ROTA THW3

Completely sealed Jaw Quick-change Chuck with high Clamping Forces

ROTA THW3

General information

- Completely sealed jaw quick-change chuck for a broad number of application possibilities
- Permanent grease lubrication for consistently high clamping forces and longer maintenance intervals
- Convenient jaw quick-change system for minimizing set-up times
- New drive system in ring piston design and pushing jaws
- Modular center sleeve system
- Base and top jaws one to one compatible to ROTA THW plus and ROTA THW chucks
- New generation for all existing chuck sizes

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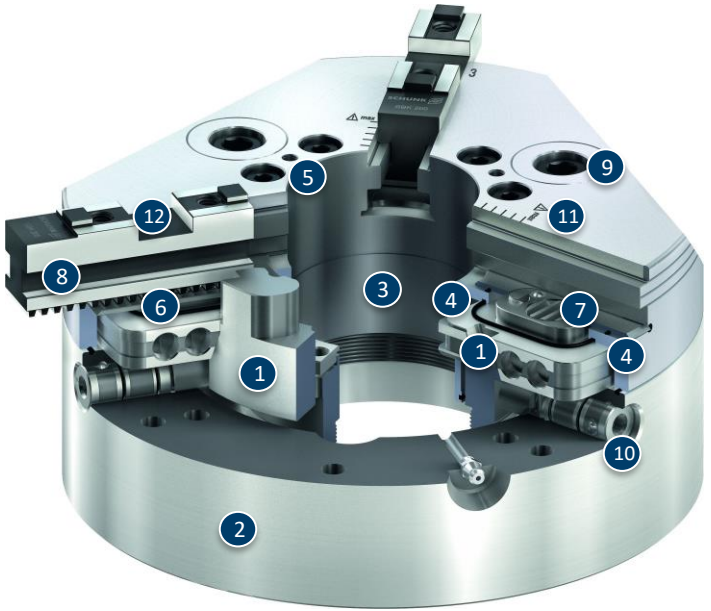
Functional diagram

1. Wedge hook drive in ring piston design
2. Hardened and extremely rigid base body
3. Large through-hole
4. Patented sealing system
5. Mounting threads for modular center sleeve
6. Jaw quick-change system
7. Locking mechanism
8. Base jaws with straight serration (GBK)
9. Inlays near the fastening holes to increase the tightness and rigidity of the chuck
10. Reliable jaw lock
11. Display of maximum jaw position
12. Standard jaw interface



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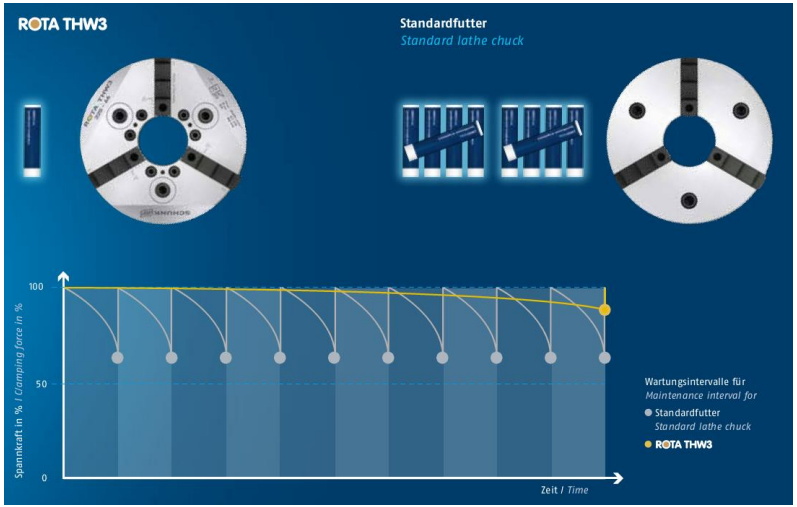
20 times longer maintenance interval with constantly high clamping forces

Due to the innovative sealing system, the new ROTA THW3 jaw quick-change chuck belongs to the high-quality SCHUNK PROTACT products. It prevents grease from being rinsed out and a gradual loss of clamping force. Your benefits:

- Sealed and therefore low-maintenance
- Constantly high clamping forces
- 20 times lower lubricant consumption
- Due to lower contamination, the cooling lubricant does not have to be changed so frequently
- No ingress of chips or dirt into the chuck body
- Significantly longer service life
- Cost savings and resource conservation



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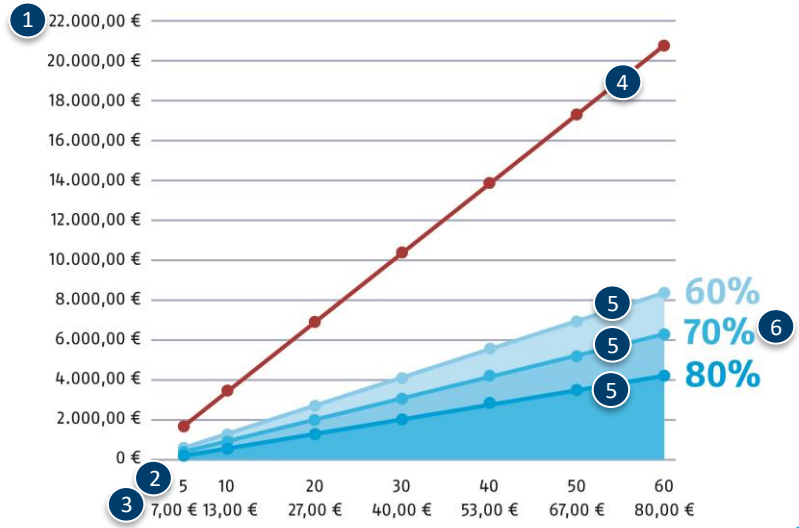
Saving set-up costs

The jaw quick-change system is the ideal clamping tool for clamping tasks even up from batch size 1. Ideally the set-up times can be reduced – depending on the numer of jaw changes – by up to 80% in comparison to power lathe chucks with fine serration.

1. Set-up costs (in Euro per year)
2. Set-up time (in minutes per day)
3. Set-up costs (in Euro per day)
4. Set-up costs (per year without jaw quick-change)
5. Set-up costs (per year with jaws quick-change)
6. Savings potential (depending on the set-up rate)



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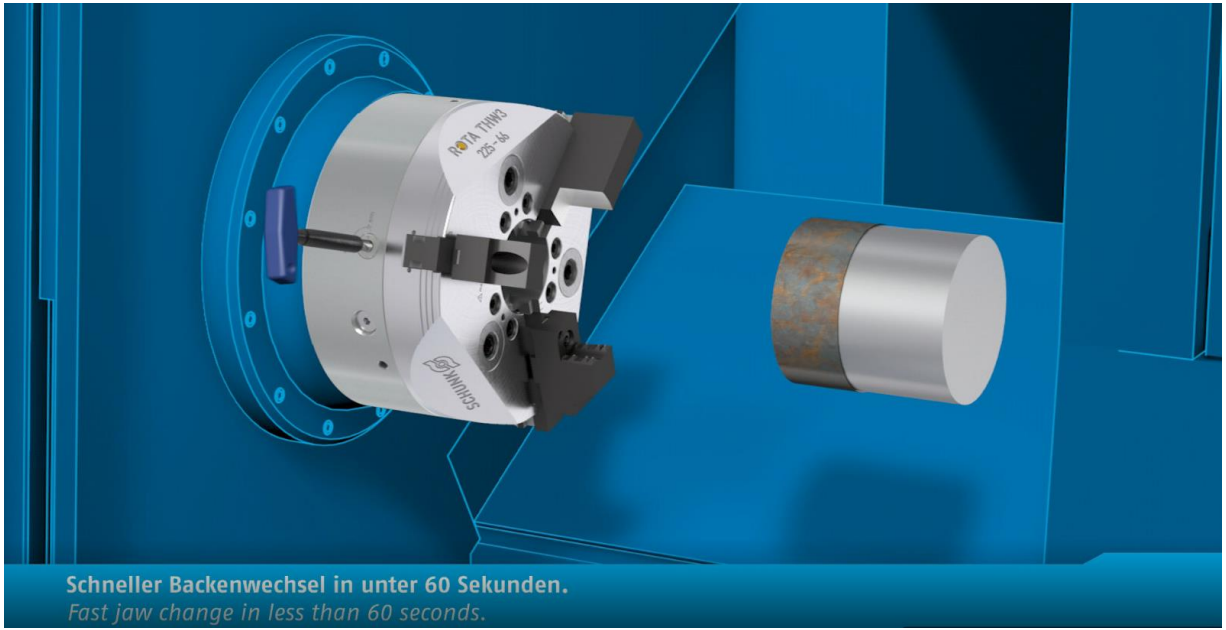
Functional movie

YouTube



ROTA THW3

Highlights

Quick jaw change

Turning the jaw quick-change wrench by 90° pulls the driver out of the base jaw‘s serration. The complete jaw set can be exchanged in less than a minute.

High repeat accuracy

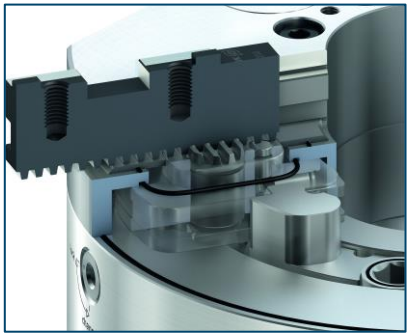
The dual-guided piston, the direct power transmission and the system consisting of the pusher jaw and integrated driver result in an extremely rigid system. This is evidenced by the extremely high repeat accuracy of the chuck.

High run-out accuracy

Chuck jaws only have to be turned once. The repeat accuracy of < 0.02 mm ensures permanently high concentricitoes on the workpiece.

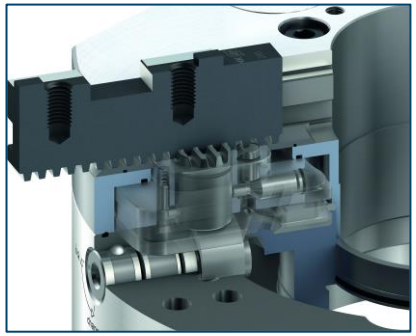
ROTA THW3

Highlights



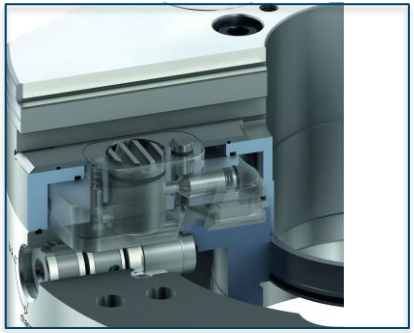
Patented sealing system

Six seals completely seal the ROTA THW3. This means that even difficult materials can be machined.



Consistent clamping forces

The sealing system also prevents grease escaping from the chuck during machining. This makes it possible to achieve unprecedented consistent clamping forces for quick-change jaw chucks.



Patented jaw locking

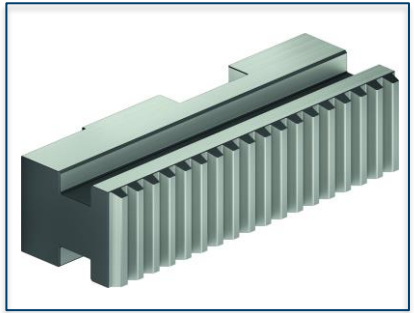
The base jaw of the ROTA THW3 is fixed in the chuck by a driver. Pulling the driver back into the pusher jaw releases the base jaw for the jaw change. This system also completely seals the release-mechanism.

ROTA THW3

Highlights

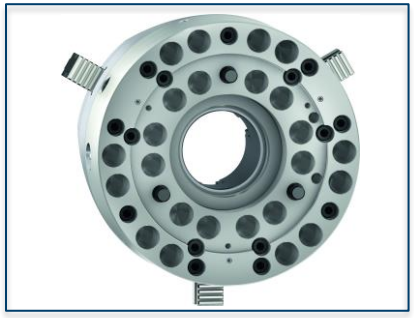
Jaw change

In opened position the jaws can be adjusted or removed in seconds with the release key.



Jaws 100% compatible

The base and top jaws of the ROTA THW3 are 100% compatible with the predecessors ROTA THW plus and ROTA THW.



Weight-optimized chuck

Weight-reducing bore holes and bevels on the chuck body achieve optimum interia behavior. In addition, the accessibility of the tool to the workpiece is significantly improved.

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Technical data

	Max. RPM	Max. Clamping Force	Max. Actuation Force	Stroke/Jaw	Piston Stroke	Tooth Pitch	Weight	Available from
	[min^{-1}]	[kN]	[kN]	[mm]	[mm]	[mm]	[kg]	[approx.]
ROTA THW3 200-52	6.000	64	35	6,7	17,5	4,712	19	April 2021
ROTA THW3 225-66	5.400	82	41	7,4	21	4,712	25	April 2021
ROTA THW3 260-81	4.000	115	59	8,2	24	5,498	43	April 2021
ROTA THW3 315-104	3.600	150	80	8,6	25	5,498	58	April 2021
ROTA THW3 400-128	3.000	240	128	8,6	25	5,498	103	April 2021
ROTA THW3 500-165	2.200	240	128	10,5	30	7	200	April 2021
ROTA THW3 630-165	1.700	240	128	10,5	30	7	300	April 2021

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