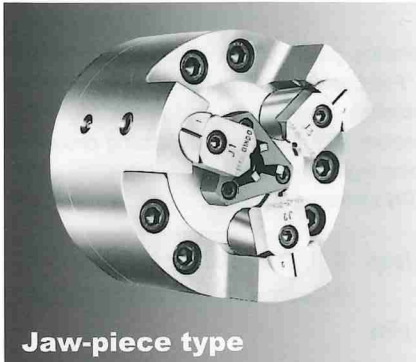


PULL-BACK PIN-ARBOR CHUCK

Outside dia. clamping

OPA Pin-Arbor Power Chuck®

"Strong Clamping" "High Precision" "Pull-Back" "Dust Protection" "Design Specification"



Jaw-piece type



Special specification

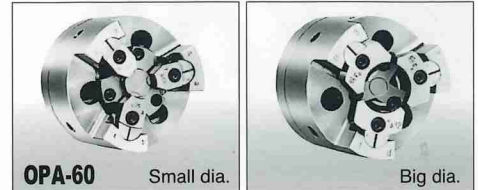
- The material of the body is Ductile Cast Iron considering anti-abrasion and anti-worn out.

"PULL-BACK" System

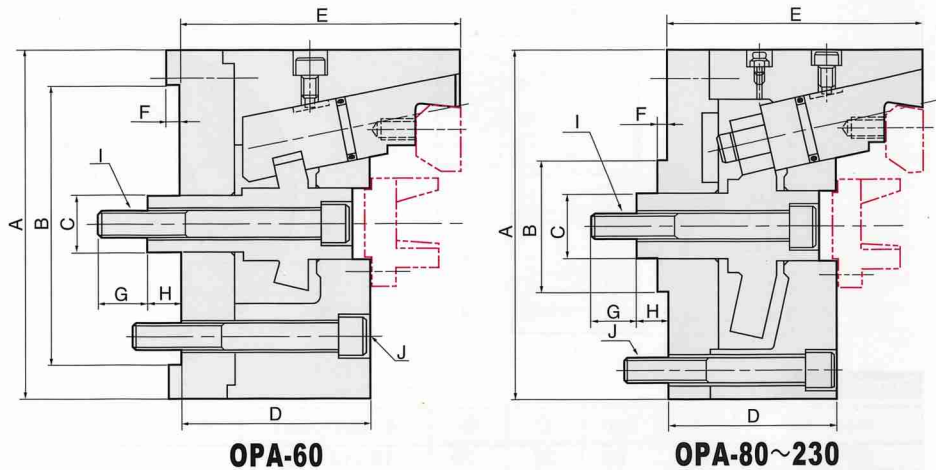
The OPA [Pin-Arbor Power Chuck] is O.D. clamping chuck which is suitable for the work-pieces requiring high accuracy (repeatability 0.01 T.I.R.) in squareness and parallelism and also strong clamping force for clamping in secondary operations. Also, it is very easy to exchange chucking pins which allows the OPA Chucks to perform at their full potential for clamping wide variety of work-pieces.

● A broad range of selection

Taking advantage of excellent features of OPA [Pin-Arbor Power Chuck], and a wide selection is available.



Dimension diagram



Dimensions

| Model No. | A | B ^{h7} | C | D | E | F | G | H max. | H min. | I | J |
|-----------|-----|------------------|----|-----|-----|---|----|--------|--------|-----------|-------------------|
| OPA-60 | 110 | 85 ^{H6} | 18 | 58 | 77 | 5 | 15 | 18.0 | 12.0 | M10 P1.5 | 3-M10 P.C.D. 70.6 |
| OPA-80 | 130 | 60 | 24 | 72 | 103 | 5 | 20 | 18.0 | 10.0 | M12 P1.75 | 3-M8 P.C.D.100.0 |
| OPA-100 | 162 | 80 | 30 | 90 | 130 | 7 | 30 | 22.5 | 12.5 | M16 P1.75 | 3-M12 P.C.D.130.0 |
| OPA-140 | 210 | 80 | 40 | 100 | 155 | 7 | 30 | 25.0 | 15.0 | M16 P2.0 | 3-M16 P.C.D.170.0 |
| OPA-180 | 250 | 80 | 45 | 110 | 165 | 7 | 30 | 25.0 | 15.0 | M18 P2.5 | 3-M16 P.C.D.210.0 |
| OPA-230 | 320 | 120 | 50 | 130 | 200 | 7 | 40 | 30.0 | 20.0 | M20 P2.5 | 3-M16 P.C.D.270.0 |

Standard specifications

- OPA bodies are used with the ductile cast iron for considering the strength and resistance.

| Model No. | Max. Clamping force kN (kgf) | Max. Pull force kN (kgf) | Max. Rotation speed min ⁻¹ | Jaw stroke (Dia.) mm | Standard clamping range mm | Chuck weight kg | Body GD ² N · m ² (kgf · m ²) |
|-----------|---------------------------------|-----------------------------|--|-------------------------|-------------------------------|--------------------|--|
| OPA-60 | 17.6 (1,800) | 9.8 (1,000) | 5,500 | 2.5 | 10~60 | 5 | 0.29 (0.03) |
| OPA-80 | 22.1 (2,250) | 11.8 (1,200) | 5,000 | 3.4 | 15~80 | 8 | 0.66 (0.067) |
| OPA-100 | 36.8 (3,760) | 19.6 (2,000) | 4,500 | 4.2 | 20~100 | 16 | 1.96 (0.20) |
| OPA-140 | 46.1 (4,700) | 24.5 (2,500) | 3,000 | 4.2 | 60~140 | 27 | 5.29 (0.54) |
| OPA-180 | 55.3 (5,640) | 29.4 (3,000) | 2,000 | 4.2 | 100~180 | 46 | 14.01 (1.43) |
| OPA-230 | 73.7 (7,520) | 39.2 (4,000) | 2,000 | 4.2 | 120~230 | 70 | 34.30 (3.50) |

* The dimensions in this table are subject to change without notice.

Above standard clamping ranges are from the direct clamping range by chucking pins to the clamping by jawpieces (top jaws).

Practical examples

Eccentric type, Double clamp type, Large Diameter through hole type, Air sensing type are available.

