

Center Drills/Centering Tools



CESA	CE-1	CD-S(II)	CE-29
CE-S	CE-2	CESC	CE-30
CE-S(I)	CE-3	JO-CES	CE-32
CD-S	CE-4	JO-CES V	CE-33
CD-S(I)	CE-5	JO-CDS	CE-34
CD-S LH	CE-6	JO-CDS V	CE-35
CE-S V	CE-7	JO-CDS(II)	CE-36
CE-S V(I)	CE-8	JO-C-CDS	CE-37
C-CD-S	CE-9	JO-PEQ	CE-38
CE-SL	CE-10	JO-PEQ V	CE-39
CD-SL	CE-11	JO-C-PEQ V	CE-40
CE-SL V	CE-12	JO-NCSD V	CE-41
CD-SL V	CE-13	JO-CSQM	CE-42
C-CD-SL	CE-14	JO-HOLDER	CE-43
CEQA	CE-15	PE-Q	CE-46
CE-Q	CE-16	PE-Q V	CE-47
CD-Q	CE-17	C-PE-Q V	CE-48
CD-Q LH	CE-18	PE-QL V	CE-49
CE-Q V	CE-19	PE-S	CE-50
CD-Q V	CE-20	PE-S V	CE-51
C-CD-Q	CE-21	C-PE-S V	CE-52
CE-QL	CE-22	PE-SL V	CE-53
CE-QL V	CE-23	NC-SD V NC-SD	CE-55
C-CD-QL	CE-24	CS-Q	CE-57
CEIR	CE-25	CS-QM	CE-58
CD-R	CE-26	CS-G	CE-59
CESB	CE-27	MHCDS	CE-61
CE-S(II)	CE-28		

CESA

High Helix Center Drills-JIS Type A 60°

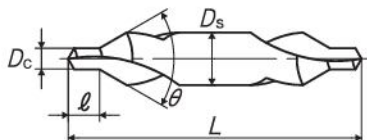
Specification

HSS

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
0.5 × 60° × 3.15	CEA0.5	3.15	31.5	0.8	1	○
0.63 × 60° × 3.15	CEA0.63	3.15	31.5	1	1	○
0.8 × 60° × 3.15	CEA0.8	3.15	31.5	1.2	1	○
1 × 60° × 3.15	CEA1.0	3.15	31.5	1.5	1	○
1.25 × 60° × 3.15	CEA1.25	3.15	31.5	1.9	1	○
1.6 × 60° × 4	CEA1.6	4	35.5	2.4	1	○
2 × 60° × 5	CEA2.0	5	40	3	1	○
2.5 × 60° × 6.3	CEA2.5	6.3	45	3.8	1	○
3.15 × 60° × 8	CEA3.15	8	50	4.8	1	○
4 × 60° × 10	CEA4.0	10	56	6	1	○
5 × 60° × 12.5	CEA5.0	12.5	63	7.5	1	○
6.3 × 60° × 16	CEA6.3	16	71	9.2	1	○
8 × 60° × 20	CEA8.0	20	80	11.5	1	○
10 × 60° × 25	CEA010	25	100	14.2	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length
Dc	Ds	L	ℓ

CE-S

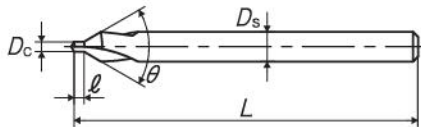
High Helix Center Drills-Type A 60°
Specification

HSS

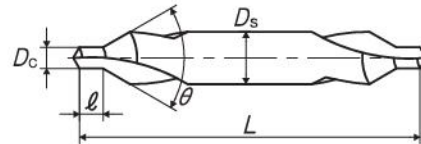
For icon explanation, refer to P.24



TYPE:1



TYPE:2



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
0.3 × 60° × 3	CE0.3	3	35	0.3	1	△
0.4 × 60° × 3	CE0.4	3	35	0.4	1	△
0.5 × 60° × 3.5	CE0.5	3.5	35	0.5	2	○
0.6 × 60° × 3.5	CE0.6	3.5	35	0.6	2	○
0.7 × 60° × 3.5	CE0.7	3.5	35	0.7	2	○
0.8 × 60° × 3.5	CE0.8	3.5	35	0.8	2	○
0.9 × 60° × 4	CE0.9	4	35	0.9	2	○
1 × 60° × 4	CE1.0	4	35	1	2	○
1.2 × 60° × 5	CE1.2	5	40	1.2	2	○
1.5 × 60° × 5	CE1.5	5	40	1.5	2	○
2 × 60° × 6	CE2.0	6	45	2	2	○
2.5 × 60° × 7.7	CE2.5	7.7	50	2.5	2	○
3 × 60° × 7.7	CE3.0	7.7	55	3	2	○
3 × 60° × 8	CE3.0-8	8	55	3	2	○
4 × 60° × 10	CE4.0	10	65	4.5	2	○
5 × 60° × 11	CE5.0	11	78	5.5	2	○
5 × 60° × 12	CE5.0-12	12	78	5.5	2	○
6 × 60° × 16	CE6.0-16	16	90	6.5	2	○
6 × 60° × 18	CE6.0	18	90	6.5	2	○
8 × 60° × 18	CE8.0	18	100	8.5	2	○
10 × 60° × 18	CE010	18	100	11	2	○
12 × 60° × 25	CE012	25	120	13	2	○

CE-S(I)

High Helix Center Drills-Type A 60°, (Old JIS Type 1)

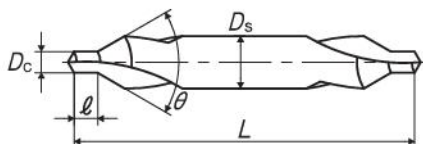
Specification

HSS

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	l (mm)	Type	Stock
2.5 × 60° × 8	CE12.5	8	50	3.5	1	○
3 × 60° × 10	CE13.0	10	55	4	1	○
4 × 60° × 12	CE14.0	12	66	5	1	○
5 × 60° × 14	CE15.0	14	78	6.5	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length
Dc	Ds	L	ℓ

CD-S

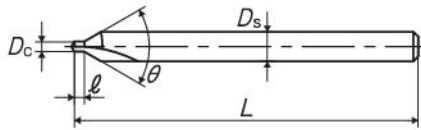
Low Helix Center Drills-Type A 60°
Specification

HSS

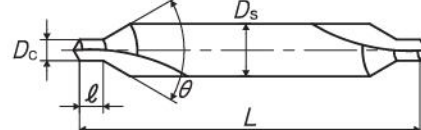
For icon explanation, refer to P.24



TYPE:1



TYPE:2



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
0.3 × 60° × 3	CY0.3	3	35	0.3	1	△
0.4 × 60° × 3	CY0.4	3	35	0.4	1	△
0.5 × 60° × 3.5	CY0.5	3.5	35	0.5	2	○
0.6 × 60° × 3.5	CY0.6	3.5	35	0.6	2	○
0.7 × 60° × 3.5	CY0.7	3.5	35	0.7	2	△
0.8 × 60° × 3.5	CY0.8	3.5	35	0.8	2	○
0.9 × 60° × 4	CY0.9	4	35	0.9	2	△
1 × 60° × 4	CY1.0	4	35	1	2	○
1.2 × 60° × 5	CY1.2	5	40	1.2	2	○
1.5 × 60° × 5	CY1.5	5	40	1.5	2	○
2 × 60° × 6	CY2.0	6	45	2	2	○
2.5 × 60° × 7.7	CY2.5	7.7	50	2.5	2	○
3 × 60° × 7.7	CY3.0	7.7	55	3	2	○
3 × 60° × 8	CY3.0-8	8	55	3	2	○
4 × 60° × 10	CY4.0	10	65	4.5	2	○
5 × 60° × 11	CY5.0	11	78	5.5	2	○
6 × 60° × 16	CY6.0-16	16	90	6.5	2	○
6 × 60° × 18	CY6.0	18	90	6.5	2	○

CD-S(I)

Low Helix Center Drills-Type A 60°, (Old JIS Type 1)

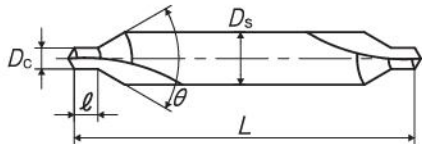
Specification

HSS

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
2.5 × 60° × 8	C12.5	8	50	3.5	1	○
3 × 60° × 10	C13.0	10	55	4	1	○
4 × 60° × 12	C14.0	12	66	5	1	○
5 × 60° × 14	C15.0	14	78	6.5	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length
Dc	Ds	L	ℓ

CD-S LH

Low Helix Center Drills-Type A 60°, Left Hand Cut

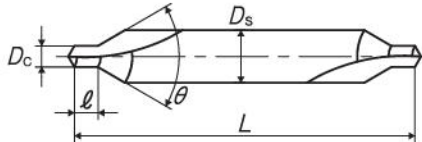
Specification



For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
0.5 × 60° × 3.5	CY0.5-L	3.5	35	0.5	1	△
0.7 × 60° × 3.5	CY0.7-L	3.5	35	0.7	1	△
0.8 × 60° × 3.5	CY0.8-L	3.5	35	0.8	1	△
0.9 × 60° × 4	CY0.9-L	4	35	0.9	1	△
1 × 60° × 4	CY1.0-L	4	35	1	1	△
1.2 × 60° × 5	CY1.2-L	5	40	1.2	1	△
1.5 × 60° × 5	CY1.5-L	5	40	1.5	1	△
2 × 60° × 6	CY2.0-L	6	45	2	1	△
2.5 × 60° × 7.7	CY2.5-L	7.7	50	2.5	1	△
3 × 60° × 7.7	CY3.0-L	7.7	55	3	1	△
4 × 60° × 10	CY4.0-L	10	65	4.5	1	△
5 × 60° × 11	CY5.0-L	11	78	5.5	1	△
6 × 60° × 16	CY6.0-L16	16	90	6.5	1	△
6 × 60° × 18	CY6.0-L	18	90	6.5	1	△

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

CE-S V

High Helix Center Drills-Type A 60°, Coated

Specification

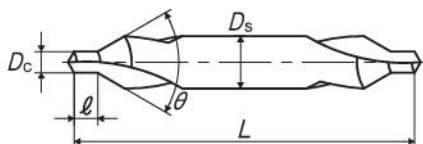


■ Optimum coating suitable for the cutting condition

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 60° × 4	VCE1.0	4	35	1	1	○
1.5 × 60° × 5	VCE1.5	5	40	1.5	1	○
2 × 60° × 6	VCE2.0	6	45	2	1	○
2.5 × 60° × 7.7	VCE2.5	7.7	50	2.5	1	○
3 × 60° × 7.7	VCE3.0	7.7	55	3	1	○
4 × 60° × 10	VCE4.0	10	65	4.5	1	○
5 × 60° × 11	VCE5.0	11	78	5.5	1	○
6 × 60° × 18	VCE6.0	18	90	6.5	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length
Dc	Ds	L	ℓ

CE-S V(I)



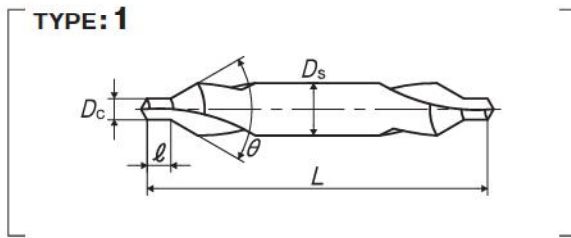
High Helix Center Drills-Type A 60°, Coated, (Old JIS Type 1)

Specification



■Optimum coating suitable for the cutting condition.

For icon explanation, refer to P.24



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
2.5 × 60° × 8	VCE12.5	8	50	3.5	1	△
3 × 60° × 10	VCE13.0	10	55	4	1	△
4 × 60° × 12	VCE14.0	12	66	5	1	△
5 × 60° × 14	VCE15.0	14	78	6.5	1	△

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

C-CD-S

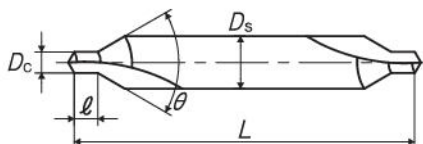
Carbide Center Drills-Type A 60°
Specification

HF

For icon explanation, refer to P.24



TYPE: 1



Segment : 52

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 60° × 4	CCD1.0	4	35	1	1	◎
1.2 × 60° × 5	CCD1.2	5	40	1.2	1	△
1.5 × 60° × 5	CCD1.5	5	40	1.5	1	◎
2 × 60° × 6	CCD2.0	6	45	2	1	◎
2.5 × 60° × 7.7	CCD2.5	7.7	50	2.5	1	◎
2.5 × 60° × 8	CCD2.5-8	8	50	2.5	1	△
3 × 60° × 7.7	CCD3.0	7.7	55	3	1	◎
3 × 60° × 8	CCD3.0-8	8	55	3	1	△
4 × 60° × 10	CCD4.0	10	65	4.5	1	◎
5 × 60° × 11	CCD5.0	11	78	5.5	1	○
5 × 60° × 12	CCD5.0-12	12	78	5.5	1	△
6 × 60° × 18	CCD6.0	18	90	6.5	1	△

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length
Dc	Ds	L	ℓ

CE-SL

Long Shank High Helix Center Drills-Type A 60°

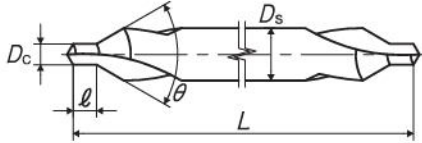
Specification

HSS

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 60° × 4	CEL1.0	4	100	1	1	⊙
	CEM1.0		150			○
1.5 × 60° × 5	CEL1.5	5	100	1.5	1	⊙
	CEM1.5		150			○
2 × 60° × 6	CEL2.0	6	100	2	1	⊙
	CEM2.0		150			○
2.5 × 60° × 8	CEL2.5	8	100	2.5	1	⊙
	CEM2.5		150			○
3 × 60° × 8	CEL3.0	8	100	3	1	⊙
	CEM3.0		150			○
	CEN3.0		200			△
4 × 60° × 10	CEL4.0	10	100	4.5	1	⊙
	CEM4.0		150			○
	CEN4.0		200			△
5 × 60° × 12	CEL5.0	12	100	5.5	1	⊙
	CEM5.0		150			○
	CEN5.0		200			△

⊙=Standard ○=Semi standard △=Made to order
For improvement, spec may change without advance notice.

Think threads with
YAMAWA

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

CE-10

403

CD-SL

Long Shank Low Helix Center Drills-Type A 60°

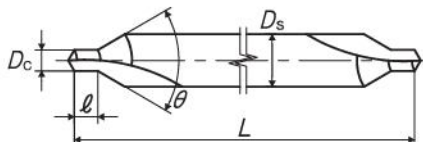
Specification

HSS

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 60° × 4	CDL1.0	4	100	1	1	○
	CDM1.0		150			○
1.5 × 60° × 5	CDL1.5	5	100	1.5	1	○
	CDM1.5		150			○
2 × 60° × 6	CDL2.0	6	100	2	1	◎
	CDM2.0		150			○
2.5 × 60° × 8	CDL2.5	8	100	2.5	1	◎
	CDM2.5		150			○
3 × 60° × 8	CDL3.0	8	100	3	1	◎
	CDM3.0		150			○
	CDN3.0		200			△
4 × 60° × 10	CDL4.0	10	100	4.5	1	◎
	CDM4.0		150			○
	CDN4.0		200			△
5 × 60° × 12	CDL5.0	12	100	5.5	1	○
	CDM5.0		150			○
	CDN5.0		200			△

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length
Dc	Ds	L	ℓ

CE-SL V



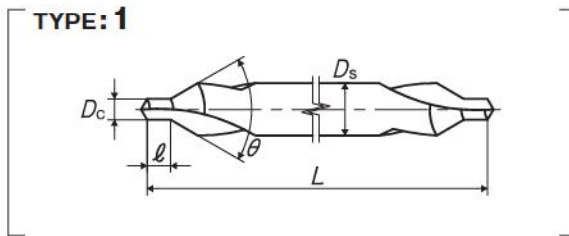
Long Shank High Helix Center Drills-Type A 60°, Coated

Specification



■Optimum coating suitable for the cutting condition

For icon explanation, refer to P.24



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 60° × 4	VCEL1.0	4	100	1	1	○
	VCEM1.0		150			○
1.5 × 60° × 5	VCEL1.5	5	100	1.5	1	○
	VCEM1.5		150			○
2 × 60° × 6	VCEL2.0	6	100	2	1	◎
	VCEM2.0		150			○
2.5 × 60° × 8	VCEL2.5	8	100	2.5	1	○
	VCEM2.5		150			○
3 × 60° × 8	VCEL3.0	8	100	3	1	◎
	VCEM3.0		150			○
4 × 60° × 10	VCEL4.0	10	100	4.5	1	○
	VCEM4.0		150			○
5 × 60° × 12	VCEL5.0	12	100	5.5	1	○
	VCEM5.0		150			○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Fluted Taps
(for through hole)

Hand Taps
Spiral Pointed Taps
(for through hole)

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

CD-SL V

Long Shank Low Helix Center Drills-Type A 60°, Coated

Specification

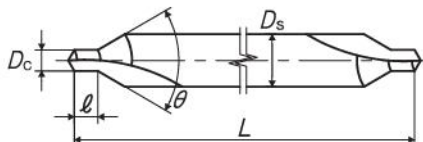


■Optimum coating suitable for the cutting condition

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 60° × 4	VCDL1.0	4	100	1	1	△
	VCDM1.0		150			
1.5 × 60° × 5	VCDL1.5	5	100	1.5	1	△
	VCDM1.5		150			
2 × 60° × 6	VCDL2.0	6	100	2	1	△
	VCDM2.0		150			
2.5 × 60° × 8	VCDL2.5	8	100	2.5	1	△
	VCDM2.5		150			
3 × 60° × 8	VCDL3.0	8	100	3	1	△
	VCDM3.0		150			
4 × 60° × 10	VCDL4.0	10	100	4.5	1	△
	VCDM4.0		150			
5 × 60° × 12	VCDL5.0	12	100	5.5	1	△
	VCDM5.0		150			

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length
Dc	Ds	L	ℓ

C-CD-SL



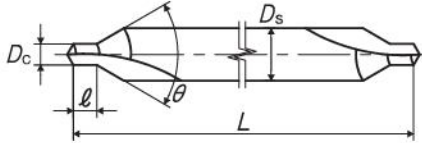
Long Shank Low Helix Carbide Center Drills-Type A 60°

Specification

HF

For icon explanation, refer to P.24

TYPE: 1



Segment : 52

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 60° × 4	CCDL1.0	4	100	1	1	△
1.5 × 60° × 5	CCDL1.5	5	100	1.5	1	△
2 × 60° × 6	CCDL2.0	6	100	2	1	△
	CCDM2.0		150			
2.5 × 60° × 8	CCDL2.5	8	100	2.5	1	△
	CCDM2.5		150			
3 × 60° × 8	CCDL3.0	8	100	3	1	△
	CCDM3.0		150			
4 × 60° × 10	CCDL4.0	10	100	4.5	1	△
	CCDM4.0		150			
5 × 60° × 12	CCDL5.0	12	100	5.5	1	△
	CCDM5.0		150			

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Fluted Taps
(for through hole)

Hand Taps
Spiral Pointed Taps
(for through hole)

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools



CEQA

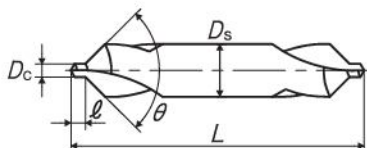
High Helix Center Drills-JIS Type A 90°

Specification

HSS

For icon explanation, refer to P.24

TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 90° × 4	CEA1.0Q	4	35.5	1.1	1	○
1.25 × 90° × 5	CEA1.25Q	5	40	1.4	1	○
1.6 × 90° × 6.3	CEA1.6Q	6.3	45	1.8	1	○
2 × 90° × 8	CEA2.0Q	8	50	2.2	1	○
2.5 × 90° × 10	CEA2.5Q	10	56	2.8	1	○
3.15 × 90° × 11.2	CEA3.15Q	11.2	60	3.6	1	○
4 × 90° × 12.5	CEA4.0Q	12.5	63	4.5	1	○
5 × 90° × 16	CEA5.0Q	16	71	5.6	1	○
6.3 × 90° × 20	CEA6.3Q	20	80	7.1	1	○
8 × 90° × 25	CEA8.0Q	25	100	9	1	○
10 × 90° × 31.5	CEA10Q	31.5	125	11.2	1	○
12.5 × 90° × 35.5	CEA12.5Q	35.5	140	14	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length
Dc	Ds	L	ℓ

CE-Q

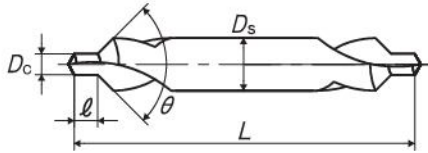
High Helix Center Drills-Type A 90°
Specification

HSS

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
0.5 × 90° × 3.5	CY0.5Z	3.5	35	0.5	1	△
0.6 × 90° × 3.5	CY0.6Z	3.5	35	0.6	1	△
0.7 × 90° × 3.5	CY0.7Z	3.5	35	0.7	1	○
0.8 × 90° × 3.5	CY0.8Z	3.5	35	0.8	1	○
0.9 × 90° × 4	CY0.9Z	4	35	0.9	1	△
1 × 90° × 4	CY1.0Z	4	35	1	1	○
1.2 × 90° × 5	CY1.2Z	5	40	1.2	1	△
1.5 × 90° × 5	CY1.5Z	5	40	1.5	1	○
2 × 90° × 6	CY2.0Z	6	45	2	1	○
2.5 × 90° × 7.7	CY2.5Z	7.7	50	2.5	1	○
3 × 90° × 7.7	CY3.0Z	7.7	55	3	1	○
4 × 90° × 10	CY4.0Z	10	65	4.5	1	○
5 × 90° × 11	CY5.0Z	11	78	5.5	1	○
6 × 90° × 16	CY6.0Z-16	16	90	6.5	1	○
6 × 90° × 18	CY6.0Z	18	90	6.5	1	○

CD-Q

Low Helix Center Drills-Type A 90°

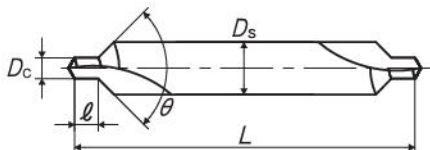
Specification

HSS

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 90° × 4	CY1.0Q	4	35	1	1	○
1.5 × 90° × 5	CY1.5Q	5	40	1.5	1	○
2 × 90° × 6	CY2.0Q	6	45	2	1	○
2.5 × 90° × 7.7	CY2.5Q	7.7	50	2.5	1	○
3 × 90° × 7.7	CY3.0Q	7.7	55	3	1	○
4 × 90° × 10	CY4.0Q	10	65	4.5	1	○
5 × 90° × 11	CY5.0Q	11	78	5.5	1	○
6 × 90° × 16	CY6.0Q-16	16	90	6.5	1	△
6 × 90° × 18	CY6.0Q	18	90	6.5	1	△

Drill dia.	Shank dia.	Overall length	Drill length
Dc	Ds	L	ℓ

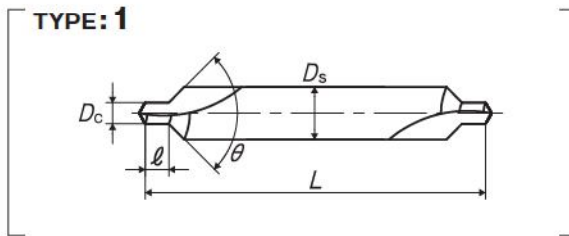
CD-Q LH

Low Helix Center Drills - Type A 90°, Left Hand Cut

Specification



For icon explanation, refer to P.24



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 90° × 4	CY1.0Q-L	4	35	1	1	△
1.2 × 90° × 5	CY1.2Q-L	5	40	1.2	1	△
1.5 × 90° × 5	CY1.5Q-L	5	40	1.5	1	△
2 × 90° × 6	CY2.0Q-L	6	45	2	1	△
2.5 × 90° × 7.7	CY2.5Q-L	7.7	50	2.5	1	△
2.5 × 90° × 8	CY2.5Q8L	8	50	2.5	1	△
3 × 90° × 7.7	CY3.0Q-L	7.7	55	3	1	△
3 × 90° × 8	CY3.0Q8L	8	55	3	1	△
4 × 90° × 10	CY4.0Q-L	10	65	4.5	1	△
5 × 90° × 12	CY5.0Q12L	12	78	5.5	1	△
6 × 90° × 18	CY6.0Q-L	18	90	6.5	1	△

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

CE-Q V

High Helix Center Drills-Type A 90°, Coated

Specification

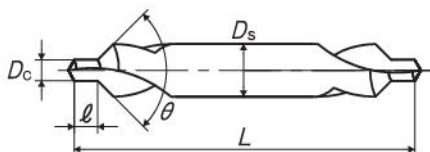


■ Optimum coating suitable for the cutting condition

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 90° × 4	VCY1.0Z	4	35	1	1	○
1.5 × 90° × 5	VCY1.5Z	5	40	1.5	1	○
2 × 90° × 6	VCY2.0Z	6	45	2	1	○
2.5 × 90° × 7.7	VCY2.5Z	7.7	50	2.5	1	○
3 × 90° × 7.7	VCY3.0Z	7.7	55	3	1	○
4 × 90° × 10	VCY4.0Z	10	65	4.5	1	○
5 × 90° × 11	VCY5.0Z	11	78	5.5	1	○
6 × 90° × 18	VCY6.0Z	18	90	6.5	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length
Dc	Ds	L	ℓ

CD-Q V

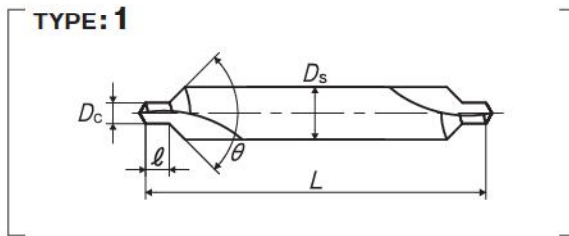
Low Helix Center Drills-Type A 90°, Coated

Specification



For icon explanation, refer to P.24

■Optimum coating suitable for the cutting condition



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 90° × 4	VCY1.0Q	4	35	1	1	△
1.5 × 90° × 5	VCY1.5Q	5	40	1.5	1	△
2 × 90° × 6	VCY2.0Q	6	45	2	1	△
2.5 × 90° × 7.7	VCY2.5Q	7.7	50	2.5	1	△
3 × 90° × 7.7	VCY3.0Q	7.7	55	3	1	△
4 × 90° × 10	VCY4.0Q	10	65	4.5	1	△
5 × 90° × 11	VCY5.0Q	11	78	5.5	1	△
6 × 90° × 18	VCY6.0Q	18	90	6.5	1	△

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

C-CD-Q

Low Helix Carbide Center Drills-Type A 90°

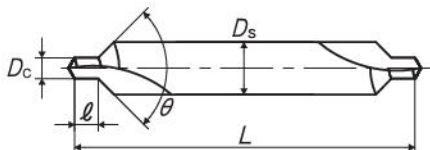
Specification

HF

For icon explanation, refer to P.24



TYPE: 1



Segment : 52

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 90° × 4	CC1.0Q	4	35	1	1	△
1.5 × 90° × 5	CC1.5Q	5	40	1.5	1	△
2 × 90° × 6	CC2.0Q	6	45	2	1	△
2.5 × 90° × 7.7	CC2.5Q	7.7	50	2.5	1	△
2.5 × 90° × 8	CC2.5Q-8	8	50	2.5	1	△
3 × 90° × 7.7	CC3.0Q	7.7	55	3	1	△
3 × 90° × 8	CC3.0Q-8	8	55	3	1	△
4 × 90° × 10	CC4.0Q	10	65	4.5	1	△
5 × 90° × 11	CC5.0Q	11	78	5.5	1	△
5 × 90° × 12	CC5.0Q-12	12	78	5.5	1	△
6 × 90° × 18	CC6.0Q	18	90	6.5	1	△

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length
Dc	Ds	L	ℓ

CE-QL

Long Shank High Helix Center Drills-Type A 90°

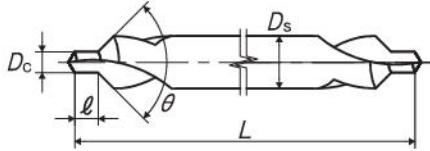
Specification

HSS

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 90° × 4	CL1.0Z	4	100	1	1	⊙
	CM1.0Z		150			△
1.5 × 90° × 5	CL1.5Z	5	100	1.5	1	⊙
	CM1.5Z		150			○
2 × 90° × 6	CL2.0Z	6	100	2	1	⊙
	CM2.0Z		150			○
2.5 × 90° × 8	CL2.5Z	8	100	2.5	1	⊙
	CM2.5Z		150			○
3 × 90° × 8	CL3.0Z	8	100	3	1	⊙
	CM3.0Z		150			○
4 × 90° × 10	CL4.0Z	10	100	4.5	1	⊙
	CM4.0Z		150			○
5 × 90° × 12	CL5.0Z	12	100	5.5	1	⊙
	CM5.0Z		150			○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

CE-QL V

Long Shank High Helix Center Drills-Type A 90°, Coated

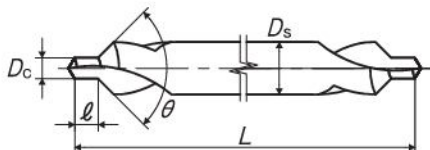
Specification



■Optimum coating suitable for the cutting condition

For icon explanation, refer to P.24

TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 90° × 4	VCL1.0Z	4	100	1	1	○
	VCM1.0Z		150			△
1.5 × 90° × 5	VCL1.5Z	5	100	1.5	1	○
	VCM1.5Z		150			△
2 × 90° × 6	VCL2.0Z	6	100	2	1	○
	VCM2.0Z		150			
2.5 × 90° × 8	VCL2.5Z	8	100	2.5	1	○
	VCM2.5Z		150			
3 × 90° × 8	VCL3.0Z	8	100	3	1	○
	VCM3.0Z		150			
4 × 90° × 10	VCL4.0Z	10	100	4.5	1	○
	VCM4.0Z		150			
5 × 90° × 12	VCL5.0Z	12	100	5.5	1	○
	VCM5.0Z		150			



Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length
Dc	Ds	L	ℓ

C-CD-QL



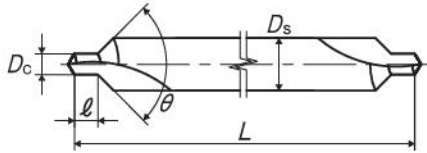
Long Shank Low Helix Carbide Center Drills-Type A 90°

Specification

HF

For icon explanation, refer to P.24

TYPE: 1



Segment : 52

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 90° × 4	CCL1.0Q	4	100	1	1	△
1.5 × 90° × 5	CCL1.5Q	5	100	1.5	1	△
2 × 90° × 6	CCL2.0Q	6	100	2	1	△
	CCM2.0Q		150			
2.5 × 90° × 8	CCL2.5Q	8	100	2.5	1	△
	CCM2.5Q		150			
3 × 90° × 8	CCL3.0Q	8	100	3	1	△
	CCM3.0Q		150			
4 × 90° × 10	CCL4.0Q	10	100	4.5	1	△
	CCM4.0Q		150			
5 × 90° × 12	CCL5.0Q	12	100	5.5	1	△
	CCM5.0Q		150			

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

CEIR

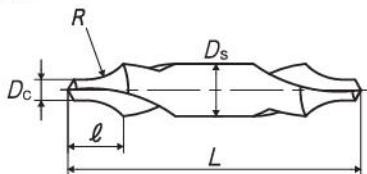
High Helix Center Drills-JIS Type R
Specification

HSS

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × ℓ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Rmax (mm)	Rmin (mm)	Type	Stock
1 × R × 3.15	CE1.0RI	3.15	31.5	3	3.15	2.5	1	◎
1.25 × R × 3.15	CE1.25RI	3.15	31.5	3.35	4	3.15	1	◎
1.6 × R × 4	CE1.6RI	4	35.5	4.25	5	4	1	◎
2 × R × 5	CE2.0RI	5	40	5.3	6.3	5	1	◎
2.5 × R × 6.3	CE2.5RI	6.3	45	6.7	8	6.3	1	◎
3.15 × R × 8	CE3.15RI	8	50	8.5	10	8	1	◎
4 × R × 10	CE4.0RI	10	56	10.6	12.5	10	1	◎
5 × R × 12.5	CE5.0RI	12.5	63	13.2	16	12.5	1	◎
6.3 × R × 16	CE6.3RI	16	71	17	20	16	1	◎
8 × R × 20	CE8.0RI	20	80	21.2	25	20	1	◎
10 × R × 25	CE10RI	25	100	26.5	31.5	25	1	◎

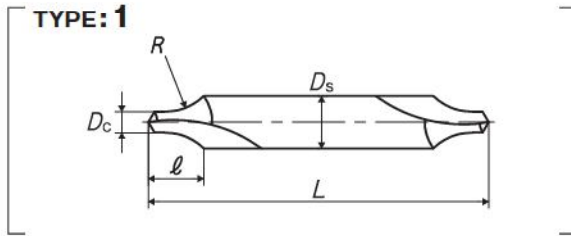
Drill dia.	Shank dia.	Overall length	Cut length	Rmax (mm)	Rmin (mm)
Dc	Ds	L	ℓ	-	-

CD-R

Low Helix Center Drills-Type R Specification

HSS

For icon explanation, refer to P.24



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	L (mm)	ℓ (mm)	Rmax (mm)	Type	Stock
0.7 × R × 3.5	CY0.7R	3.5	35	2.5	2.4	1	△
0.8 × R × 3.5	CY0.8R	3.5	35	2.6	2.4	1	△
1 × R × 4	CY1.0R	4	35	3.25	2.9	1	△
1.5 × R × 5	CY1.5R	5	40	4.6	4.6	1	○
2 × R × 6	CY2.0R	6	45	5.75	5.8	1	○
2.5 × R × 7.7	CY2.5R	7.7	50	7.3	7.4	1	○
3 × R × 7.7	CY3.0R	7.7	55	8.3	9.3	1	○
4 × R × 10	CY4.0R	10	65	10.6	11.5	1	○
5 × R × 11	CY5.0R	11	78	12.4	14.7	1	△
6 × R × 16	CY6.0R-16	16	90	16.9	18.5	1	△
6 × R × 18	CY6.0R	18	90	17.8	18.5	1	△

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

CESB

High Helix Center Drills-JIS Type B 60°

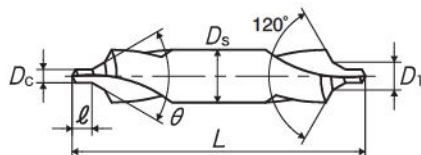
Specification

HSS

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	D1 (mm)	L (mm)	l (mm)	Type	Stock
0.5 × 60° × 3.15	CEB0.5	3.15	1.06	31.5	0.8	1	○
0.63 × 60° × 3.15	CEB0.63	3.15	1.32	31.5	1	1	○
0.8 × 60° × 3.15	CEB0.8	3.15	1.7	31.5	1.2	1	○
1 × 60° × 4	CEB1.0	4	2.12	35.5	1.5	1	○
1.25 × 60° × 5	CEB1.25	5	2.65	40	1.9	1	○
1.6 × 60° × 6.3	CEB1.6	6.3	3.35	45	2.4	1	○
2 × 60° × 8	CEB2.0	8	4.25	50	3	1	○
2.5 × 60° × 10	CEB2.5	10	5.3	56	3.8	1	○
3.15 × 60° × 11.2	CEB3.15	11.2	6.7	60	4.8	1	○
4 × 60° × 14	CEB4.0	14	8.5	67	6	1	○
5 × 60° × 18	CEB5.0	18	10.6	75	7.5	1	○
6.3 × 60° × 20	CEB6.3	20	13.2	80	9.2	1	○
8 × 60° × 25	CEB8.0	25	17	100	11.5	1	○
10 × 60° × 31.5	CEB10	31.5	21.2	125	14.2	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Maximum dia.	Overall length	Drill length
Dc	Ds	D ₁	L	ℓ

CE-S(II)

High Helix Center Drills-Type B 60°, (Old JIS Type 2)

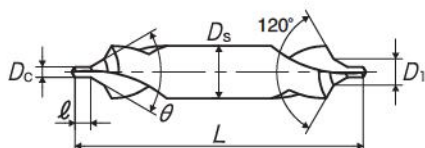
Specification

HSS

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	D ₁ (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 60° × 6	CE21.0	6	2.5	45	1.5	1	○
1.5 × 60° × 8	CE21.5	8	4	50	2	1	○
2 × 60° × 10	CE22.0	10	5	55	3	1	○
2.5 × 60° × 12	CE22.5	12	6.5	60	3.5	1	○
3 × 60° × 14	CE23.0	14	8	65	4	1	○
4 × 60° × 18	CE24.0	18	10	76	5	1	○
5 × 60° × 22	CE25.0	22	12	88	6.5	1	○
6 × 60° × 25	CE26.0	25	15	100	8	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Maximum dia.	Overall length	Drill length
Dc	Ds	D ₁	L	ℓ

CD-S(II)

Low Helix Center Drills-Type B 60°, (Old JIS Type 2)

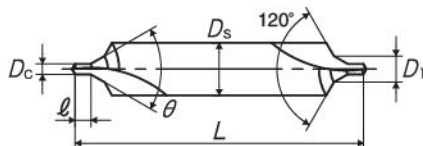
Specification

HSS

For icon explanation, refer to P.24



TYPE: 1



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	D ₁ (mm)	L (mm)	ℓ (mm)	Type	Stock
1 × 60° × 6	C21.0	6	2.5	45	1.5	1	○
1.5 × 60° × 8	C21.5	8	4	50	2	1	○
2 × 60° × 10	C22.0	10	5	55	3	1	○
2.5 × 60° × 12	C22.5	12	6.5	60	3.5	1	○
3 × 60° × 14	C23.0	14	8	65	4	1	○
4 × 60° × 18	C24.0	18	10	76	5	1	○
5 × 60° × 22	C25.0	22	12	88	6.5	1	○
6 × 60° × 25	C26.0	25	15	100	8	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

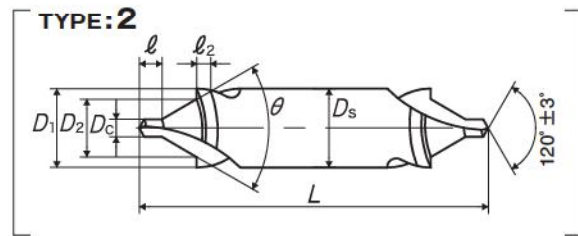
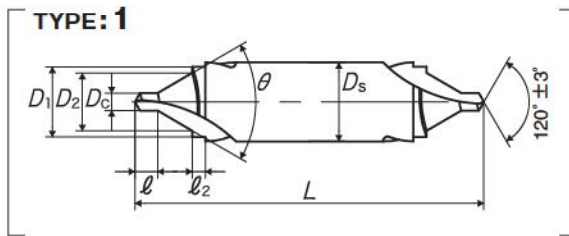
Drill dia.	Shank dia.	—	Maximum dia.	Overall length	Drill length	Larger cut length
Dc	Ds	D ₁	D ₂	L	ℓ	ℓ ₂

CESC

High Helix Center Drills-JIS Type C 60° Specification

HSS

For icon explanation, refer to P.24



Segment : 51

Size Dc × θ × Ds	Code	Ds (mm)	D ₁ (mm)	D ₂ (mm)	L (mm)	ℓ (mm)	ℓ ₂ (mm)	Type	Stock
0.5 × 60° × 3.15	CEC0.5	3.15	1.6	1.06	31.5	0.8	0.6	1	○
0.63 × 60° × 3.15	CEC0.63	3.15	2	1.32	31.5	1	0.8	1	○
0.8 × 60° × 3.15	CEC0.8	3.15	2.5	1.7	31.5	1.2	1	1	○
1 × 60° × 3.15	CEC1.0	3.15	3.15	2.12	31.5	1.5	1.2	2	○
1.25 × 60° × 4	CEC1.25	4	4	2.65	35.5	1.9	1.5	2	○
1.6 × 60° × 5	CEC1.6	5	5	3.35	40	2.4	1.8	2	○
2 × 60° × 6.3	CEC2.0	6.3	6.3	4.25	45	3	2.2	2	○
2.5 × 60° × 8	CEC2.5	8	8	5.3	50	3.8	3	2	○
3.15 × 60° × 10	CEC3.15	10	10	6.7	56	4.8	3.5	2	○
4 × 60° × 12.5	CEC4.0	12.5	12.5	8.5	63	6	4.2	2	○
5 × 60° × 16	CEC5.0	16	16	10.6	71	7.5	5.5	2	○
6.3 × 60° × 18	CEC6.3	18	18	13.2	75	9.2	5.5	2	○
8 × 60° × 22.4	CEC8.0	22.4	22.4	17	90	11.5	5.5	2	○
10 × 60° × 28	CEC010	28	28	21.2	112	14.2	7	2	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

JOINT TOOLS

Product features

1

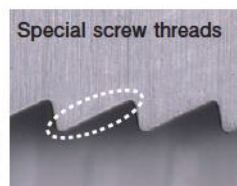
Economy

To one holder, it is possible to attach various kinds of cutters selected to meet the application.
If the cutter has become damaged, all you have to do is only to change the cutter.

2

Increased fastening power.

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



Special screw threads

3

Severe run-out tolerance.

Severe run-out tolerance is secured by having cone shape face at jointing portion.

Jointing portion (mating with cone face)



4

High rigidity.

Powerful tightening assures the high rigidity, and enables cutting operation even under heavy load.

Joint tool



Remarks

Please use spanners (JIS B4630) when exchanging cutters.

For spanner's width size, refer to H sizes shown in specification table.

Take special care while tightening, 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



Obtainable from
Video site shown in right

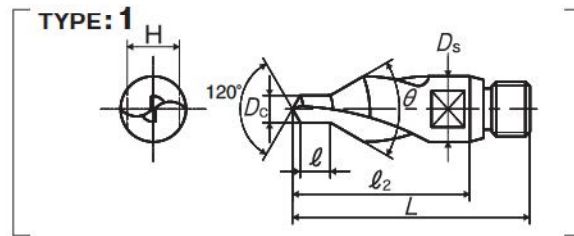
Drill dia.	Shank dia.	Overall length	Drill length	Body length	—
Dc	Ds	L	ℓ	ℓ_2	H

JO-CES

Joint- High Helix Center Drills-Type A 60°
Specification

HSS

For icon explanation, refer to P.24



Segment : 5C

Size Dc x θ	Code	Ds (mm)	L (mm)	ℓ (mm)	ℓ_2 (mm)	H (mm)	Adaptable holder Shank dia	Type	Stock
4 × 60°	JCE4.0	10	37.5	4.5	27.5	8	14	1	○
5 × 60°	JCE5.0	12	43.5	5.5	32.5	10	16	1	○
6 × 60°	JCE6.0	16	48.5	6.5	34.5	13	20	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

JO-CES V

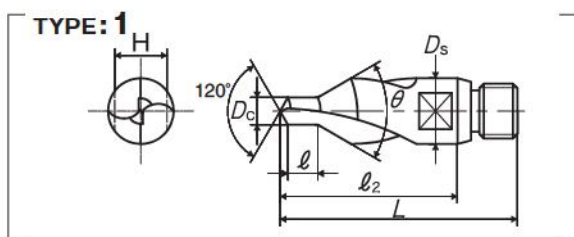
Joint- High Helix Center Drills-Type A 60°, Coated

Specification



■ Optimum coating suitable for the cutting condition

For icon explanation, refer to P.24



Segment : 51

Size Dc × θ	Code	Ds (mm)	L (mm)	l (mm)	l ₂ (mm)	H (mm)	Adaptable holder Shank dia	Type	Stock
4 × 60°	JVCE4.0	10	37.5	4.5	27.5	8	14	1	○
5 × 60°	JVCE5.0	12	43.5	5.5	32.5	10	16	1	○
6 × 60°	JVCE6.0	16	48.5	6.5	34.5	13	20	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

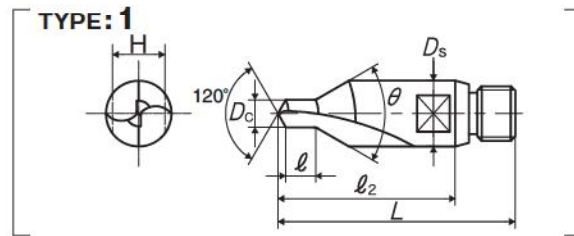
Drill dia.	Shank dia.	Overall length	Drill length	Body length	—
Dc	Ds	L	ℓ	ℓ_2	H

JO-CDS

Joint- Low Helix Center Drills-Type A 60°
Specification

HSS

For icon explanation, refer to P.24



Segment : 52

Size Dc x θ	Code	Ds (mm)	L (mm)	ℓ (mm)	ℓ_2 (mm)	H (mm)	Adaptable holder Shank dia	Type	Stock
4 x 60°	JCY4.0	10	37.5	4.5	27.5	8	14	1	○
5 x 60°	JCY5.0	12	43.5	5.5	32.5	10	16	1	○
6 x 60°	JCY6.0	16	48.5	6.5	34.5	13	20	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length	Body length	—
Dc	Ds	L	ℓ	ℓ_2	H



JO-CDS V

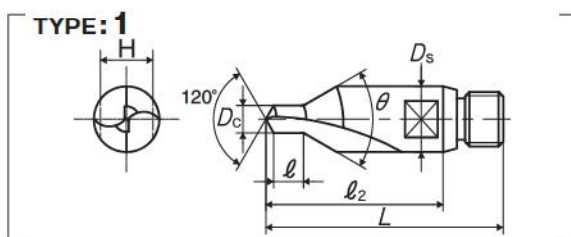
Joint- Low Helix Center Drills-Type A 60°, Coated

Specification



■ Optimum coating suitable for the cutting condition

For icon explanation, refer to P.24



Segment : 51

Size Dc × θ	Code	Ds (mm)	L (mm)	ℓ (mm)	ℓ_2 (mm)	H (mm)	Adaptable holder Shank dia	Type	Stock
4 × 60°	JVCY4.0	10	37.5	4.5	27.5	8	14	1	○
5 × 60°	JVCY5.0	12	43.5	5.5	32.5	10	16	1	○
6 × 60°	JVCY6.0	16	48.5	6.5	34.5	13	20	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Maximum dia.	Overall length	Drill length	Body length	—
Dc	Ds	D ₁	L	ℓ	ℓ ₂	H

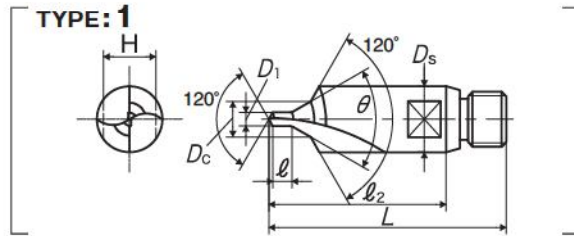
JO-CDS(II)

Joint- Low Helix Center Drills-Type B 60°, (Old JIS Type 2)

Specification

HSS

For icon explanation, refer to P.24



Segment : 52

Size Dc × θ	Code	Ds (mm)	D ₁ (mm)	L (mm)	ℓ (mm)	ℓ ₂ (mm)	H (mm)	Adaptable holder Shank dia	Type	Stock
2 × 60°	JC22.0	10	5	37.5	3	27.5	8	14	1	○
2.5 × 60°	JC22.5	12	6.5	43.5	3.5	32.5	10	16	1	○
3 × 60°	JC23.0	16	8	48.5	4	34.5	13	20	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Drill length	Body length	—
Dc	Ds	L	ℓ	ℓ_2	H



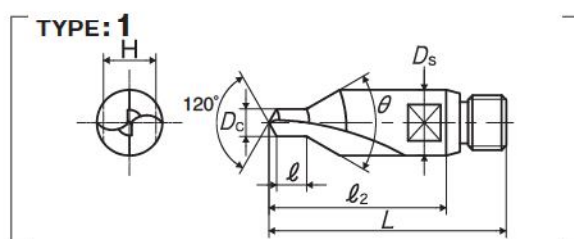
JO-C-CDS

Joint- Low Helix Carbide Center Drills-Type A 60°

Specification

HF

For icon explanation, refer to P.24



Segment : 51

Size Dc x θ	Code	Ds (mm)	L (mm)	ℓ (mm)	ℓ_2 (mm)	H (mm)	Adaptable holder Shank dia	Type	Stock
4 x 60°	JCCY4.0	10	37.5	4.5	27.5	8	14	1	○
5 x 60°	JCCY5.0	12	43.5	5.5	32.5	10	16	1	○
6 x 60°	JCCY6.0	16	48.5	6.5	34.5	13	20	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

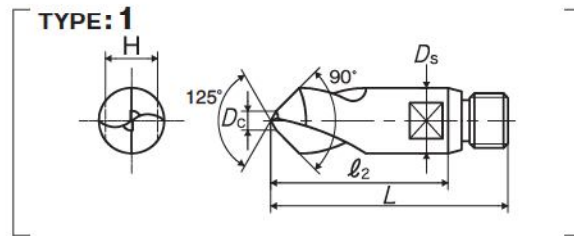
Shank dia.	Point dia.	Overall length	Body length	—
Ds	Dc	L	ℓ_2	H

JO-PEQ

Joint- Point Drills 90°
Specification

HSS

For icon explanation, refer to P.24



Segment : 52

Size Ds × Dc	Code	Ds (mm)	Dc (mm)	L (mm)	ℓ_2 (mm)	H (mm)	Adaptable holder Shank dia	Type	Stock
10 × 3	JPE010Q	10	3	37.5	27.5	8	14	1	○
12 × 3.5	JPE012Q	12	3.5	43.5	32.5	10	16	1	○
16 × 4	JPE016Q	16	4	48.5	34.5	13	20	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

JO-PEQ V

Joint- Point Drills 90°, Coated
Specification

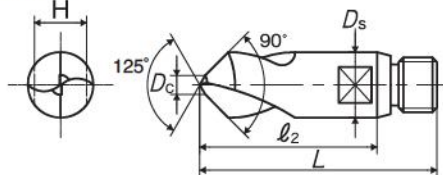


For icon explanation, refer to P.24



■ Optimum coating suitable for the cutting condition

TYPE: 1



Segment : 51

Size Ds × Dc	Code	Ds (mm)	Dc (mm)	L (mm)	l ₂ (mm)	H (mm)	Adaptable holder Shank dia	Type	Stock
10 × 3	JVPE010Q	10	3	37.5	27.5	8	14	1	○
12 × 3.5	JVPE012Q	12	3.5	43.5	32.5	10	16	1	○
16 × 4	JVPE016Q	16	4	48.5	34.5	13	20	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Shank dia.	Point dia.	Overall length	Body length	—
Ds	Dc	L	ℓ_2	H

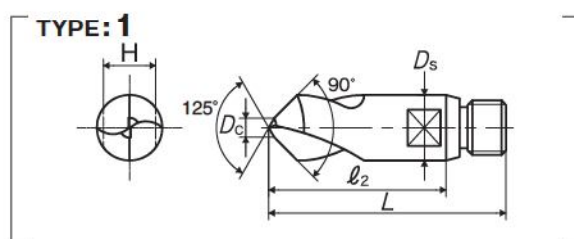
JO-C-PEQ V

Joint- Carbide Point Drills 90°, Coated
Specification



For icon explanation, refer to P.24

■Optimum coating suitable for the cutting condition



Segment : 51

Size Ds × Dc	Code	Ds (mm)	Dc (mm)	L (mm)	ℓ_2 (mm)	H (mm)	Adaptable holder Shank dia	Type	Stock
10 × 3	JVCPE010Q	10	3	37.5	27.5	8	14	1	○
12 × 3.5	JVCPE012Q	12	3.5	43.5	32.5	10	16	1	○
16 × 4	JVCPE016Q	16	4	48.5	34.5	13	20	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Drill dia.	Shank dia.	Overall length	Body length	—
Dc	Ds	L	ℓ_2	H



JO-NCSD V

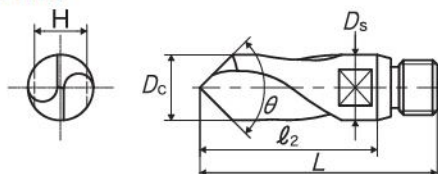
Joint- NC Starting Drills for Beveling, Coated
Specification



■ Optimum coating suitable for the cutting condition

For icon explanation, refer to P.24

TYPE: 1



Segment : 51

Size Dc × θ	Code	Ds (mm)	L (mm)	ℓ_2 (mm)	H (mm)	Adaptable holder Shank dia	Type	Stock
10 × 90°	JVCS-D010Q	10	37.5	27.5	8	14	1	○
12 × 90°	JVCS-D012Q	12	43.5	32.5	10	16	1	○
16 × 90°	JVCS-D016Q	16	48.5	34.5	13	20	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

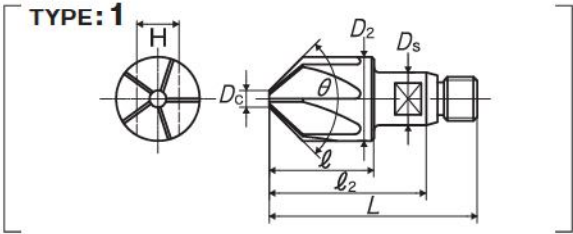
Drill dia.	Shank dia.	Tool end dia.	Overall length	Cutting edge length	Body length	—
D ₂	D _s	D _c	L	ℓ	ℓ ₂	H

JO-CSQM

Joint- Countersinks 90°, Drilling Machine Use
Specification

HSS

For icon explanation, refer to P.24



Segment : 51

Size D ₂ × θ	Code	D _s (mm)	D _c (mm)	L (mm)	ℓ (mm)	ℓ ₂ (mm)	H (mm)	Adaptable holder Shank dia	Type	Stock
16 × 90°	JCS016QM9	10	3.2	37.5	20	27.5	8	14	1	○
20 × 90°	JCS020QM9	12	4	43.5	24	32.5	10	16	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Fluted Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Shank dia.	Overall length	Body length	—
Ds	L	ℓ	H

JO-HOLDER

Holders for Joint Tools, for 150mm and for 200mm

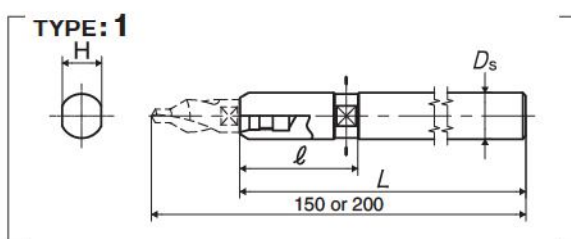
Specification

**Alloy
steel**

For icon explanation, refer to P.24



■ Each holder can attach itself to several types of cutters depending on their usage.



Segment : 5A

Size	Code	Ds (mm)	L (mm)	ℓ (mm)	H (mm)	Applicable cutting edge shank dia.	Type	Stock
150mm	JH1014M	14	122.5	36	12	10	1	○
150mm	JH1216M	16	117.5	37	14	12	1	○
150mm	JH1620M	20	115.5	41	17	16	1	○
200mm	JH1014N	14	172.5	36	12	10	1	○
200mm	JH1216N	16	167.5	37	14	12	1	○
200mm	JH1620N	20	165.5	41	17	16	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

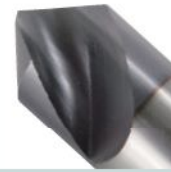
Centering Tools

Centering Tools

POINT DRILLS

Product features

- High rigidity design of the drills enables high speed cutting.
- High helix design enables high accuracy of surface finishing due to excellent cutting performance.



Point angle: 125°,
Chamfering angle: 90° (60°)
By using two types of
angles, centering process
and chamfering process are
obtained at the same time.

- Different from normal center drills, because of no drill portion, there is no breakage trouble of drill portion.
- Two processes, centering and chamfering, are obtained at the same time. Point drills are also used for other processes such as fluting.
- The figures of drill end are two stepped flat type. This type enables excellent chamfering, and high precision cutting becomes possible.

Examples of usage

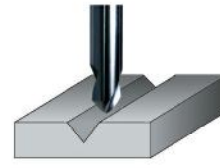
Centering Chamfering



Beveling



Fluting



Cutting processes

Point drills

Centering process
and chamfering
process are obtained
at the same time.



Drilling

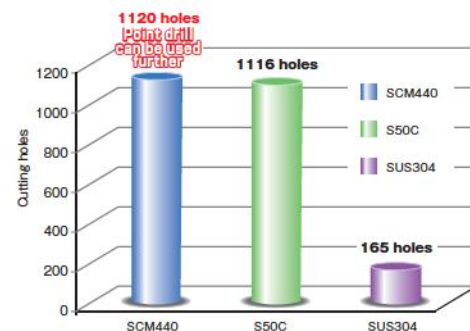


Tapping



Test of continuous centering

Tool	Work material	Cutting speed	Feed	Dia. of chamfer hole	Cutting depth	Machine	Lubricant
PE-Q 12× (3.5) × 90°	SCM440 (Alloy steel)	25m/min	0.15mm/rev	8.0mm	3.0mm	Machining center of vertical direction	Water soluble oil ×20
	S50C (Carbon steel)	25m/min	0.2mm/rev				
	SUS304 (Stainless steel)	15m/min	0.1mm/rev				



Shank dia.	Point dia.	Overall length	Point length
Ds	Dc	L	ℓ_1

PE-Q

Point Drills 90°
Specification

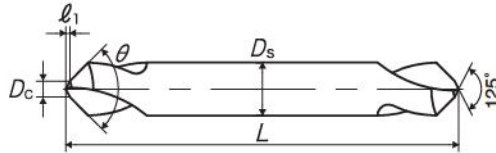
HSS

For icon explanation, refer to P.24



■PE-Q is the point drill enabling positioning (125° edge angle) and beveling (90°) simultaneously. High cutting accuracy is available owing to a good cutting-start due to 2 step flat design.

TYPE: 1



Segment : 56

Size Ds × Dc × θ	Code	Ds (mm)	Dc (mm)	L (mm)	ℓ_1 (mm)	Type	Stock
3 × 0.5 × 90°	PE3.0Q	3	0.5	40	0.13	1	○
4 × 1 × 90°	PE4.0Q	4	1	45	0.26	1	○
6 × 2 × 90°	PE6.0Q	6	2	55	0.52	1	○
8 × 2.5 × 90°	PE8.0Q	8	2.5	65	0.65	1	○
10 × 3 × 90°	PE010Q	10	3	75	0.78	1	○
12 × 3.5 × 90°	PE012Q	12	3.5	85	0.91	1	○
16 × 4 × 90°	PE016Q	16	4	90	1.04	1	○
20 × 5 × 90°	PE020Q	20	5	100	1.30	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

PE-Q V

Point Drills 90°, Coated

Specification

HSS

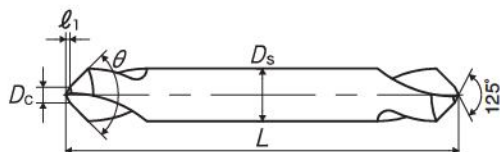
Coating

For icon explanation, refer to P.24



■PE-Q V is the coated point drill enabling positioning (125° edge angle) and beveling (90°) simultaneously. High cutting accuracy is available owing to a good cutting-start due to 2 step flat design. Optimum coating suitable for the cutting condition.

TYPE: 1



Segment : 56

Size Ds × Dc × θ	Code	Ds (mm)	Dc (mm)	L (mm)	ℓ ₁ (mm)	Type	Stock
3 × 0.5 × 90°	VPE3.0Q	3	0.5	40	0.13	1	○
4 × 1 × 90°	VPE4.0Q	4	1	45	0.26	1	○
6 × 2 × 90°	VPE6.0Q	6	2	55	0.52	1	○
8 × 2.5 × 90°	VPE8.0Q	8	2.5	65	0.65	1	○
10 × 3 × 90°	VPE10Q	10	3	75	0.78	1	○
12 × 3.5 × 90°	VPE12Q	12	3.5	85	0.91	1	○
16 × 4 × 90°	VPE16Q	16	4	90	1.04	1	○
20 × 5 × 90°	VPE20Q	20	5	100	1.30	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Shank dia.	Point dia.	Overall length	Point length
Ds	Dc	L	ℓ_1

C-PE-Q V

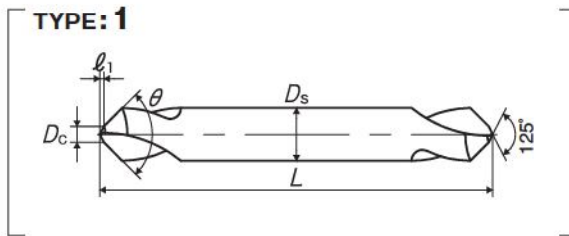
Carbide Point Drills 90°, Coated
Specification



For icon explanation, refer to P.24



■C-PE-Q V is the carbide point drill enabling positioning (125° edge angle) and beveling (90°) simultaneously. High cutting accuracy is available owing to a good cutting-start due to 2 step flat design. Optimum coating suitable for the cutting condition



Segment : 52

Size Ds × Dc × θ	Code	Ds (mm)	Dc (mm)	L (mm)	ℓ_1 (mm)	Type	Stock
3 × 0.5 × 90°	VCPE3.0Q	3	0.5	40	0.13	1	○
4 × 1 × 90°	VCPE4.0Q	4	1	45	0.26	1	○
6 × 2 × 90°	VCPE6.0Q	6	2	55	0.52	1	○
8 × 2.5 × 90°	VCPE8.0Q	8	2.5	65	0.65	1	○
10 × 3 × 90°	VCPE010Q	10	3	75	0.78	1	○
12 × 3.5 × 90°	VCPE012Q	12	3.5	85	0.91	1	○
16 × 4 × 90°	VCPE016Q	16	4	90	1.04	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

PE-QL V

Long Shank Point Drills 90°, Coated
Specification

HSS

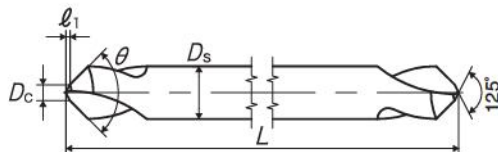
Coating

For icon explanation, refer to P.24



■PE-QL V is the long shank coated point drill enabling positioning (125° edge angle) and beveling (90°) simultaneously. High cutting accuracy is available owing to a good cutting-start due to 2 step flat design. Optimum coating suitable for the cutting condition.

TYPE: 1



Segment : 56

Size Ds × Dc × θ	Code	Ds (mm)	Dc (mm)	L (mm)	ℓ ₁ (mm)	Type	Stock
4 × 1 × 90°	VPEL4.0Q	4	1	100	0.26	1	○
6 × 2 × 90°	VPEL6.0Q	6	2	100	0.52	1	○
8 × 2.5 × 90°	VPEL8.0Q	8	2.5	100	0.65	1	○
	VPEM8.0Q			150			
10 × 3 × 90°	VPEL010Q	10	3	100	0.78	1	○
	VPEM010Q			150			
12 × 3.5 × 90°	VPEL012Q	12	3.5	100	0.91	1	○
	VPEM012Q			150			
16 × 4 × 90°	VPEM016Q	16	4	150	1.04	1	○
20 × 5 × 90°	VPEM020Q	20	5	150	1.30	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Shank dia.	Point dia.	Overall length	Point length
Ds	Dc	L	ℓ ₁

PE-S

Point Drills 60°

Specification

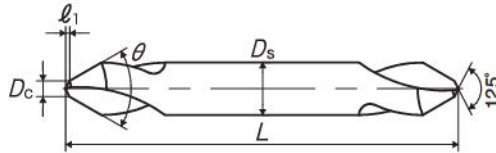
HSS

For icon explanation, refer to P.24



■PE-S is the point drill enabling positioning (125° edge angle) and beveling (60°) simultaneously. High cutting accuracy is available owing to a good cutting-start due to 2 step flat design.

TYPE: 1



Segment : 56

Size Ds × Dc × θ	Code	Ds (mm)	Dc (mm)	L (mm)	ℓ ₁ (mm)	Type	Stock
3 × 0.5 × 60°	PE3.0S	3	0.5	40	0.13	1	○
4 × 1 × 60°	PE4.0S	4	1	45	0.26	1	○
6 × 2 × 60°	PE6.0S	6	2	55	0.52	1	○
8 × 2.5 × 60°	PE8.0S	8	2.5	65	0.65	1	○
10 × 3 × 60°	PE10S	10	3	75	0.78	1	○
12 × 3.5 × 60°	PE12S	12	3.5	85	0.91	1	○
16 × 4 × 60°	PE16S	16	4	90	1.04	1	○
20 × 5 × 60°	PE20S	20	5	100	1.30	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

CE-50

PE-S V

Point Drills 60°, Coated

Specification

HSS

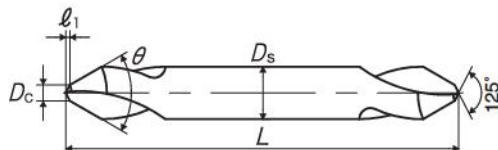
Coating

For icon explanation, refer to P.24



■PE-S V is the coated point drill enabling positioning (125° edge angle) and beveling (60°) simultaneously. High cutting accuracy is available owing to a good cutting-start due to 2 step flat design. Optimum coating suitable for the cutting condition.

TYPE: 1



Segment : 56

Size Ds × Dc × θ	Code	Ds (mm)	Dc (mm)	L (mm)	ℓ ₁ (mm)	Type	Stock
3 × 0.5 × 60°	VPE3.0S	3	0.5	40	0.13	1	○
4 × 1 × 60°	VPE4.0S	4	1	45	0.26	1	○
6 × 2 × 60°	VPE6.0S	6	2	55	0.52	1	○
8 × 2.5 × 60°	VPE8.0S	8	2.5	65	0.65	1	○
10 × 3 × 60°	VPE10S	10	3	75	0.78	1	○
12 × 3.5 × 60°	VPE12S	12	3.5	85	0.91	1	○
16 × 4 × 60°	VPE16S	16	4	90	1.04	1	○
20 × 5 × 60°	VPE20S	20	5	100	1.30	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Shank dia.	Point dia.	Overall length	Point length
Ds	Dc	L	ℓ_1

C-PE-S V

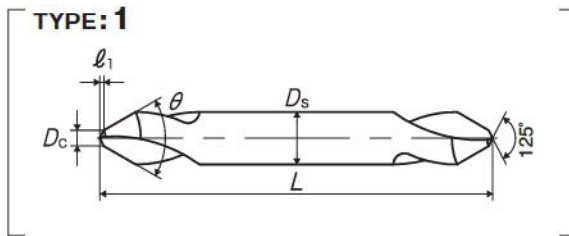
Carbide Point Drills 60°, Coated
Specification



For icon explanation, refer to P.24



■C-PE-S V is the carbide point drill enabling positioning (125° edge angle) and beveling (60°) simultaneously. High cutting accuracy is available owing to a good cutting-start due to 2 step flat design. Optimum coating suitable for the cutting condition.



Segment : 52

Size Ds × Dc × θ	Code	Ds (mm)	Dc (mm)	L (mm)	ℓ_1 (mm)	Type	Stock
6 × 2 × 60°	VCPE6.0S	6	2	55	0.52	1	○
8 × 2.5 × 60°	VCPE8.0S	8	2.5	65	0.65	1	○
10 × 3 × 60°	VCPE10S	10	3	75	0.78	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

Shank dia.	Point dia.	Overall length	Point length
Ds	Dc	L	ℓ_1

PE-SL V

Long Shank Point Drills 60°, Coated
Specification

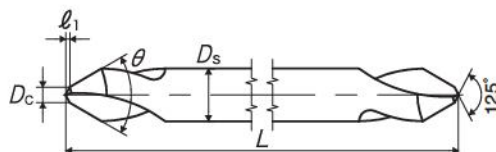


For icon explanation, refer to P.24



■PE-SL V is the point drill enabling positioning (125° edge angle) and beveling (60°) simultaneously. High cutting accuracy is available owing to a good cutting-start due to 2 step flat design. Optimum coating suitable for the cutting condition.

TYPE: 1



Segment : 56

Size Ds × Dc × θ	Code	Ds (mm)	Dc (mm)	L (mm)	ℓ_1 (mm)	Type	Stock
4 × 1 × 60°	VPEL4.0S	4	1	100	0.26	1	○
6 × 2 × 60°	VPEL6.0S	6	2	100	0.52	1	○
8 × 2.5 × 60°	VPEL8.0S	8	2.5	100	0.65	1	○
	VPEM8.0S			150			
10 × 3 × 60°	VPEL010S	10	3	100	0.78	1	○
	VPEM010S			150			
12 × 3.5 × 60°	VPEL012S	12	3.5	100	0.91	1	○
	VPEM012S			150			
16 × 4 × 60°	VPEM016S	16	4	150	1.04	1	○

Spiral Fluted Taps
(for blind hole)

Spiral Fluted Taps
(for through hole)

Spiral Pointed Taps
(for through hole)

Hand Taps

Cemented
Carbide Taps

Roll Taps

Special Thread Taps
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools