

JOINT TOOLS

Various types of cutting tool heads and exchangeable, depending on applications

■ Joint Tools ■

JO-CES	JO-CDS	JO-PEQ
JO-CESV	JO-CDSV	JO-PEQV
JO-CDS	JO-CSQM	JO-NCSDV

New JO-C-CDS JO-C-PEQV



IMROBEX
Machine Tools International

ROBERT GENICH
Geschäftsführer



IMROBEX GmbH
Fielenmacherspfad 40
56626 Andernach
Germany

Tel.: +49 2632 403 80 79
Mobil: +49 178 86 85 89 5
Mail: info@imrobex.com
Web: www.imrobex.de
@imrobex_gmbh

Features

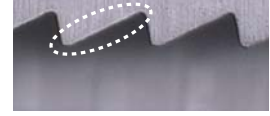
1.

Increased fastening power

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



special screw threads

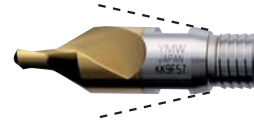


2.

Severe run-out tolerance

Severe run-out tolerance requirements are achievable thanks to the cone shape at joining portion

Joining portion (mating with cone face)



3.

High rigidity

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

Joint tool



Lineup



How to use: Refer to You Tube.



Specification

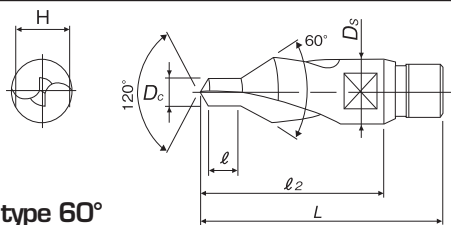
HSS

JO-CES

HSS TiN

JO-CESV

High helix flute A type 60°



JO-CES	Size	Shank Dia. D_s	Overall length L	l_2	l	H	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
JO-CESV	Size	Shank Dia. D_s	Overall length L	l_2	l	H	Applicable holder Shank Dia.	Code No.
	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

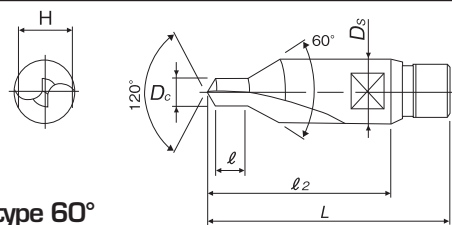
HSS

JO-CDS

HSS TiN

JO-CDSV

Low helix flute A type 60°

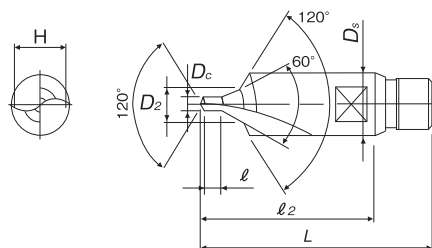


JO-CDS	Size	Shank Dia. D_s	Overall length L	l_2	l	H	Applicable holder Shank Dia.	Code No.
	4×60°	10	37.5	27.5	4.5	8	14	JCY4.0
	5×60°	12	43.5	32.5	5.5	10	16	JCY5.0
	6×60°	16	48.5	34.5	6.5	13	20	JCY6.0
JO-CDSV	Size	Shank Dia. D_s	Overall length L	l_2	l	H	Applicable holder Shank Dia.	Code No.
	4×60°	10	37.5	27.5	4.5	8	14	JVCY4.0
	5×60°	12	43.5	32.5	5.5	10	16	JVCY5.0
	6×60°	16	48.5	34.5	6.5	13	20	JVCY6.0

HSS

JO-CDS

Low helix flute B type 60°

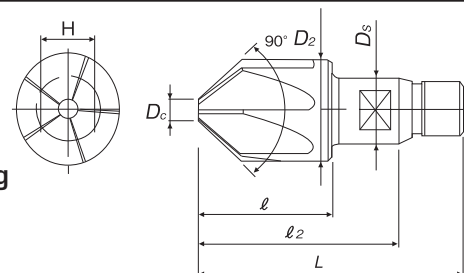


JO-CDS	Size	Shank Dia. D_s	D_2	Overall length L	l_2	l	H	Applicable holder Shank Dia.	Code No.
	2 × 60°	10	5	37.5	27.5	3	8	14	JC22.0
	2.5 × 60°	12	6.5	43.5	32.5	3.5	10	16	JC22.5
	3 × 60°	16	8	48.5	34.5	4	13	20	JC23.0

HSS

JO-CSQM

Countersinks (90°, for boring machine)



JO-CSQM	Size	Shank Dia. D_s	D_c	Overall length L	l_2	l	H	No. of cutting edges	Applicable holder Shank Dia.	Code No.
	16×90°	10	3.2	37.5	27.5	20	8	5	14	JCS016QM9
	20×90°	12	4	43.5	32.5	24	10	5	16	JCS020QM9

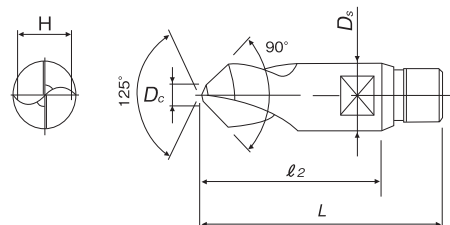
HSS

JO-PEQ

HSS TiCN

JO-PEQV

Point drills

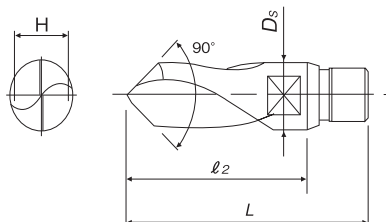


JO-PEQ	Size	Shank Dia. D_s	(D_c)	Overall length L	l_2	H	Applicable holder Shank Dia.	Code No.
	10×3	10	3	37.5	27.5	8	14	JPE010Q
	12×3.5	12	3.5	43.5	32.5	10	16	JPE012Q
	16×4	16	4	48.5	34.5	13	20	JPE016Q
JO-PEQV	Size	Shank Dia. D_s	(D_c)	Overall length L	l_2	H	Applicable holder Shank Dia.	Code No.
	10×3	10	3	37.5	27.5	8	14	JVPE010Q
	12×3.5	12	3.5	43.5	32.5	10	16	JVPE012Q
	16×4	16	4	48.5	34.5	13	20	JVPE016Q

HSS TiN

JO-NCSDV

Starting drills



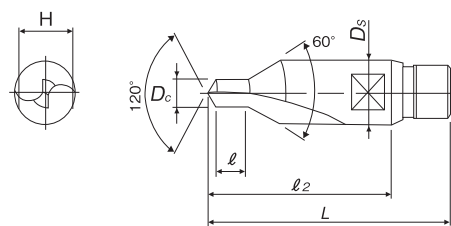
JO-NCSDV	Size	Shank Dia. D_s	Overall length L	l_2	H	Applicable holder Shank Dia.	Code No.
	10×90°	10	37.5	27.5	8	14	JVCS-D010Q
	12×90°	12	43.5	32.5	10	16	JVCS-D012Q
	16×90°	16	48.5	34.5	13	20	JVCS-D016Q

Carbide Series

HF

JO-C-CDS

Low helix flute A type 60°

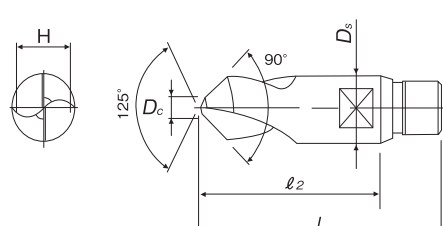


JO-C-CDS	Size	Shank Dia. D_s	Overall length L	l_2	l	H	Applicable holder Shank Dia.	Code No.
	4×60°	10	37.5	27.5	4.5	8	14	JCCY4.0
	5×60°	12	43.5	32.5	5.5	10	16	JCCY5.0
	6×60°	16	48.5	34.5	6.5	13	20	JCCY6.0

HF TiAlN

JO-C-PEQV

Point drills

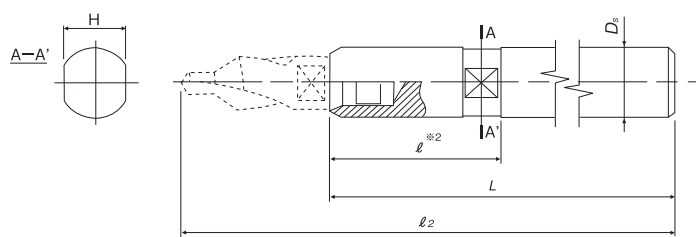


JO-C-PEQV	Size	Shank Dia. D_s	(D_c)	Overall length L	l_2	H	Applicable holder Shank Dia.	Code No.
	10×3	10	3	37.5	27.5	8	14	JVCPE010Q
	12×3.5	12	3.5	43.5	32.5	10	16	JVCPE012Q
	16×4	16	4	48.5	34.5	13	20	JVCPE016Q

Specifications



Holder



Type ℓ_2	Shank Dia. D_s	Overall length L	ℓ	H	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. D_s	Overall length L	ℓ	H	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

*1 After connecting the cutting edge with holder, overall length will be 150 mm long and 200 mm long.

*2 When attaching these tools to milling chucks, never hold the tools at ℓ 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 (mm)	Tightening torque
14	5
16	10
20	30

- ③ Fix the holder firmly when removing/replacing cutting edges. Do 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

- ◆ Tools 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 should be put on at all times.

- ◆ 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.