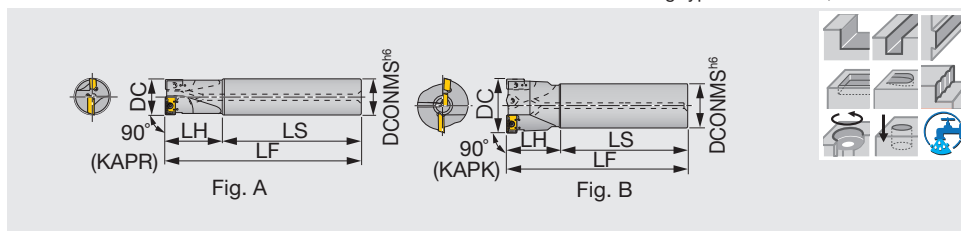


EVX

Multi purpose endmill, shank type, with center cutting edge

Standard type GAMP = +2°~ +5°, GAMF = -10°~ -3.5°
Long type GAMP = +5°, GAMF = -4°~ -2°

Designation	APMX	DC	CICT	DCONMS	LS	LH	LF	Coolant hole	Fig.	Insert
EVX08016RSA	7	16	2	16	90	30	120	With	A	XXMU08...
EVX08016RS	7	16	2	16	90	30	120	Without	A	XXMU08...
EVX08016RLA	7	16	2	16	135	40	175	With	A	XXMU08...
EVX08016RL	7	16	2	16	135	40	175	Without	A	XXMU08...
EVX10020RSA	9	20	2	20	90	30	120	With	A	XXMU10...
EVX10020RS	9	20	2	20	90	30	120	Without	A	XXMU10...
EVX10020RLA	9	20	2	20	135	50	185	With	A	XXMU10...
EVX10020RL	9	20	2	20	135	50	185	Without	A	XXMU10...
EVX12025RSA	11.5	25	2	25	100	40	140	With	A	XXMU12...
EVX12025RS	11.5	25	2	25	100	40	140	Without	A	XXMU12...
EVX12025RLA	11.5	25	2	25	150	70	220	With	A	XXMU12...
EVX12025RL	11.5	25	2	25	150	70	220	Without	A	XXMU12...
EVX16032RSA	15	32	2	32	110	50	160	With	A	XXMU16...
EVX16032RS	15	32	2	32	110	50	160	Without	A	XXMU16...
EVX16032RLA	15	32	2	32	175	80	255	With	A	XXMU16...
EVX16032RL	15	32	2	32	175	80	255	Without	A	XXMU16...
EVX12040RSA	11.5	40	2	42	120	60	180	With	B	XXMU12, WCMT05...
EVX12040RS	11.5	40	2	42	120	60	180	Without	B	XXMU12, WCMT05...
EVX12040RLA	11.5	40	2	42	210	100	310	With	B	XXMU12, WCMT05...
EVX12040RL	11.5	40	2	42	210	100	310	Without	B	XXMU12, WCMT05...
EVX16050RSA	15	50	2	42	160	50	210	With	B	XXMU16, WCMT06...
EVX16050RS	15	50	2	42	160	50	210	Without	B	XXMU16, WCMT06...
EVX16050RLA	15	50	2	42	310	50	360	With	B	XXMU16, WCMT06...
EVX16050RL	15	50	2	42	310	50	360	Without	B	XXMU16, WCMT06...
EVX16063RSA	15	63	2	42	190	50	240	With	B	XXMU16, WCMT06...
EVX16063RS	15	63	2	42	190	50	240	Without	B	XXMU16, WCMT06...
EVX16063RLA	15	63	2	42	310	50	360	With	B	XXMU16, WCMT06...
EVX16063RL	15	63	2	42	310	50	360	Without	B	XXMU16, WCMT06...

SPARE PARTS



Designation	Clamping screw 1	Clamping screw 2	Lubricant	Wrench 1	Wrench 2
EVX08016R...	-	CSPB-2.2	M-1000	IP-7D	-
EVX10020R...	-	CSPB-2.5	M-1000	IP-8D	-
EVX12025R...	-	CSPD-3	M-1000	IP-10D	-
EVX16032R...	CSPB-3.5	-	M-1000	IP-15D	-
EVX12040R...	-	CSPD-3	M-1000	IP-10D	-
EVX16050, 63R...	CSPB-3.5	CSTB-3.5D	M-1000	IP-15D	T-9D

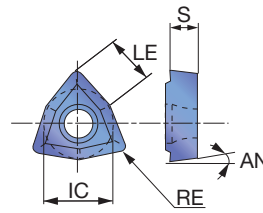
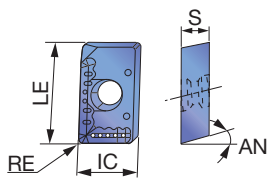
* Recommended clamping torque (N·m): CSPB-2.2=1, CSPB-2.5=1.3, CSPB-3.5=3.5, CSPD-3=2.5, CSTB-3.5D=2.3

Reference pages: Standard cutting conditions → I093

INSERT

XXMU-MJ

WCMT-D4



P	Steel	★	★		
M	Stainless	★		★	
K	Cast iron		★		
N	Non-ferrous				
S	Superalloys				
H	Hard materials	★			

★ : First choice
☆ : Second choice

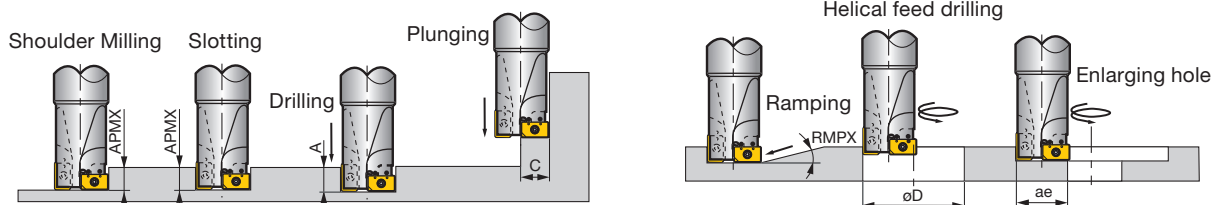
Designation	RE	Coated			LE	IC	S	AN
		AH3135	AH120	AH140				
XXMU08T204PR-MJ	0.4	●	●	●	8.2	5.6	2.78	10°
XXMU10H308PR-MJ	0.8	●	●	●	10.6	6.8	3.5	11°
XXMU12X408PR-MJ	0.8	●	●	●	13.2	7.9	4.2	11°
XXMU16X508PR-MJ	0.8	●	●	●	16.8	11.1	5	11°
WCMT050308-D4	0.8		●	●	5.4	7.94	3.18	7°
WCMT06T308-D4	0.8		●	●	6.5	9.525	3.97	7°

● : Line up

STANDARD CUTTING CONDITIONS

ISO	Workpiece material	Grade	Tool diameter: $\phi 16 - 20$			Tool diameter: $\phi 25 - 63$		
			Cutting speed Vc (m/min)	Feed per tooth: fz (mm/t)		Cutting speed Vc (m/min)	Feed per tooth: fz (mm/t)	
				Slotting	Drilling		Slotting	Drilling
P	Carbon steels S50C, etc. C55, etc. < 300 HBt	AH3135	100 - 180	0.05 - 0.2	0.03 - 0.08	120 - 200	0.08 - 0.25	0.05 - 0.1
	Alloy steels SCM440, etc. 42CrMo4, etc. < 300 HB	AH3135	80 - 160	0.05 - 0.15	0.03 - 0.08	100 - 180	0.08 - 0.2	0.05 - 0.1
	Die steels SKD11, etc. X96CrMoV12, etc. < 300 HB	AH3135	60 - 120	0.05 - 0.13	0.03 - 0.06	80 - 150	0.08 - 0.15	0.03 - 0.08
M	Stainless steels SUS304, etc. X5CrNi18 9, etc.	AH3135	70 - 140	0.05 - 0.15	0.03 - 0.08	90 - 160	0.08 - 0.2	0.03 - 0.08
K	Cast irons FC250, etc. 250, etc.	AH120	100 - 180	0.05 - 0.25	0.03 - 0.1	120 - 200	0.08 - 0.25	0.05 - 0.1

APPLICATION RANGE



Designation	Tool dia. DC	Max. depth of cut APMX	Max. drilling depth A	Max. cutting width in plunging C	Max. ramping angle RMPX	Min. machining hole dia. ϕD_{min}	Max. machining hole dia. ϕD_{max}	Max. cutting width in enlarging hole ae
EVX08016R...	16	7	8	8	3°	19.2	30	14
EVX10020R...	20	9	10	10	3°	24	38	18
EVX12025R...	25	11.5	12.5	12.5	3°	30	48	23
EVX16032R...	32	15	16	16	3°	38.4	62	30
EVX12040RS/L (A)	40	11.5	20	20	3°	48	78	38
EVX16050RS/L (A)	50	15	25	25	3°	60	98	48
EVX16063RS/L (A)	63	15	31.5	31.5	3°	75.6	124	61

