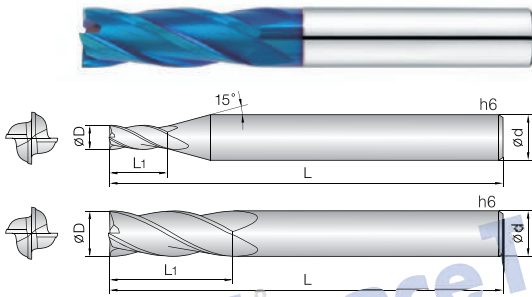


4 Flutes Hard Cut Standard Length End Mills For Hardened Steels

4HPE



- Endmills for various work materials (HRC 52~68) Pre-hardened steels and Hardened steels.
- Good wear resistance by high quality Si-based H coating.
- High-Precise edge tolerance.
- Reinforced edge design for preventing edge chipping.
- Good surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2µm) WC grade.



Unit(mm)

Model Number	Cutting Dia. D	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HPE 005 010 445	0.5	1	-	45	4
4HPE 006 012 445	0.6	1.2	-	45	4
4HPE 007 014 445	0.7	1.4	-	45	4
4HPE 008 016 445	0.8	1.6	-	45	4
4HPE 009 018 445	0.9	1.8	-	45	4
4HPE 010 025 345	1	2.5	-	45	3
4HPE 010 025 445	1	2.5	-	45	4
4HPE 010 025 650	1	2.5	-	50	6
4HPE 012 030 345	1.2	3	-	45	3
4HPE 012 030 445	1.2	3	-	45	4
4HPE 015 040 345	1.5	4	-	45	3
4HPE 015 040 445	1.5	4	-	45	4
4HPE 015 040 650	1.5	4	-	50	6
4HPE 020 060 345	2	6	-	45	3
4HPE 020 060 445	2	6	-	45	4
4HPE 020 060 650	2	6	-	50	6
4HPE 025 080 345	2.5	8	-	45	3
4HPE 025 080 445	2.5	8	-	45	4
4HPE 025 080 650	2.5	8	-	50	6
4HPE 030 080 350	3	8	-	50	3
4HPE 030 080 445	3	8	-	45	4
4HPE 030 080 650	3	8	-	50	6
4HPE 035 100 650	3.5	10	-	50	6
4HPE 040 110 445	4	11	-	45	4
4HPE 040 110 650	4	11	-	50	6
4HPE 045 110 650	4.5	11	-	50	6

4 Flutes Hard Cut Standard Length End Mills For Hardened Steels



Unit(mm)

Model Number	Cutting Dia. D	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HPE 050 130 650	5	13	-	50	6
4HPE 055 130 650	5.5	13	-	50	6
4HPE 060 130 650	6	13	-	50	6
4HPE 080 190 860	8	19	-	60	8
4HPE 100 220 A75	10	22	-	75	10
4HPE 120 260 C75	12	26	-	75	12
4HPE 140 300 EA0	14	30	-	100	14
4HPE 160 350 GA0	16	35	-	100	16
4HPE 200 400 KA0	20	40	-	100	20

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS