

# Combined Tables of Dimensions WT, WB, WT-C, WT-CHS

See page 27 for Double Reduction Worm (DW) dimensions.

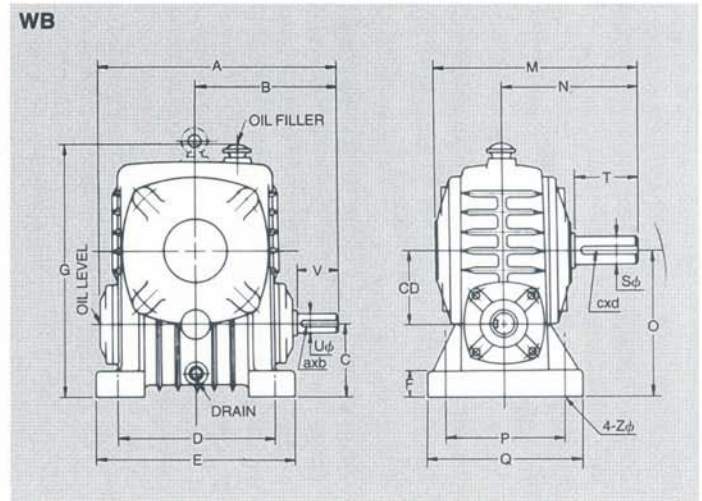
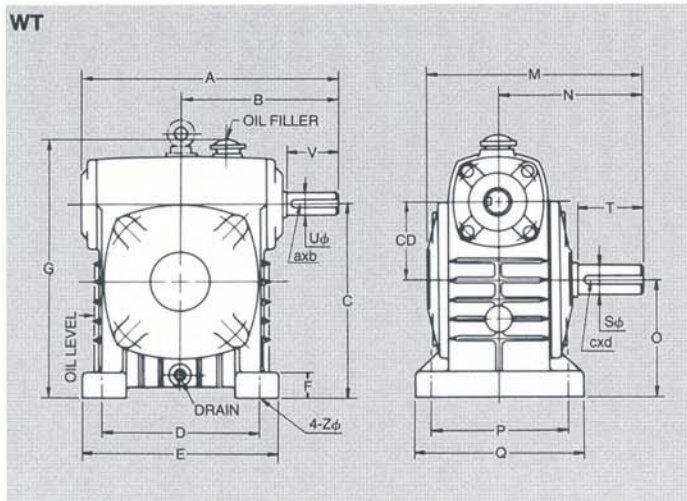
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**Combined Table of Dimensions**

Size	CD	A			B			C		D	E	F	G	
		WT or WB	WT-C or WB-C	WT- CHS	WT or WB	WT-C or WB-C	WT- CHS	WT WT-C WT-CHS	WB WB-C				WT WT-C WT-CHS	WB WB-C
50	1 <sup>31</sup> / <sub>32</sub>	7	9 <sup>1</sup> / <sub>4</sub>	6 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>8</sub>	1 <sup>31</sup> / <sub>32</sub>	4 <sup>5</sup> / <sub>16</sub>	5 <sup>9</sup> / <sub>16</sub>	<sup>19</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>
60	2 <sup>3</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>4</sub>	10	7 <sup>3</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>4</sub>	7	4 <sup>1</sup> / <sub>16</sub>	5 <sup>29</sup> / <sub>32</sub>	2 <sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>4</sub>	6	<sup>25</sup> / <sub>32</sub>	8 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>
70	2 <sup>3</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>2</sub>	8 <sup>17</sup> / <sub>32</sub>	5 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>4</sub>	4 <sup>27</sup> / <sub>32</sub>	6 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	5 <sup>7</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	<sup>25</sup> / <sub>32</sub>	9 <sup>1</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>4</sub>
80	3 <sup>5</sup> / <sub>32</sub>	10 <sup>1</sup> / <sub>2</sub>	12 <sup>3</sup> / <sub>4</sub>	9 <sup>23</sup> / <sub>32</sub>	6 <sup>5</sup> / <sub>16</sub>	8 <sup>9</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	7 <sup>7</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>16</sub>	8 <sup>13</sup> / <sub>16</sub>	<sup>25</sup> / <sub>32</sub>	10 <sup>3</sup> / <sub>4</sub>	10 <sup>3</sup> / <sub>4</sub>
100	3 <sup>15</sup> / <sub>16</sub>	12 <sup>3</sup> / <sub>4</sub>	15 <sup>5</sup> / <sub>8</sub>	12 <sup>3</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>	10 <sup>3</sup> / <sub>8</sub>	6 <sup>7</sup> / <sub>8</sub>	9 <sup>27</sup> / <sub>32</sub>	3 <sup>15</sup> / <sub>16</sub>	8 <sup>11</sup> / <sub>16</sub>	10 <sup>11</sup> / <sub>16</sub>	<sup>31</sup> / <sub>32</sub>	13 <sup>1</sup> / <sub>2</sub>	13 <sup>1</sup> / <sub>2</sub>
120	4 <sup>23</sup> / <sub>32</sub>	15 <sup>1</sup> / <sub>4</sub>	18 <sup>1</sup> / <sub>8</sub>	—	9 <sup>1</sup> / <sub>16</sub>	11 <sup>15</sup> / <sub>16</sub>	—	11 <sup>13</sup> / <sub>16</sub>	4 <sup>23</sup> / <sub>32</sub>	10 <sup>1</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>	<sup>13</sup> / <sub>16</sub>	16	16
135	5 <sup>5</sup> / <sub>16</sub>	17 <sup>1</sup> / <sub>4</sub>	20 <sup>1</sup> / <sub>8</sub>	—	10 <sup>1</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>8</sub>	—	13 <sup>25</sup> / <sub>32</sub>	5 <sup>5</sup> / <sub>16</sub>	11 <sup>7</sup> / <sub>16</sub>	13 <sup>13</sup> / <sub>16</sub>	<sup>13</sup> / <sub>16</sub>	18	18
155	6 <sup>3</sup> / <sub>32</sub>	19 <sup>1</sup> / <sub>2</sub>	22 <sup>7</sup> / <sub>8</sub>	—	11 <sup>7</sup> / <sub>8</sub>	15 <sup>1</sup> / <sub>4</sub>	—	15 <sup>1</sup> / <sub>32</sub>	5 <sup>5</sup> / <sub>16</sub>	12 <sup>5</sup> / <sub>8</sub>	15	<sup>1</sup> / <sub>4</sub>	19 <sup>1</sup> / <sub>2</sub>	19 <sup>1</sup> / <sub>8</sub>
175	6 <sup>7</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>4</sub>	24 <sup>3</sup> / <sub>4</sub>	—	12 <sup>13</sup> / <sub>16</sub>	15 <sup>3</sup> / <sub>16</sub>	—	17 <sup>1</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>16</sub>	13 <sup>4</sup> / <sub>3</sub>	16 <sup>1</sup> / <sub>4</sub>	<sup>1</sup> / <sub>15</sub>	21 <sup>1</sup> / <sub>2</sub>	21 <sup>7</sup> / <sub>8</sub>
200	7 <sup>7</sup> / <sub>8</sub>	26 <sup>1</sup> / <sub>2</sub>	—	—	13 <sup>3</sup> / <sub>4</sub>	—	—	19 <sup>9</sup> / <sub>32</sub>	6 <sup>7</sup> / <sub>8</sub>	13 <sup>4</sup> / <sub>3</sub>	16 <sup>3</sup> / <sub>4</sub>	<sup>12</sup> / <sub>32</sub>	24 <sup>1</sup> / <sub>2</sub>	24 <sup>4</sup> / <sub>5</sub>
225	8 <sup>27</sup> / <sub>32</sub>	28 <sup>3</sup> / <sub>4</sub>	—	—	14 <sup>3</sup> / <sub>4</sub>	—	—	21 <sup>7</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>	15 <sup>3</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	<sup>125</sup> / <sub>32</sub>	27 <sup>1</sup> / <sub>4</sub>	27 <sup>3</sup> / <sub>8</sub>
250	9 <sup>27</sup> / <sub>32</sub>	32	—	—	16 <sup>1</sup> / <sub>2</sub>	—	—	23 <sup>5</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	17 <sup>5</sup> / <sub>16</sub>	21 <sup>1</sup> / <sub>2</sub>	<sup>17</sup> / <sub>8</sub>	29 <sup>1</sup> / <sub>2</sub>	29 <sup>3</sup> / <sub>4</sub>
300	11 <sup>13</sup> / <sub>16</sub>	38	—	—	19 <sup>1</sup> / <sub>2</sub>	—	—	—	7 <sup>1</sup> / <sub>2</sub>	20 <sup>1</sup> / <sub>2</sub>	24 <sup>1</sup> / <sub>2</sub>	<sup>2</sup> / <sub>4</sub>	—	32 <sup>1</sup> / <sub>4</sub>
350	13 <sup>25</sup> / <sub>32</sub>	45	—	—	22 <sup>7</sup> / <sub>16</sub>	—	—	—	8 <sup>15</sup> / <sub>32</sub>	23 <sup>1</sup> / <sub>2</sub>	27 <sup>1</sup> / <sub>2</sub>	<sup>2</sup> / <sub>15</sub>	—	37
400	15 <sup>3</sup> / <sub>4</sub>	48	—	—	24 <sup>7</sup> / <sub>16</sub>	—	—	—	9 <sup>27</sup> / <sub>32</sub>	26	31	<sup>3</sup> / <sub>8</sub>	—	42 <sup>1</sup> / <sub>2</sub>
450	17 <sup>23</sup> / <sub>32</sub>	53	—	—	27 <sup>3</sup> / <sub>8</sub>	—	—	—	10 <sup>1</sup> / <sub>32</sub>	30	35	<sup>3</sup> / <sub>16</sub>	—	47
500	19 <sup>11</sup> / <sub>16</sub>	62	—	—	31 <sup>7</sup> / <sub>8</sub>	—	—	—	11 <sup>13</sup> / <sub>32</sub>	35	41	<sup>3</sup> / <sub>16</sub>	—	52

**General Notes**

- Dimensions are in inches. Differences between WT, WB, WT-C, WC-B and WT-CHS as indicated.
- Not every configuration is shown in drawings.
- Standard assembly bolts are metric high strength socket-head cap screws, counterbored into covers to prevent interference with accessory parts installed on the shaft.
- Shaft diameters and external keyways are machined in inch dimensions. All other dimensions are machine metric and converted to inch dimensions in table.
- Shaft tolerances :  
 Under 3/4": +.0000 -.0005  
 3/4" – 1 3/8": +.0000 -.0008  
 1 3/8" – 1 3/4": +.0000 -.001  
 Over 1 3/4": +.0000 -.0012
- Dimensions A, B and M for models 50 to 80 are based on a 6-1/2" motor flange. Models 100 through 175 are based on a 9" flange. A, B and M dimensions may vary from those shown depending on the motor size and flange size used. Consult Hampton if these dimensions are critical.



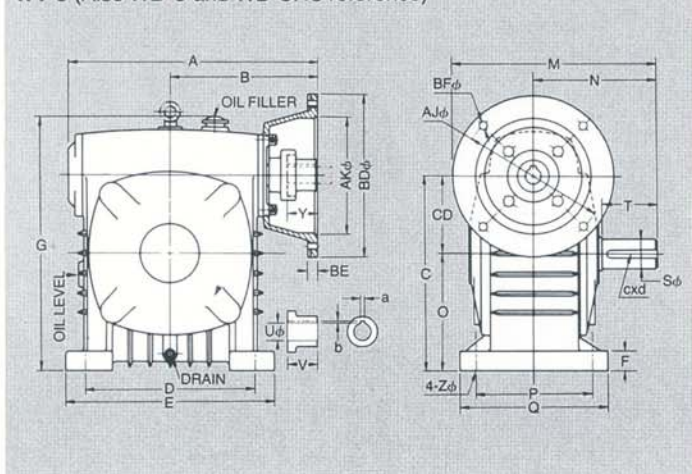
M		N	O		P	Q	Z	High Speed Shaft			Low Speed Shaft			Size
WT or WB	WT-C, WB-C, WT-CHS		WT WT-C WT-CHS	WB WB-C				U	V	a × b	S	T	c × d	
5 <sup>3</sup> / <sub>4</sub>	7	3 <sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>32</sub>	3 <sup>15</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>32</sub>	5/8	1 <sup>3</sup> / <sub>16</sub>	3/16 × 3/32	3/4	1 <sup>9</sup> / <sub>16</sub>	3/16 × 3/32	50
6 <sup>1</sup> / <sub>2</sub>	7 <sup>5</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	3 <sup>17</sup> / <sub>32</sub>	4 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>32</sub>	3/4	1 <sup>9</sup> / <sub>16</sub>	3/16 × 3/32	7/8	2	3/16 × 3/32	60
7 <sup>1</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	6	1 <sup>9</sup> / <sub>32</sub>	7/8	1 <sup>9</sup> / <sub>16</sub>	3/16 × 3/32	1 <sup>1</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	1/4 × 1/8	70
8 <sup>1</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	4 <sup>23</sup> / <sub>32</sub>	6 <sup>5</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>16</sub>	1 <sup>9</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>8</sub>	2	1/4 × 1/8	1 <sup>3</sup> / <sub>8</sub>	2 <sup>9</sup> / <sub>16</sub>	5/16 × 5/32	80
10 <sup>1</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>16</sub>	5 <sup>29</sup> / <sub>32</sub>	7 <sup>7</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	1 <sup>9</sup> / <sub>32</sub>	1 <sup>3</sup> / <sub>8</sub>	2	5/16 × 5/32	1 <sup>1</sup> / <sub>2</sub>	3	3/8 × 3/16	100
11 <sup>7</sup> / <sub>16</sub>	12	7 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>32</sub>	9 <sup>7</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>2</sub>	2 <sup>9</sup> / <sub>16</sub>	3/8 × 3/16	1 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	3/8 × 3/16	120
12 <sup>5</sup> / <sub>8</sub>	12 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	8 <sup>15</sup> / <sub>32</sub>	10 <sup>5</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	9 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>32</sub>	1 <sup>5</sup> / <sub>8</sub>	3	3/8 × 3/16	2 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	1/2 × 1/4	135
15 <sup>1</sup> / <sub>4</sub>	14 <sup>7</sup> / <sub>8</sub>	9 <sup>15</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>4</sub>	11 <sup>13</sup> / <sub>32</sub>	8 <sup>1</sup> / <sub>16</sub>	11	2 <sup>5</sup> / <sub>32</sub>	1 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3/8 × 3/16	2 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>8</sub>	5/8 × 5/16	155
16	14 <sup>13</sup> / <sub>16</sub>	10 <sup>5</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>16</sub>	9 <sup>7</sup> / <sub>8</sub>	12 <sup>3</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>32</sub>	1 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	1/2 × 1/4	2 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>8</sub>	5/8 × 5/16	175
18 <sup>7</sup> / <sub>8</sub>	-	12	11 <sup>13</sup> / <sub>32</sub>	14 <sup>3</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>8</sub>	14 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>32</sub>	2	3 <sup>3</sup> / <sub>4</sub>	1/2 × 1/4	2 <sup>7</sup> / <sub>8</sub>	4 <sup>15</sup> / <sub>16</sub>	3/4 × 3/8	200
20 <sup>11</sup> / <sub>16</sub>	-	13 <sup>3</sup> / <sub>16</sub>	12 <sup>19</sup> / <sub>32</sub>	16 <sup>11</sup> / <sub>32</sub>	13	16 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	1/2 × 1/4	3 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	3/4 × 3/8	225
22	-	14 <sup>3</sup> / <sub>16</sub>	13 <sup>25</sup> / <sub>32</sub>	17 <sup>23</sup> / <sub>32</sub>	15	18 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>8</sub>	1/2 × 1/4	3 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>8</sub>	7/8 × 7/16	250
24 <sup>1</sup> / <sub>2</sub>	-	16 <sup>3</sup> / <sub>16</sub>	-	19 <sup>5</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>12</sub>	17 <sup>3</sup> / <sub>4</sub>	1 <sup>13</sup> / <sub>32</sub>	2 <sup>3</sup> / <sub>4</sub>	4 <sup>15</sup> / <sub>16</sub>	5/8 × 5/16	3 <sup>3</sup> / <sub>4</sub>	6 <sup>11</sup> / <sub>16</sub>	7/8 × 7/16	300
28 <sup>1</sup> / <sub>2</sub>	-	18 <sup>7</sup> / <sub>8</sub>	-	22 <sup>1</sup> / <sub>4</sub>	17	20 <sup>1</sup> / <sub>2</sub>	1 <sup>11</sup> / <sub>16</sub>	3	5 <sup>1</sup> / <sub>16</sub>	3/4 × 3/8	4 <sup>3</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub> × 7/16	350
30 <sup>1</sup> / <sub>2</sub>	-	19 <sup>3</sup> / <sub>4</sub>	-	25 <sup>19</sup> / <sub>32</sub>	18 <sup>1</sup> / <sub>2</sub>	23	1 <sup>11</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>4</sub>	5 <sup>15</sup> / <sub>16</sub>	3/4 × 3/8	5	7 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub> × 7/16	400
34 <sup>1</sup> / <sub>2</sub>	-	21 <sup>1</sup> / <sub>2</sub>	-	27 <sup>3</sup> / <sub>4</sub>	20	25	1 <sup>11</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>16</sub>	3/4 × 3/8	5 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub> × 7/16	450
37 <sup>1</sup> / <sub>2</sub>	-	24	-	31 <sup>3</sup> / <sub>32</sub>	23	28	1 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>16</sub>	7/8 × 7/16	6 <sup>3</sup> / <sub>4</sub>	9 <sup>7</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>4</sub> × 5/8	500

- Keys for external key ways are not supplied.
- Standard NEMA C-face adapters up to Size 80 have a single opening which provides access to the coupling and a drain hole.
- WT-CHS Sizes 120 and 135 available from factory.
- Left hand threaded worms or other modifications to the shafts or to the reducer housing can be supplied upon request. Consult Hampton
- All worm gears are bi-directional.
- Sizes 200 and larger are fan cooled.

**Motor Frame, Motor Coupling Half, Coupling key way Dimensions**

Motor Frame	Motor Coupling Half					Motor Coupling Half			
	AJ	AK	BD	BE	BF	U	V	Y	a × b
56 <sup>1</sup>	5 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	5 <sup>5</sup> / <sub>8</sub>	1 <sup>13</sup> / <sub>32</sub>	5/8	1 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	3/16 × 3/32
143TC, 145TC	5 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	5 <sup>5</sup> / <sub>8</sub>	1 <sup>13</sup> / <sub>32</sub>	7/8	2 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	3/16 × 3/32
182TC, 184TC	7 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	9	3 <sup>3</sup> / <sub>4</sub>	1 <sup>17</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>8</sub>	3	3 <sup>1</sup> / <sub>8</sub>	1/4 × 1/8
213TC, 215TC	7 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	9	3 <sup>3</sup> / <sub>4</sub>	1 <sup>17</sup> / <sub>32</sub>	1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	5/16 × 5/32
254TC, 256TC	7 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	10	3 <sup>3</sup> / <sub>4</sub>	1 <sup>17</sup> / <sub>32</sub>	1 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	3/8 × 3/16

**WT-C (Also WB-C and WB-CHS reference)**



<sup>1</sup>Motors supplied by Hampton are 56 frame below one horsepower, and may be either 56 frame or 143T/145T frame in one horsepower. No 56 frame motors are supplied above one horsepower.

Note on WTC Flange couplings for 56 and 143/5 frames, Size 50-135; for 182/4 frames, Size 80-135; for 213/5 frames Size 80-175; for 254/6 frames, Size 155-175.

**Motor Selection. WT-CHS Units**

	10:1	15:1	20:1	25:1	30:1	40:1	50:1	60:1
50	5/8" bore							
60	7/8" bore							
70	7/8" bore							
80	1 <sup>1</sup> / <sub>8</sub> " bore	7/8 or 1 <sup>1</sup> / <sub>8</sub>		7/8" bore				
100	1 <sup>1</sup> / <sub>8</sub> " bore						7/8" bore	

Bushings to change 7/8" bore to 5/8" bore are available.