

ROTA NCO

Power Lathe Chucks without Through-hole

Superior Clamping and Gripping



Product overview



Gripping Systems

Clamping Technology



Chuck Jaws



Stationary Workholding



Lathe Chucks



Toolholders



Hydraulic Expansion Technology



Manual Lathe Chucks



Power Lathe Chucks with Jaw Quick-change System



Power Lathe Chucks with Through-hole



Power Lathe Chucks without Through-hole



Pneumatic Power Chucks



Steady Rests

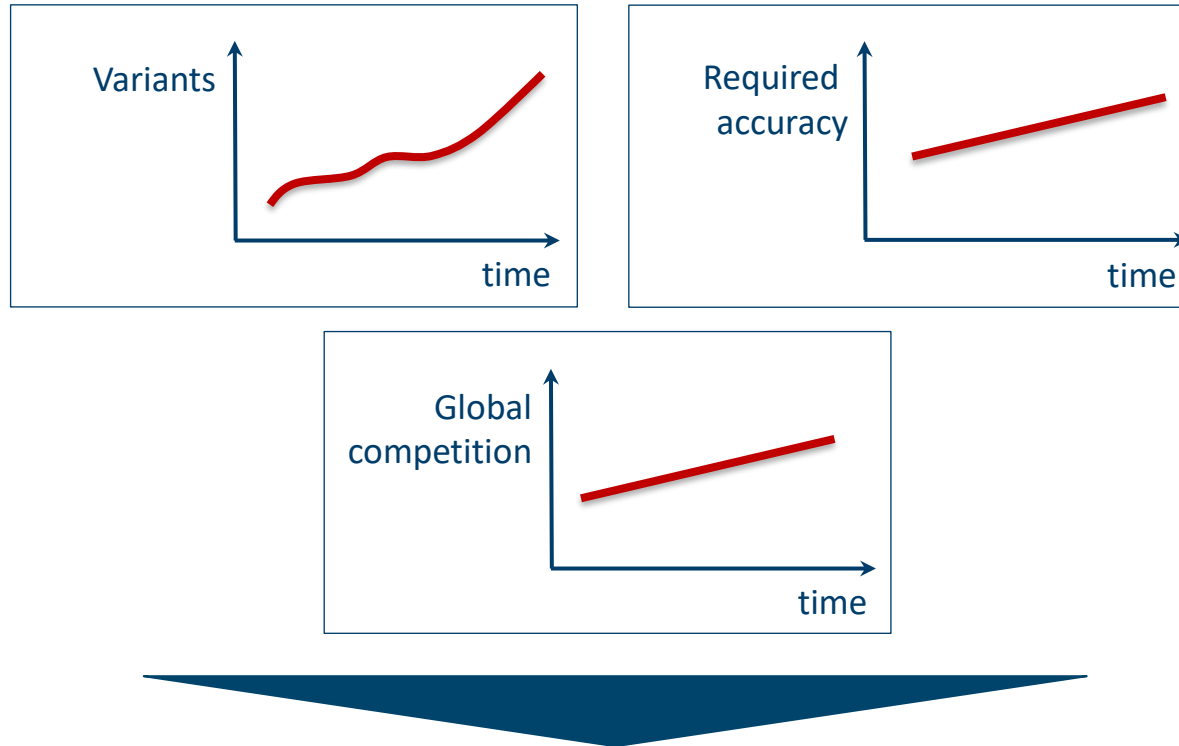


Quick-change Systems



Customized Solutions

Challenges

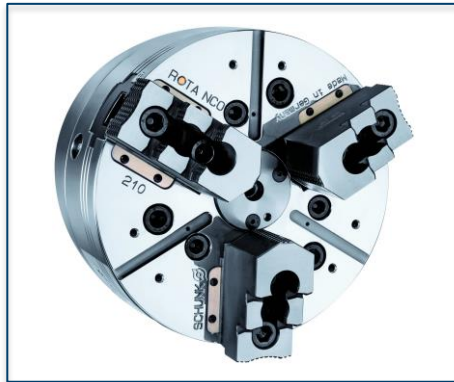


Requirements on the clamping fixture: efficiency, flexibility and...

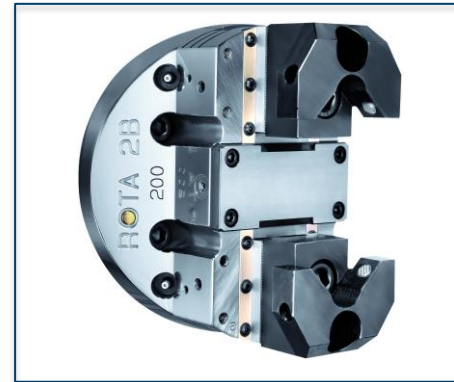
ROTA overview

Power Lathe Chucks without Through-hole

ROTA NCO



ROTA 2B



ROTA NCR/ NCR-A

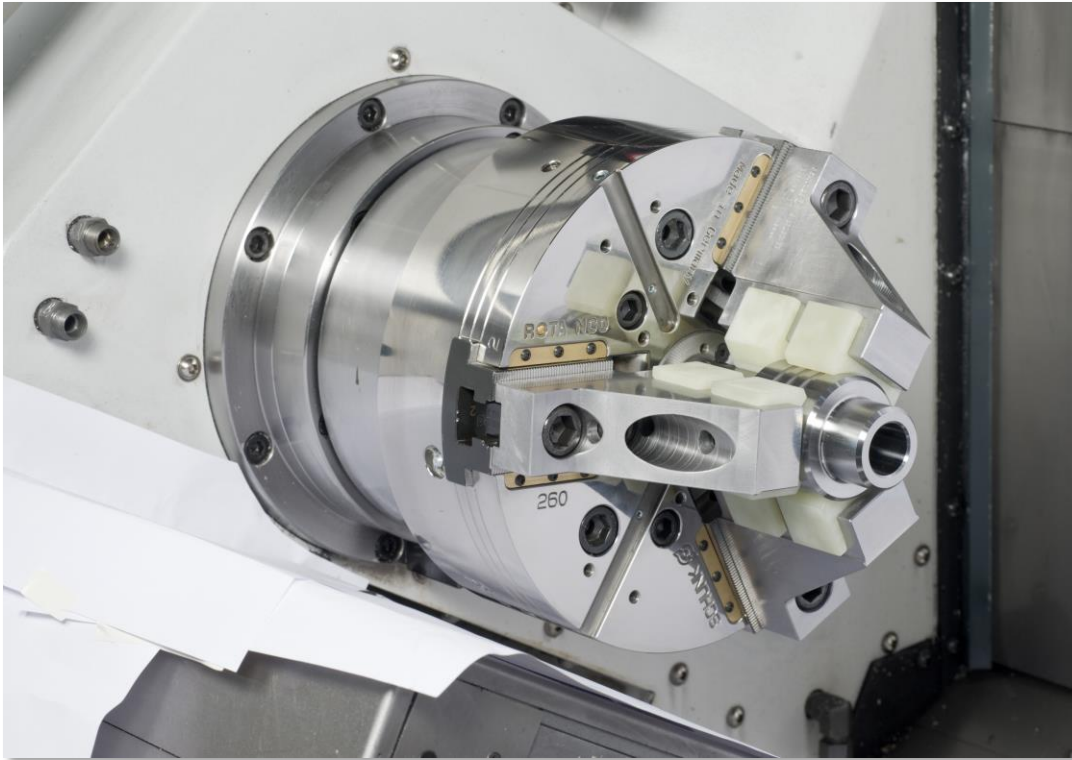


ROTA NCS 3/ NCS 6



ROTA NCO

Example of application



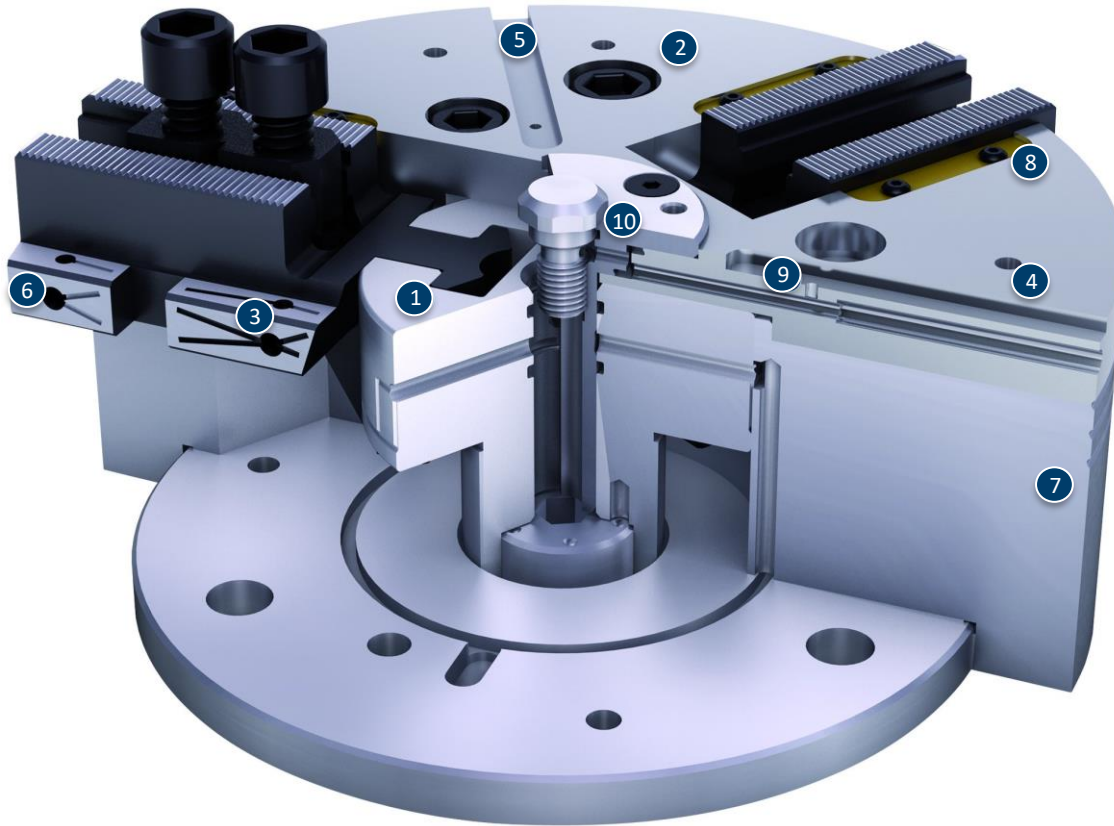
Clamping device:

ROTA NCO 250 with
Quentes special jaws.

Features/Application:

O.D. clamping of finished parts in
OP20. Due to the high friction
coefficient of the Quentes jaws, low
clamping force is needed. No
clamping marks at the surface of the
workpieces.

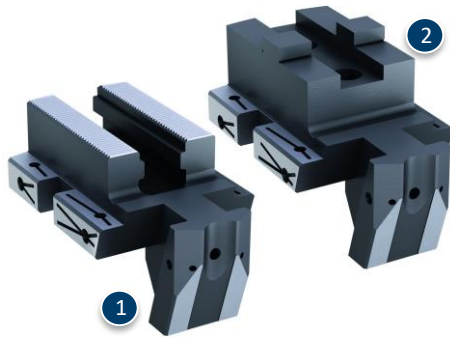
ROTA NCO



- ① Wedge hook drive
- ② Hardened and extremely rigid base body
- ③ Optimized lubrication system
- ④ Mounting threads
- ⑤ Additional slot guidance on the chuck face
- ⑥ Long jaw guidance
- ⑦ Low height
- ⑧ Wiper strips
- ⑨ Integrated air supply with mounting holes
- ⑩ Central media feed-through

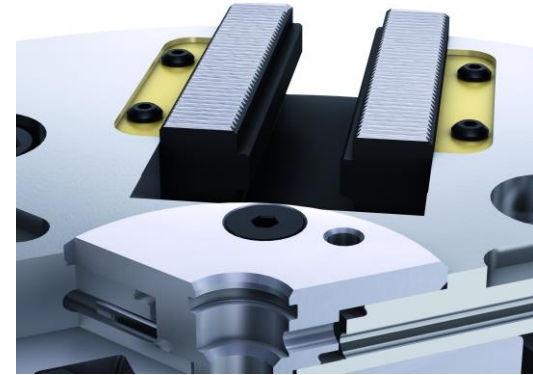
ROTA NCO

Standardized jaw interfaces

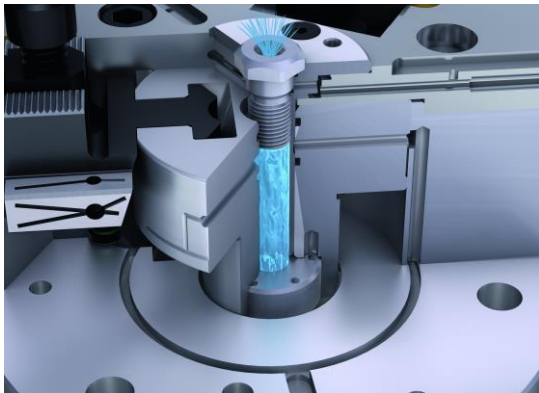


- 1 Fine serration
- 2 Metric tongue and groove

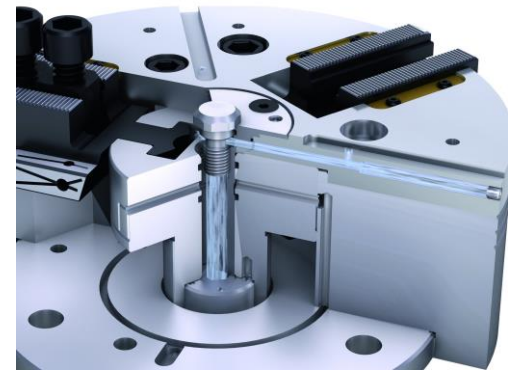
Adjustable brass wiper bars



Modification coolant supply



Modification air control



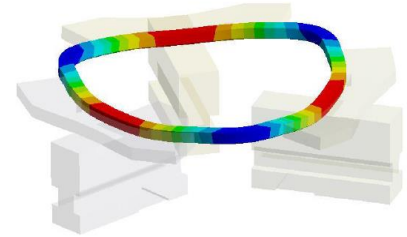
Variants ROTA NCO

Technical Data	Max. RPM [min ⁻¹]	Max. Clamping force [kN]	Max. actuating force [kN]	Stroke/jaw [mm]	Piston stroke [mm]
ROTA NCO 165	6000	72	30	6.4	24
ROTA NCO 210	5000	95	42	9	27
ROTA NCO 260	4500	150	62	10	30
ROTA NCO 315	3600	190	90	13	40
ROTA NCO 400	2500	270	120	15	45
ROTA NCO 500	2000	330	140	15	45
ROTA NCO 630	1600	330	140	15	45
ROTA NCO 800	1000	330	140	16	50
ROTA NCO 1000	700	410	180	16	50

SCHUNK Services

Engineering

- Dimensioning of special plates designed to the manufacturing specifications
- Development of special solutions together with the customer
- FEM analysis for critical components



Testing

- Endurance tests with all new developments
- Abrasion checking
- Measurement of accuracy



Service

- Initial operation of customer's solution
- Inspection and maintenance
- Repairs



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