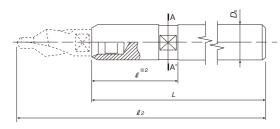
Specification







| Type Shank Dia. \$\mathcal{L}_2 D_S \text{D}_S \text{D}_S | | Overall length L | l | Н | Applicable cutting edge Shank Dia. | Code No. |
|---|----|------------------|----|----|------------------------------------|----------|
| 150mm | 14 | 122.5 | 36 | 12 | 10 | JH1014M |
| | 16 | 117.5 | 37 | 14 | 12 | JH1216M |
| | 20 | 115.5 | 41 | 17 | 16 | JH1620M |

| | Type ℓ_2 | Shank Dia. <i>D</i> s | Overall length L | l | Н | Applicable cutting edge Shank Dia. | Code No. |
|--|---------------|--------------------------|------------------|----|----|------------------------------------|----------|
| | 200mm | 14 | 172.5 | 36 | 12 | 10 | JH1014N |
| | | 16 | 167.5 | 37 | 14 | 12 | JH1216N |
| | | 20 | 165.5 | 41 | 17 | 16 | JH1620N |

*11 After connecting the cutting edge with holder, overall length will be 150mm long and 200mm long.
*2 When attaching these tools to milling chucks, never hold the tools at \$\ell\$ portion.
*3 Screw threads change depending on size. Please select the holder of adaptable shank dia.

Remarks

1 To avoid injuries, do not touch the cutting edge with bare hand. Wear gloves when exchanging the cutting edges.





② Use special tools to remove/replace the cutting edge. Use spanners (JIS B4630) for removing/exchanging the cutting edges. For spanner's width size, refer to the H size (shown in back page). Tightening torque: Take special care, otherwise excessive tightening may cause breakage on cutting edge.



(reference) Tightening torque(N-m)

| Adaptable holder Shank dia | Tightening torque | | |
|-------------------------------|-------------------|--|--|
| 14 | 5 | | |
| 16 | 10 | | |
| 20 | 30 | | |

3 Fix the holder firmly when removing/replacing cutting edges. Not exchange while the holder is not fixed firmly. The spanner can get loose from the tool notch and Do not remove/replace cutting edges while the holder is not firmly held in position. otherwise the spanner may get loose from the tool notch and thus can cause injury.

Warning

- ◆Tool may shatter if broken. The wearing of eye protection glass is strongly advised in the vicinity of their use.
 ◆The correct using conditions and handling of our tools are essential in
- securing maximum useful tool life and hazard free operation.

 The wearing of gloves is forbidden as the gloves may entangle with
- turning tools.

 Tools may hurt the users' feet when falling off. The safety shoes
- ◆While fitting the tools to machine spindles and/or sleeves, care should be taken to avoid subjecting them to shock or impact.
- ◆Check that the workpieces are properly seated and securely held in the chuck before switching on machine power.
- ◆Do not use a tool whose cutting edges are worn-out or chipped severely.
- ◆Tools may generate extreme heat during use. Fire protection is strongly recommended.

Changes may occur without advance notice.

YAMAWA Mfg. CO., Ltd.



Head office Nakajima Gold bldg.13-10 Kyobashi 3chome, Chuo-ku, Tokyo 104-0031, JAPAN

Website:http://www.yamawa.com

YAMAWA group for Overseas YAMAWA International Co., Ltd.





■ Joint Tools ■



Features

Increased fastening power

> Special screw threads widen the contact face and strengthen the fastening power.



Severe run-out tolerance

Severe run-out tolerance requirements is possible by giving cone shape at joining portion

Joining portion (mating with cone face)



High rigidity

Powerful tightening assures the high rigidity, and enables an even load transmission during cutting operations.



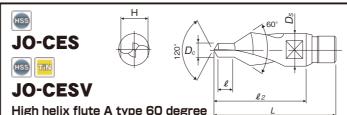
Lineup



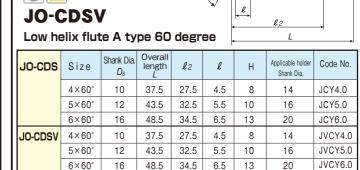


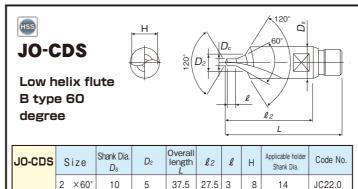


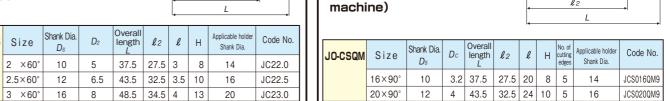
Specification



| IIBIT TICIIX TIGLE A CYPE DE GOBI DE L | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|
| Size | Size Shank Dia. | | l 2 | l | Н | Applicable holder Shank Dia. | Code No. | | |
| 4×60° | 10 | 37.5 | 27.5 | 4.5 | 8 | 14 | JCE4.0 | | |
| 5×60° | 12 | 43.5 | 32.5 | 5.5 | 10 | 16 | JCE5.0 | | |
| 6×60° | 16 | 48.5 | 34.5 | 6.5 | 13 | 20 | JCE6.0 | | |
| 4×60° | 10 | 37.5 | 27.5 | 4.5 | 8 | 14 | JVCE4.0 | | |
| 5×60° | 12 | 43.5 | 32.5 | 5.5 | 10 | 16 | JVCE5.0 | | |
| 6×60° | 16 | 48.5 | 34.5 | 6.5 | 13 | 20 | JVCE6.0 | | |
| | \$\frac{4\times 60^\circ}{5\times 60^\circ}\$ \$\frac{6\times 60^\circ}{4\times 60^\circ}\$ \$\frac{4\times 60^\circ}{5\times 60^\circ}\$ | $ \begin{array}{c c} Size & Shank Dia. \\ D_s \\ \hline 4 \times 60^\circ & 10 \\ \hline 5 \times 60^\circ & 12 \\ \hline 6 \times 60^\circ & 16 \\ \hline 4 \times 60^\circ & 10 \\ \hline 5 \times 60^\circ & 12 \\ \hline \end{array} $ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | |







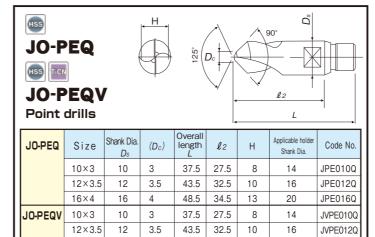
JO-CSQM

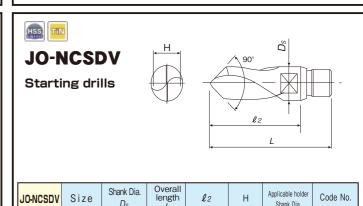
Countersinks

(90 degree,

for boring

JO-CDS





| JO-NCSDV | Size | Shank Dia. <i>Ds</i> | Overall length <i>L</i> | l 2 | Н | Applicable holder Shank Dia. | Code No. |
|----------|--------|-------------------------|-------------------------------|------------|----|---------------------------------|------------|
| | 10×90° | 10 | 37.5 | 27.5 | 8 | 14 | JVCS-D010Q |
| | 12×90° | 12 | 43.5 | 32.5 | 10 | 16 | JVCS-D012Q |
| | 16×90° | 16 | 48.5 | 34.5 | 13 | 20 | JVCS-D016Q |

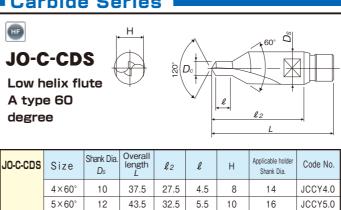
■ Carbide Series

6×60°

16

48.5

16 4



34.5

6.5

13

48.5 34.5

20

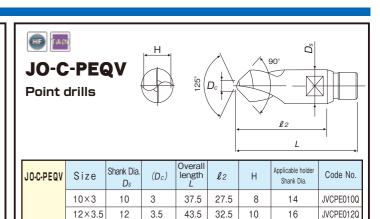
20

JCCY6.0

16×4

16 4

JVPE016Q



48.5 34.5

13

JVCPE016Q

20

How to use: Refer to You Tube.