

### MOUNTED WHEELS AND POINTS

Maximum permissible speed in revolutions per minute of mounted wheels and points and the overhang permissible at that speed.

6.00 or 6.35 mm diameter mandrels.

Shape No.	Wheel Diameter mm	Wheel Thickness mm	13mm Overhang and Thd. Mdlis	Overhang 25 mm	Overhang 40mm
A 1	20	63	19,800	16,500	13,120
A 2	25	32	38,000	32,620	25,500
A 3	25	70	16,100	13,080	10,730
A 3M	16	45	17,000	-	-
A 4	32	32	29,840	24,750	20,250
A 5	20	30	45,000	33,750	27,000
A 11	22	50	19,860	15,100	12,000
A 11LG	32	50	14,100	-	-
A 12	20	30	48,000	35,250	27,370
A 13	28	28	33,950	32,250	25,500
A 14	20	22	53,050	40,500	30,750
*A 15	6	27	72,750	47,620	34,500
A 21	25	25	34,500	26,250	21,000
A 22	20	16	50,000	-	-
A 23	20	25	39,370	30,370	24,370
*A 24	6	20	76,500	49,500	36,370
A 25	25	-	35,620	27,370	22,120
A 26	16	-	59,680	46,500	35,250
A 31	35	27	27,260	26,250	21,000
A 32	25	19	38,200	38,200	30,000
A 33	25	13	38,000	-	-
A 34	38	11	25,130	25,130	25,130
A 35	25	11	38,200	38,200	31,500
A 36	40	11	23,520	23,520	23,520
A 37	32	7	29,840	29,840	29,840
A 38	25	25	34,500	26,250	21,000
A 39	20	20	47,250	35,250	27,750
*A15 and A24 shapes are also available on 3.00 or 3.15mm diameter mandrels.					
A15	6	27	39200	-	-
A24	6	20	51900	-	-

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Shape No.	Wheel Diameter mm	Wheel Thickness mm	13mm Overhang and Thd. Mdlis	Overhang 25 mm	Overhang 40mm
B 41	16	16	33,750	23,250	17,620
B 42	13	20	33,750	23,250	17,620
B 43	6	8	61,370	51,000	34,120
B 44	5.6	10	68,400	42,370	28,870
B 45	4.8	8	104,000	-	-
B 46	4	8	105,000	-	-
B 51	11	20	45,370	28,500	21,000
B 52	10	20	45,370	28,500	21,000
B 53	8	20	42,000	26,500	19,500
B 54	6	13	60,000	-	-
B 55	3	6	105,000	-	-
B 61	20	8	38,250	24,370	17,400
B 62	13	10	41,020	26,400	19,500
B 71	16	3	59,680	48,000	31,500
B 81	20	5	47,750	41,250	27,750
B 82	13	6	76,000	-	-
B 91	13	16	34,500	22,500	16,870
B 92	6	6	81,370	51,000	34,120
B 96	3	6	105,000	64,500	46,650
B 97	3	10	105,000	64,500	46,650
B 98	2-4	6	105,000	-	-
B 101	16	18	33,750	23,250	17,620
B 102	16	13	45,000	-	-
B 103	16	5	59,680	41,250	27,750
B 104	8	10	68,400	42,370	28,870
B 111	11	18	33,750	23,250	17,620
B 112	10	13	45,370	28,500	21,000
B 115	2.5	3	105,000	64,500	46,650
B 121	13	-	45,370	28,500	21,000
B 122	10	-	61,650	37,720	27,000
B 123	5	-	104,250	61,820	44,420
B 124	3	-	105,000	64,500	46,650
B 131	13	13	34,500	22,500	16,870
B 132	10	13	45,370	28,500	21,000
B 133	10	10	54,000	33,000	24,150
B 134	8	9.5	61,000	-	-
B 135	6	13	60,000	38,020	26,250

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Shape No.	Wheel Diameter mm	Wheel Thickness mm	13mm Overhang and Thd. Mdlis	Overhang 25 mm	Overhang 40mm
W 142	2.5	6	105,000	-	-
W 143	3	3	105,000	-	-
W 144	3	6	105,000	64,500	46,650
W 145	3	10	105,000	64,500	46,650
W 146	3	13	105,000	64,500	46,650
W 149	4	6	105,000	64,500	46,650
W 152	5	6	105,000	64,500	46,650
W 153	5	10	80,850	52,500	37,500
W 154	5	13	70,000	-	-
W 160	6	6	81,370	51,000	34,120
W 162	6	10	68,400	42,370	28,870
W 163	6	13	60,000	38,020	26,250
W 164	6	20	45,900	30,000	21,750
W 174	10	6	69,000	41,250	27,750
W 175	10	10	54,000	33,000	24,150
W 176	10	13	45,370	28,500	21,000
W 177	10	20	33,750	23,250	17,620
W 178	10	25	26,250	18,750	14,250
W 182	13	3	73,460	43,650	29,100
W 183	13	6	51,750	31,870	22,500
W 184	13	10	41,020	26,400	19,500
W 185	13	13	34,500	22,500	16,870
W 186	13	20	26,250	-	-
W 187	13	25	20,620	13,870	10,120
W 193	16	9.5	43,000	-	-
W 194	16	13	29,400	19,120	13,500
W 196	16	25	17,620	11,620	8,100
W 201	20	3	47,750	33,550	23,850
W 202	20	6	38,250	24,370	17,400
W 203	20	10	30,000	19,500	13,500
W 204	20	13	25,500	15,900	10,870
W 205	20	20	18,900	12,000	8,400
W 215	25	3	38,200	24,900	18,000
W 216	25	6	30,520	18,600	12,750

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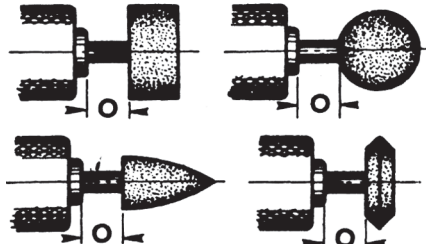
Shape No.	Wheel Diameter mm	Wheel Thickness mm	13mm Overhang and Thd. Mols	Overhang 25 mm	Overhang 40mm
W163	6	13	76,000	-	-
W176	10	13	81,000	54,380	42,000
W177	10	20	66,000	46,500	32,250
W178	10	25	55,200	40,500	30,000
W179	10	32	45,000	-	-
W182	13	3	73,460	62,400	45,750
W183	13	6	73,460	54,750	40,500
W184	13	10	71,250	47,620	35,020
W185	13	13	61,500	42,000	31,500
W186	13	20	51,000	-	-
W187	13	25	40,000	-	-
W188	13	38	30,370	24,000	18,900
W189	13	50	24,000	-	-
W194	16	13	55,400	39,750	29,400
W196	16	25	35,250	27,000	21,300
W197	16	50	21,000	16,500	12,900
W201	20	6	47,750	47,750	38,100
W202	20	10	47,750	44,100	32,400
W203	20	13	47,750	36,370	27,750
W204	20	20	42,750	30,750	23,250
W205	20	25	34,500	25,870	19,500
W207	20	38	24,000	18,520	14,620
W208	20	50	18,750	15,370	12,000
W215	25	3	38,200	38,200	38,200
W216	25	6	38,200	38,200	33,750
W217	25	10	38,200	38,200	28,500
W218	25	13	38,200	32,770	24,900
W220	25	25	25,500	19,120	15,750
W221	25	38	19,120	14,620	12,000
W222	25	50	15,900	12,370	9,750
W225	32	6	29,840	29,840	29,840
W226	32	10	29,840	29,840	26,250
W227	32	13	30,000	-	-
W228	32	20	29,840	22,500	17,850
W230	32	32	20,400	18,750	15,370
W232	32	50	14,250	10,650	9,000
W235	38	6	25,130	25,130	25,130
W236	38	13	25,130	25,130	21,750
W237	38	25	22,500	17,620	13,270
W238	38	38	15,600	12,000	9,750
W242	50	25	19,100	15,950	11,750
W244	50	50	8,000	-	-

## CONDENSED OPERATING RULES FOR MOUNTED WHEELS STANDARD MAXIMUM SPEEDS

The maximum operating speed for mounted wheels is 9,000 surface feet per minute (SFPM). This speed may be reduced by the following factors:

1. Shape and size of the mounted wheel.
2. Size of mandrel.
3. Overhang of mandrel.
4. Wheel specifications.

Taking the first three factors noted above into consideration look up the maximum operating speed in the corresponding tables. The overhangs indicated on the tables are for unthreaded mandrels. Threaded mandrels will take the same as the 13mm overhang of the unthreaded mandrel.



Drawings defining overhang dimension "O"

### Work Pressure

Pressure between wheel and work should at no time be so heavy that any considerable springing of the mandrel results.

**SAFETY PRECAUTIONS** – Wear eye protection or face shield.

Ensure when mounting the wheel that the chuck or bearings of the tool are not worn.

**STORE, HANDLE AND USE WITH CARE.**

**MASTER**  
ABRASIVES

# SAFETY GUIDE MOUNTED WHEELS & POINTS

- **IMPORTANT** – Deliver this folder with mounted wheel to operator
- **CHECK THESE TABLES** from Maximum Operating Speeds and Overhang **DO NOT EXCEED**
- **WEAR FACE PROTECTION**



Eye protection must be worn



Use guard



Wear a mask



Wear ear protectors



Wear protective gloves

[www.master-abrasives.co.uk](http://www.master-abrasives.co.uk)