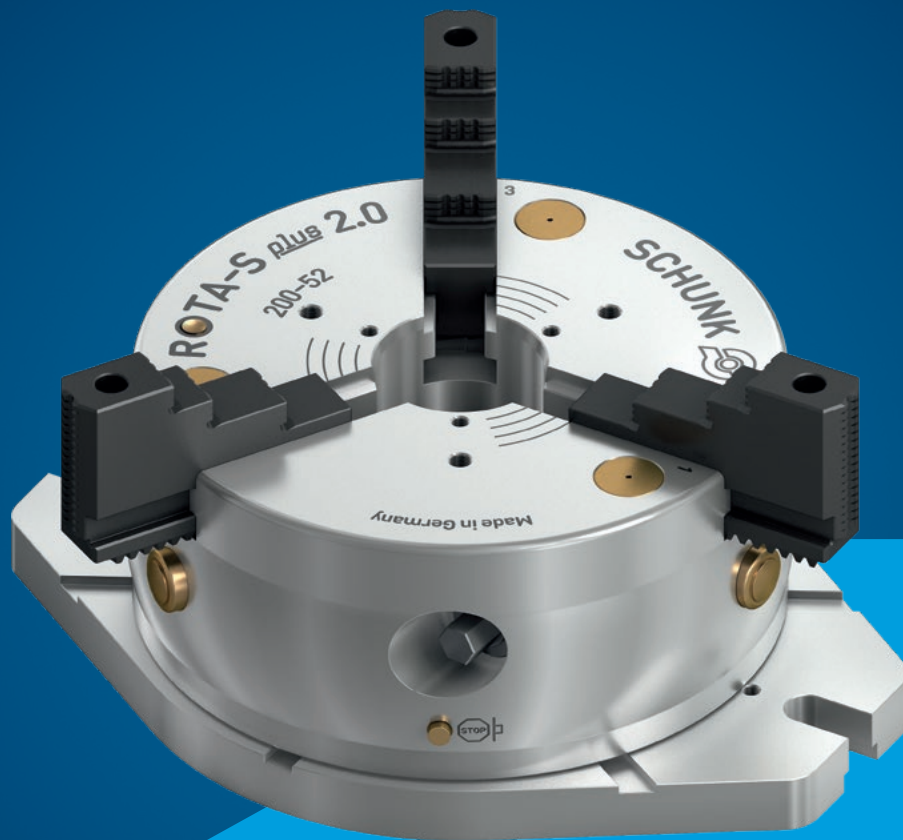


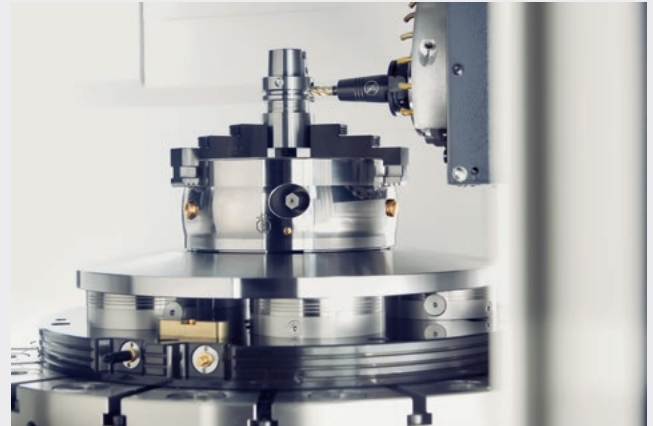


ROTA-S *plus* 2.0

**Jaw quick-change chuck for
stationary use**

Universally applicable manual lathe chucks for stationary applications with jaw quick-change system for jaw change within 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 lathe chucks suitable for flexible manufacturing from batch size 1. The manual lathe chucks can be quickly and easily attached to the machine table using a base plate or, in combination with VERO-S, can also be automatically inserted and removed using a robot.



Advantages – Your benefits

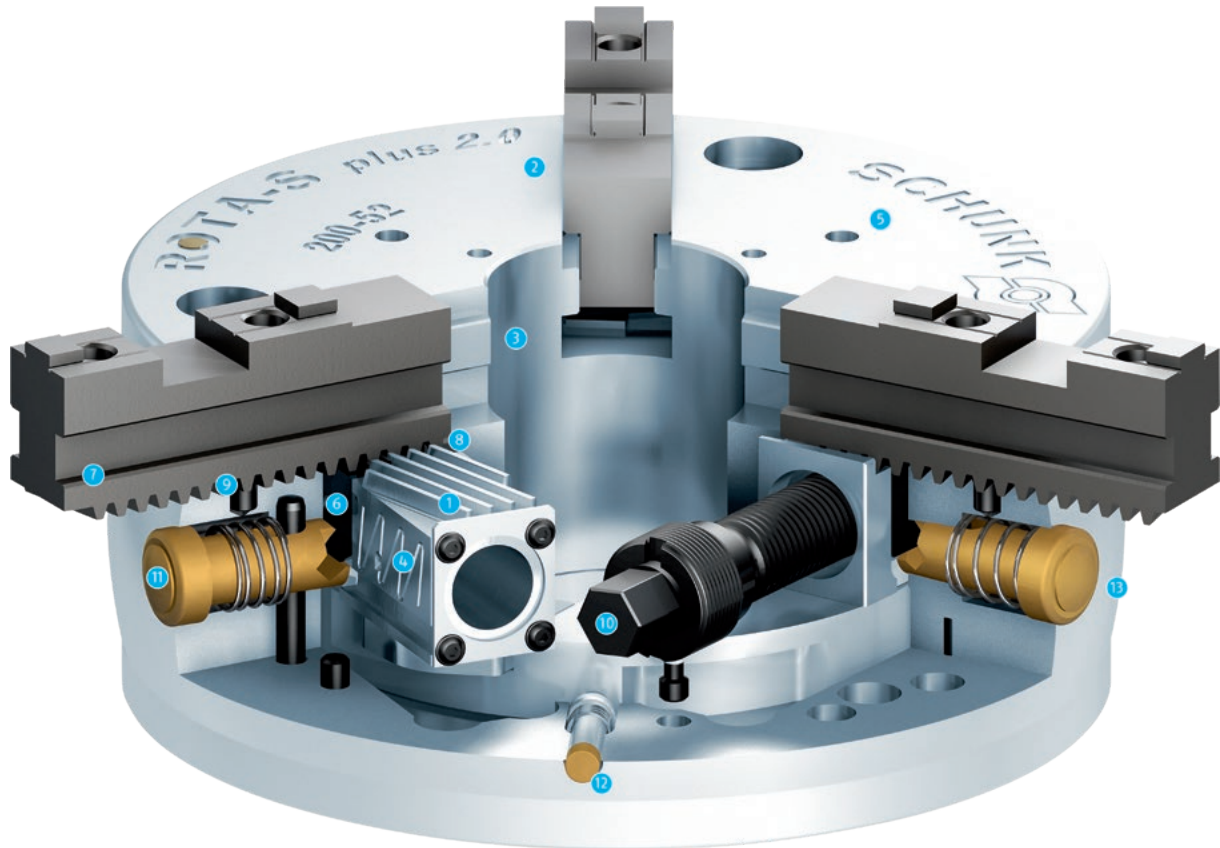
- + Convenient jaw quick-change system**
Minimizing set-up times and costs
- + High efficiency of the wedge bar system**
Process-reliable clamping due to high clamping forces
- + High jaw quick-change repeat accuracy**
No reboring of already machined jaws necessary
- + Visual safety devices**
Maximum operating safety
- + Optimized lubrication system**
Consistently high clamping forces ensured
- + Angled serrated base jaws SFG**
Compatible with the ROTA-S plus and "F" system (Forkardt)
- + All sides of the functional parts are hardened and ground**
Ensures a long service life

Technical data

Description	Max. clamping force [kN]	Max. torque [Nm]	Stroke/jaw [mm]
ROTA-S plus 2.0 160	65	80	6.5
ROTA-S plus 2.0 200	100	120	7
ROTA-S plus 2.0 250	160	210	7.7
ROTA-S plus 2.0 315	180	220	9.9
ROTA-S plus 400	230	280	12
ROTA-S plus 500	270	320	12

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.



- | | |
|---|--|
| <p>1 Wedge bar actuation system
It offers high run-out accuracies even at high speeds</p> <p>2 Hardened and extremely rigid base body
Therefore a longer service life at highest precision.
Even with maximum clamping force</p> <p>3 Large through-hole
For machining all conventional bar diameters (optionally: with enlarged through-hole)</p> <p>4 Optimized lubrication system
For a high level of efficiency</p> <p>5 Mounting thread
For workpiece stops or cover plates</p> <p>6 Jaw quick-change system
Shortest set-up times due to individual unlocking of jaws</p> <p>7 Base jaws with diagonal serration (SFG)
Compatible with the ROTA-S plus and "F" system (Forkardt)</p> | <p>8 Locking mechanism
Ensures secure intermeshing of the base jaw serration with the wedge bar serration</p> <p>9 Plunger pin
For pre-positioning the base jaw</p> <p>10 Actuation via hexagon connection
This ensures easy operation</p> <p>11 Push button for jaw change
For shortest set-up times</p> <p>12 Indicator pin
For visual stroke monitoring of the manual lathe chuck</p> <p>13 Special shaping with "edge profile for coolant run-off"
Therefore less coolant is in the spindle bearing or machine spindle</p> |
|---|--|

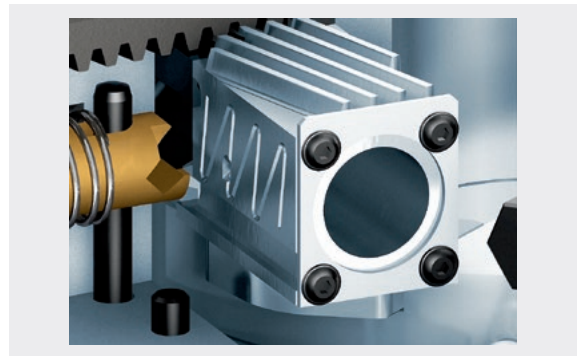
Spindel with hexagon connection

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



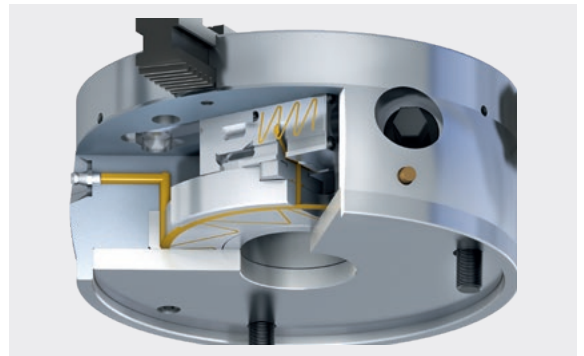
Wedge bar system with wiper

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

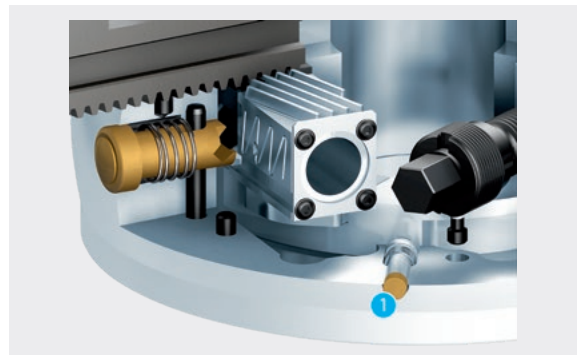
Two lubrication nipples positioned on the chuck body facilitate lubrication of all functional surfaces. The special shape of the grease grooves ensures constant lubrication of the friction surfaces. This improves the clamping behavior during operation.



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.

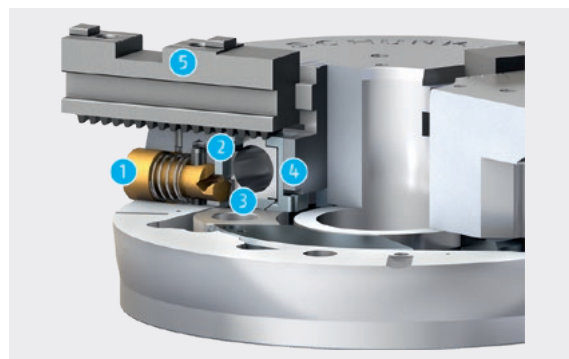
1 Indicator pin



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.

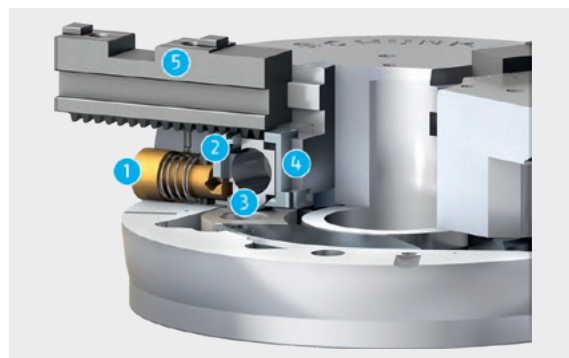
- ① Push button
- ② Slide
- ③ Traverse slide
- ④ Locking slide
- ⑤ Base jaw



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



Stationary 3-jaw chuck, manually actuated

With base plate "K" or with straight recess mount "Z"

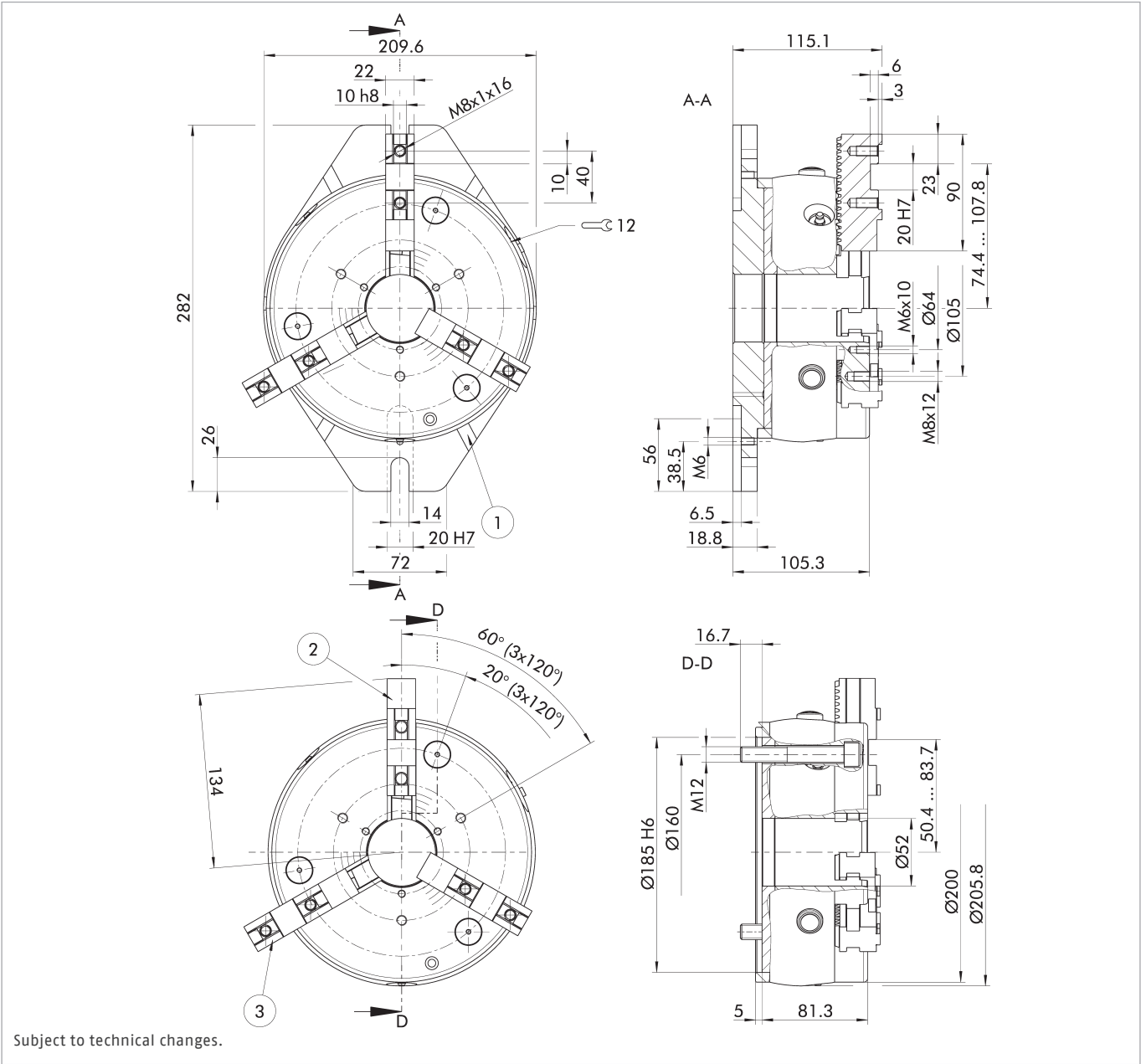
Scope of delivery

Manual lathe chuck, base jaws with tongue and groove, mounting screws, spanner wrench, SCHUNK magnets, quick guide, operating manual; without top jaws

Technical data

Description	ID	Mounting	Max. clamping force [kN]	Max. torque [Nm]	Stroke per jaw [mm]	Tooth pitch [mm]	Weight [kg]
ROTA-S plus 2.0 200 Z185-SFG	0819912	Centering recess	100	120	7	4.8	16.2
ROTA-S plus 2.0 200 K-SFG	0819922	Consol plate	100	120	7	4.8	25.5

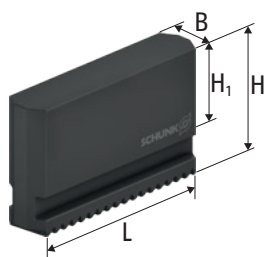
2-jaw chuck available upon request



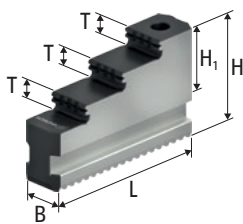
- 1 Water drainage grooves
- 2 Position of base jaws I

- 3 Position of base jaws II

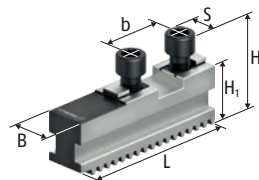
Base jaws, Hard stepped block jaws, Soft monoblock jaws with angled serration



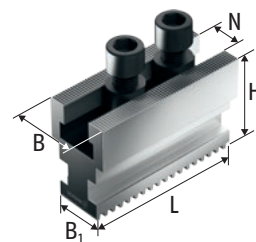
SMB
Soft monoblock jaws



STF
Hard stepped block jaws



SFG
Base jaws



STB
Base jaws

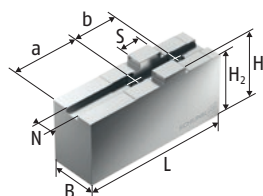
Technical data

Chuck type	Description	ID	N [mm]	S [mm]	B [mm]	B1 [mm]	H [mm]	H1 [mm]	L [mm]	T [mm]	b [mm]	Screws	m/SET [kg]
ROTA-S plus 2.0 200	SMB 200	0163101			22		60	35	94				2.6
ROTA-S plus 2.0 200	SMB-H 200	0163201			22		80	55	94				3.6
ROTA-S plus 2.0 200	SFG 200	0157101	20	10	22		35	32	90		40	M8x1	1.2
ROTA-S plus 2.0 200	SFGK 200	0157501	20	10	22		35	32	80		40	M8x1	1.1
ROTA-S plus 2.0 200	SFGL 200	0157121	20	10	22		35	32	110		40	M8x1	1.5
ROTA-S plus 2.0 200	STB 200	0156099	17		45	22	61		80			M12	3.4
ROTA-S plus 2.0 200	STF 200	0161101			22		60	35	94.2	10			1.9

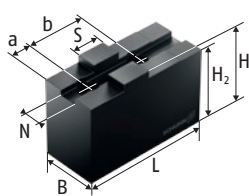
Our complete range of chuck jaws can be found online in our Chuck Jaw Quickfinder and on schunk.com

Soft top jaws

with tongue and groove



SFA-AL
Soft top jaws



SFA
Soft top jaws

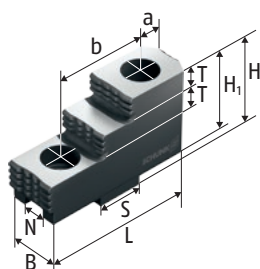
Technical data

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 2.0 200	SFA 200	0153101	10	20	22	47	43	105	40	40	M8	2.0
ROTA-S plus 2.0 200	SFA-AL 200	0172102	10	20	25	50	46	105	40	40	M8	0.9
ROTA-S plus 2.0 200	SFA 200-C1	0154100	10	20	30	55.5	51.5	100	47	40	M8	3.2
ROTA-S plus 2.0 200	SFA 200-C2	0154124	10	20	22	55.5	51.5	100	47	40	M8	2.2
ROTA-S plus 2.0 200	SFA 200-C3	0154128	10	20	40	40	36	70	17	40	M8	2.1
ROTA-S plus 2.0 200	SFA 200-C4	0154130	10	20	40	60	56	85	32	40	M8	4.0
ROTA-S plus 2.0 200	SFA 200-C5	0154132	10	20	40	80	76	95	42	40	M8	6.1

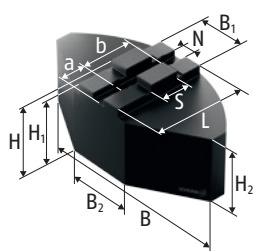
Our complete range of chuck jaws can be found online in our Chuck Jaw Quickfinder and on [schunk.com](https://www.schunk.com)

Hard stepped top jaws, Full grip jaws

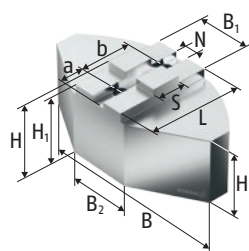
with tongue and groove



SHF
Hard stepped top jaws



SFA-SM
Full grip jaws



SFA-SA
Full grip jaws

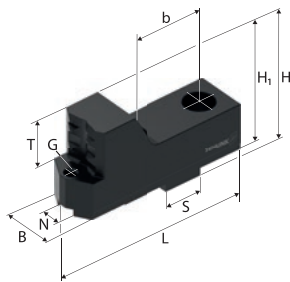
Technical data

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 2.0 200	SFA-SA 200	0174101	10	20	140	35	58	54	48	72.5		21.75	40	M8	2.4
ROTA-S plus 2.0 200	SFA-SA 201	0174105	10	20	140	35	80	76	70	72.5		21.75	40	M8	3.5
ROTA-S plus 2.0 200	SFA-SM 200	0173101	10	20	140	35	60	56	50	70		18	40	M8	9.0
ROTA-S plus 2.0 200	SFA-SM 201	0173105	10	20	140	35	80	76	70	70		18	40	M8	12.5
ROTA-S plus 2.0 200	SHF 200	0155101	10	20	22		42	38		71.7	10	16	40	M8	0.8

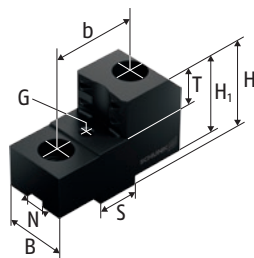
Our complete range of chuck jaws can be found online in our Chuck Jaw Quickfinder and on schunk.com

Claw jaws

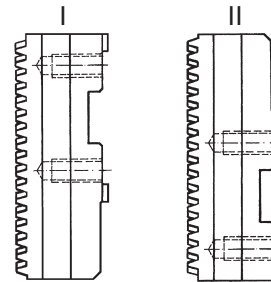
with tongue and groove



SZKA
Claw jaws



SZKA
Claw jaws



Position of base jaws

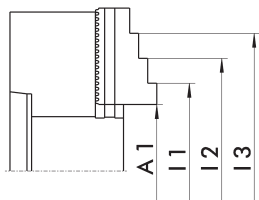
Technical data

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]	[mm]		[kg]
ROTA-S plus 2.0 200	29 – 95	264	I	SZKA 212	0139153	10	20	26	49	45	93	25	M6	40	M8	1.4
ROTA-S plus 2.0 200	104 – 170	264	I	SZKA 213	0139154	10	20	30	49	45	67	25	M6	40	M8	1.3
ROTA-S plus 2.0 200	139 – 205	270	I	SZKA 216	0139159	10	20	30	49	45	70	25	M6	40	M8	1.2
ROTA-S plus 2.0 200	25 – 47	263	II	SZKA 212	0139153	10	20	26	49	45	93	25	M6	40	M8	1.4
ROTA-S plus 2.0 200	63 – 122	263	II	SZKA 213	0139154	10	20	30	49	45	67	25	M6	40	M8	1.3
ROTA-S plus 2.0 200	98 – 157	263	II	SZKA 216	0139159	10	20	30	49	45	70	25	M6	40	M8	1.2

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

Hard stepped block jaws

with tongue and groove



Jaw position I

O.D. clamping

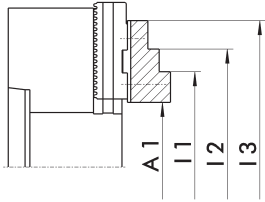
Chuck type	Description	ID	A1 [mm]	A2 [mm]	A3 [mm]	A4 [mm]
ROTA-S plus 2.0 200	STF 200	0161101	7 - 72	61 - 128	113 - 179	140 - 207

I.D. clamping

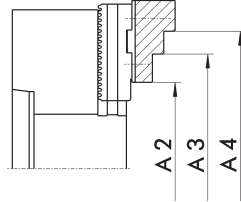
Chuck type	Description	ID	I1 [mm]	I2 [mm]	I3 [mm]
ROTA-S plus 2.0 200	STF 200	0161101	71 - 135	98 - 162	149 - 214

Hard stepped top jaws

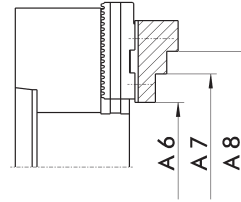
with tongue and groove



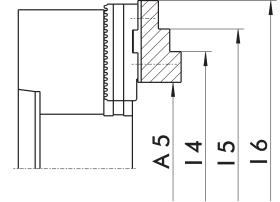
Position of base jaws II



Position of base jaws I



Position of base jaws II



Position of base jaws I

O.D. clamping

Chuck type	Description	ID	A1 [mm]	A2 [mm]	A3 [mm]	A4 [mm]	A5 [mm]	A6 [mm]	A7 [mm]	A8 [mm]
ROTA-S plus 2.0 200	SHF 200	0155101	10 - 76	59 - 124	111 - 176	138 - 204	58 - 124	16 - 77	68 - 129	95 - 156

I.D. clamping

Chuck type	Description	ID	I1 [mm]	I2 [mm]	I3 [mm]	I4 [mm]	I5 [mm]
ROTA-S plus 2.0 200	SHF 200	0155101	74 - 138	100 - 165	152 - 217	121 - 186	148 - 213

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 2.0 200	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 2.0 200	WTS-S 200	0899015

Torque wrench

Torque wrench for actuation of SCHUNK manual lathe chucks.



Suitable for	Description	ID
ROTA-S plus 2.0 200	SSH-D-1/2" 40-200	9938065

Ratchets

Ratchet for fast actuation of SCHUNK manual lathe chucks.



Suitable for	Description	ID
ROTA-S plus 2.0 200	SSH-K 1/2"-350	1151118

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

Hexagon spanner wrench adapter with ejector

For use as an attachment for a torque wrench and ratchet for actuating SCHUNK manual lathe chucks with hexagonal connection.



Suitable for	Description	ID
ROTA-S plus 2.0 200	SAS-I 1/2"-SW12	8705487

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 2.0 200	KSL 200	0814271

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 2.0 200	VST Ø52	8702867

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 2.0 200	SPS 160/200	9966639

Grease gun

Auxiliary tools for lubrication of all kinds of SCHUNK tools. 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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