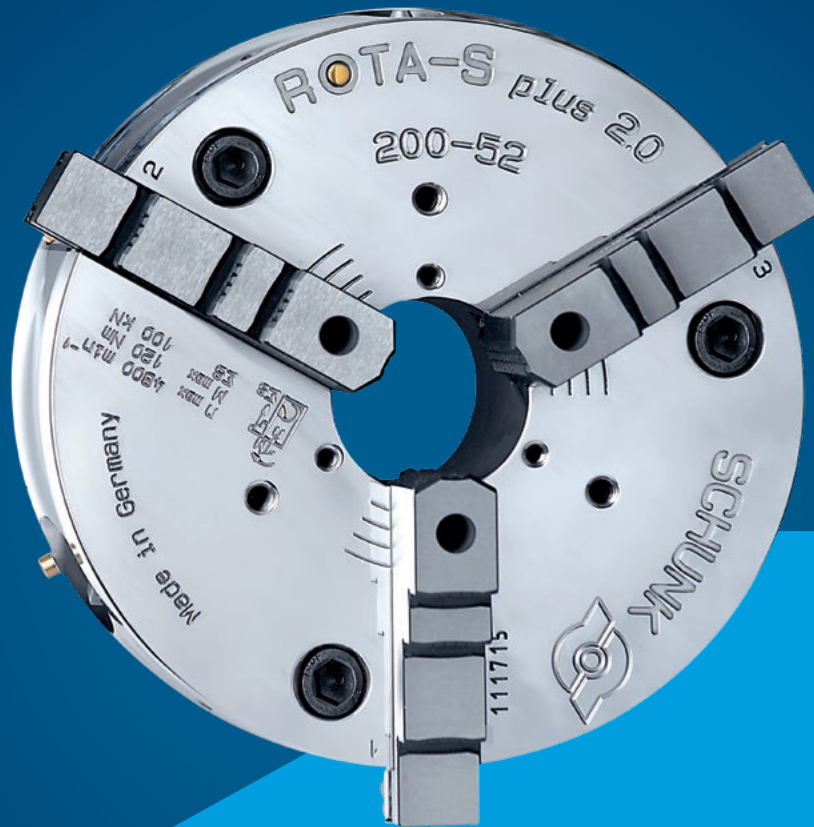




ROTA-S *plus 2.0*

**Jaw quick-change chuck with
angled serrated base jaw
interface**

Versatile useable manual lathe chuck with jaw quick-change system for jaw change in 60 seconds.

The ROTA-S plus 2.0 manual lathe chuck is specifically designed for storage solutions and conventional lathes without hydraulic or pneumatic cylinders. The jaw quick-change system makes the chucks suitable for flexible production starting from batch size 1. There is no need to rebores the jaws on the chuck. The angled jaw interface makes the manual lathe chucks compatible with the predecessor ROTA-S ROTA-S plus as well as the "F" system (Forkardt).



Advantages – Your benefits

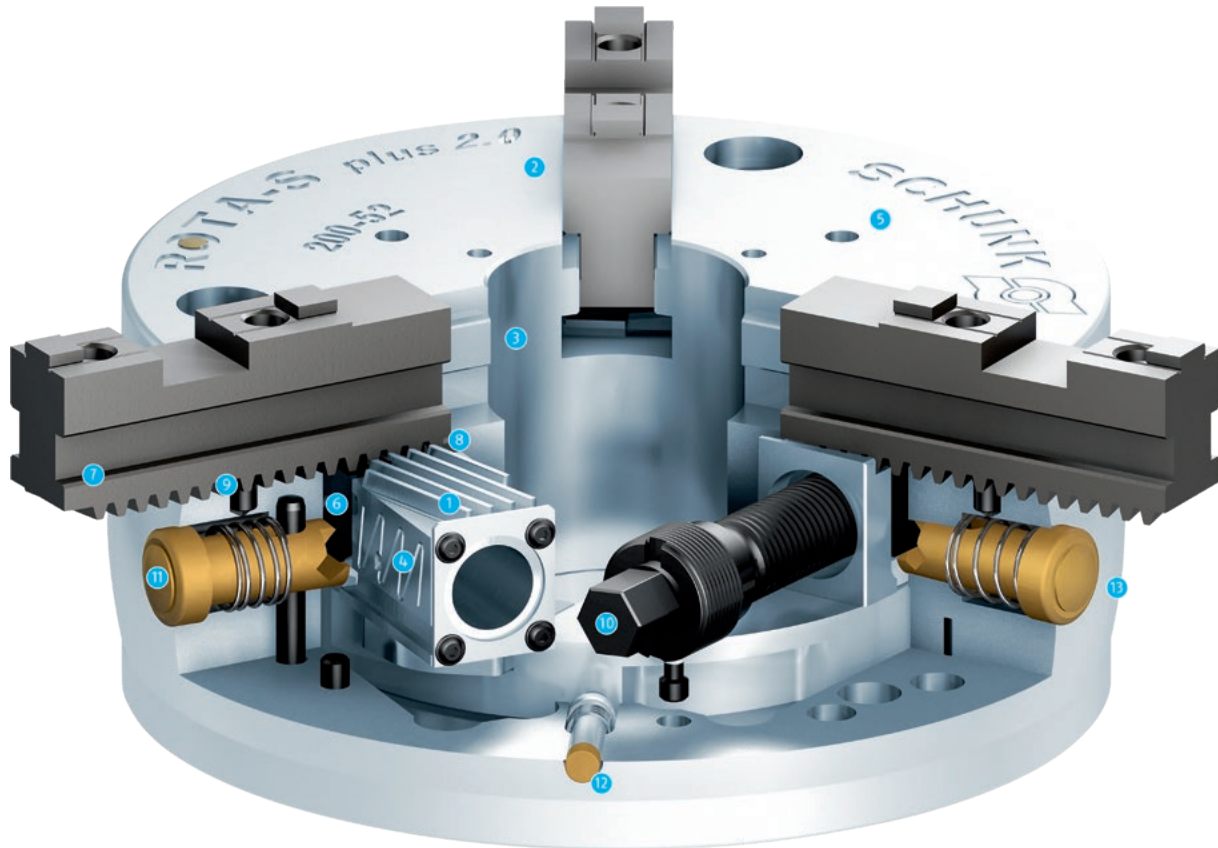
- + Convenient jaw quick-change system**
Minimizing set-up times and costs
- + Large through-hole**
Machining all standard pipe diameters
- + High efficiency of the wedge bar system**
Process-reliable clamping due to high clamping forces
- + High jaw quick-change repeat accuracy**
No reboring of already machined jaws necessary
- + Visual safety devices**
Maximum operating safety
- + Optimized lubrication system**
Consistently high clamping forces ensured
- + Modular center sleeve system**
Optimal adjustment to new clamping tasks thanks to the exchangeable center sleeves
- + Excellent clamping force/torque ratio**
Perfect use of the machine performance
- + Angled serrated base jaws SFG**
Compatible with the ROTA-S plus and "F" system (Forkardt)
- + Ergonomic, light safety spanner wrench**
Ensures easy operation
- + All sides of the functional parts are hardened and ground**
High run-out and jaw change repeat accuracy

Technical data

Description	Max. rotational speed [min ⁻¹]	Max. clamping force [kN]	Max. torque [Nm]	Stroke/jaw [mm]	Through-hole [mm]
ROTA-S plus 2.0 160-42	5400	65	80	6.5	42
ROTA-S plus 2.0 200-52	4800	100	120	7	52
ROTA-S plus 2.0 250-62	4200	160	210	7.7	62
ROTA-S plus 2.0 315-92	3400	180	220	9.8	92
ROTA-S plus 400-102	2200	230	280	12	102
ROTA-S plus 500-162	1500	270	320	12	162
ROTA-S plus 630-252	1000	270	350	15	252
ROTA-S plus 800-252	1000	270	350	15	252
ROTA-S plus 1000-402	900	270	350	15	402

Function ROTA-S plus 2.0

The tangentially movable wedge bars in the chuck are driven by turning the thread spindle. The wedge bars transmit the force to the base jaws, generating a jaw movement that is synchronous and radial to the axis of rotation.



- | | |
|--|---|
| <ul style="list-style-type: none"> ❶ Wedge bar actuation system
It offers high run-out accuracies even at high speeds ❷ Hardened and extremely rigid base body
Therefore a longer service life at highest precision.
Even with maximum clamping force ❸ Large through-hole
For machining all conventional bar diameters (optionally: with enlarged through-hole) ❹ Optimized lubrication system
For a high level of efficiency ❺ Mounting thread
For workpiece stops or cover plates ❻ Jaw quick-change system
Shortest set-up times due to individual unlocking of jaws ❼ Base jaws with diagonal serration (SFG)
Compatible with the ROTA-S plus and "F" system (Forkardt) | <ul style="list-style-type: none"> ❽ Locking mechanism
Ensures secure intermeshing of the base jaw serration with the wedge bar serration ❾ Plunger pin
For pre-positioning the base jaw ❿ Actuation via hexagon connection
This ensures easy operation ⓫ Push button for jaw change
For shortest set-up times ⓬ Indicator pin
For visual stroke monitoring of the manual lathe chuck ⓭ Special shaping with "edge profile for coolant run-off"
Therefore less coolant is in the spindle bearing or machine spindle |
|--|---|

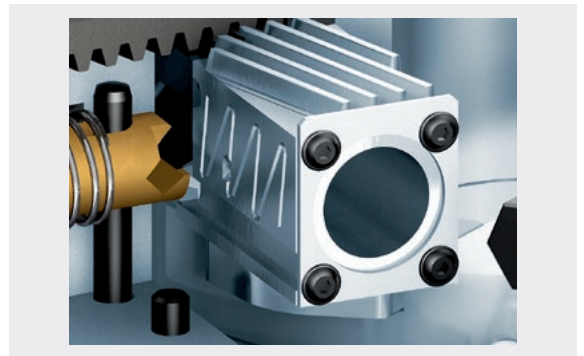
Spindel with hexagon connection

The vise can be easily actuated via a standard hexagon connection using either conventional socket wrenches, extensions or torque wrenches.



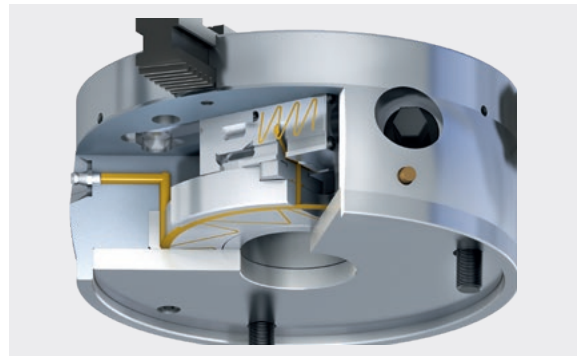
Wedge bar system with wiper

Wipers at the end of the wedge bars prevent dirt and fine chips from penetrating into the lathe chuck and the chuck mechanism.



Central lubrication system

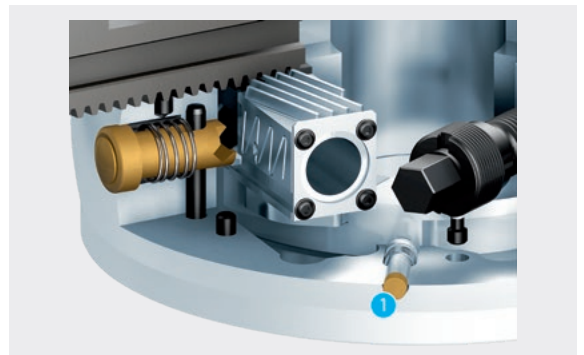
Two lubrication nipples positioned on the chuck body facilitate lubrication of all functional surfaces. The special shape of the grease grooves ensures constant lubrication of the friction surfaces. This improves the clamping behavior during operation.



Maximum operating safety

To ensure safe working, an indicator pin shows when the chuck mechanism is close to the stroke end position. As soon as the indicator pin moves outwards, the workpiece is no longer clamped correctly and machining must not be started.

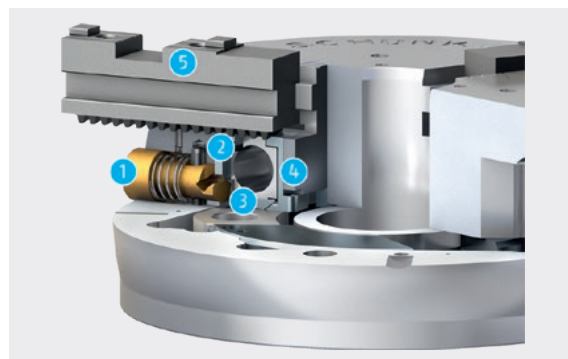
1 Indicator pin



Correct jaw change

When the base jaw is fully inserted into the guideway, the slide positions the base jaw serration for the wedge bar. The base jaw holds the locking slide in the release position. The chuck can now be actuated.

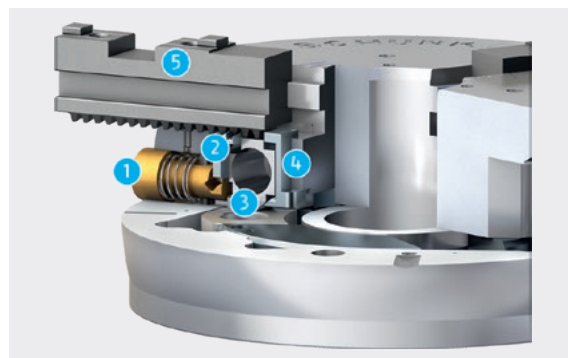
- ① Push button
- ② Slide
- ③ Traverse slide
- ④ Locking slide
- ⑤ Base jaw



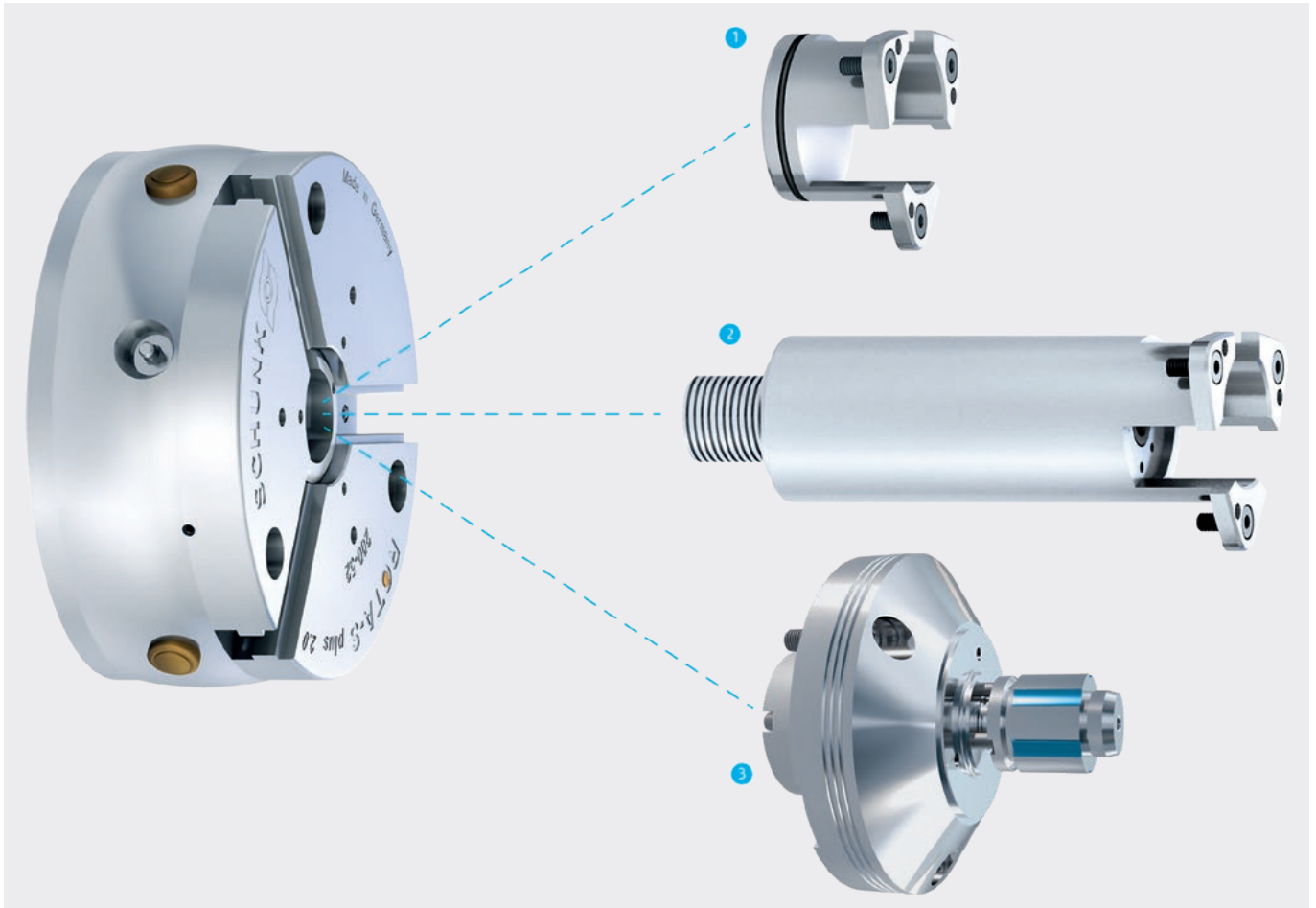
Incorrect jaw change

If the base jaw is not fully inserted into the guideway, the locking slide prevents the chuck being clamped.

- ① Push button
- ② Slide
- ③ Traverse slide
- ④ Locking slide
- ⑤ Base jaw



Modular center sleeve system



The modular center sleeve system increases flexibility for the most various applications in everyday life.

1 Closed center sleeve

The closed center sleeve prevents penetration of chips and coolant into the through-hole.

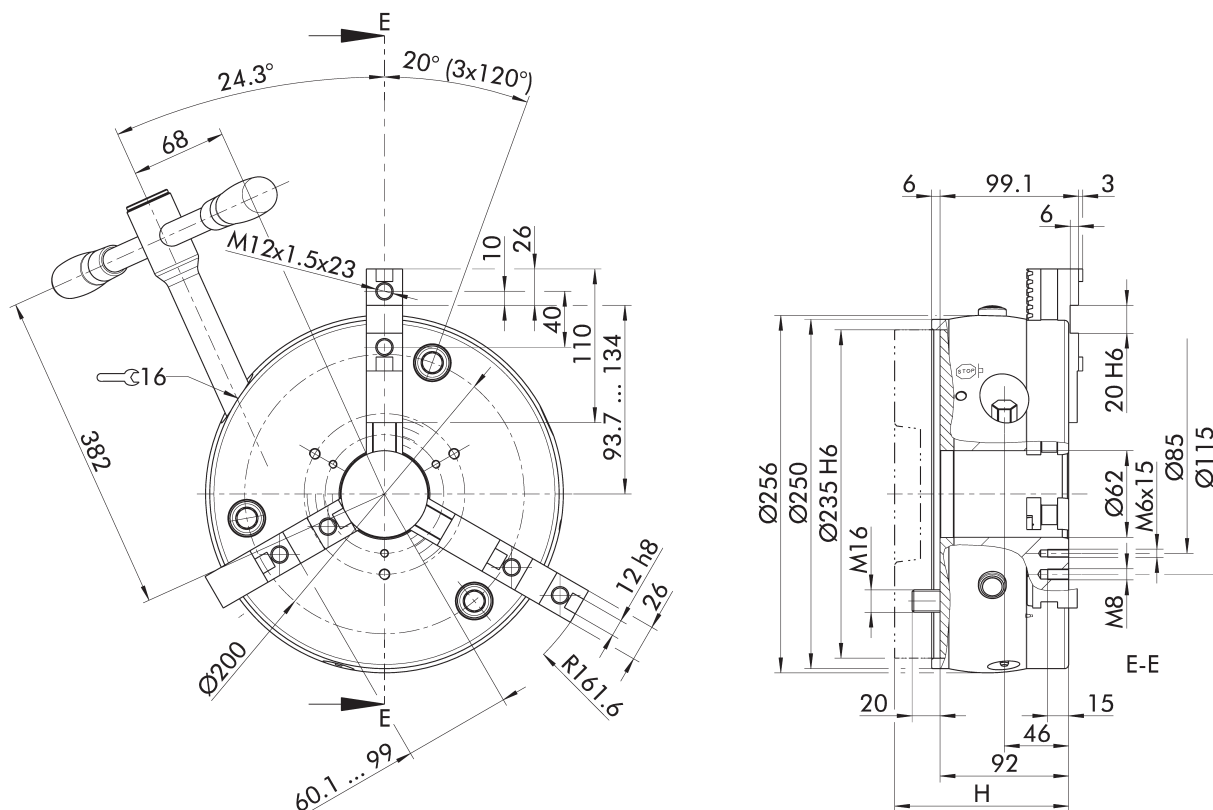
2 Adjustable stop in the center sleeve

The adjustable stop ensures that all workpieces are stopped with high repeat accuracy in the same selectable position. This makes handling quick and easy.

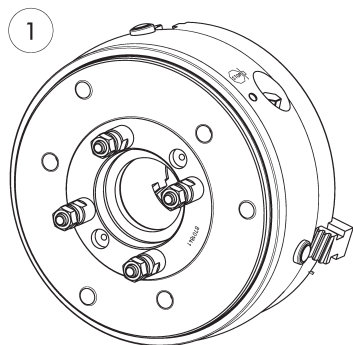
3 Expansion arbor

To clamp small inner clamping diameters, the ROTA-S plus 2.0 in sizes $\varnothing$ 200 mm and $\varnothing$ 250 mm can be retrofitted with an expansion arbor. However, a taper must be ground into the chuck body in order to do this.

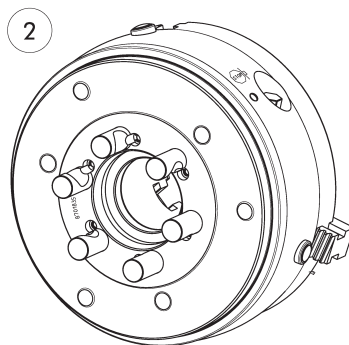
① Modular center sleeve system up to size 315 possible.



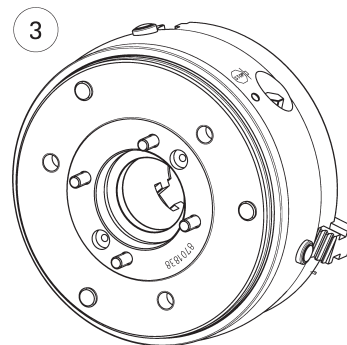
ISO 702-3



ISO 702-2



ISO 702-1



Chuck for shaft clamping drawn in open position.
Subject to technical changes.

- ① For short taper bayonet mount ISO 702-3 (similar DIN 55027)
- ② For short taper camlock mount ISO 702-2 (similar DIN 55029)

- ③ With intermediate flange for short taper ISO 702-1 (similar DIN 55026)

Technical data

Spindle type	Spindle size	Standard [ID]	Special Offer Package 1 [ID]	Special Offer Package 2 [ID]	Max. rotational speed [min ⁻¹]	Max. clamping force [kN]	Max. torque [Nm]	Height H [mm]	Weight [kg]
-	Z235	0819003	0819203	0819103	4200	160	210		28.8
ISO 702-3	Nr. 5	0819013	0819213	0819113	4200	160	210	107	33.2
ISO 702-3	Nr. 6	0819023	0819223	0819123	4200	160	210	108	33.2
ISO 702-3	Nr. 8	0819033	0819233	0819133	4200	160	210	112	33.9
ISO 702-2	Nr. 5	0819043	0819243	0819143	4200	160	210	112	34.8
ISO 702-2	Nr. 6	0819053	0819253	0819153	4200	160	210	117	36.2
ISO 702-2	Nr. 8	0819063	0819263	0819163	4200	160	210	122	37
ISO 702-1	Nr. 5	0819073	0819273	0819173	4200	160	210	110	33.8
ISO 702-1	Nr. 6	0819083	0819283	0819183	4200	160	210	112	34
ISO 702-1	Nr. 8	0819093	0819293	0819193	4200	160	210	120	35.7

Scope of delivery – Standard version

Chuck, 1 set of base jaws with screws, chuck mounting screws, actuation key, eye bolt and operating manual

Scope of delivery – Special offer package 1

Chuck, 1 set of stepped block jaws with screws (ground on the chuck), chuck mounting screws, actuation key, eye bolt, and operating manual

Scope of delivery – Special offer package 2

Chuck, 1 set of base jaws with screws, 1 set of hard top jaws (ground on the chuck), chuck mounting screws, actuation key, eye bolt, and operating manual

Notes

Enlargement of the through-hole

Enlargement of the through-hole to a maximum $\varnothing 75$ mm available upon request.

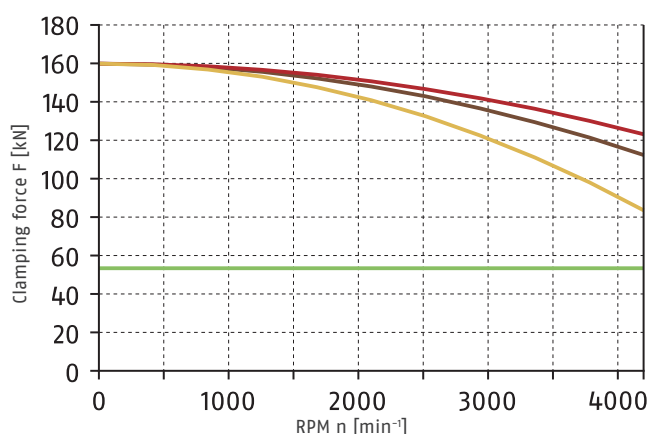
vario M

vario M can only be used after modifying the lathe chuck with a ground taper (ID 1302658).

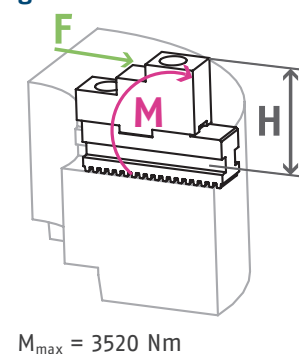
Further technical data

Chuck type	Through-hole [mm]	Stroke/jaw [mm]	Tooth pitch [mm]	Center jaw height [mm]
ROTA-S plus 2.0 250-62	62	7.7	6	66

Clamping force-RPM-diagram

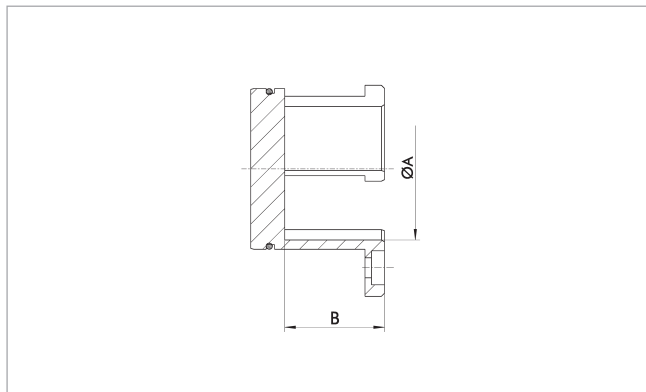


Load of base jaw guidance



Center sleeves

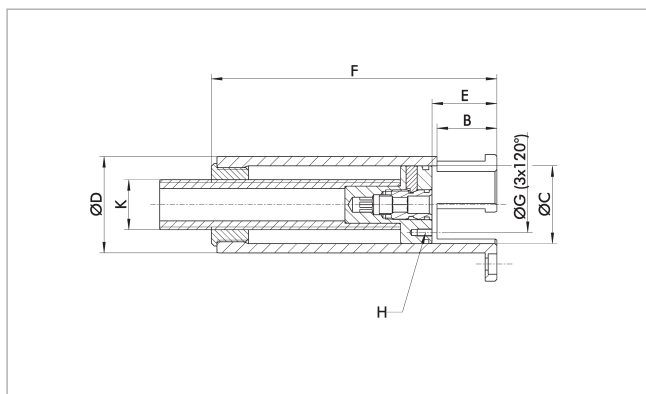
Center sleeve closed



Technical data

Description	ID	Suitable for	ØA [mm]	B [mm]	Weight [kg]
SBS-G-S 250	8704847	ROTA-S plus 2.0 250-62	56	36.8	0.4

Center sleeve with adjustable stop

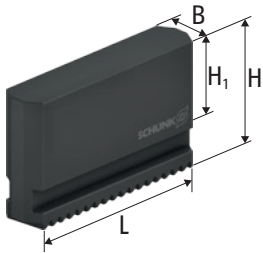


Technical data

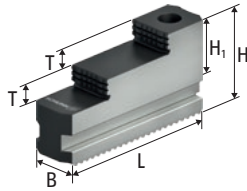
Description	ID	Suitable for	B [mm]	ØC [mm]	ØD [mm]	E [mm]	F [mm]	ØG [mm]	H	K	Weight [kg]
SBS-T-S 250	8704855	ROTA-S plus 2.0 250-62	38.3	51	62	38.3 - 80.3	140	35	M6x12	M27	1.9

- Important: Check the spindle/draw tube through-hole
- The spindle through-hole must be at least Ø D + 0.5 mm

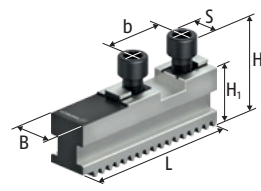
Base jaws, Hard stepped block jaws, Soft monoblock jaws with angled serration



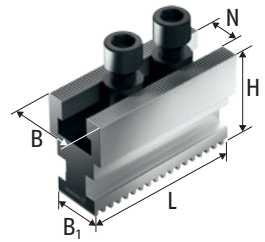
SMB
Soft monoblock jaws



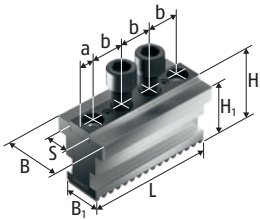
STF
Hard stepped block jaws



SFG
Base jaws



STB
Base jaws



STN
Base jaws

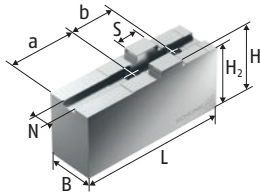
Technical data

Chuck type	Description	ID	N [mm]	S [mm]	B [mm]	B1 [mm]	H [mm]	H1 [mm]	L [mm]	T [mm]	a [mm]	b [mm]	Screws	m/SET [kg]
ROTA-S plus 2.0 250-62	SMB 250	0163102			26		70	40	115					4.4
ROTA-S plus 2.0 250-62	SMB-H 250	0163202			26		100	70	115					6.5
ROTA-S plus 2.0 250-62	SFG 250	0157102	20	12	26		40	37	110			40	M12x1.5	1.8
ROTA-S plus 2.0 250-62	SFGK 250	0157502	20	12	26		40	37	91			40	M12x1.5	1.6
ROTA-S plus 2.0 250-62	SFGL 250	0157112	20	12	26		40	37	122			40	M12x1.5	2.0
ROTA-S plus 2.0 250-62	SFG-V 250	0157152	20	12	26		40	37	110			40	M12x1.5	1.8
ROTA-S plus 2.0 250-62	STB 250-1	0156100	17		45	26	65		110				M12	4.9
ROTA-S plus 2.0 250-62	STB 250-2	0156101	21		54	26	70		110				M16	5.2
ROTA-S plus 2.0 250-62	STN 250-4	0160501		21	45	26	52.5	50	110		13	28	M16	4.2
ROTA-S plus 2.0 250-62	STF 250	0161102			26		70	40	114	14				3.3

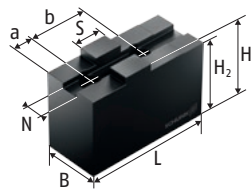
Our complete range of chuck jaws can be found online in our Chuck Jaw Quickfinder and on schunk.com

Soft top jaws

with tongue and groove



SFA-AL
Soft top jaws



SFA
Soft top jaws

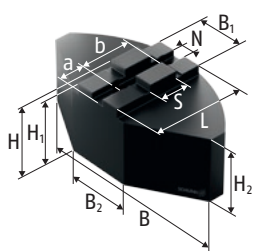
Technical data

Chuck type	Description	ID	N [mm]	S [mm]	B [mm]	H [mm]	H2 [mm]	L [mm]	a [mm]	b [mm]	Screws	m/SET [kg]
ROTA-S plus 2.0 250-62	SFA 250	0153102	12	20	30	55.5	50.5	125	60	40	M12	3.7
ROTA-S plus 2.0 250-62	SFA-AL 250	0172103	12	20	40	60	55	125	60	40	M12	2.1
ROTA-S plus 2.0 250-62	SFA 250-C1	0154101	12	20	40	60	55	90	34	40	M12	3.9
ROTA-S plus 2.0 250-62	SFA 250-C2	0154102	12	20	40	60	55	125	69	40	M12	5.6
ROTA-S plus 2.0 250-62	SFA 250-C3	0154103	12	20	40	80	75	125	69	40	M12	7.7
ROTA-S plus 2.0 250-62	SFA 250-C4	0154104	12	20	40	100	95	125	69	40	M12	9.8
ROTA-S plus 2.0 250-62	SFA 250-C5	0154105	12	20	40	120	115	125	69	40	M12	11.8
ROTA-S plus 2.0 250-62	SFA 250-C6	0154106	12	20	60	60	55	90	34	40	M12	6.0
ROTA-S plus 2.0 250-62	SFA 250-C7	0154107	12	20	80	60	55	90	34	40	M12	8.5
ROTA-S plus 2.0 250-62	SFA 250-C8	0154134	12	20	80	100	95	125	69	40	M12	20.6

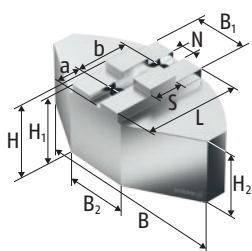
Our complete range of chuck jaws can be found online in our Chuck Jaw Quickfinder and on [schunk.com](https://www.schunk.com)

Hard stepped top jaws, Full grip jaws

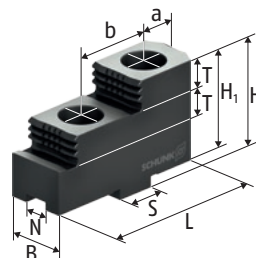
with tongue and groove



SFA-SM
Full grip jaws



SFA-SA
Full grip jaws



SHF
Hard stepped top jaws

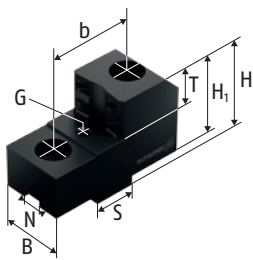
Technical data

Chuck type	Description	ID	N [mm]	S [mm]	B [mm]	B1 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	T [mm]	a [mm]	b [mm]	Screws	m/SET [kg]
ROTA-S plus 2.0 250-62	SFA-SA 250	0174102	12	20	180	40	58	53	43	87.5		33.75	40	M12	3.4
ROTA-S plus 2.0 250-62	SFA-SA 251	0174106	12	20	180	40	80	75	65	87.5		33.75	40	M12	5.0
ROTA-S plus 2.0 250-62	SFA-SM 250	0173102	12	20	180	40	60	55	45	90		34.5	40	M12	12.8
ROTA-S plus 2.0 250-62	SFA-SM 251	0173106	12	20	180	40	80	75	65	90		35	40	M12	18.9
ROTA-S plus 2.0 250-62	SHF 250	0155102	12	20	30		55	50		90	14	21.1	40	M12	1.9

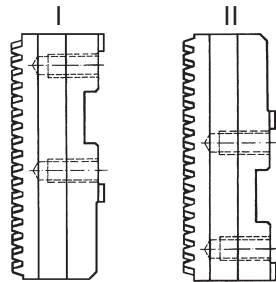
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Claw jaws

with tongue and groove



SZKA
Claw jaws



Position of base jaws

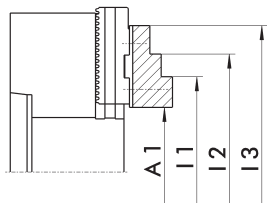
Technical data

Chuck type	Clamping range ØD	Swing diameter SDmax	Position of base jaws	Description	ID	N	S	B	H	H1	L	T	G	b	Screws	m/SET
	[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]		[kg]
ROTA-S plus 2.0 250-62	90 - 172	326	I	SZKA 263	0139160	12	20	30	55	50	85	25	M6	40	M12	1.5
ROTA-S plus 2.0 250-62	147 - 230	327	I	SZKA 266	0139163	12	20	40	55	50	74	25	M6	40	M12	1.9
ROTA-S plus 2.0 250-62	181 - 263	341	I	SZKA 268	0139165	12	20	40	55	50	83	25	M6	40	M12	2.2
ROTA-S plus 2.0 250-62	31 - 97	322	II	SZKA 263	0139160	12	20	30	55	50	85	25	M6	40	M12	1.5
ROTA-S plus 2.0 250-62	73 - 154	322	II	SZKA 266	0139163	12	20	40	55	50	74	25	M6	40	M12	1.9
ROTA-S plus 2.0 250-62	118 - 188	322	II	SZKA 268	0139165	12	20	40	55	50	83	25	M6	40	M12	2.2

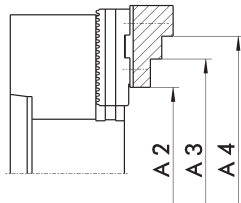
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Hard stepped top jaws

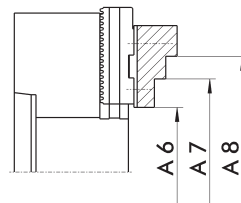
with tongue and groove



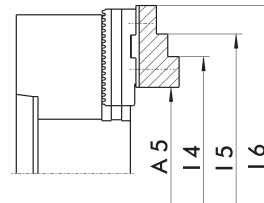
Position of base jaws II



Position of base jaws I



Position of base jaws II



Position of base jaws I

O.D. clamping

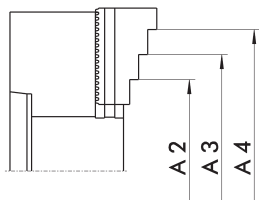
Chuck type	Description	ID	A1 [mm]	A3 [mm]	A4 [mm]	A5 [mm]	A7 [mm]	A8 [mm]
ROTA-S plus 2.0 250-62	SHF 250	0155102	11 - 96	91 - 170	171 - 250	87 - 166	41 - 100	121 - 180

I.D. clamping

Chuck type	Description	ID	I1 [mm]	I2 [mm]	I4 [mm]
ROTA-S plus 2.0 250-62	SHF 250	0155102	92 - 175	171 - 255	166 - 245

Hard stepped block jaws

with tongue and groove



Jaw position II

O.D. clamping

Chuck type	Description	ID	A1 [mm]	A2 [mm]	A4 [mm]
ROTA-S plus 2.0 250-62	STF 250	0161102	8 - 92	85 - 167	165 - 247

I.D. clamping

Chuck type	Description	ID	I1 [mm]	I3 [mm]
ROTA-S plus 2.0 250-62	STF 250	0161102	89 - 171	168 - 251

Accessories

Clamping force tester

For measuring the jaw clamping force of 2, 3 and 6-jaw chucks up to 6,000 RPM.



Suitable for	Description	ID
ROTA-S plus 2.0 250-62	IFT Set	1404235

Maintenance kit

Consisting of a grease gun, LINOMAX plus grease cartridge, chip protection, and sealing plug.



Suitable for	Description	ID
ROTA-S plus 2.0 250-62	WTS-S 250	0899016

Torque wrench

Torque wrench for actuation of SCHUNK manual lathe chucks.



Suitable for	Description	ID
ROTA-S plus 2.0 250-62	SSH-D-1/2" 60-300	1301281

Hexagon actuation wrench

Spanner wrench for manual actuation of the SCHUNK manual lathe chucks with hexagonal connections.



Suitable for	Description	ID
ROTA-S plus 2.0 250-62	SSH-SK SW16-230	1330894
ROTA-S plus 2.0 250-62	SSH-SL SW16-330	8704923

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

Consol plate

Standard version for conversion of all ROTA-S plus 2.0 manual lathe chucks for stationary applications. The sizes 400 to 630 are available on request.



Suitable for	Description	ID
ROTA-S plus 2.0 250-62	KSL 250	0814272

Sealing plug

For closing the through-hole on manual lathe chucks ROTA-S plus 2.0, ROTA-S plus and ROTA-G.



Suitable for	Description	ID
ROTA-S plus 2.0 250-62	VST Ø62	8702868

Chip protection

For better protection against the penetration of chips for the manual lathe chucks ROTA-S plus 2.0, ROTA-S plus and ROTA-G.



Suitable for	Description	ID
ROTA-S plus 2.0 250-62	SPS 250	9966640

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



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