailing or leading steady rests.

Roller rinsing

Coolant or compressed air can be used as the medium for roller rinsing.

Further technical data

Description	Operating pressure [bar]	Centering accuracy [mm]	Repeat accuracy [mm]	Max. circumferential speed [m/min]
THL-S plus 310	8 - 60	< 0.04	< 0.007	590

Accessories

Stroke measuring system

Enables a continuous position monitoring and a partial opening of the lever arms.



Suitable for	Description	ID
THL-S plus 310	APS THL plus 310	0820524

Roller fine adjustment

Allows fast fine adjustment of the center via eccentric roll pins at the arms of the steady rest.



Suitable for	Description	ID
THL-S plus 310	RFV THL plus 310	0820514

Cylindrical rollers

Sealed rollers for stationary use on the steady rests. Special rollers and coated rollers are available on request.



Suitable for	Description	ID
THL-S plus 310	LFR-Z 300	0820502

Spherical rollers

Sealed rollers for stationary use on travelling (leading) steady rests. Special rollers and coated rollers are available on request.



Suitable for	Description	ID
THL-S plus 310	LFR-B 300	0820552

Grease

LINOMAX plus

High-performance grease as standard for regularly lubricating SCHUNK manual and power lathe chucks and steady rests.



Bundle	Description	ID
Cartridge	LINOMAX plus cartridge	1342585
Can	LINOMAX plus can	1342586
Bucket	LINOMAX plus bucket	1342587

Grease gun

Auxiliary tools for lubrication of all kinds of SCHUNK products. The grease gun can be used for cartridges of all types of SCHUNK grease.



Bundle	Description	ID
Cartridge	Grease gun	9900543



**H.-D. SCHUNK GmbH & Co.
Spanntechnik KG**

Lothringer Str. 23
D-88512 Mengen
Tel. +49-7572-7614-1300
Fax +49-7572-7614-1039
CMM@de.schunk.com
schunk.com