Standard Shapes

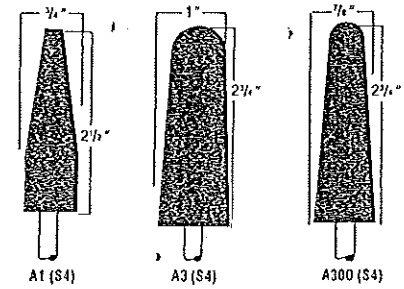
The following charts show the standard shapes for mounted wheels broken down into three basic categories:

- **A** Shapes — primarily for off-hand grinding;
- **B** Shapes — for light deburring and tool & die grinding;
- **W** Shapes — for off-hand and precision grinding, medium to heavy stock removal.

For each shape number, the dimensions, standard spindle designation (S4 = straight, ¼" D; S8 = straight, ⅛" D; T4 = tapered, ¼" D; T8 = tapered, ⅛" D), maximum operating speed and available bond types are given.

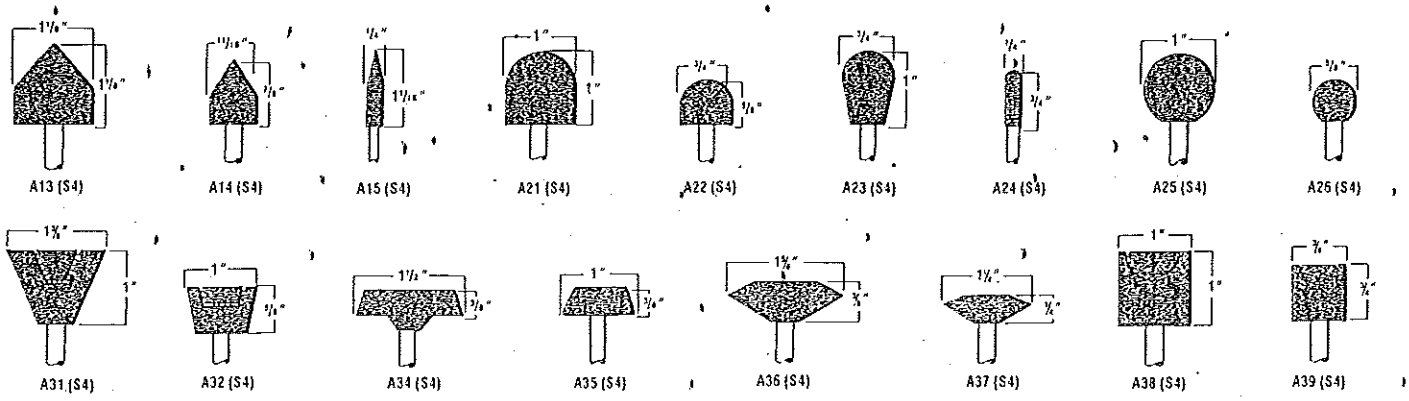
The maximum operating speeds are shown in RPM and are only for the standard spindle, 1½" long with an overhang of ½". For a complete listing of operating speeds for other spindle diameters and overhang dimensions, refer to the Grinding Wheel Institute booklet "Mounted Wheels—Safe and Efficient Operation," available on request.

A Shapes

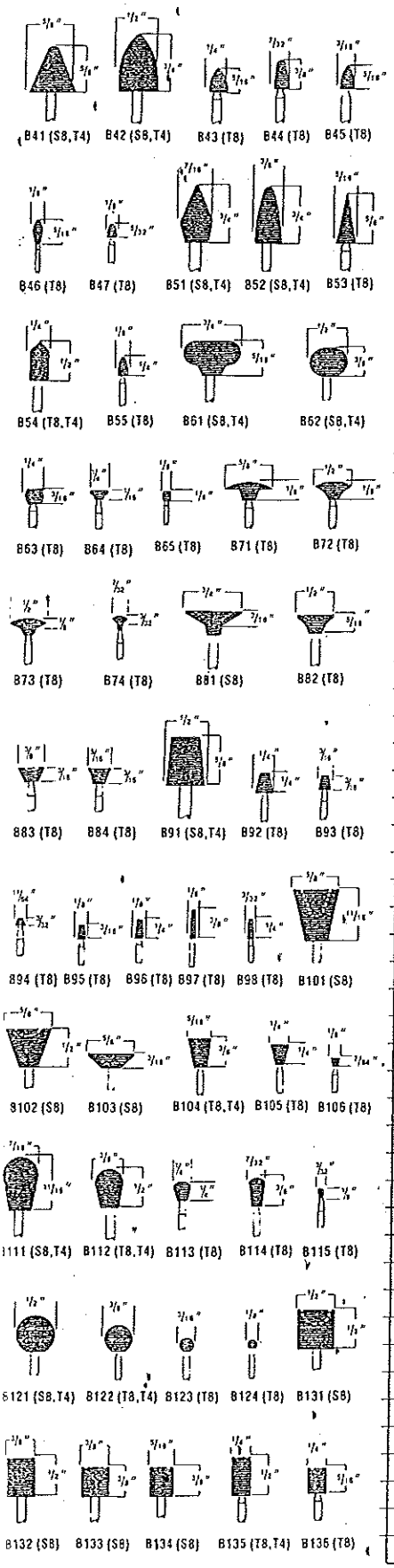


SHAPE #	ABRASIVE SIZE D	ABRASIVE SIZE T	STD. SPINDLE	MAX. SPEED STD. SPINDLE (O = ½") (L = 1½")
A1	¾	2½	S4	19,800
A3	1	2¾	S4	16,100
A300	⅞	2¾	S4	18,000
A4	1¼	1¼	S4	30,560
A5	¾	1⅛	S4	45,000
A6	¾	1⅛	S4	39,000
A11	⅞	2	S4	19,860
A1100	13/16	1¾	S4	27,520
A12	11/16	1¼	S4	48,000
A13	1⅛	1⅛	S4	33,950
A14	11/16	⅞	S4	55,560
A15	¼	1 1/16	S4	72,750
A21	1	1	S4	34,500
A22	¾	⅝	S4	50,930
A23	¾	1	S4	39,370
A24	¼	¾	S4	76,500
A25	1	1	S4	35,620
A26	⅝	⅝	S4	61,120
A31	1⅛	1	S4	27,780
A32	1	⅝	S4	38,200
A34	1½	⅜	S4	25,470
A35	1	⅜	S4	38,200
A36	1⅜	⅜	S4	23,520
A37	1¼	¼	S4	30,560
A38	1	1	S4	34,500
A39	¾	¾	S4	47,250

*V22, V32, V72.

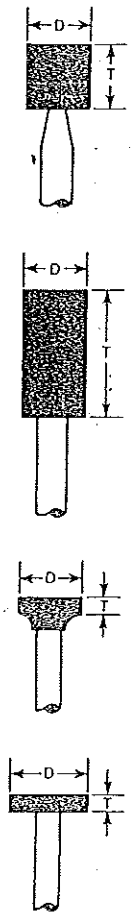


B Shapes



SHAPE #	ABRASIVE SIZE D	T	STD. SPINDLE	MAX. SPEE STD. SPIND (0 = ½") (L = 1½")
B41	5/8	5/8	S8	33,750
B42	1/2	3/4	S8	33,750
B43	1/4	5/16	T8	81,370
B44	7/32	3/8	T8	68,400
B45	3/16	5/16	T8	104,250
B46	1/8	5/32	T8	105,000
B47	1/8	5/32	T8	105,000
B51	7/16	3/4	S8	45,370
B52	3/8	3/4	S8	45,370
B53	5/16	5/8	T8	60,000
B54	1/4	1/2	T8	60,000
B55	1/8	1/4	T8	105,000
B61	3/4	5/16	S8	38,250
B62	1/2	3/8	S8	41,020
B63	1/4	3/16	T8	92,400
B64	1/4	1/16	T8	105,000
B65	1/8	1/8	T8	105,000
B71	5/8	1/8	T8	61,120
B72	1/2	1/8	T8	73,500
B73	1/2	1/8	T8	73,500
B74	7/32	3/32	T8	105,000
B81	3/4	3/16	S8	50,930
B82	1/2	5/16	T8	76,390
B83	3/8	1/8	T8	87,600
B84	5/16	3/16	T8	105,000
B91	1/2	5/8	S8	34,500
B92	1/4	1/4	T8	81,370
B93	3/16	3/16	T8	105,000
B94	11/64	3/32	T8	105,000
B95	1/8	3/16	T8	105,000
B96	1/8	1/4	T8	105,000
B97	1/8	3/8	T8	105,000
B98	3/32	1/4	T8	105,000
B101	5/8	11/16	S8	33,750
B102	5/8	1/2	S8	45,370
B103	5/8	3/16	S8	61,120
B104	5/16	3/8	T8	68,400
B105	1/4	1/4	T8	104,250
B106	1/8	7/64	T8	105,000
B111	7/16	11/16	S8	33,750
B112	3/8	1/2	T8	45,370
B113	1/4	1/4	T8	81,370
B114	7/32	3/8	T8	68,400
B115	3/32	1/8	T8	105,000
B121	1/2	1/2	S8	45,370
B122	3/8	3/8	S8	61,650
B123	3/16	3/16	T8	104,250
B124	1/8	1/8	T8	105,000
B131	1/2	1/2	S8	34,500
B132	3/8	1/2	S8	45,370
B133	3/8	3/8	S8	54,000
B134	5/16	3/8	S8	61,650
B135	1/4	1/2	S8	60,000
B136	1/4	5/16	S8	77,250

W Shapes



SHAPE #	ABRASIVE SIZE D	T	STD. SPINDLE	MAX. SPEE STD. SPINDL (0 = ½") (L = 1½")
W141	3/32	5/32	T8	105,000
W142	3/32	1/4	T8	105,000
W143	1/8	1/8	T8	105,000
W144	1/8	1/4	T8	105,000
W145	1/8	3/8	T8	105,000
W146	1/8	1/2	T8	105,000
W147	5/32	1/32	T8	105,000
W148	5/32	1/16	T8	105,000
W149	5/32	1/4	T8	105,000
W150	3/16	1/16	T8	105,000
W151	3/16	1/8	T8	105,000
W152	3/16	1/4	T8	105,000
W153	3/16	3/8	T8	80,850
W154	3/16	1/2	T8	70,500
W155	13/64	1/4	T8	81,350
W156	1/4	1/32	T8	105,000
W157	1/4	1/16	T8	123,000
W158	1/4	1/8	T8	105,000
W159	1/4	3/16	T8	92,400
W160	1/4	1/4	T8	81,370
W161	1/4	5/16	T8	77,250
W162	1/4	3/8	T8	68,400
W163	1/4	1/2	T8	60,000
W164	1/4	3/4	S8	45,900
W165	5/16	1/16	T8	107,400
W166	5/16	1/8	T8	96,970
W167	5/16	1/4	T8	75,000
W168	5/16	5/16	T8	68,400
W169	5/16	3/8	S8	61,650
W170	5/16	1/2	S8	52,500
W171	5/16	3/4	S8	37,120
W172	3/8	1/16	T8	99,370
W173	3/8	1/8	T8	87,600
W174	3/8	1/4	S8	69,000
W175	3/8	3/8	S8	54,000
W176	3/8	1/2	S8	45,370
W177	3/8	3/4	S8	33,750
W178	3/8	1	S8	26,250
W179	3/8	1¼	T4	45,750
W181	1/2	1/16	S8	76,390
W182	1/2	1/8	T8	73,500
W183	1/2	1/4	S8	51,750
W184	1/2	3/8	S8	41,020
W185	1/2	1/2	S8	34,500
W186	1/2	3/4	S8	26,250
W187	1/2	1	S8	20,620
W188	1/2	1½	S4	30,370
W189	1/2	2	S4	24,000
W190	5/8	1/16	S8	61,120
W191	5/8	1/8	S8	58,870
W192	5/8	1/4	S8	43,120
W193	5/8	3/8	S8	32,250
W194	5/8	1/2	S8	29,400
W195	5/8	3/4	S8	22,120