

# CSF

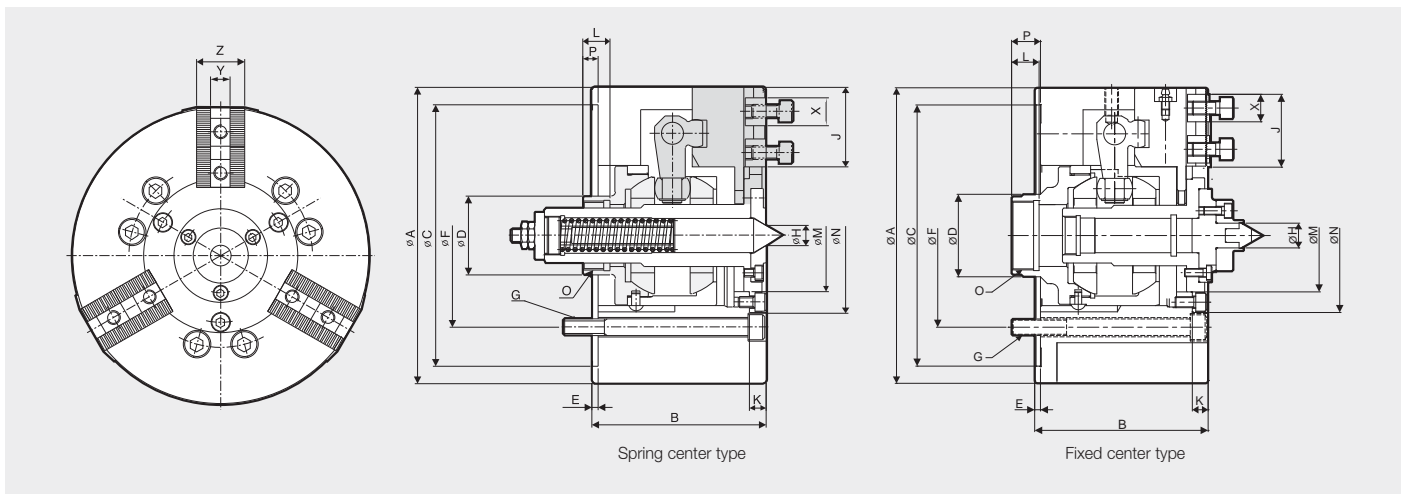
## Compensating Chuck



- Jaws float on spherical bearing to determined clamping points
- Spring or fixed center available
- All three jaws apply constant gripping force

**SPECIAL CHUCK**

Special Chuck



### Dimensions

|        | ΦA  | B     | ΦC(h7) | ΦD | ΦE  | ΦF    | G     | ΦH | J    | K  | L  | ΦM  | ΦN    | O        | Pmax. | Pmin. | X  | Y  | Z  |
|--------|-----|-------|--------|----|-----|-------|-------|----|------|----|----|-----|-------|----------|-------|-------|----|----|----|
| CSF-07 | 170 | 99    | 140    | 42 | 4   | 104.8 | 3-M10 | 11 | 45   | 11 | 20 | 65  | 86    | M34xP1.5 | 28.2  | 8.2   | 16 | 11 | 28 |
| CSF-08 | 215 | 126.2 | 190    | 57 | 4.2 | 133.4 | 6-M12 | 15 | 57.5 | 13 | 20 | 82  | 112.1 | M50xP1.5 | 34    | 9     | 20 | 14 | 35 |
| CSF-12 | 280 | 154.7 | 255    | 72 | 5.7 | 171.4 | 6-M16 | 20 | 72   | 17 | 26 | 110 | 142.2 | M60xP1.5 | 44    | 14    | 26 | 20 | 45 |

### Specifications

| Type   | Static Clamping force | Max. Drawbar Pull | Jaw Stroke Dia. | Plunger Stroke | Min. Chucking Dia. | Max. Runout Dia. | Max. Speed | Spring Force | Weight | GD <sup>2</sup>       |
|--------|-----------------------|-------------------|-----------------|----------------|--------------------|------------------|------------|--------------|--------|-----------------------|
|        | [kgf]                 | [kgf]             | [mm]            | [mm]           | [mm]               | [mm]             | [r.p.m.]   | [kgf]        | [kg]   | [kgf·m <sup>2</sup> ] |
| CSF-07 | 2600                  | 1500              | 16              | 20             | 20                 | 4                | 4000       | 45           | 15     | 0.25                  |
| CSF-08 | 3200                  | 2100              | 20              | 25             | 25                 | 4                | 3200       | 52           | 28     | 0.8                   |
| CSF-12 | 4400                  | 2700              | 25              | 30             | 30                 | 6                | 2000       | 106          | 58     | 3.13                  |