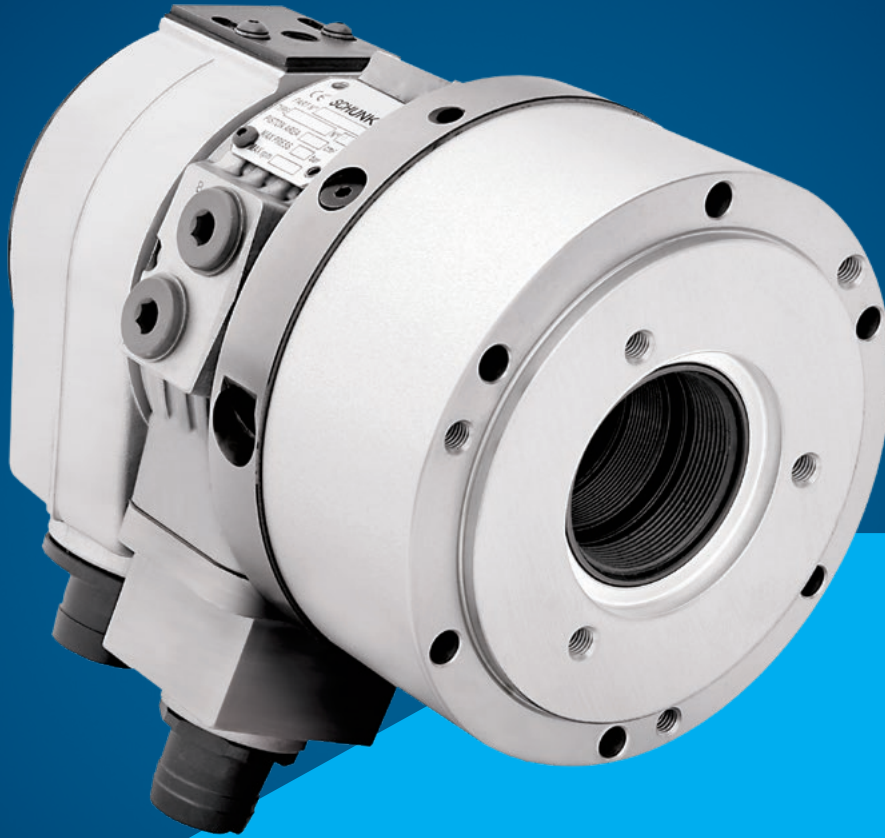


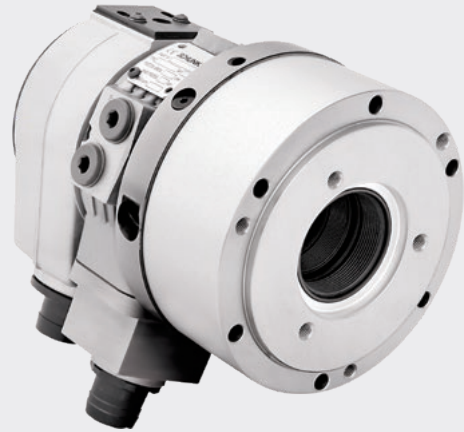


## **OPUS-H3**

**Hydraulically actuated open-center cylinder**

# Open-center cylinders for hydraulically operated power lathe chucks with large through-hole, wide adjustment range and shortest switching times.

The clamping cylinder OPUS-H3 is the ideal standard cylinder with a large through-hole for all conventional power lathe chucks. The clamping cylinder is designed for high rotational speeds and can be operated at a hydraulic pressure of up to 45 bar. Two proximity switches allow easy adjustment and monitoring of the clamping stroke via an integrated control cam.



## Advantages – Your benefits

- + Integrated check valve**  
Temporarily maintains the pressure in the hydraulic cylinder in case of pipe failure
- + Compact design**  
Easy integration in existing lathes
- + Large through-hole**  
Ideal for machining of rods and feeding material from the back
- + Long actuating stroke**  
Suitable for actuation of all standard power chucks
- + Integrated control cam for stroke monitoring**  
Two proximity switches allow easy adjustment and monitoring of the clamping stroke

## Technical data

| Description     | Max. rotational speed<br>[min <sup>-1</sup> ] | Piston stroke<br>[mm] | Through-hole<br>[mm] | Max. pressure<br>[bar] | Pull force at 45 bar<br>[kN] |
|-----------------|-----------------------------------------------|-----------------------|----------------------|------------------------|------------------------------|
| OPUS-H3 70-37   | 8000                                          | 26                    | 37.5                 | 45                     | 31                           |
| OPUS-H3 102-46  | 7000                                          | 25                    | 46.5                 | 45                     | 46                           |
| OPUS-H3 130-52  | 6300                                          | 25                    | 52.5                 | 45                     | 58                           |
| OPUS-H3 150-67  | 5500                                          | 29                    | 67.5                 | 45                     | 68                           |
| OPUS-H3 170-77  | 5000                                          | 29                    | 77                   | 45                     | 76                           |
| OPUS-H3 200-86  | 4500                                          | 34                    | 86                   | 45                     | 88                           |
| OPUS-H3 225-95  | 4000                                          | 34                    | 95                   | 45                     | 100                          |
| OPUS-H3 250-110 | 3600                                          | 35                    | 110.5                | 45                     | 110                          |
| OPUS-H3 320-127 | 3200                                          | 40                    | 127.5                | 45                     | 144                          |



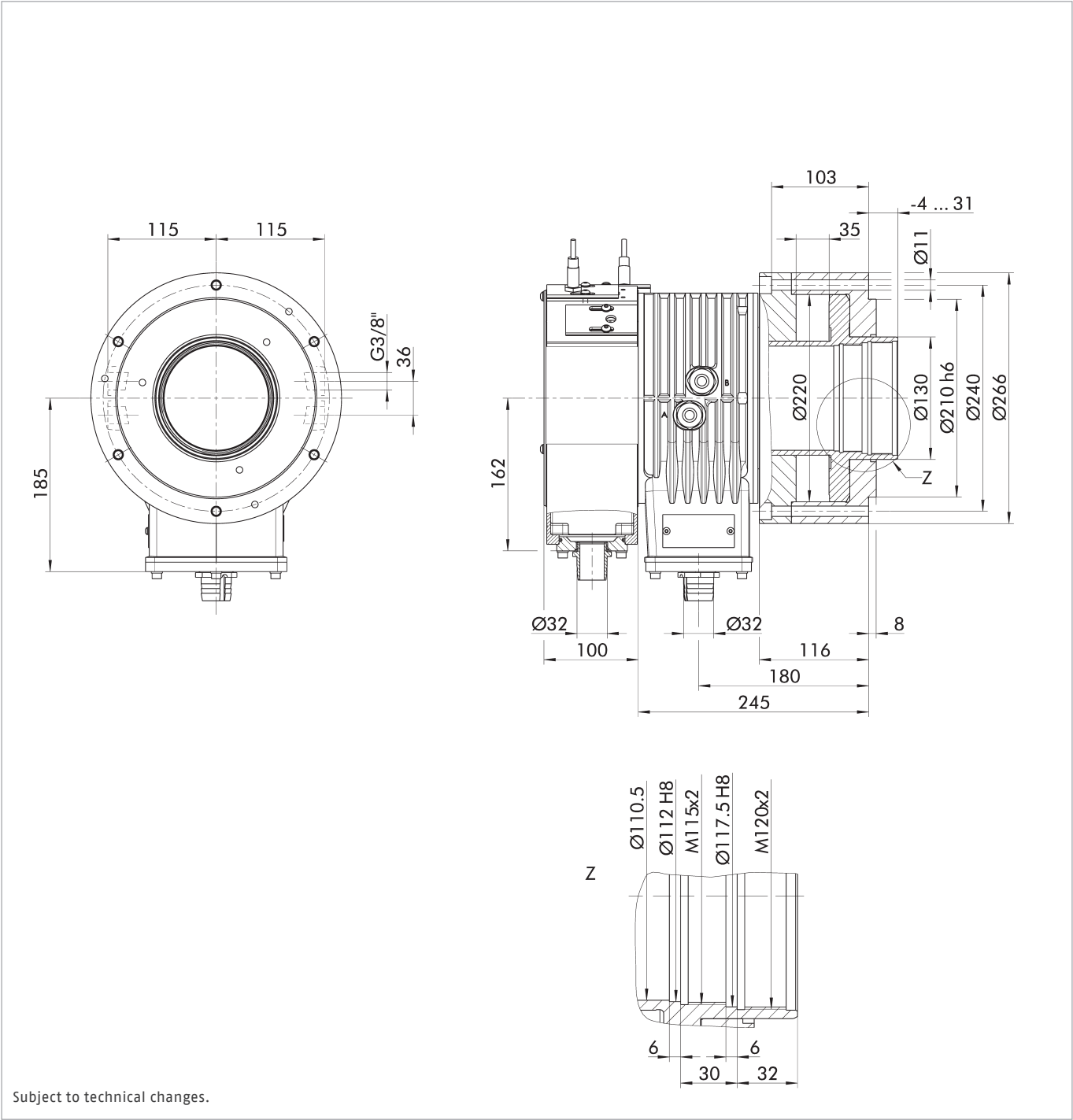
Open-center cylinder

Scope of delivery

Open-center cylinder, coolant collector, stroke control, bracket for sensors and operating manual; without sensors, without mounting screws

Technical data

| ID      | Max. rotational speed<br>[min <sup>-1</sup> ] | Piston surface<br>[cm <sup>2</sup> ] | Piston stroke<br>[mm] | Through-hole<br>[mm] | Max. pressure<br>[bar] | Pull force at 45 bar<br>[kN] | Oil leakage rate<br>[l/min] | Moment of inertia<br>[kgm <sup>2</sup> ] | Power consumption<br>[kW] | Weight<br>[kg] |
|---------|-----------------------------------------------|--------------------------------------|-----------------------|----------------------|------------------------|------------------------------|-----------------------------|------------------------------------------|---------------------------|----------------|
| 1360395 | 3600                                          | 247                                  | 35                    | 110.5                | 45                     | 110                          | 9                           | 0.28                                     | 2.2                       | 49             |







**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