



▶ Lorem ipsum dolor sit amet,
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BHAN TOOLINGTECH PRIVATE
LIMITED
PLOT. NO PAP J-156, J- BLOCK, MIDC
ROAD, QUALITY CIRCLE, BHOSARI,
Pimpri Chinchwad, Pune,
Maharashtra,
411026

GST NO. 27AALCB7431N1Z6
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70570 31131



COMPANY PROFILE

Shining Tools Ltd. is an established name in the business of Design & Manufacturing of Solid Carbide cutting tool solutions for Endmill, Drill, Reamer etc. and its Re-conditioning Services. We are pioneer in development of Customized tools for special purpose application using Modern CAD/CAM software packages and technical team of trained professional. Promoted in the year 1998 by visionary entrepreneurs with extensive experience in the field of tool engineering The company and its brand name tixna are synonyms of uncompromising quality. tixna has the privilege of being a self- certified supplier to leading automobile, engineering, aerospace & defense companies. The Company has a completely integrated unit with state-of-the art manufacturing facilities for every critical operation. We have been more than just a cutting tool provider. We develop and supply the technologies, processes and support our customers to maximize their productivity and profitability by fulfilling our commitment on or before time

WHY BHAN Tools?

Welcome to the BHAN Tools WORLD!!!

- » Business Ethics is a key part of our core values
- » Since our inception, we have always been the trusted business partner in providing quality tooling solutions to achieve higher productivity
- » Pioneer in development of Standard & Customized tools for special purpose application using Modern CAD/CAM software packages
- » One stop solution for Regrinding and recoating with original geometries and coatings.
- » Quality is monitored using non-contact optical CNC measuring machine to avoid human error.
- » Long tradition of meeting the highest demands of customers by fulfilling our commitment on time.

APPLICATIONS



Aerospace



Medical



Power & Energy



Automotive



Mould & Die



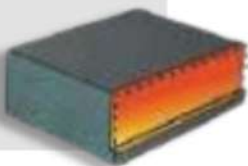
Casting & Foundry

MILLING APPLICATION



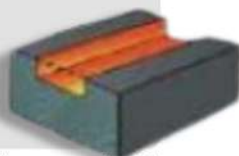
Your Milling Application and your material to help find the proper tool for your application slotting

Profiling or Finishing :



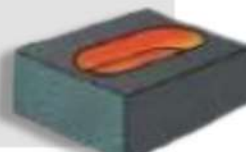
Use 4/5 Flutes

Slotting :



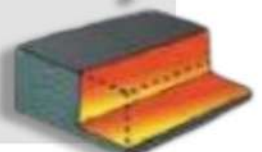
Use 3 Flute to resist Chatter.
Use 2 Flute or roughing mill for maximum chip removal.

Plunge / Slot :



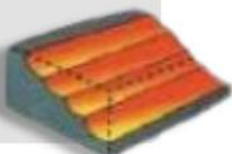
Use 3 Flute to resist Chatter.
Use 2 Flute for maximum chip removal.

Profiling / Roughing cut :



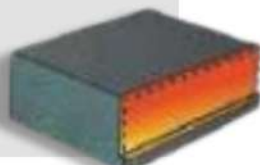
Use roughing mill for rapid material removal.

Contour or Finishing :



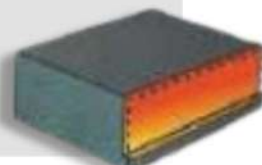
Use 3/5 Flutes Ball End

Plunge / Slot Contouring



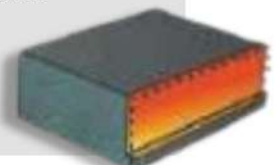
Use 2 Flutes Ball End maximum chip removal. Use 3 flute Ball End for improved surface finish.

Contour Slotting :



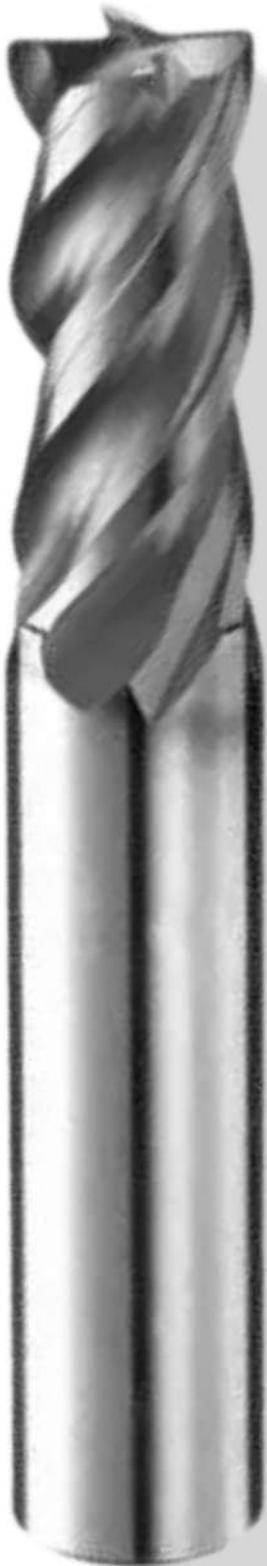
Use 3 Flutes Ball End to resist Chatter. Use 2 Flutes Ball End for max chip removal.

Profiling / Thine Material :

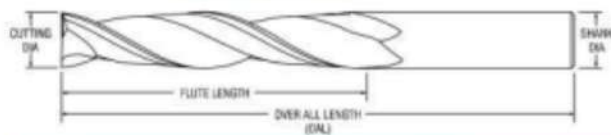


Use 2/4 Straight flutes

MILLING APPLICATION



2 FLUTE ENDMILL



4 FLUTE ENDMILL (Regular)

ITEM CODE	MILL DIA	SHANK DIA	FLUTE	OAL
ESR2 030 R	3	3	10	39
ESR2 040 R	4	4	14	51
ESR2 050 R	5	5	16	51
ESR2 060 R	6	6	19	63
ESR2 080 R	8	8	22	63
ESR2 100 R	10	10	25	70
ESR2 120 R	12	12	25	75
ESR2 140 R	14	14	30	80
ESR2 160 R	16	16	32	80
ESR2 180 R	18	18	35	101
ESR2 200 R	20	20	38	101

4 FLUTE ENDMILL (Long)

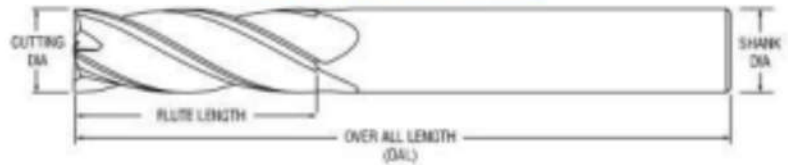
ITEM CODE	MILL DIA	SHANK DIA	FLUTE	OAL
ESR2 030 R	3	3	19	57
ESR2 040 R	4	4	19	57
ESR2 050 R	5	5	25	63
ESR2 060 R	6	6	28	76
ESR2 080 R	8	8	29	76
ESR2 100 R	10	10	32	76
ESR2 120 R	12	12	51	101
ESR2 140 R	14	14	55	125
ESR2 160 R	16	16	55	125
ESR2 180 R	18	18	55	125
ESR2 200 R	20	20	55	125

4 FLUTE ENDMILL (Ex. Long)

ITEM CODE	MILL DIA	SHANK DIA	FLUTE	OAL
ESR2 030 R	3	3	25	75
ESR2 040 R	4	4	25	75
ESR2 050 R	5	5	28	75
ESR2 060 R	6	6	38	101
ESR2 080 R	8	8	40	101
ESR2 100 R	10	10	45	150
ESR2 120 R	12	12	60	150
ESR2 140 R	14	14	75	150
ESR2 160 R	16	16	75	150
ESR2 180 R	18	18	75	150
ESR2 200 R	20	20	75	150

MILLING APPLICATION

4 FLUTE ENDMILL



4 FLUTE ENDMILL (Regular)

ITEM CODE	MILL DIA	SHANK DIA	FLUTE	OAL
ESR2 030 R	3	3	10	39
ESR2 040 R	4	4	14	51
ESR2 050 R	5	5	16	51
ESR2 060 R	6	6	19	63
ESR2 080 R	8	8	22	63
ESR2 100 R	10	10	25	70
ESR2 120 R	12	12	25	75
ESR2 140 R	14	14	30	80
ESR2 160 R	16	16	32	80
ESR2 180 R	18	18	35	101
ESR2 200 R	20	20	38	101

4 FLUTE ENDMILL (Long)

ITEM CODE	MILL DIA	SHANK DIA	FLUTE	OAL
ESR2 030 R	3	3	19	57
ESR2 040 R	4	4	19	57
ESR2 050 R	5	5	25	63
ESR2 060 R	6	6	28	76
ESR2 080 R	8	8	29	76
ESR2 100 R	10	10	32	76
ESR2 120 R	12	12	51	101
ESR2 140 R	14	14	55	125
ESR2 160 R	16	16	55	125
ESR2 180 R	18	18	55	125
ESR2 200 R	20	20	55	125

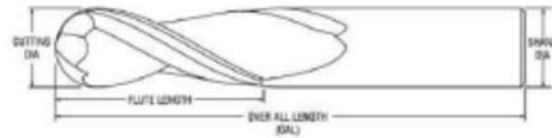
4 FLUTE ENDMILL (Ex. Long)

ITEM CODE	MILL DIA	SHANK DIA	FLUTE	OAL
ESR2 030 R	3	3	25	75
ESR2 040 R	4	4	25	75
ESR2 050 R	5	5	28	75
ESR2 060 R	6	6	38	101
ESR2 080 R	8	8	40	101
ESR2 100 R	10	10	45	150
ESR2 120 R	12	12	60	150
ESR2 140 R	14	14	75	150
ESR2 160 R	16	16	75	150
ESR2 180 R	18	18	75	150
ESR2 200 R	20	20	75	150



BALLNOSE

2 FLUTE BALLNOSE



2 FLUTE BALLNOSE (Regular)

ITEM CODE	MILL DIA	SHANK DIA	FLUTE	OAL
ESR2 030 R	3	3	19	39
ESR2 040 R	4	4	14	51
ESR2 050 R	5	5	16	51
ESR2 060 R	6	6	19	63
ESR2 080 R	8	8	22	63
ESR2 100 R	10	10	25	70
ESR2 120 R	12	12	25	75
ESR2 140 R	14	14	30	80
ESR2 160 R	16	16	32	80
ESR2 180 R	18	18	35	101
ESR2 200 R	20	20	38	101

2 FLUTE BALLNOSE (Long)

ITEM CODE	MILL DIA	SHANK DIA	FLUTE	OAL
ESR2 030 R	3	3	10	39
ESR2 040 R	4	4	14	51
ESR2 050 R	5	5	16	51
ESR2 060 R	6	6	19	63
ESR2 080 R	8	8	22	63
ESR2 100 R	10	10	25	70
ESR2 120 R	12	12	25	75
ESR2 140 R	14	14	30	80
ESR2 160 R	16	16	32	80
ESR2 180 R	18	18	35	101
ESR2 200 R	20	20	38	101

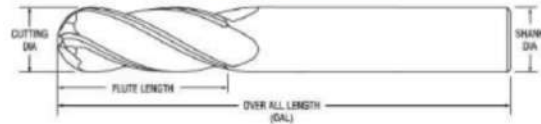
2 FLUTE BALLNOSE (Ex. Long)

ITEM CODE	MILL DIA	SHANK DIA	FLUTE	OAL
ESR2 030 R	3	3	10	39
ESR2 040 R	4	4	14	51
ESR2 050 R	5	5	16	51
ESR2 060 R	6	6	19	63
ESR2 080 R	8	8	22	63
ESR2 100 R	10	10	25	70
ESR2 120 R	12	12	25	75
ESR2 140 R	14	14	30	80
ESR2 160 R	16	16	32	80
ESR2 180 R	18	18	35	101
ESR2 200 R	20	20	38	101

BALLNOSE



4 FLUTE BALLNOSE



4 FLUTE BALLNOSE (Regular)

ITEM CODE	MILL DIA	SHANK DIA	FLUTE	OAL
ESR2 030 R	3	3	19	39
ESR2 040 R	4	4	14	51
ESR2 050 R	5	5	16	51
ESR2 060 R	6	6	19	63
ESR2 080 R	8	8	22	63
ESR2 100 R	10	10	25	70
ESR2 120 R	12	12	25	75
ESR2 140 R	14	14	30	80
ESR2 160 R	16	16	32	80
ESR2 180 R	18	18	35	101
ESR2 200 R	20	20	38	101

4 FLUTE BALLNOSE (Long)

ITEM CODE	MILL DIA	SHANK DIA	FLUTE	OAL
ESR2 030 R	3	3	10	39
ESR2 040 R	4	4	14	51
ESR2 050 R	5	5	16	51
ESR2 060 R	6	6	19	63
ESR2 080 R	8	8	22	63
ESR2 100 R	10	10	25	70
ESR2 120 R	12	12	25	75
ESR2 140 R	14	14	30	80
ESR2 160 R	16	16	32	80
ESR2 180 R	18	18	35	101
ESR2 200 R	20	20	38	101

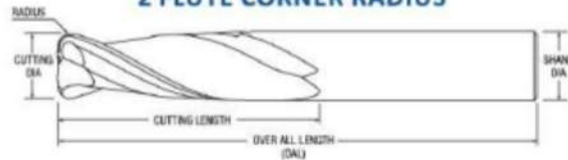
4 FLUTE BALLNOSE (Ex. Long)

ITEM CODE	MILL DIA	SHANK DIA	FLUTE	OAL
ESR2 030 R	3	3	10	39
ESR2 040 R	4	4	14	51
ESR2 050 R	5	5	16	51
ESR2 060 R	6	6	19	63
ESR2 080 R	8	8	22	63
ESR2 100 R	10	10	25	70
ESR2 120 R	12	12	25	75
ESR2 140 R	14	14	30	80
ESR2 160 R	16	16	32	80
ESR2 180 R	18	18	35	101
ESR2 200 R	20	20	38	101

CORNER RADIUS ENDMILL



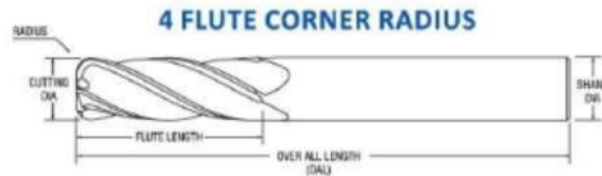
2 FLUTE CORNER RADIUS



2 FLUTE CORNER RADIUS

ITEM CODE	MILL DIA	SHANK DIA	RADIUS	FLUTE	OAL
ECR2 030 R0.5	3	3	0.5	10	39
ECR2 030 R1	3	3	1	10	39
ECR2 040 R0.5	4	4	0.5	14	51
ECR2 040 R1	4	4	1	14	51
ECR2 050 R0.5	5	5	0.5	16	51
ECR2 050 R1	5	5	1	16	51
ECR2 060 R0.5	6	6	0.5	19	63
ECR2 060 R1	6	6	1	19	63
ECR2 060 R1.5	6	6	1.5	19	63
ECR2 080 R0.5	8	8	0.5	22	63
ECR2 080 R1	8	8	1	22	63
ECR2 080 R2	8	8	2	22	63
ECR2 100 R0.5	10	10	0.5	25	70
ECR2 100 R1	10	10	1	25	70
ECR2 100 R2	10	10	2	25	70
ECR2 100 R2.5	10	10	2.5	25	70
ECR2 120 R0.5	12	12	0.5	25	75
ECR2 120 R1	12	12	1	25	75
ECR2 120 R2	12	12	2	25	75
ECR2 120 R3	12	12	3	25	75
ECR2 160 R1	16	16	1	32	80
ECR2 160 R2	16	16	2	32	80
ECR2 160 R3	16	16	3	32	80
ECR2 160 R4	16	16	4	32	80
ECR2 200 R1	20	20	1	38	101
ECR2 200 R3	20	20	2	38	101
ECR2 200 R3	20	20	3	38	101
ECR2 200 R4	20	20	4	38	101

CORNER RADIUS ENDMILL



4 FLUTE CORNER RADIUS

ITEM CODE	MILL DIA	SHANK DIA	RADIUS	FLUTE	OAL
ECR2 030 R0.5	3	3	0.5	10	39
ECR2 030 R1	3	3	1	10	39
ECR2 040 R0.5	4	4	0.5	14	51
ECR2 040 R1	4	4	1	14	51
ECR2 050 R0.5	5	5	0.5	16	51
ECR2 050 R1	5	5	1	16	51
ECR2 060 R0.5	6	6	0.5	19	63
ECR2 060 R1	6	6	1	19	63
ECR2 060 R1.5	6	6	1.5	19	63
ECR2 080 R0.5	8	8	0.5	22	63
ECR2 080 R1	8	8	1	22	63
ECR2 080 R2	8	8	2	22	63
ECR2 100 R0.5	10	10	0.5	25	70
ECR2 100 R1	10	10	1	25	70
ECR2 100 R2	10	10	2	25	70
ECR2 100 R2.5	10	10	2.5	25	70
ECR2 120 R0.5	12	12	0.5	25	75
ECR2 120 R1	12	12	1	25	75
ECR2 120 R2	12	12	2	25	75
ECR2 120 R3	12	12	3	25	75
ECR2 160 R1	16	16	1	32	80
ECR2 160 R2	16	16	2	32	80
ECR2 160 R3	16	16	3	32	80
ECR2 160 R4	16	16	4	32	80
ECR2 200 R1	20	20	1	38	101
ECR2 200 R3	20	20	2	38	101
ECR2 200 R3	20	20	3	38	101
ECR2 200 R4	20	20	4	38	101