

# TRY THE ALL-SHARP DIFFERENCE

At All-Sharp, we are committed to providing our customers outstanding service as well as the craftsmanship that ensures satisfaction. Your end mills receive our quality treatment every step of the way.



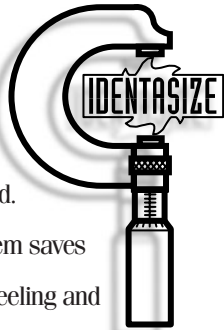
All-Sharp guarantees that your end mills will be sharpened to like new condition.

No more negative rake angles, no more cutting with one flute and no more saw like edges. The standard of our work is so high that many customers prefer using our resharpened end mills over new ones.

Your resharpened end mills are inspected and Identasized.

The Identasize marking system saves the time and headaches of peeling and measuring countless end mills trying to find a certain size. Your Identasized end mills can easily be sorted in the toolroom because we know your people have more important jobs than looking for end mills.

If you need a cutting tool resharpened or altered, you can be confident that an All-Sharp tool will cut perfectly — it's guaranteed.



## END MILLS

2 or 4 flute				Weldon
	Per End	H.S.S	Carbide	Crest Cut
1/8 to 1/4	2.75	5.00	7.25	6.50
1/4 to 1/2	3.35	7.75	7.25	6.50
1/2 to 3/4	4.25	9.75	9.50	8.50
3/4 to 1	5.25	13.00	9.50	8.50
1 to 1 1/2	7.30	16.00	13.50	11.50
1 1/2 to 2	9.50	18.00	13.50	11.50

## ANGLE END MILLS

Per End	H.S.S	Carbide
Up to 1/2	5.50	7.50
1/2 to 1	7.50	10.50
1 to 1 1/2	10.50	15.00
1 1/2 to 2	14.00	

## BALL END MILLS

2 or 4 flute	Per End	H.S.S	Carbide
1/8 to 1/4	3.75	3.75	6.00
1/4 to 1/2	5.50	5.50	8.00
1/2 to 3/4	7.20	7.20	11.00
3/4 to 1	9.30	9.30	14.00
1 to 1 1/2	12.70	12.70	18.00
1 1/2 to 2	16.50	16.50	21.00

## CORNER ROUNDING ENDMILLS

Per End	Radius	H.S.S	Carbide
up to 1/4	Radius	8.50	
1/4 up to 1/2	Radius	12.50	
1/2 to 1	Radius	15.50	
Over 1	Radius	20.00	

## ADDITIONAL CHARGES

Per End	H.S.S	Carbide
6 Flute Add	.50	1.00
8 Flute Add	1.00	2.00
Extra Long Under 3/4 Add	1.00	2.00
Extra Long Over 3/4 Add	2.00	4.00
1 1/4 Shank	2.00	2.00

Additional Charge For Reconditioning (cut off end, reform and and sharpen)

## REAMERS

Per Reamer	H.S.S	Carbide
Chamfer Only		
up to 1/2	3.25	6.50
1/2 to 1	4.75	9.50

## COUNTERBORES

Per Counterbore	H.S.S	Carbide
up to 1/2	3.00	6.00
1/2 to 1	5.00	8.00
1 to 2	7.50	14.00

## COUNTERSINKS

Per C,sink			Chatterless	
	H.S.S	Carbide	H.S.S	Carbide
up to 1/2	3.00	6.00	6.00	10.00
1/2 up to 1	6.00	12.00	8.00	14.00
Over 1	7.75	20.00	10.00	20.00

## TAPS

Per Tap	H.S.S	w/cut off
#10 to 1/2	3.00	5.00
1/2 to 3/4	5.00	7.00
3/4 to 1	8.00	10.00
1 to 1 1/2	15.00	19.00
1 1/2 to 2	20.00	27.00

## DRILLS

Per Drill	H.S.S	Carbide
up to 1/4	1.00	2.00
1/4 to 1/2	2.00	4.00
1/2 to 3/4	3.50	10.00
3/4 to 1	5.00	18.00

## SPADE DRILLS

Per Drill	Reflute
Series A (3/16)	6.00
Series B (9/32)	7.00
Series C (5/16)	8.40
Series D (3/8)	12.00
Series E (7/16)	14.00
Series F (1/2)	18.00
Series G (5/8)	22.00
Series H (1 1/16)	30.00

## KEYSEAT CUTTERS

Per Cutter	Straight	Stagger
up to 1	5.40	7.75
1 to 2	7.25	9.50

## BACK COUNTERBORES

Per End	H.S.S	Carbide
Up to 1	7.50	10.00
1 to 2	10.00	15.00

## GEOMETRIC CHASERS

Per Set	
5/16	17.00
9/16	22.00
3/4	25.00
1	30.00
1 1/2	35.00

## SIDE MILLING CUTTERS

Per Cutter	Straight	Stagger
2x1/8 to 3x3/16	8.50	12.75
3x1/4 to 4x1/2	11.25	16.00
4x5/8 to 5x1/2	13.95	18.25
5x5/8 to 6x1/2	16.25	20.25
6x5/8 to 7x1/2	20.50	28.75

Additional Charge For Sides

## PLAIN MILLING CUTTERS

Per Cutter	H.S.S
2 Long	12.00
3 Long	16.00
4 Long	20.00
5 Long	35.00
6 Long	45.00

## SHELL MILLS

Per Mill	H.S.S	Roughing	End Only
up to 2	13.50	25.50	7.00
2 to 3	16.25	30.25	11.50
3 to 4	21.25	35.75	15.25
4 to 5	26.75	46.50	21.25

## SAWS

Per Saw	H.S.S
up to 3/16 x4	4.00
up to 3/16 x5	5.00
up to 3/16 x6	6.00

## THE ALL-SHARP IDENTASIZE SYSTEM

All-Sharp uses its unique Identasize marking system on all resharpened end mills. After sharpening, the diameter is measured and marked on the Identasize label that is visible through the protective coating. This time saving feature eliminates the need to peel and measure each end mill to find the required size.

Identasize measurements may not be exact. Always measure cutting tools before using.



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