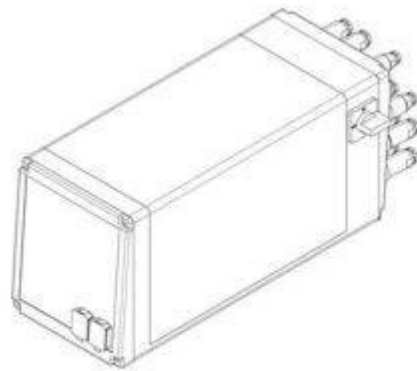


RNE331-  
M1-HPP



## Data sheet RNE331-M1-HPP

Riveting Unit with C-Frame

Rivet shank Ø: up to 16 mm | Force: up to 33.00 kN | Stroke: up to 50 mm

## Key features | Content of delivery

### Forming process: Radial

#### Standard Version

- Nominal force 33 kN @ 6 bar (max. operating pressure)
- Rivet shaft up to Ø 16 mm (Steel 370 N/mm<sup>2</sup>)
- Spindle stroke 5 - 40 mm with 0.01 mm micrometer scale and mechanical stroke limit
- Machine weight: approx. 310 kg
- Electro-pneumatic drive – power supply @x@V, @Hz
- Permanently lubricated spindle
- Pressure cup & tool holder Rp=@ mm for forming tool length Ls=@ mm
- BFR-M10-331, C-Frame -welded steel construction, incl. height adjustment
- Color: light grey RAL 7035

#### Including

- HPP-010-331, Process-Control HPP-25, connections X1, X2, X3, X20, X21
- Incl. SEI-100-331, Distance sensor, Type HPP-25
- Incl. SEI-200-331, Pressure sensors, Type HPP-25
- HPP-X4-02, Connection X4, for emergency-stop, w/out two-hand relay
- HPP-X6-01, Connection X6, external safety / reset
- HPP-X9-01, Connection X9, PLC interface with cable, 5m
- HPP-045-03, Sensor cable extension 3 m, total length 4 m
- SEI-OTH-331, Sensor upper spindle home position (TDC)
- PNP-HPP-331 Pneumatic service unit and pneumatic control package for HPP
- NZ-039, Automatic lubrication with reservoir grease level monitor
- Standard accessories and user manual in the language of destination
- Declaration for integration of an incomplete machine

#### Options

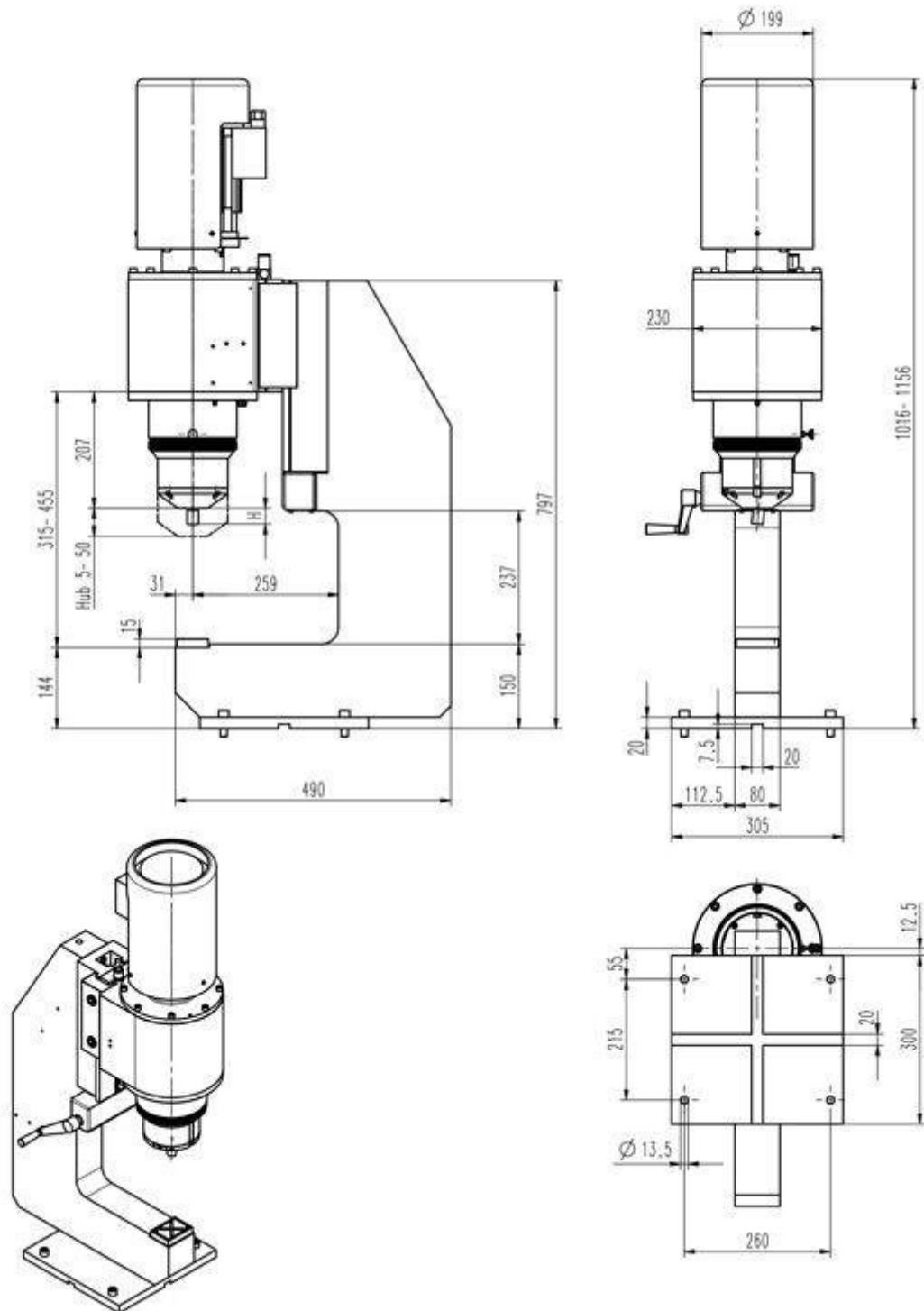
- RNC-M2-Xxx, X-Linear system with customized length (Standard X=200 mm)
- RNC-M2-Yxx, Y-Linear system with customized length (Standard Y=300 mm)
- RNC-M2-XxxYxx, XY-Linear system with customized length (Standard X=200 mm, Y=300 mm)
- HPP-X5-01, Connection X5 PVM Module in HPP (for control of PNP-PRV-020)
- PNP-PRV-020, Proportional-Pressure control integrated & ready for operation (requires HPP-X5-01)
- NHE-MYC-U-01, Rivet base detection device NHE-U
- NHE-MST-xxx, RBD lever and touch sleeve (@)
- HPP-DLL-S7L-x, HPP-25 – Siemens S7 Communication link (S7LINK).

License code to be ordered for each HPP control

- HPP-DLL-PCT, PC-Analysis Software HPP-PCTool, incl. UDP Protocol (on USB Stick)

Subject to change.

## Drawing



## Forming tool lengths

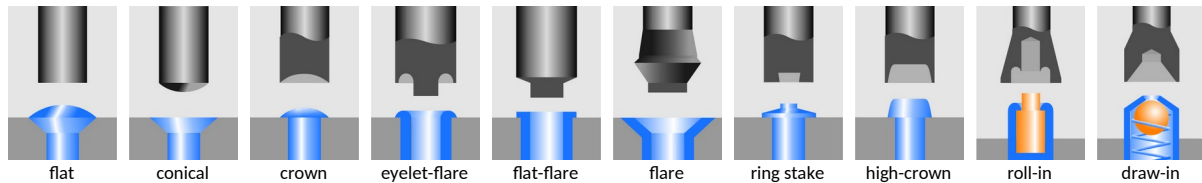


| Radius mm<br>Rp | Tool<br>length mm<br>Ls | Free<br>height mm<br>H | Shank Ø<br>mm Ds | Angle of<br>inclination α |
|-----------------|-------------------------|------------------------|------------------|---------------------------|
| 100.00          | 68.00                   | 28.00                  | 20               | 5° 37'                    |
| 116.00          | 84.00                   | 44.00                  | 20               | 4° 47'                    |
| 132.00          | 100.00                  | 60.00                  | 20               | 4° 10'                    |
| 148.00          | 116.00                  | 76.00                  | 20               | 3° 41'                    |
| 170.00          | 138.00                  | 98.00                  | 20               | 3° 10'                    |
| 191.00          | 159.00                  | 119.00                 | 20               | 2° 49'                    |
| 240.00          | 208.00                  | 168.00                 | 20               | 2° 13'                    |

## Forming tool profile



Our engineers are routinely meeting the demands of complex design problems. Having the specific tools needed for your metal forming project can mean the difference between success and failure. Contact us with your unique application for custom tooling.



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