

MELIN TOOL COMPANY INTRODUCES

# POWDERED METAL END MILLS

- Made from 3rd generation powder metallurgy material (P/M)
- P/M material bridges the gap between the toughness of cobalt HSS tools and the excellent wear qualities of micro-grain carbide tools
- Excellent cutting strength and wear resistance
- Currently available in the following P/M end mills types:
  - Multi-flute fine and coarse pitch roughing
  - Multi-flute finishing
  - Variable helix, AlTiN coated
- All tools are center cutting



## MELIN TOOL COMPANY

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Certificate #007003

# Powdered Metal End Mills

## ROUGHING END MILLS, CENTER CUTTING

FINE PITCH		COARSE PITCH		MILL	SHK	LOC	OAL	FLUTES	LIST	COATED
TOOL	EDP	TOOL	EDP							
CCFPM-1212	12893	CCRPM-1212	12927	3/8	3/8	3/4	2-1/2	4	25.54	29.95
CCFPM-1212-L	12895	CCRPM-1212-L	12929	3/8	3/8	1-1/2	3-1/4	4	26.97	31.32
CCFPM-1616-S	12897	CCRPM-1616-S	12931	1/2	1/2	5/8	2-5/8	4	27.25	34.13
CCFPM-1616	12899	CCRPM-1616	12933	1/2	1/2	1-1/4	3-1/4	4	29.56	36.49
CCFPM-1616-L	12901	CCRPM-1616-L	12935	1/2	1/2	2	4	4	40.69	48.66
CCFPM-2020-S	12903	CCRPM-2020-S	12937	5/8	5/8	3/4	2-7/8	4	31.04	38.58
CCFPM-2020	12905	CCRPM-2020	12939	5/8	5/8	1-5/8	3-3/4	4	38.19	46.77
CCFPM-2020-L	12907	CCRPM-2020-L	12941	5/8	5/8	2-1/2	4-5/8	4	50.44	59.08
CCFPM-2424-S	12909	CCRPM-2424-S	12943	3/4	3/4	3/4	3	4	43.13	54.72
CCFPM-2424	12911	CCRPM-2424	12945	3/4	3/4	1-5/8	3-7/8	4	47.88	64.56
CCFPM-2424-M	12913	CCRPM-2424-M	12947	3/4	3/4	2-1/4	4-1/2	4	52.38	69.93
CCFPM-2424-L	12915	CCRPM-2424-L	12949	3/4	3/4	3	5-1/4	4	61.40	79.62
CCFPM-3232	12917	CCRPM-3232	12951	1	1	2	4-1/2	5	73.18	91.52
CCFPM-3232-M	12919	CCRPM-3232-M	12953	1	1	3	5-1/2	5	83.81	103.69
CCFPM-3232-L	12921	CCRPM-3232-L	12955	1	1	4	6-1/2	5	92.72	127.50
CCFPM-4040	12923	CCRPM-4040	12959	1-1/4	1-1/4	2	4-1/2	6	99.29	118.19
CCFPM-4040-L	12925	CCRPM-4040-L	12961	1-1/4	1-1/4	4	6-1/2	6	139.42	173.90

## VARIABLE HELIX, CENTER CUTTING, AITiN COATED

TOOL	EDP	RADIUS	MILL	SHK	LOC	OAL	FLUTES	COATED
VHPM-1212	13003	.015-.020	3/8	3/8	3/4	2-1/2	4	27.66
VHPM-1616-S	13005	.025-.030	1/2	1/2	5/8	2-5/8	4	38.88
VHPM-1616	13007	.025-.030	1/2	1/2	1-1/4	3-1/4	4	40.84
VHPM-2020-S	13009	.030-.035	5/8	5/8	3/4	2-7/8	4	53.66
VHPM-2020	13011	.030-.035	5/8	5/8	1-5/8	3-3/4	4	56.81
VHPM-2424-S	13013	.030-.035	3/4	3/4	3/4	3	4	73.31
VHPM-2424	13015	.030-.035	3/4	3/4	1-5/8	3-7/8	4	82.40
VHPM-3232	13017	.030-.035	1	1	2	4-1/2	4	124.26
VHPM-4040	13019	.030-.035	1-1/4	1-1/4	2	4-1/2	4	180.06

## FINISHING END MILLS, CENTER CUTTING

TOOL	EDP	MILL	SHK	LOC	OAL	FLUTES	LIST	COATED
CCPM-1212	12969	3/8	3/8	3/4	2-1/2	4	14.45	18.86
CCPM-1212-L	12971	3/8	3/8	1-1/2	3-1/4	4	18.93	23.28
CCPM-1616-S	12973	1/2	1/2	5/8	2-5/8	4	19.70	26.58
CCPM-1616	12975	1/2	1/2	1-1/4	3-1/4	4	20.85	27.78
CCPM-1616-L	12977	1/2	1/2	2	4	4	25.76	33.73
CCPM-2020-S	12979	5/8	5/8	3/4	2-7/8	4	28.88	36.42
CCPM-2020	12981	5/8	5/8	1-5/8	3-3/4	4	30.08	38.66
CCPM-2020-L	12983	5/8	5/8	2-1/2	4-5/8	4	39.12	47.76
CCPM-2424-S	12985	3/4	3/4	3/4	3	4	38.38	49.97
CCPM-2424	12987	3/4	3/4	1-5/8	3-7/8	4	40.09	56.77
CCPM-2424-M	12989	3/4	3/4	2-1/4	4-1/2	4	49.46	67.01
CCPM-2424-L	12991	3/4	3/4	3	5-1/4	4	58.60	76.82
CCPM-3232	12993	1	1	2	4-1/2	4	66.15	84.49
CCPM-3232-M	12995	1	1	3	5-1/2	4	87.40	107.28
CCPM-3232-L	12997	1	1	4	6-1/2	4	97.91	132.69
CCPM-4040	12999	1-1/4	1-1/4	2	4-1/2	6	102.27	121.17
CCPM-4040-L	13001	1-1/4	1-1/4	4	6-1/2	6	145.41	179.89



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