













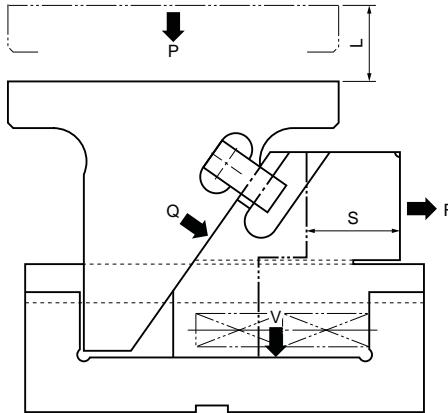




# General Description of Cam Unit

## OVER VIEW

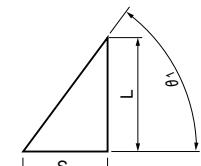
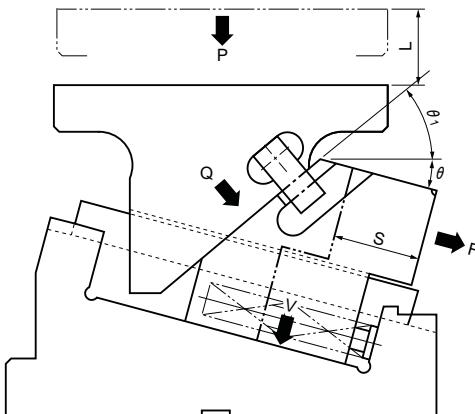
### ■ Calculation Formula of Force Applied to Die Mounted Cam Unit



$\theta$  : Working Angle  
 $\theta_1$  : Driver Inclination Angle  
 $F$  : Force Required for Working  
 (Working force + Spring Return Force  
 + Pad Force)

$P$  : Press Force  
 $V$  : Load Applied to Cam Driver Surface  
 $Q$  : Load applied to Cam Slider Surface  
 $S$  : Working Travel  
 $L$  : Press Travel

Cam Diagram  
 • No Inclination of Working Angle ( $0^\circ$ )



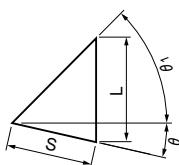
$$P = F \cdot \frac{1}{\tan \theta_1}$$

$$Q = F \cdot \frac{1}{\sin \theta_1}$$

$$V = F \cdot \frac{1}{\tan \theta_1}$$

$$L = S \cdot \tan \theta_1$$

• Inclination of Working Angle



$$P = F \cdot \frac{\cos \theta_1}{\sin(\theta_1 + \theta)}$$

$$Q = F \cdot \frac{1}{\sin(\theta_1 + \theta)}$$

$$V = F \cdot \frac{1}{\tan(\theta_1 + \theta)}$$

$$L = S \cdot \frac{\sin(\theta_1 + \theta)}{\cos \theta_1}$$

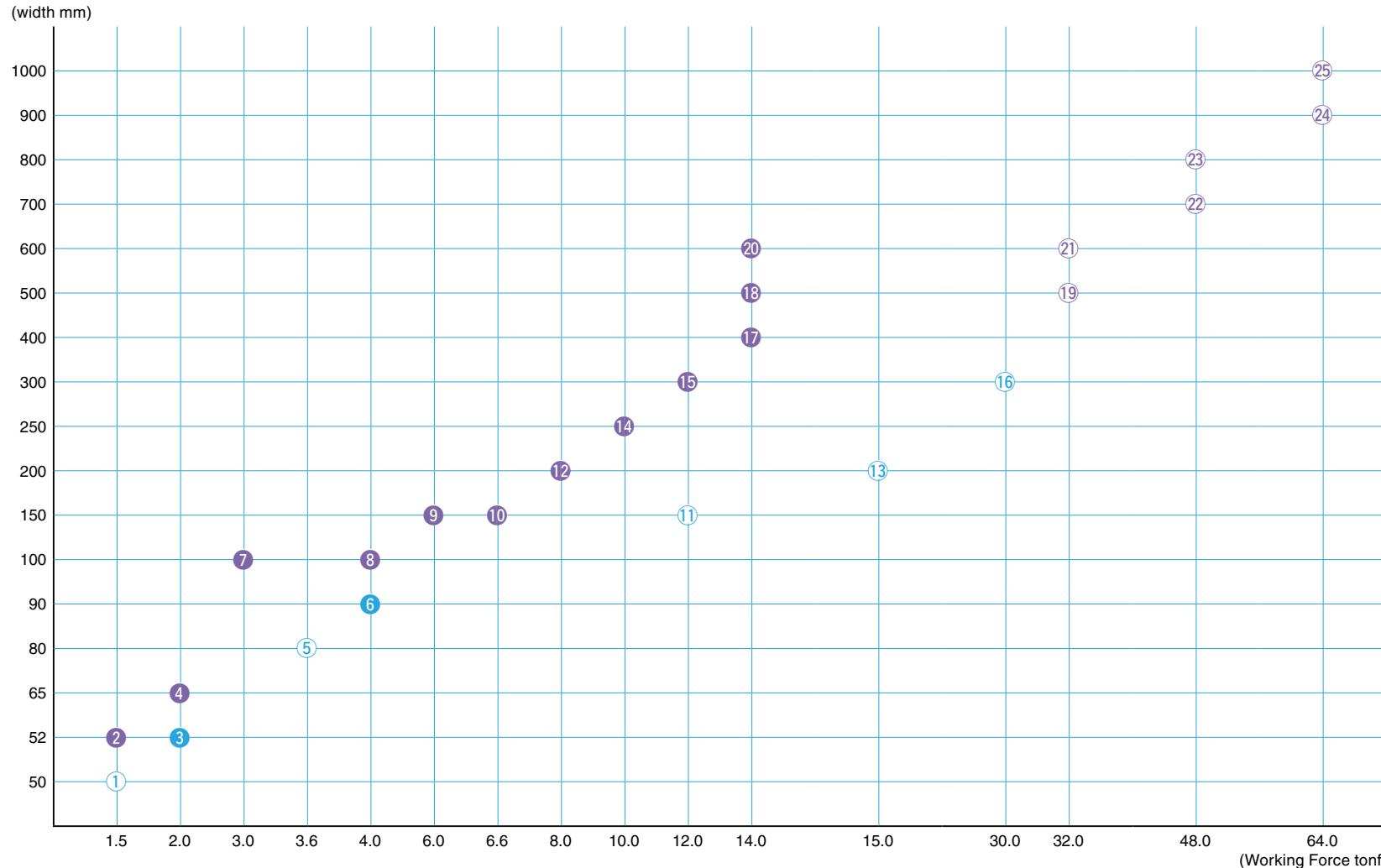




# General Description of Cam Unit

## OVER VIEW

## Guide Line for Selection (Die Mounted Cam)



- |                           |                            |                         |                          |
|---------------------------|----------------------------|-------------------------|--------------------------|
| ① KGSP50 ..... P.1669     | ⑧ SKC100(5°~) ..... P.1611 | ⑯ SKC250 ..... P.1651   | ㉐ SKC600 ..... P.1663    |
| ② SKC52 ..... P.1579      | ⑨ SKC150(0°) ..... P.1627  | ㉑ SKC300 ..... P.1655   | ㉑ KCMSL600 ..... P.1741  |
| ③ CMSD52 ..... P.1557     | ⑩ SKC150(5°~) ..... P.1631 | ㉒ KGSP300 ..... P.1725  | ㉒ KCMSL700 ..... P.1751  |
| ④ SKC65 ..... P.1585      | ㉓ KGSP150 ..... P.1697     | ㉓ SKC400 ..... P.1659   | ㉓ KCMSL800 ..... P.1751  |
| ⑤ KGSP80 ..... P.1683     | ㉔ SKC200 ..... P.1647      | ㉔ SKC500 ..... P.1661   | ㉔ KCMSL900 ..... P.1761  |
| ⑥ CMSD90 ..... P.1567     | ㉕ KGSP200 ..... P.1711     | ㉕ KCMSL500 ..... P.1741 | ㉕ KCMSL1000 ..... P.1761 |
| ⑦ SKC100(0°) ..... P.1605 |                            |                         |                          |

















