

# OPUS-V

Closed-Center Cylinders

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



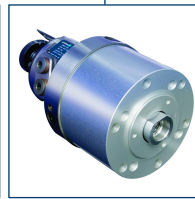
Power Lathe Chucks with Through-hole



Power Lathe Chucks without Through-hole



Pneumatic Power Chucks



Clamping Cylinder



Steady Rests



Quick-change Systems



Customized Solutions

# OPUS



- Integrated check valve
- Compact design
- Large through-bore for open-center hydraulic cylinder OPUS-H
- Long actuating stroke
- Integrated control cam for stroke monitoring

# OPUS

**OPUS-V Closed-center Cylinder**



**OPUS-H3 Open-center Cylinder**



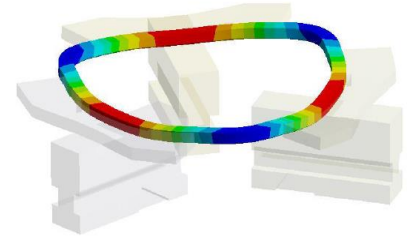
# Variants of OPUS-V

Technical Data	Max. RPM [min <sup>-1</sup> ]	Piston Surface [cm <sup>2</sup> ]	Piston stroke [mm]	Max. pressure [bar]	Pull force at 40 bar [kN]	Oil leakage rate [l/min]	Moment of inertia [kgm <sup>2</sup> ]
OPUS-V 70	7000	28	40	70	11	1.5	0.012
OPUS-V 85	7000	48	32	70	19	1.5	0.012
OPUS-V 100	7000	66	32	70	26	1.5	0.016
OPUS-V 125	6000	103	40	70	41	1.5	0.04
OPUS-V 150	6000	157	40	70	62	1.5	0.08
OPUS-V 175	5000	212	45	70	84	1.5	0.12
OPUS-V 200	4000	280	50	70	112	2	0.32
OPUS-V 225	2000	457	60	50	180	2	0.92

# 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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