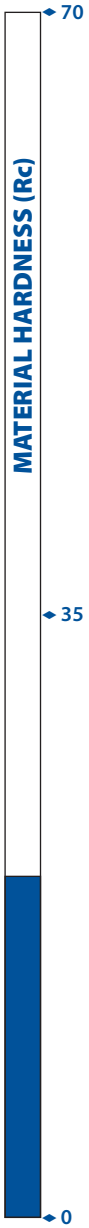
Series 142M, 142R, 142B

SERIES HIGHLIGHT

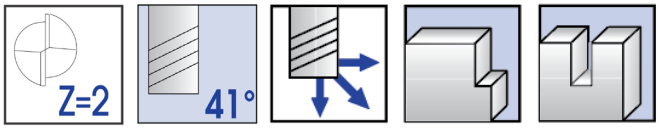




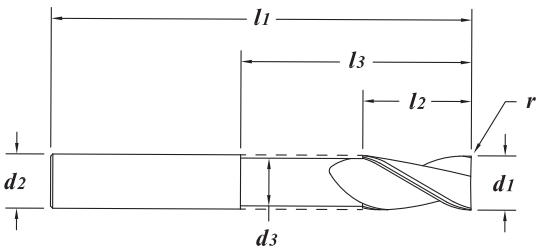
N

HSAL End Mills
BALINIT® MAYURA Coating

Target Materials:
Aluminum



CALCULATE IDEAL PARAMETERS FOR THE 142M, 142R AND 142B IN YOUR APPLICATION WITH GARR TECHNICAL ADVISOR

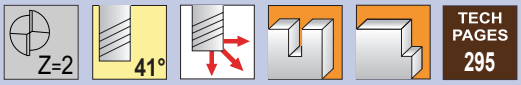


View the 142

TOLERANCES	
d_1	+.000" –.001" (+.000 –.025mm)
d_2	h6
r	+.001" –.001" (+.025 –.025mm)
ball	+.0000" –.0005" (+.0000 –.0127mm)

HIGH EFFICIENCY MILLING

Series 142M, 142R, 142B



.1575" - .2756"
(4.000mm - 7.000mm)

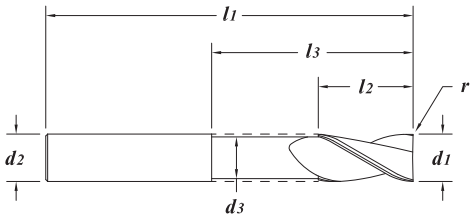
Recommended for aluminum

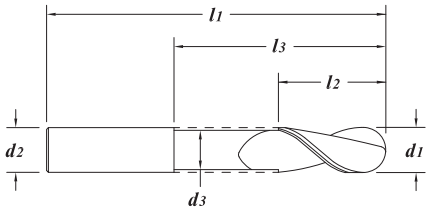
HSAL End Mill - Square End, Corner Radius and Ball End

BALINIT® MAYURA Coating

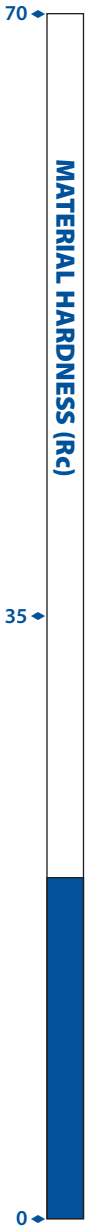
Solid submicron grain carbide end mill - center cutting
Engineered for High Efficiency Milling
Specific coating engineered to repel aluminum
Engineered to run at 750-2500 SFM (225-750 M/Min.)
For high speed machining of aluminum
High velocity - high metal removal rate (for spindles 10,000 RPM and above)
Need to use properly balanced holders
Holds perpendicularity
Flats can be added within 48 hours





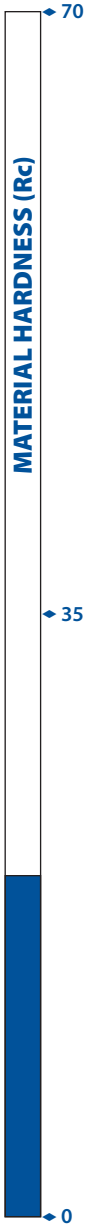


EDP#	d_1 † Diameter Decimal	Diameter	Metric	d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	r Corner Radius	l_3 Reach Length	d_3 Neck Diameter
41222	.1575		4.000	6	50	12	-	-	-
39222	.1575		4.000	6	50	12	0.30	-	-
42522	.1575		4.000	6	50	12	BALL	-	-
41232	.1575		4.000	6	65	6	-	20	3.7
39232	.1575		4.000	6	65	6	0.50	20	3.7
39242	.1575		4.000	6	65	6	1.00	20	3.7
41282	.1875	3/16"	4.763	3/16"	2"	9/16"	-	-	-
39282	.1875	3/16"	4.763	3/16"	2"	9/16"	.010"	-	-
42582	.1875	3/16"	4.763	3/16"	2"	9/16"	BALL	-	-
41342	.1969		5.000	6	65	16	-	-	-
39342	.1969		5.000	6	65	16	0.30	-	-
42642	.1969		5.000	6	65	16	BALL	-	-
41352	.1969		5.000	6	75	8	-	20	4.7
39352	.1969		5.000	6	75	8	0.50	20	4.7
39362	.1969		5.000	6	75	8	1.00	20	4.7
41402	.2362		6.000	6	65	19	-	-	-
39402	.2362		6.000	6	65	19	0.30	-	-
42702	.2362		6.000	6	65	19	BALL	-	-
41412	.2362		6.000	6	75	10	-	25	5.7
39412	.2362		6.000	6	75	10	0.50	25	5.7
39422	.2362		6.000	6	75	10	1.00	25	5.7
39432	.2362		6.000	6	75	10	1.50	25	5.7
39442	.2362		6.000	6	75	10	2.00	25	5.7
41462	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	-	-	-
39462	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	.015"	-	-
42762	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	BALL	-	-
42764	.2500	1/4"	6.350	1/4"	4"	3/8"	BALL	1-1/8"	.235"
41542	.2756		7.000	8	65	19	-	-	-
42842	.2756		7.000	8	65	19	BALL	-	-



Series 142M, 142R, 142B

.3125" - .7500"
(7.938mm - 19.050mm)



EDP#	d_1 † Diameter Decimal	Diameter	Metric	d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	r Corner Radius	l_3 Reach Length	d_3 Neck Diameter
41602	.3125	5/16"	7.938	5/16"	2-1/2"	3/4"	-	-	-
39602	.3125	5/16"	7.938	5/16"	2-1/2"	3/4"	.015"	-	-
42902	.3125	5/16"	7.938	5/16"	2-1/2"	3/4"	BALL	-	-
41662	.3150		8.000	8	65	19	-	-	-
39662	.3150		8.000	8	65	19	0.50	-	-
42962	.3150		8.000	8	65	19	BALL	-	-
41672	.3150		8.000	8	75	12	-	25	7.4
39672	.3150		8.000	8	75	12	0.50	25	7.4
39682	.3150		8.000	8	75	12	1.00	25	7.4
39692	.3150		8.000	8	75	12	2.00	25	7.4
39702	.3150		8.000	8	75	12	3.00	25	7.4
41722	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	-	-	-
39722	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	.030"	-	-
43022	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	BALL	-	-
43023	.3750	3/8"	9.525	3/8"	4"	1/2"	BALL	1-1/8"	.355"
41802	.3937		10.000	10	70	24	-	-	-
39802	.3937		10.000	10	70	24	0.50	-	-
43102	.3937		10.000	10	70	24	BALL	-	-
41812	.3937		10.000	10	75	12	-	30	9.4
41822	.3937		10.000	10	100	12	-	35	9.4
39812	.3937		10.000	10	100	12	1.00	35	9.4
39822	.3937		10.000	10	100	12	1.50	35	9.4
39832	.3937		10.000	10	100	12	2.00	35	9.4
39842	.3937		10.000	10	100	12	3.00	35	9.4
41882	.4724		12.000	12	75	32	-	-	-
39882	.4724		12.000	12	75	32	0.50	-	-
43182	.4724		12.000	12	75	32	BALL	-	-
41892	.4724		12.000	12	75	16	-	30	11.4
41902	.4724		12.000	12	100	16	-	35	11.4
41912	.4724		12.000	12	100	16	-	40	11.4
39892	.4724		12.000	12	100	16	0.50	40	11.4
39902	.4724		12.000	12	100	16	1.00	40	11.4
39912	.4724		12.000	12	100	16	1.50	40	11.4
39922	.4724		12.000	12	100	16	2.00	40	11.4
39932	.4724		12.000	12	100	16	3.00	40	11.4
41942	.5000	1/2"	12.700	1/2"	3"	1-1/4"	-	-	-
39942	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.030"	-	-
43242	.5000	1/2"	12.700	1/2"	3"	1-1/4"	BALL	-	-
43243	.5000	1/2"	12.700	1/2"	4"	5/8"	BALL	2-1/4"	.475"
42022	.6250	5/8"	15.875	5/8"	4"	1-5/8"	-	-	-
40022	.6250	5/8"	15.875	5/8"	4"	1-5/8"	.030"	-	-
43322	.6250	5/8"	15.875	5/8"	4"	1-5/8"	BALL	-	-
42072	.6299		16.000	16	75	16	-	30	15.4
42082	.6299		16.000	16	100	40	-	-	-
40082	.6299		16.000	16	100	40	1.00	-	-
43382	.6299		16.000	16	100	40	BALL	-	-
42092	.6299		16.000	16	100	20	-	40	15.4
42102	.6299		16.000	16	125	20	-	60	15.4
40092	.6299		16.000	16	125	20	1.00	60	15.4
40102	.6299		16.000	16	125	20	2.00	60	15.4
42142	.7500	3/4"	19.050	3/4"	4"	1-5/8"	-	-	-
40142	.7500	3/4"	19.050	3/4"	4"	1-5/8"	.030"	-	-
43442	.7500	3/4"	19.050	3/4"	4"	1-5/8"	BALL	-	-
43444	.7500	3/4"	19.050	3/4"	5"	1"	BALL	3-1/16"	.715"

† *Metric equivalents are for reference only*

EDP#	d_1 † Diameter Decimal		d_1 † Diameter Metric	d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	r Corner Radius	l_3 Reach Length	d_3 Neck Diameter
40182	.7874		20.000	20	100	40	1.00	-	-
42212	.7874		20.000	20	100	32	-	-	-
43482	.7874		20.000	20	100	32	BALL	-	-
42222	.7874		20.000	20	100	20	-	40	19
42232	.7874		20.000	20	125	20	-	60	19
40192	.7874		20.000	20	150	20	1.00	65	19
40202	.7874		20.000	20	150	20	2.00	65	19
40212	.7874		20.000	20	150	20	3.00	65	19
43542	.9843		25.000	25	100	38	BALL	-	-
42302	1.000	1"	25.400	1"	4"	1-5/8"	-	-	-
43602	1.000	1"	25.400	1"	4"	1-5/8"	BALL	-	-

