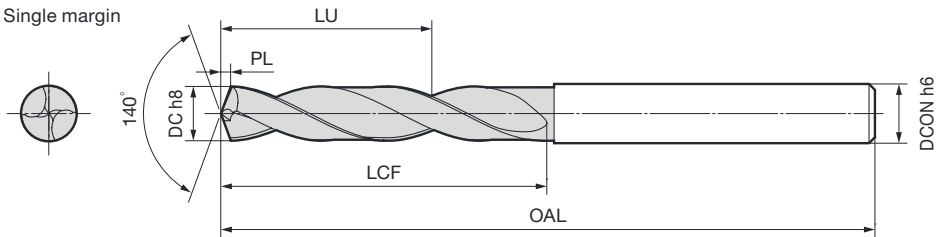


MDE-E Type (External Coolant Supply)

Diameter: ø1.0 to 3.0 mm



Grade ACT100

Diameter DC (mm)	Hole Depth (L/D)	Stock	Cat. No.	Dimensions (mm)				
				LU	LCF	OAL	PL	DCON
1.0	2	●	MDE 0100S03E02	5.7	7.2	45.2	0.2	3.0
	4	●	MDE 0100S03E04	7.7	9.2	49.2	0.2	3.0
1.1	2	●	MDE 0110S03E02	5.6	7.2	45.2	0.2	3.0
	4	●	MDE 0110S03E04	7.6	9.2	49.2	0.2	3.0
1.2	2	●	MDE 0120S03E02	6.4	8.2	45.2	0.2	3.0
	4	●	MDE 0120S03E04	8.4	10.2	49.2	0.2	3.0
1.3	2	●	MDE 0130S03E02	6.3	8.2	45.2	0.2	3.0
	4	●	MDE 0130S03E04	9.3	11.2	49.2	0.2	3.0
1.4	2	●	MDE 0140S03E02	7.2	9.3	45.3	0.3	3.0
	4	●	MDE 0140S03E04	9.2	11.3	49.3	0.3	3.0
1.5	2	●	MDE 0150S03E02	7.1	9.3	45.3	0.3	3.0
	4	●	MDE 0150S03E04	10.1	12.3	49.3	0.3	3.0
1.6	2	●	MDE 0160S03E02	7.9	10.3	45.3	0.3	3.0
	4	●	MDE 0160S03E04	10.9	13.3	49.3	0.3	3.0
1.7	2	●	MDE 0170S03E02	7.8	10.3	45.3	0.3	3.0
	4	●	MDE 0170S03E04	10.8	13.3	49.3	0.3	3.0
1.8	2	●	MDE 0180S03E02	8.6	11.3	45.3	0.3	3.0
	4	●	MDE 0180S03E04	11.6	14.3	49.3	0.3	3.0
1.9	2	●	MDE 0190S03E02	8.5	11.3	45.3	0.3	3.0
	4	●	MDE 0190S03E04	12.5	15.3	49.3	0.3	3.0
2.0	2	●	MDE 0200S03E02	9.4	12.4	45.4	0.4	3.0
	4	●	MDE 0200S03E04	13.4	16.4	49.4	0.4	3.0
2.1	2	●	MDE 0210S03E02	9.3	12.4	45.4	0.4	3.0
	4	●	MDE 0210S03E04	13.3	16.4	49.4	0.4	3.0
2.2	2	●	MDE 0220S03E02	10.1	13.4	45.4	0.4	3.0
	4	●	MDE 0220S03E04	14.1	17.4	49.4	0.4	3.0
2.3	2	●	MDE 0230S03E02	10.0	13.4	45.4	0.4	3.0
	4	●	MDE 0230S03E04	14.0	17.4	49.4	0.4	3.0
2.4	2	●	MDE 0240S03E02	10.8	14.4	45.4	0.4	3.0
	4	●	MDE 0240S03E04	14.8	18.4	49.4	0.4	3.0
2.5	2	●	MDE 0250S03E02	10.8	14.5	45.5	0.5	3.0
	4	●	MDE 0250S03E04	14.8	18.5	49.5	0.5	3.0
2.6	2	●	MDE 0260S03E02	11.6	15.5	45.5	0.5	3.0
	4	●	MDE 0260S03E04	15.6	19.5	49.5	0.5	3.0
2.7	2	●	MDE 0270S03E02	11.5	15.5	45.5	0.5	3.0
	4	●	MDE 0270S03E04	15.5	19.5	49.5	0.5	3.0
2.76	2	●	MDE 0276S03E02	11.3	15.5	45.5	0.5	3.0
2.78	2	●	MDE 0278S03E02	11.3	15.5	45.5	0.5	3.0
2.8	2	●	MDE 0280S03E02	11.3	15.5	45.5	0.5	3.0
	4	●	MDE 0280S03E04	15.3	19.5	49.5	0.5	3.0
2.9	2	●	MDE 0290S03E02	11.2	15.5	45.5	0.5	3.0
	4	●	MDE 0290S03E04	15.2	19.5	49.5	0.5	3.0
3.0	2	●	MDE 0300S03E02	9.0	13.5	45.5	0.5	3.0
	4	●	MDE 0300S03E04	15.0	19.5	49.5	0.5	3.0

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Company:

MDE_Promotion_05/24_EN_KI

Special
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MULTIDRILL
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Small diameter promotion

Innovative
General-
Purpose Drills

Valid from
May 01 until
September 14,
2024.
While stocks
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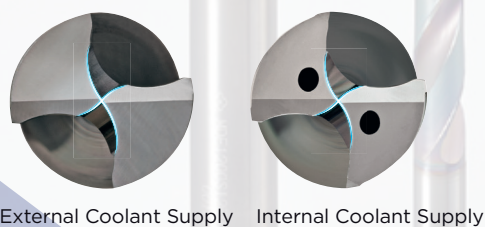
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MDE Drills

Suitable for a **wide range of Materials**, from high-carbon steels and die steels to stainless steels.
Stable Drilling for small machining center and lathes.

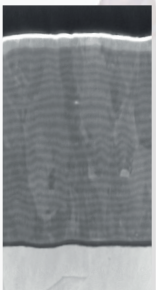
The new small diameter size (Φ1-Φ3) lineup offers unprecedented **special prices**. It provides excellent performance with **RX Thinning** and **NX coating**.

RX Thinning + Arc Shaped Cutting Lip



NX Coating

Absotech™ technology for high quality, high hardness, high strength and excellent wear resistance and thermal resistance.



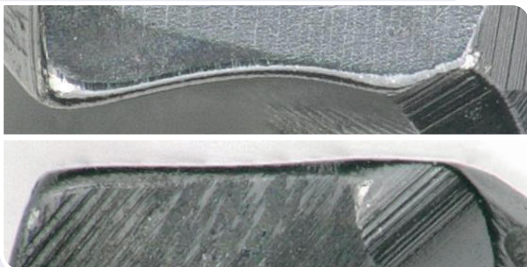
TiAlCrSi-based Super Multi-Layered Coated Carbide
Hardness HV: 46 GPa
Starting Temperature For Oxidisation: 1,100°C

Highly Adhesive Layer

High-quality edge provides stable tool life

Application Example: Low Carbon Steel

MULTIDRILL **NEXEO MDE** Type



After drilling 900 holes

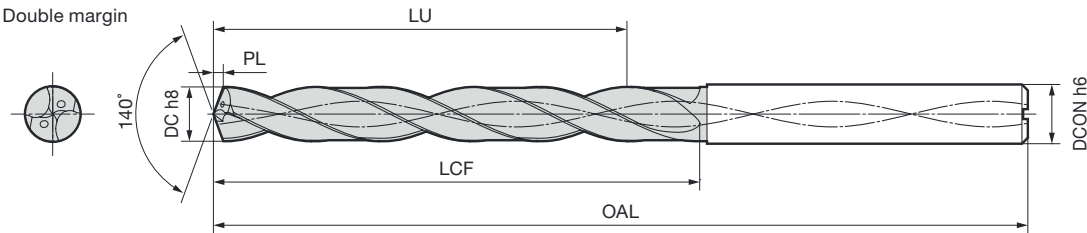
Competitor's Product A



After drilling 900 holes

Work Material: 15CrMo5, Machine: BT30 vertical machining centre
Tool: MDE 0100S03H05 (ø1.0mm×5D) with hole
Cutting Conditions: $v_c=40\text{m/min}$, $f=0.04\text{mm/rev}$, $H=5\text{mm}$ (through), internal coolant supply (water soluble)

Series expansion of small diameter drills!
Diameter : ø1,0 mm to 3,0 mm



MDE-H Type (Internal Coolant Supply)

Diameter: ø1.0 to 2.4 mm

Diameter DC (mm)	Hole Depth (L/D)	Stock	Cat. No.	Dimensions (mm)				
				LU	LCF	OAL	PL	DCON
1.0	3	●	MDE 0100S03H03	6.7	8.2	57.2	0.2	3.0
	5	●	MDE 0100S03H05	8.7	10.2	59.2	0.2	3.0
	8	○	MDE 0100S03H08	11.7	13.2	62.2	0.2	3.0
1.1	3	●	MDE 0110S03H03	6.6	8.2	57.2	0.2	3.0
	5	●	MDE 0110S03H05	8.6	10.2	59.2	0.2	3.0
	8	○	MDE 0110S03H08	12.6	14.2	62.2	0.2	3.0
1.2	3	●	MDE 0120S03H03	7.4	9.2	57.2	0.2	3.0
	5	●	MDE 0120S03H05	9.4	11.2	59.2	0.2	3.0
	8	○	MDE 0120S03H08	13.4	15.2	62.2	0.2	3.0
1.3	3	●	MDE 0130S03H03	7.3	9.2	57.2	0.2	3.0
	5	●	MDE 0130S03H05	10.3	12.2	59.2	0.2	3.0
	8	○	MDE 0130S03H08	14.3	16.2	62.2	0.2	3.0
1.4	3	●	MDE 0140S03H03	8.2	10.3	57.3	0.3	3.0
	5	●	MDE 0140S03H05	11.2	13.3	59.3	0.3	3.0
	8	○	MDE 0140S03H08	15.2	17.3	62.3	0.3	3.0
1.5	3	●	MDE 0150S03H03	9.1	11.3	57.3	0.3	3.0
	5	●	MDE 0150S03H05	12.1	14.3	59.3	0.3	3.0
	8	○	MDE 0150S03H08	16.1	18.3	62.3	0.3	3.0
1.6	3	●	MDE 0160S03H03	8.9	11.3	59.3	0.3	3.0
	5	●	MDE 0160S03H05	11.9	14.3	62.3	0.3	3.0
	8	○	MDE 0160S03H08	16.9	19.3	67.3	0.3	3.0
1.7	3	●	MDE 0170S03H03	9.8	12.3	59.3	0.3	3.0
	5	●	MDE 0170S03H05	12.8	15.3	62.3	0.3	3.0
	8	○	MDE 0170S03H08	17.8	20.3	67.3	0.3	3.0
1.8	3	●	MDE 0180S03H03	9.6	12.3	59.3	0.3	3.0
	5	●	MDE 0180S03H05	13.6	16.3	62.3	0.3	3.0
	8	○	MDE 0180S03H08	18.6	21.3	67.3	0.3	3.0
1.9	3	●	MDE 0190S03H03	10.5	13.3	59.3	0.3	3.0
	5	●	MDE 0190S03H05	14.5	17.3	62.3	0.3	3.0
	8	○	MDE 0190S03H08	19.5	22.3	70.3	0.3	3.0
2.0	3	●	MDE 0200S03H03	11.4	14.4	59.4	0.4	3.0
	5	●	MDE 0200S03H05	15.4	18.4	62.4	0.4	3.0
	8	○	MDE 0200S03H08	21.4	24.4	70.4	0.4	3.0
2.1	3	●	MDE 0210S03H03	11.3	14.4	59.4	0.4	3.0
	5	●	MDE 0210S03H05	15.3	18.4	62.4	0.4	3.0
	8	○	MDE 0210S03H08	22.3	25.4	70.4	0.4	3.0
2.2	3	●	MDE 0220S03H03	12.1	15.4	59.4	0.4	3.0
	5	●	MDE 0220S03H05	16.1	19.4	62.4	0.4	3.0
	8	○	MDE 0220S03H08	23.1	26.4	70.4	0.4	3.0
2.3	3	●	MDE 0230S03H03	12.0	15.4	63.4	0.4	3.0
	5	●	MDE 0230S03H05	17.0	20.4	68.4	0.4	3.0
	8	○	MDE 0230S03H08	24.0	27.4	75.4	0.4	3.0
2.4	3	●	MDE 0240S03H03	12.8	16.4	63.4	0.4	3.0
	5	●	MDE 0240S03H05	17.8	21.4	68.4	0.4	3.0
	8	○	MDE 0240S03H08	24.8	28.4	75.4	0.4	3.0

Diameter: ø2.5 to 3.0 mm

Diameter DC (mm)	Hole Depth (L/D)	Stock	Cat. No.	Dimensions (mm)				
				LU	LCF	OAL	PL	DCON
2.5	3	●	MDE 0250S03H03	13.8	17.5	63.5	0.5	3.0
	5	●	MDE 0250S03H05	18.8	22.5	68.5	0.5	3.0
	8	○	MDE 0250S03H08	25.8	29.5	75.5	0.5	3.0
2.6	3	●	MDE 0260S03H03	13.6	17.5	63.5	0.5	3.0
	5	●	MDE 0260S03H05	18.6	22.5	68.5	0.5	3.0
	8	○	MDE 0260S03H08	26.6	30.5	75.5	0.5	3.0
2.7	3	●	MDE 0270S03H03	14.5	18.5	68.5	0.5	3.0
	5	●	MDE 0270S03H05	19.5	23.5	78.5	0.5	3.0
	8	○	MDE 0270S03H08	27.5	31.5	81.5	0.5	3.0
2.76	5	●	MDE0276S03H05	20.3	24.5	78.5	0.5	3.0
2.78	5	●	MDE0278S03H05	20.3	24.5	78.5	0.5	3.0
2.8	3	●	MDE 0280S03H03	14.3	18.5	68.5	0.5	3.0
	5	●	MDE 0280S03H05	20.3	24.5	78.5	0.5	3.0
	8	○	MDE 0280S03H08	28.3	32.5	81.5	0.5	3.0
2.9	3	●	MDE 0290S03H03	15.2	19.5	68.5	0.5	3.0
	5	●	MDE 0290S03H05	21.2	25.5	78.5	0.5	3.0
	8	○	MDE 0290S03H08	29.2	33.5	81.5	0.5	3.0
3.0	3	●	MDE 0300S03H03	14.0	18.5	68.5	0.5	3.0
	5	●	MDE 0300S03H05	24.0	28.5	78.5	0.5	3.0
	8	○	MDE 0300S03H08	29.0	33.5	81.5	0.5	3.0

Grade ACT100

● = Euro stock
○ = Japan stock