



ROTA THW3 2+2

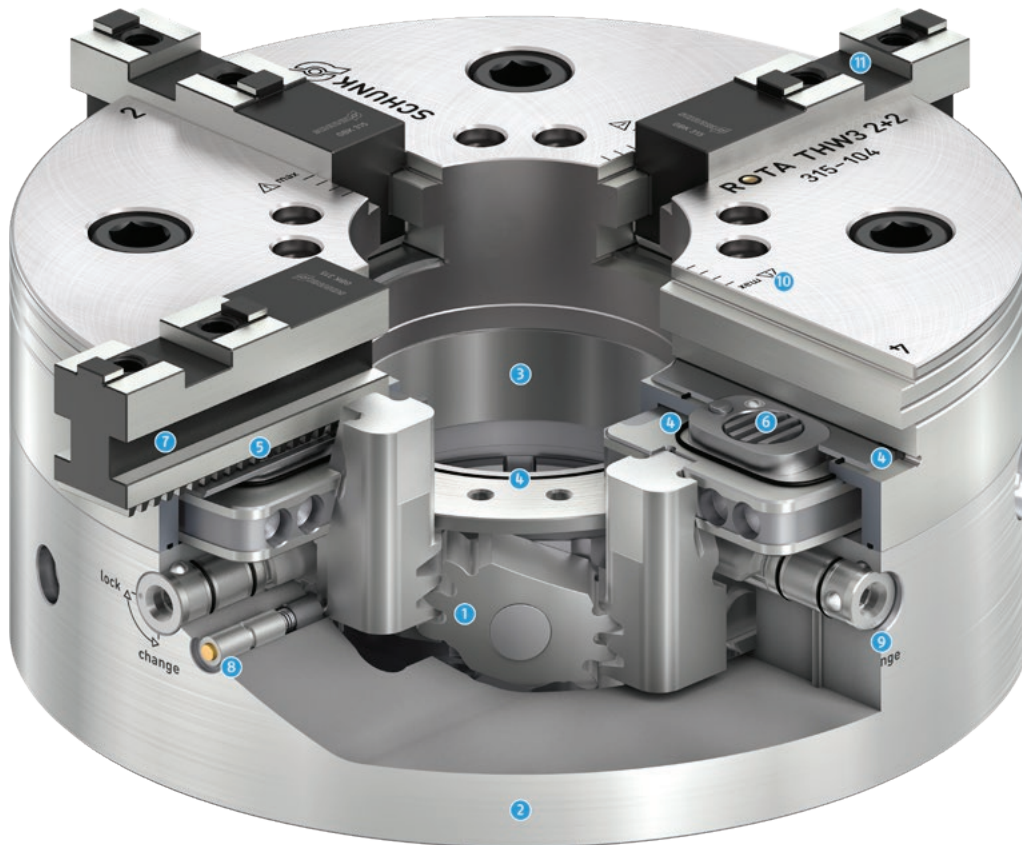
ジョークイックチェンジ付き
密閉型4爪旋盤チャック

ROTA THW3 2+2 の動作原理

ピストンに組み込まれたラック&ギア式補正メカニズムにより、ピストンの軸方向の動きがプッシュジョーへ伝達されます。対向するジョーペアが順にワークへ接触し、それぞれの平面においてワークを芯出しします。

芯出し完了後、全ジョーが均等に最大把持力でワークをクランプします。

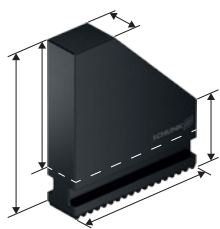
また、プッシュジョーに配置された革新的なシールシステムにより、グリースの流出を防止するとともに、把持力の経時的な低下を抑制します。



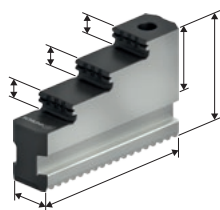
- ① 補正メカニズム
ワークを芯出し補正しながらクランプするための基本機構
- ② 焼入れ処理された高剛性ベースボディ
最大把持力下においても高精度を維持し、長寿命化を実現
- ③ 大径貫通穴
一般的な標準素材径すべての加工に対応
- ④ 特許取得済みシールシステム
把持力を長期間にわたり安定して維持
- ⑤ ジョークイックチェンジシステム
ジョーを個別に解除でき、段取り時間を最短化
- ⑥ ロック機構
プッシュジョーによりベースジョーの安全な位置決めを実現し、チャック本体のセレーションとの確実な噛み合いを実現
- ⑦ ストレートセレーション仕様ベースジョー (GBK)
ROTA THW3、ROTA THW plus、および System 「R」
(Reishauer) に対応
- ⑧ インジケータピン
ジョーストロークの使用可能範囲を視覚的に表示
- ⑨ ジョーロック確認機構
ドライバがベースジョーに正しく噛み合っている場合のみ、
ジョー交換レンチを取り外すことが可能
- ⑩ 最大ジョー位置表示
誤操作を防止し、ガイド部の過負荷を防止
- ⑪ 標準ジョーインターフェース
SCHUNK製標準トップジョーの使用が可能

DM D G S GEORFMD B PR REORFMD Z

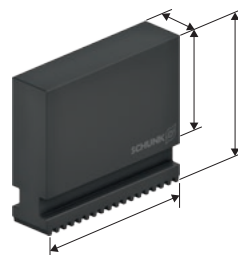
with straight serration



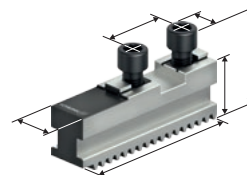
Soft monoblock jaws



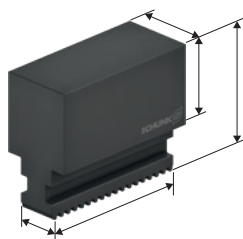
GST Base jaws



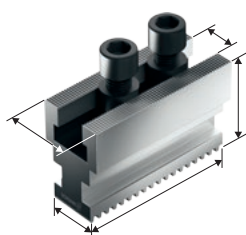
Soft monoblock jaws



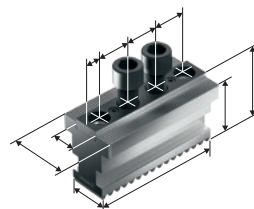
Base jaws



Soft monoblock jaws



STB-G Base jaws

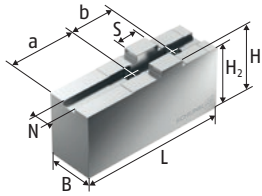


Base jaws

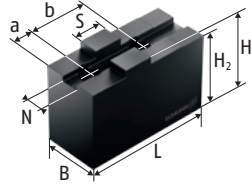
U

ROTH	TYPE	ID	1	S	%	%	H	+	←	L	T	a	E	BZ	Ø
Ø	Ø	Ø			<		Ø	>		B					A
Ø	Ø	Ø			>	<	Ø	B		B					Ø
Ø	Ø	Ø			<		B	Ø		B					?
Ø	Ø	Ø			<		B	Ø	Ø	B					A
Ø	%	Ø	x	:	<		Ø	Ø		B			>	B	:
Ø	%	Ø	x	:	<		Ø	Ø		?			>	B	x
Ø	%	Ø	x	:	<		Ø	Ø		B			>	B	:
Ø	Ø	Ø	A		?	<	Ø			B				Ø	=
Ø	Ø	Ø		>	>	<	Ø	A		Ø		:	?	Ø	Ø
Ø	Ø	Ø			<		?	Ø		Ø	B				Ø
Ø	Ø	Ø			^		C	Ø		x					Ø
Ø	Ø	Ø			Ø	^	C	?		x					Ø
Ø	Ø	Ø			^		?	:		x					Ø
Ø	Ø	Ø			^		?	:	?	x					C
Ø	%	Ø	x	x	^		Ø	v		?			>	Ø	=
Ø	%	Ø	x	x	^		Ø	v		A			>	Ø	?
Ø	%	Ø	x	x	^		Ø	v		?			>	Ø	=
Ø	Ø	Ø	x		?	^	Ø			?				Ø	?
Ø	Ø	Ø		x	?	^	B	Ø	:		?		B	Ø	?
Ø	Ø	Ø		B	?	^	Ø	v		x		?	?	Ø	Ø
Ø	Ø	Ø		x	?	^	Ø	B	?	?		?	?	Ø	?
Ø	Ø	Ø			^		Ø	^		Ø	:				?

Soft top jaws
with tongue and groove



SFA-AL
Soft top jaws



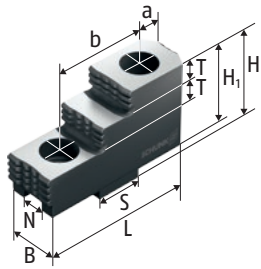
SFA
Soft top jaws

技術データ

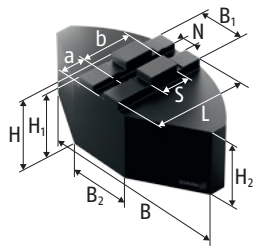
Chuck type	Description	ID	N [mm]	S [mm]	B [mm]	H [mm]	H2 [mm]	L [mm]	a [mm]	b [mm]	Screws	m/SET [kg]
ROTA THW3 2+2 230-66	SFA 200	0153101	10	20	22	47	43	105	25	40	M8	2.0
ROTA THW3 2+2 230-66	SFA-AL 200	0172102	10	20	25	50	46	105	40	40	M8	0.9
ROTA THW3 2+2 230-66	SFA 200-C1	0154100	10	20	30	55.5	51.5	100	13	40	M8	3.2
ROTA THW3 2+2 230-66	SFA 200-C2	0154124	10	20	22	55.5	51.5	100	13	40	M8	2.2
ROTA THW3 2+2 230-66	SFA 200-C3	0154128	10	20	40	40	36	70	13	40	M8	2.1
ROTA THW3 2+2 230-66	SFA 200-C4	0154130	10	20	40	60	56	85	13	40	M8	4.0
ROTA THW3 2+2 230-66	SFA 200-C5	0154132	10	20	40	80	76	95	13	40	M8	6.1
ROTA THW3 2+2 315-104	SFA 250	0153102	12	20	30	55.5	50.5	125	25	40	M12	3.7
ROTA THW3 2+2 315-104	SFA-AL 250	0172103	12	20	40	60	55	125	60	40	M12	2.1
ROTA THW3 2+2 315-104	SFA 250-C1	0154101	12	20	40	60	55	90	16	40	M12	3.9
ROTA THW3 2+2 315-104	SFA 250-C2	0154102	12	20	40	60	55	125	16	40	M12	5.6
ROTA THW3 2+2 315-104	SFA 250-C3	0154103	12	20	40	80	75	125	16	40	M12	7.7
ROTA THW3 2+2 315-104	SFA 250-C4	0154104	12	20	40	100	95	125	69	40	M12	9.8
ROTA THW3 2+2 315-104	SFA 250-C5	0154105	12	20	40	120	115	125	16	40	M12	11.8
ROTA THW3 2+2 315-104	SFA 250-C6	0154106	12	20	60	60	55	90	16	40	M12	6.0
ROTA THW3 2+2 315-104	SFA 250-C7	0154107	12	20	80	60	55	90	16	40	M12	8.5
ROTA THW3 2+2 315-104	SFA 250-C8	0154134	12	20	80	100	95	125	16	40	M12	20.6

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

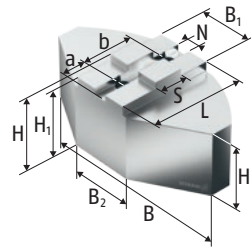
Hard stepped top jaws, Full grip jaws with tongue and groove



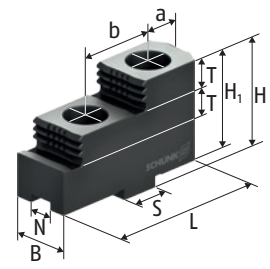
SHF
Hard stepped top jaws



SFA-SM
Full grip jaws



SFA-SA
Full grip jaws



SHF
Hard stepped top jaws

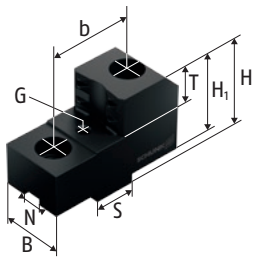
技術データ

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 THW3 2+2 230-66	SFA-SA 200	0174101	10	20	140	35	58	54	48	72.5		21.75	40	M8	2.4
ROTA THW3 2+2 230-66	SFA-SA 201	0174105	10	20	140	35	80	76	70	72.5		21.75	40	M8	3.5
ROTA THW3 2+2 230-66	SFA-SM 200	0173101	10	20	140	35	60	56	50	70		18	40	M8	9.0
ROTA THW3 2+2 230-66	SFA-SM 201	0173105	10	20	140	35	80	76	70	70		18	40	M8	12.5
ROTA THW3 2+2 230-66	SHF 200	0155101	10	20	22		42	38		71.7	10	16	40	M8	0.8
ROTA THW3 2+2 315-104	SFA-SA 250	0174102	12	20	180	40	58	53	43	87.5		33.75	40	M12	3.4
ROTA THW3 2+2 315-104	SFA-SA 251	0174106	12	20	180	40	80	75	65	87.5		33.75	40	M12	5.0
ROTA THW3 2+2 315-104	SFA-SM 250	0173102	12	20	180	40	60	55	45	90		34.5	40	M12	12.8
ROTA THW3 2+2 315-104	SFA-SM 251	0173106	12	20	180	40	80	75	65	90		35	40	M12	18.9
ROTA THW3 2+2 315-104	SHF 250	0155102	12	20	30		55	50		90	14	21.1	40	M12	1.9

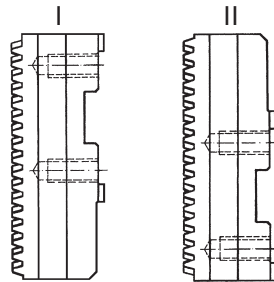
Our complete range of chuck jaws can be found online in our Chuck Jaw Quickfinder and on schunk.com

Claw jaws

with tongue and groove



SZKA
Claw jaws



Position of base jaws

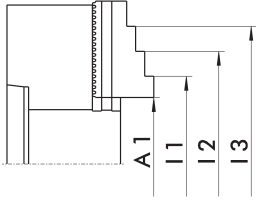
技術データ

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 THW3 2+2 230-66	39 - 106	274	I	SZKA 212	0139153	10	20	26	49	45	93	25	M6	40	M8	1.4
ROTA THW3 2+2 230-66	103 - 181	275	I	SZKA 213	0139154	10	20	30	49	45	67	25	M6	40	M8	1.3
ROTA THW3 2+2 230-66	138 - 216	280.4	I	SZKA 216	0139159	10	20	30	49	45	70	25	M6	40	M8	1.2
ROTA THW3 2+2 230-66	39 - 68	274	II	SZKA 212	0139153	10	20	26	49	45	93	25	M6	40	M8	1.4
ROTA THW3 2+2 230-66	75 - 143	275	II	SZKA 213	0139154	10	20	30	49	45	67	25	M6	40	M8	1.3
ROTA THW3 2+2 230-66	110 - 178	274	II	SZKA 216	0139159	10	20	30	49	45	70	25	M6	40	M8	1.2
ROTA THW3 2+2 315-104	116 - 226	380	I	SZKA 263	0139160	12	20	30	55	50	85	25	M6	40	M12	1.5
ROTA THW3 2+2 315-104	174 - 284	380.9	I	SZKA 266	0139163	12	20	40	55	50	74	25	M6	40	M12	1.9
ROTA THW3 2+2 315-104	207 - 318	395	I	SZKA 268	0139165	12	20	40	55	50	83	25	M6	40	M12	2.2
ROTA THW3 2+2 315-104	43 - 141	376	II	SZKA 263	0139160	12	20	30	55	50	85	25	M6	40	M12	1.5
ROTA THW3 2+2 315-104	89 - 198	376.3	II	SZKA 266	0139163	12	20	40	55	50	74	25	M6	40	M12	1.9
ROTA THW3 2+2 315-104	133 - 232	376	II	SZKA 268	0139165	12	20	40	55	50	83	25	M6	40	M12	2.2

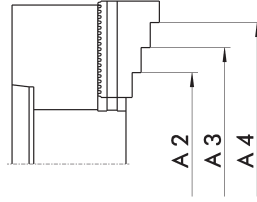
Our complete range of chuck jaws can be found online in our Chuck Jaw Quickfinder and on schunk.com

Hard stepped block jaws

with tongue and groove



Jaw position I



Jaw position II

O.D. clamping

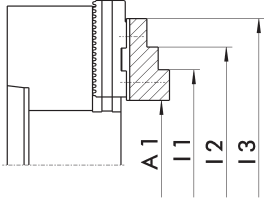
Chuck type	Description	ID	A1 [mm]	A2 [mm]	A3 [mm]	A4 [mm]
ROTA THW3 2+2 230-66	GST 201	0162106	18 - 93	45 - 120	93 - 168	141 - 216
ROTA THW3 2+2 315-104	GST 315	0162102	20 - 130	89 - 196	145 - 252	201 - 308

I.D. clamping

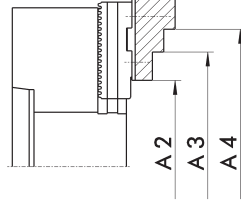
Chuck type	Description	ID	I1 [mm]	I2 [mm]	I3 [mm]
ROTA THW3 2+2 230-66	GST 201	0162106	66 - 140	113 - 188	161 - 236
ROTA THW3 2+2 315-104	GST 315	0162102	81 - 188	135 - 244	191 - 300

Hard stepped top jaws

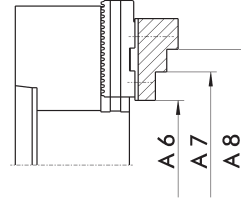
with tongue and groove



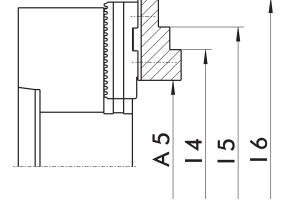
Position of base jaws II



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 THW3 2+2 230-66	SHF 200	0155101	18 - 97	57 - 135	109 - 188	136 - 215	56 - 135	25 - 98	77 - 150	104 - 177
ROTA THW3 2+2 315-104	SHF 250	0155102	24 - 132		93 - 224	173 - 304	89 - 220		52 - 136	132 - 216

I.D. clamping

Chuck type	Description	ID	I1 [mm]	I2 [mm]	I3 [mm]	I4 [mm]	I5 [mm]	I6 [mm]
ROTA THW3 2+2 230-66	SHF 200	0155101	84 - 161	110 - 188	162 - 240	121 - 199	148 - 226	200 - 279
ROTA THW3 2+2 315-104	SHF 250	0155102	106 - 213	186 - 294		170 - 301	250 - 382	

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 THW3 2+2 230-66		
ROTA THW3 2+2 315-104	IFT Set	1404235

Measuring head adapter for 4-jaw clamping

For use as an extension of the IFT measuring head for measuring the jaw clamping force of 4-jaw chucks.



Suitable for	Description	ID
ROTA THW3 2+2 230-66		
ROTA THW3 2+2 315-104	IFT MA4	1452686

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

Jaw change wrench

Wrench for fast change of the jaws for power lathe chucks with jaw quick-change system.



Suitable for	Description	ID
ROTA THW3 2+2 230-66	SSH-A SW6-128	8705452
ROTA THW3 2+2 315-104	SSH-A SW8-148	8703298

Mounting wrench

For power lathe chucks with turnable threaded rings as wrench design with driving pins that snap into the threaded ring.



Suitable for	Description	ID
ROTA THW3 2+2 315-104	SSH-MN Ø104-228	1375097

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