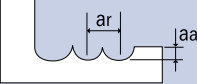




## List 4413: Ball Nose, Regular Length, 2 Flute, Sphere Type

### Profiling

Hardness	<20 HRC		20-30 HRC		30-38 HRC		38-45 HRC		45-55 HRC		55-60 HRC	
Work Material	Mild Steels Carbon Steels Cast Iron		Alloy Steels Tool Steels		Hardened Steels Pre-hardened Steels		Stainless Steels Pre-hardened Steels		Hardened Steels		Hardened Steels	
Cutting Speed	720 SFM		640 SFM		580 SFM		560 SFM		520 SFM		440 SFM	
Depth of Cut	$a_a=0.05D$ $a_r=0.1D$ 						$a_a=0.02D$ $a_r=0.1D$					
Mill Dia.	Speed RPM	Feed in/min	Speed RPM	Feed in/min	Speed RPM	Feed in/min	Speed RPM	Feed in/min	Speed RPM	Feed in/min	Speed RPM	Feed in/min
1/16	25,000	48.9	25,000	43.0	25,000	43.0	25,000	43.0	25,000	43.0	25,000	39.9
3/32	25,000	83.7	25,000	65.9	23,650	62.3	22,800	60.1	21,200	55.8	17,950	45.9
1/8	22,000	98.2	19,550	71.0	17,700	61.2	17,100	57.0	15,900	53.6	13,450	44.0
3/16	14,650	91.2	13,050	72.0	11,800	63.9	11,400	59.8	10,600	56.1	8,950	48.1
1/4	11,000	85.6	9,800	71.9	8,850	66.0	8,550	63.0	7,950	58.8	6,700	49.1
5/16	8,800	70.7	7,800	53.6	7,100	48.5	6,850	47.2	6,350	43.0	5,400	37.8
3/8	7,350	59.1	6,500	42.2	5,900	38.8	5,700	38.5	5,300	35.6	4,500	30.3
1/2	5,500	47.2	4,900	31.0	4,450	29.5	4,300	30.0	3,950	28.0	3,350	22.7

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