



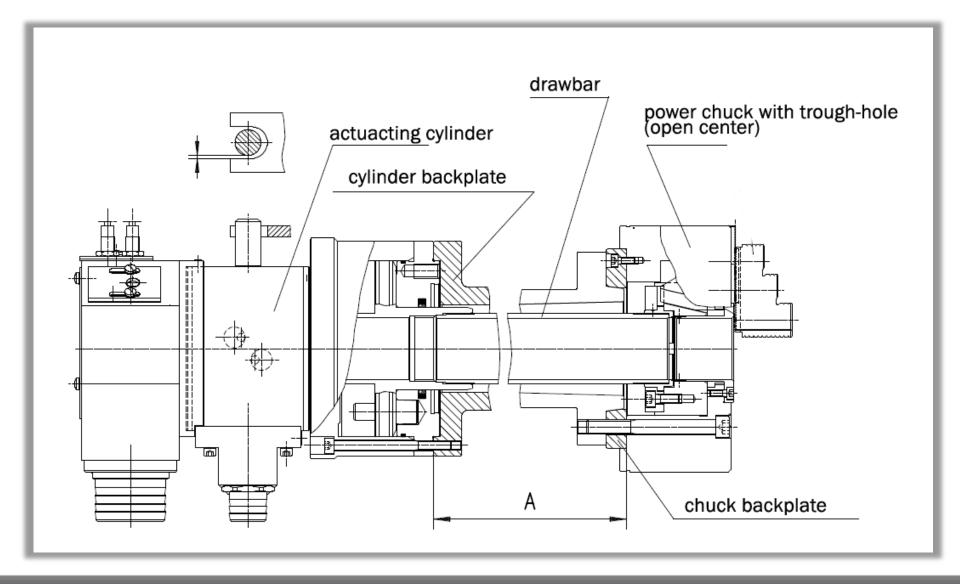


Power chucks and cylinders





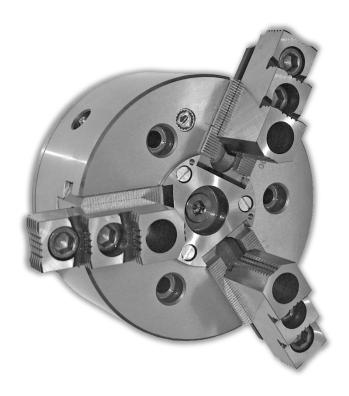
BASIC PRINCIPLE OF POWER CHUCK OPERATION







Power chuck types





Without through-hole (closed center)

With through-hole (open center)



MAIN FEATURES

- Available in 2,3 or 4 jaws execution
- Manufactured from high grade alloy steel
- Reversible top jaws hardened and ground
- Base jaws lubricated directly







COMPARISION OF TWO BASIC BISON POWER CHUCKS





BISON MODEL Type 2405-M INTERCHANGEABLE WITH KITAGAWA B200 Series Type 2405-K



BASE JAW SERRATION

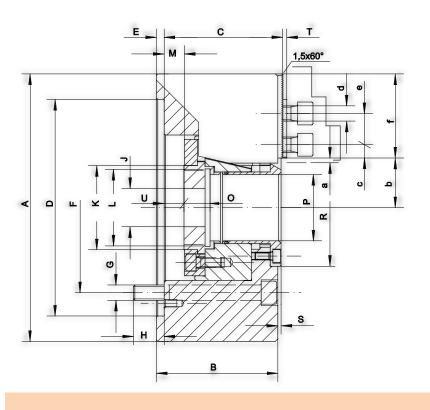


JAW TRAVEL

- BISON MODEL \longrightarrow 3.5 6.0 mm (\emptyset 160 \emptyset 315)
- KITAGAWA 2.75 5.3 mm (ø160 ø315)



Kitagawa B200 Series Interchangeable Power chuck – Type 2405-K



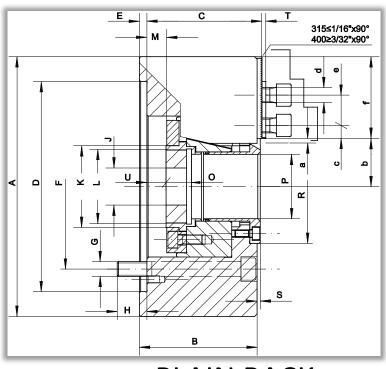


- Same back mount connections (recess, bolt circle, hole numbers and locations)
- Same top jaws connecetions (T-nuts, screws)
- Different inner dimensions





AVAILABLE TYPES

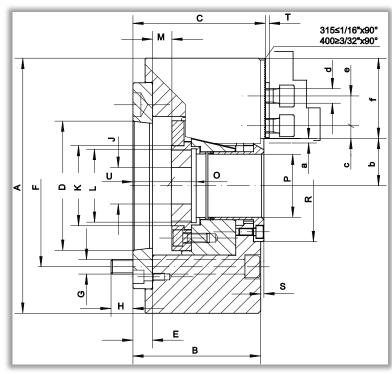


PLAIN BACK

2405-160-45 2405-200-52 2405-250-75

2405-315-91

2405-400-120



A TYPE MOUNT

2405-160-45A5

2405-200-52A6

2405-250-75A8

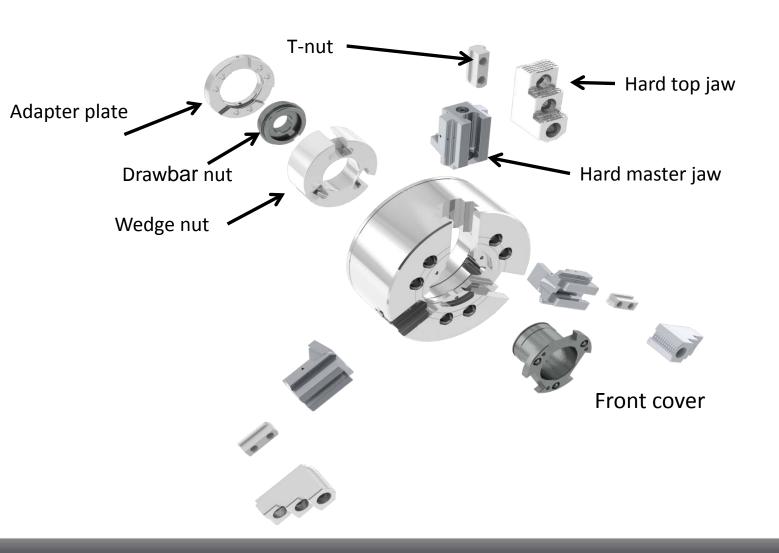
2405-315-91A8

2405-400-120A11



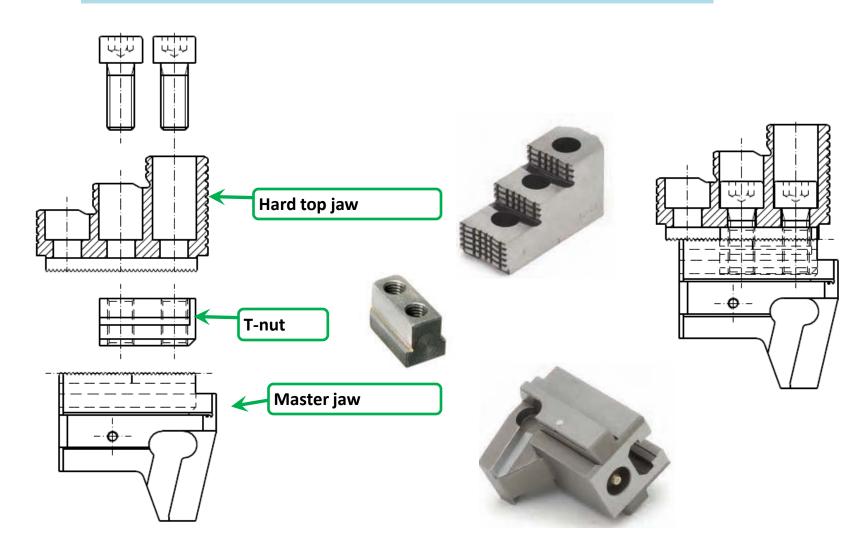


Open Center Power Chuck Inner parts





Power chuck - jaws

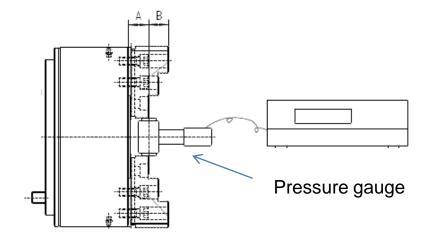


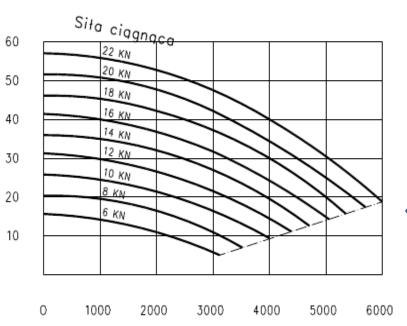


Siła zacisku (KN)

Checking the gripping force during chuck rotation

Gripping force measurement





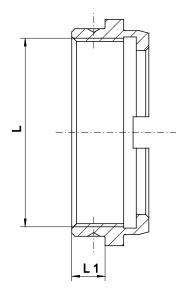
Gripping force loss chart



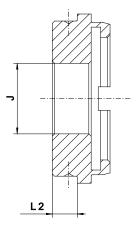


Power chuck – Spare parts

Drawbar nut - threaded



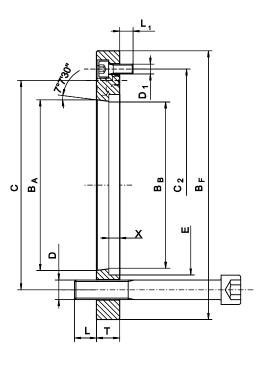






Drawbar nut - blank



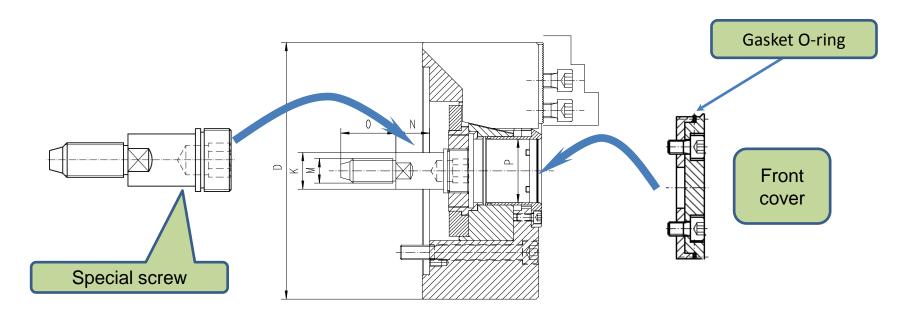


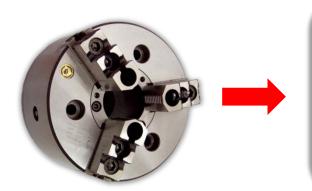
Adapter plate Type 8213 DIN 55026





Special insert for power chucks with hole





By mounting the special insert you may convert power chuck with through-hole in no through-hole option.

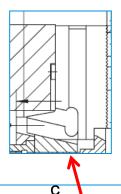




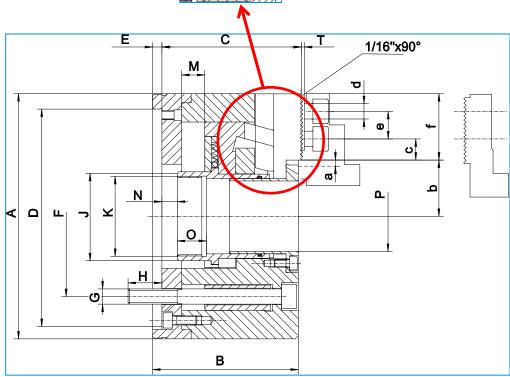




Lever type power chuck Type 2409



Wedge power chucks





Features:

- ☐ High rigidity
- ☐ Large through-hole

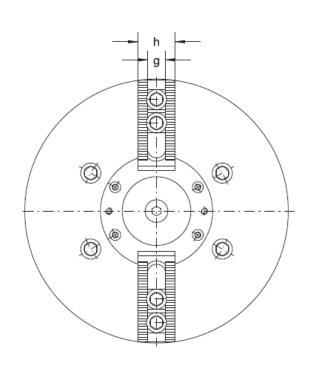
Standard accessories

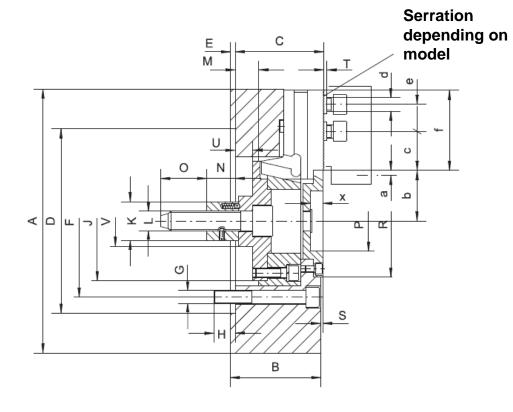
- ☐ Hard top jaws
- ☐ Special hard top jaw
- ☐ Mounting screws





2-jaw power chucks





• BISON MODEL Type 2101 SERRATION 1/16" x 90°

• KITAGAWA Type 2105 SERRATION 1.5mm x 90°

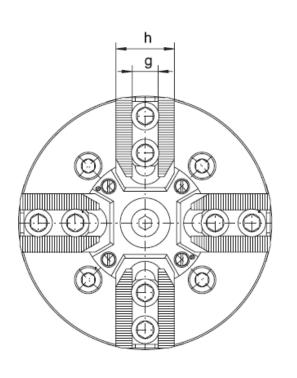
Available sizes ø160 – ø315



Serration



4-jaw power chucks



depending on model О 0 A D L Η В

• BISON MODEL Type 2604 SERRATION 1/16" x 90°

• KITAGAWA Type 2605 SERRATION 1.5mm x 90°

Available sizes ø160 – ø315



Hydraulic cylinder with through-hole Type 1305



1305-102/46

1305-130/52

1305-150/62

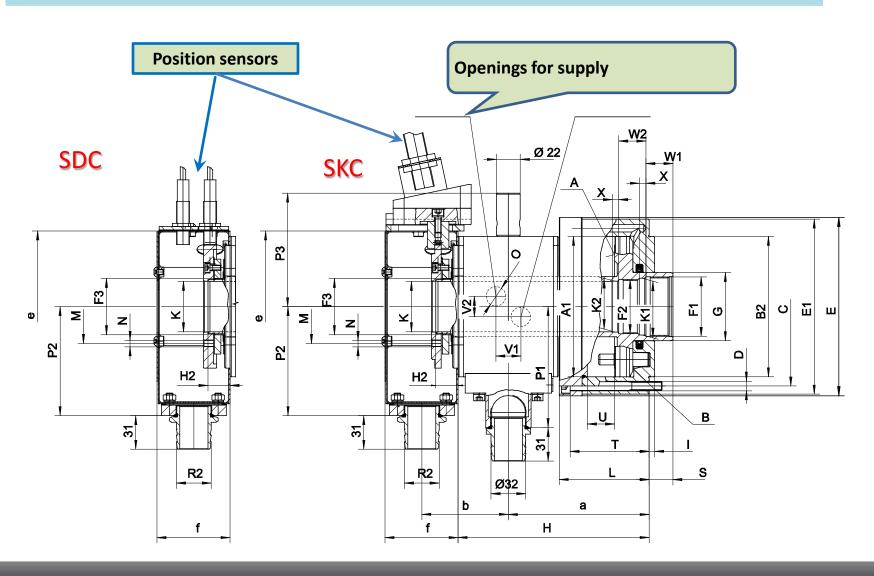
1305-225/95



Power chucks with through-hole



Hydraulic cylinder with through-holes Type 1305

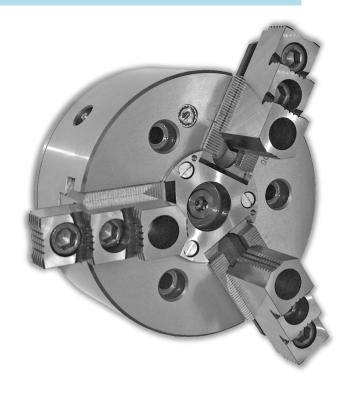




Hydraulic cylinder without through-hole Type 1304



Available sizes 1304-100 1304-200

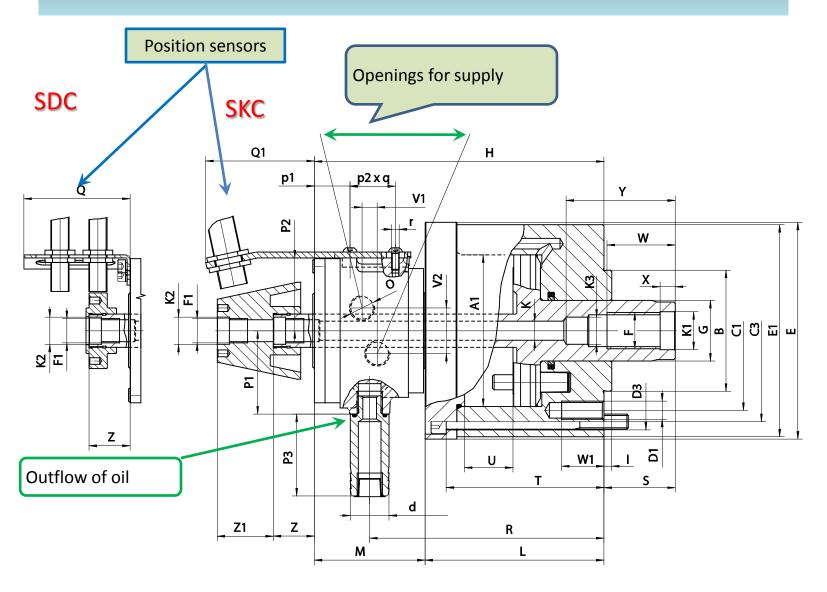


Power chuck without through-hole



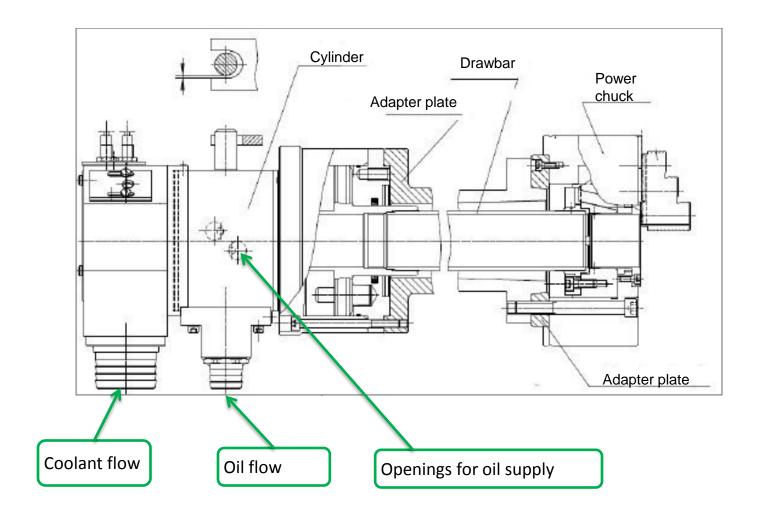
BISON

Hydraulic cylinder without through-hole – Type 1304





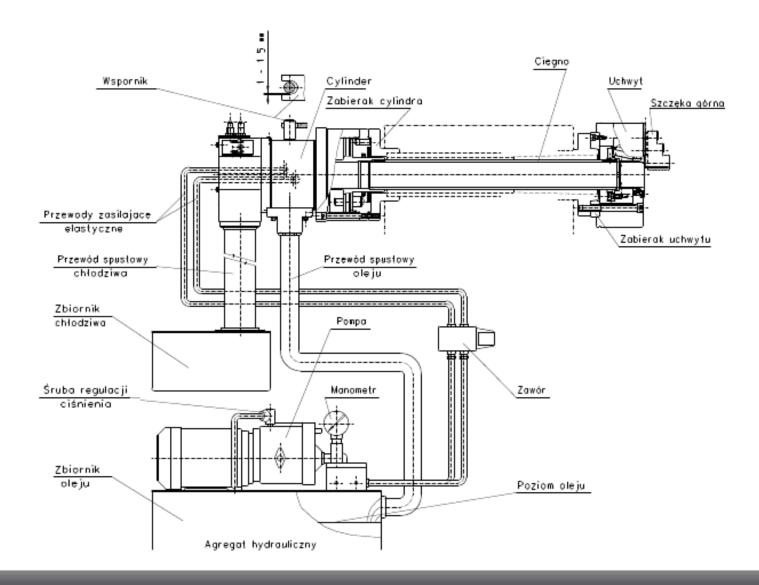
Connecting cylinder type 1305 with power chuck







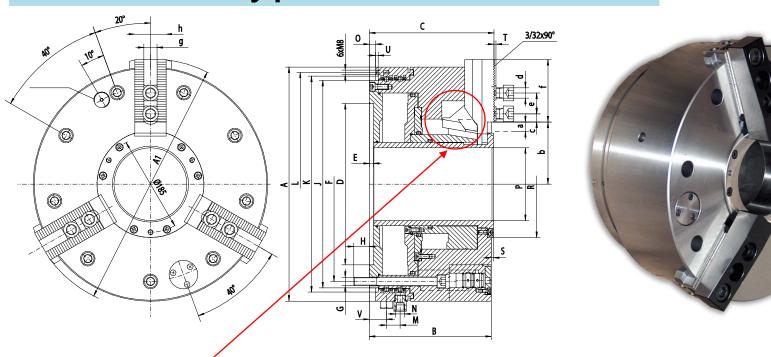
Hydraulic unit for cylinder actuating power chuck





Built-in Power Chuck Type 2500

Available sizes: 400 and 500mm



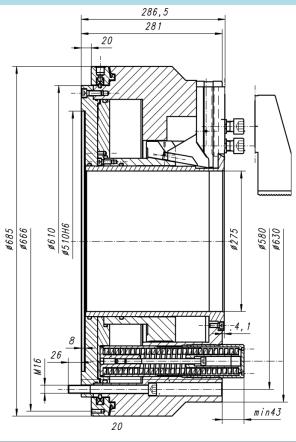
- power chuck integrated with a air cylinder
- safety valve
- designed for gripping of tubes or other objects of similar shape
- mounted individually or in pairs— on both sides of the spindle
- two jaw strokes: rapid and slow (gripping)





Power chucks with spring-loaded gripping Type 2500-630-275-SPR





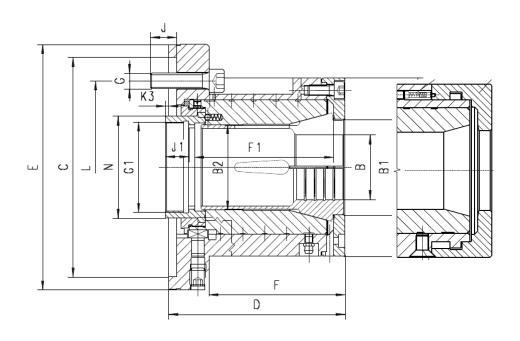
designed for gripping of tubes or other objects of similar shape

- mounted individually or in pairs
- adjustable clamping force
- high gripping force
- 1 set of hard upper jaws





Power chucks for DIN 6343 collets Type 2905

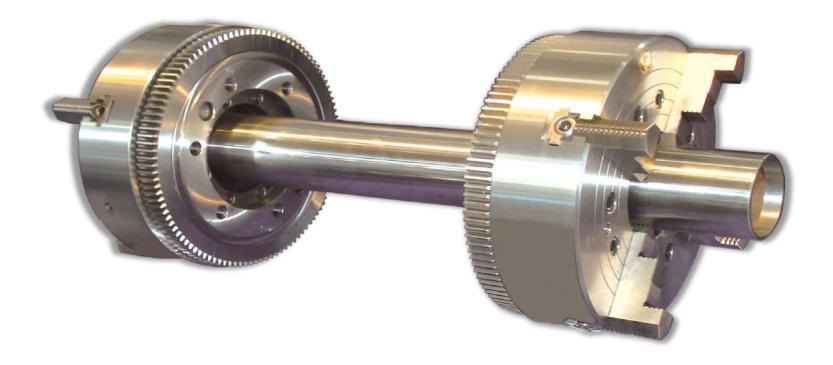








Special Power Chucks Type 2635-400mm (Left i Right)



4-jaw self-centering and individually adjustable power chuck is designed for holding long pipes or similar workpieces and to be used with lathes allowing the mounting of two chucks at both ends of the spindle.