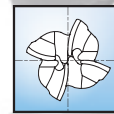
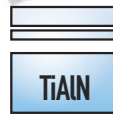


REGULAR LENGTH BALL NOSE HSCO ROUGHERS



This general purpose rougher is designed for high production metal removal in a wide range of work piece material.

- Multiple helical flutes
- Ball end
- Coarse pitch
- Single end with weldon shank
- Round profile

REGULAR LENGTH BALL NOSE ROUGHERS							TiAIN Coated	
Cutting Diameter	Shank Diameter	Flute Length	Overall Length	No. Flutes	Weldon Flat Code No.	Price \$	Code No.	Price \$
1/4	3/8	5/8	2-7/16	3	104-088	45.70	104-288	46.70
5/16	3/8	3/4	2-1/2	3	104-089	45.70	104-289	46.70
3/8	3/8	3/4	2-1/2	4	104-090	45.70	104-290	46.70
1/2	1/2	1-1/4	3-1/4	4	104-091	62.70	104-291	66.50
5/8	5/8	1-5/8	3-3/4	4	104-092	76.50	104-292	78.10
3/4	3/4	1-3/4	4	4	104-093	95.20	104-293	96.50
1	3/4	2	4-1/2	5	104-094	137.60	104-294	133.60
1	1	2	4-1/2	5	104-095	137.60	104-295	144.00
1-1/4	1-1/4	2	4-1/2	6	104-096	230.10	104-296	224.20
1-1/2	1-1/4	2	4-1/2	6	104-097	308.30	104-297	337.70