(11) Center Drills / Centering Tools

Dc Ds l Dw

ral Pointed Taps (for through hole) Spiral

Taps

Hand

Special Thread Taps
Simple Inspection Tools

aps

(10)

AUCES

Coated Type A 60° High Helix Single End Center Hole Drill



Specification Cutting Speed depending on Materials



Coating



30~60



Wrought aluminu アルミ圧延材 25 ~60 ~60

10~20

AUCDS

Coated Type A 60° Low Helix Single End Center Hole Drill



Specification Cutting Speed depending on Materials





20~

20~40

Coating

10~40 (m/min)

Ductile cast irons 強靱鋳鉄 10~40 (m/min)

Product Features

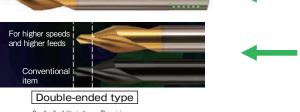
- ●To improve the tools precision and accuracy, YAMAWA adopted a single end design.
- Higher quality center holes can be achieved with the AUCES and AUCDS coated, single end design center hole drill.
- Because of the single end design, the tool length in the holder is constant and the tool projection is constant.

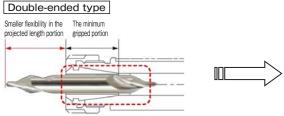


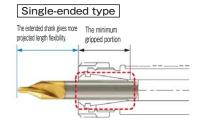
Compared with a double end center hole drill, the accuracy of the drill part and shank accuracy are improved with a single end center hole drill.

The position of the tool identification markings is made at the back of the shank part to avoid holding at the marking position of the

The drill length (l) is shorter than the conventional double end product. Higher speed, higher feed machining is possible.







Cutting Data

Tool Type	Coated Single-End Center Hole Drill AUCES	Coated Double Ended Center Hole Drill CE-SV			
Size	3×60°×8				
Workpiece Material & Hardness	S50C (96	~98HRB)			
Cutting Speed	10m/min, 30m/min				
Feed Per Rev.	0.05mm/rev, 0.12mm/rev				
Large Diameter	φ6				
Machinery Type	Vertical machining center				
Cutting Fluid	Water soluble cutting fluid (20 to 1 dilution)				
Tool Type	Coated Single-End Center Hole Drill AUCES	Coated Double Ended Center Hole Drill CE-SV			
Size	1×60°×4				
Workpiece Material	S50C				
Cutting Speed	30m/min				
Feed Per Rev.	0.04mm/rev				
	φ3				

Think threads with



Coated Single End Center Hole Drill AUCES



Coated Double End Center Hole Drill CE-SV



Spiral Fluted Taps (for blind hole)

Spiral Pointed Taps Spiral Fluted Taps (for through hole)

Hand Taps

4

Roll Taps (6)

Special Thread Taps
Simple Inspection Tools

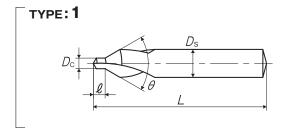
Pipe Taps (8)

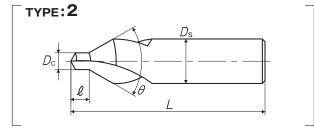
Thread Mills

Thread Mills

Dies (10)

Coated Type A 60° High Helix Single End Center Hole Drill



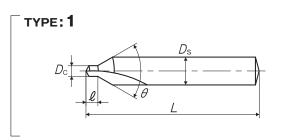


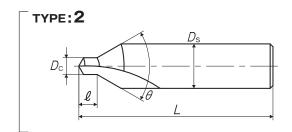
Segment: 51

Size Dc × θ × Ds	Code	Dc _(mm)	Ds (mm)	L (mm)	ℓ (mm)	Dw (mm)	TYPE	MSRP
1× 60°× 4	YH61.00ZNEVD	1	4	35	1.1	2.5	1	¥ 1,660
1.5× 60°× 5	YH61.50ZNEVE	1.5	5	40	1.6	4	1	¥ 1,580
2× 60°× 6	YH62.00ZNEVF	2	6	45	2.1	5	1	¥ 1,720
2.5× 60°× 8	YH62.50ZNEVI	2.5	8	50	2.7	6.5	1	¥ 2,090
3× 60°× 8	YH63.00ZNEVI	3	8	50	3.2	6.5	1	¥ 2,090
4× 60°× 10	YH64.00ZNEVJ	4	10	55	4.3	8.5	1	¥ 3,050
5× 60°× 12	YH65.00ZNEVM	5	12	65	5.3	10	1	¥ 3,940
6× 60°× 16	YH66.00ZNEVP	6	16	70	6.4	13.5	2	¥ 9,180

- · Machining conditions are calculated based on the workpiece end-face hole size Dw.
- For details on machining conditions, see TECHNICAL INFORMATION, "27. Table of recommend centering condition."

AUCDS Coated Type A 60 °Low Helix Single End Center Hole Drill





Segn	nont	51	

Size Dc × θ × Ds	Code	Dc (mm)	Ds _(mm)	L (mm)	ℓ (mm)	Dw (mm)	TYPE	MSRP
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1.5× 60°× 5	YL61.50ZNEVE	1.5	5	40	1.6	4	1	¥ 1,580
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2.5× 60°× 8	YL62.50ZNEVI	2.5	8	50	2.7	6.5	1	¥ 2,090
3× 60°× 8	YL63.00ZNEVI	3	8	50	3.2	6.5	1	¥ 2,090
4× 60°× 10	YL64.00ZNEVJ	4	10	55	4.3	8.5	1	¥ 3,050
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