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**TRIDENT**  
GEARS

# TRIDENT CATALOGUE



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**CHATHAM**

519-354-2730

**SARNIA**

519-344-3393



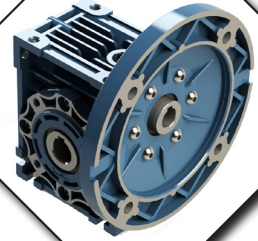
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## TRIDENT Aluminum HSM | Worm Gear Box 030

\*Output RPM Based off 1800RPM Input

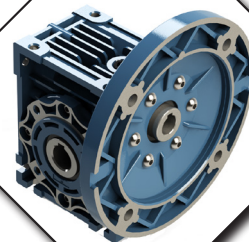
| Part Number       | Ratio | Output RPM | Output Torque | Input Flange | Input HP |
|-------------------|-------|------------|---------------|--------------|----------|
| HHM-030-5:1-56C   | 5:1   | 350        | 160           | 56C          | 1.02     |
| HHM-030-7.5:1-56C | 7.5:1 | 223        | 160           | 56C          | 0.7      |
| HHM-030-10:1-56C  | 10:1  | 175        | 160           | 56C          | 0.54     |
| HHM-030-15:1-56C  | 15:1  | 116        | 160           | 56C          | 0.38     |
| HHM-030-20:1-56C  | 20:1  | 88         | 151           | 56C          | 0.28     |
| HHM-030-25:1-56C  | 25:1  | 70         | 185           | 56C          | 0.3      |
| HHM-030-30:1-56C  | 30:1  | 58         | 177           | 56C          | 0.25     |
| HHM-030-40:1-56C  | 40:1  | 44         | 160           | 56C          | 0.19     |
| HHM-030-50:1-56C  | 50:1  | 35         | 151           | 56C          | 0.15     |
| HHM-030-60:1-56C  | 60:1  | 29         | 134           | 56C          | 0.12     |
| HHM-030-80:1-56C  | 80:1  | 21         | 109           | 56C          | 0.08     |

## Accessories

HHM-030-FA-OUTPUTFLANGE  
HHM-030-SINGLESHAFT 5/8"  
HHM-030-DOUBLESHAFT 5/8"  
HHM-030-TORQUEARM



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## TRIDENT Aluminum HSM | Worm Gear Box 040

\*Output RPM Based off 1800RPM Input

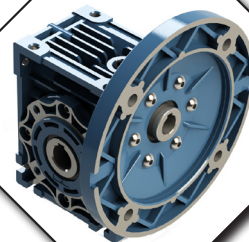
| Part Number       | Ratio | Output RPM | Output Torque | Input Flange | Input HP |
|-------------------|-------|------------|---------------|--------------|----------|
| HHM-040-5:1-56C   | 5:1   | 350        | 303           | 56C          | 1.89     |
| HHM-040-7.5:1-56C | 7.5:1 | 223        | 353           | 56C          | 1.5      |
| HHM-040-10:1-56C  | 10:1  | 175        | 370           | 56C          | 1.21     |
| HHM-040-15:1-56C  | 15:1  | 116        | 370           | 56C          | 0.83     |
| HHM-040-20:1-56C  | 20:1  | 88         | 361           | 56C          | 0.63     |
| HHM-040-25:1-56C  | 25:1  | 70         | 328           | 56C          | 0.48     |
| HHM-040-30:1-56C  | 30:1  | 58         | 403           | 56C          | 0.53     |
| HHM-040-40:1-56C  | 40:1  | 44         | 378           | 56C          | 0.4      |
| HHM-040-50:1-56C  | 50:1  | 35         | 353           | 56C          | 0.31     |
| HHM-040-60:1-56C  | 60:1  | 29         | 319           | 56C          | 0.25     |
| HHM-040-80:1-56C  | 80:1  | 21         | 277           | 56C          | 0.18     |
| HHM-040-100:1-56C | 100:1 | 17.5       | 244           | 56C          | 0.14     |

## Accessories

HHM-040-FA-OUTPUTFLANGE  
HHM-040-FB-OUTPUTFLANGE  
HHM-040-FC-OUTPUTFLANGE  
HHM-040-FD-OUTPUTFLANGE  
HHM-040-BASE  
HHM-040-SINGLESHAFT 3/4"  
HHM-040-DOUBLESHAFT 3/4"  
HHM-040-TORQUEARM



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## TRIDENT Aluminum HSM | Worm Gear Box 050

\*Output RPM Based off 1800RPM Input

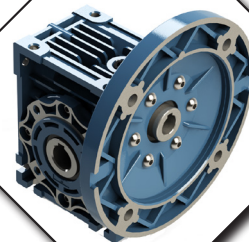
| Part Number       | Ratio | Output RPM | Output Torque | Input Flange | Input HP |
|-------------------|-------|------------|---------------|--------------|----------|
| HHM-050-5:1-56C   | 5:1   | 350        | 572           | 56C          | 3.57     |
| HHM-050-7.5:1-56C | 7.5:1 | 223        | 647           | 56C          | 2.72     |
| HHM-050-10:1-56C  | 10:1  | 175        | 664           | 56C          | 2.12     |
| HHM-050-15:1-56C  | 15:1  | 116        | 681           | 56C          | 1.52     |
| HHM-050-20:1-56C  | 20:1  | 88         | 656           | 56C          | 1.14     |
| HHM-050-25:1-56C  | 25:1  | 70         | 597           | 56C          | 0.86     |
| HHM-050-30:1-56C  | 30:1  | 58         | 740           | 56C          | 0.94     |
| HHM-050-40:1-56C  | 40:1  | 44         | 689           | 56C          | 0.7      |
| HHM-050-50:1-56C  | 50:1  | 35         | 647           | 56C          | 0.56     |
| HHM-050-60:1-56C  | 60:1  | 29         | 605           | 56C          | 0.47     |
| HHM-050-80:1-56C  | 80:1  | 21         | 546           | 56C          | 0.35     |
| HHM-050-100:1-56C | 100:1 | 17.5       | 462           | 56C          | 0.26     |

## Accessories

HHM-050-FA-OUTPUTFLANGE  
HHM-050-FB-OUTPUTFLANGE  
HHM-050-FC-OUTPUTFLANGE  
HHM-050-FD-OUTPUTFLANGE  
HHM-050-BASE  
HHM-050-SINGLESHAFT 1.00"  
HHM-050-DOUBLESHAFT 1.00"  
HHM-050-TORQUEARM



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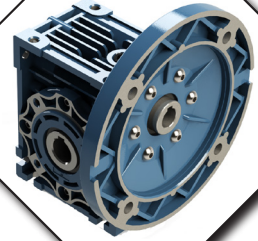
## TRIDENT Aluminum HSM | Worm Gear Box 063

\*Output RPM Based off 1800RPM Input

| Part Number         | Ratio | Output RPM | Output Torque | Input Flange | Input HP |
|---------------------|-------|------------|---------------|--------------|----------|
| HHM-063-5:1-56C     | 5:1   | 350        | 897           | 56C          | 5.52     |
| HHM-063-5:1-140TC   | 5:1   | 350        | 897           | 140TC        | 5.52     |
| HHM-063-7.5:1-56C   | 7.5:1 | 223        | 1076          | 56C          | 4.46     |
| HHM-063-7.5:1-140TC | 7.5:1 | 223        | 1076          | 140TC        | 4.46     |
| HHM-063-10:1-56C    | 10:1  | 175        | 1108          | 56C          | 3.52     |
| HHM-063-10:1-140TC  | 10:1  | 175        | 1108          | 140TC        | 3.52     |
| HHM-063-15:1-56C    | 15:1  | 116        | 1236          | 56C          | 2.7      |
| HHM-063-15:1-140TC  | 15:1  | 116        | 1236          | 140TC        | 2.7      |
| HHM-063-20:1-56C    | 20:1  | 88         | 1225          | 56C          | 2.06     |
| HHM-063-20:1-140TC  | 20:1  | 88         | 1225          | 140TC        | 2.06     |
| HHM-063-25:1-56C    | 25:1  | 70         | 1124          | 56C          | 1.56     |
| HHM-063-25:1-140TC  | 25:1  | 70         | 1124          | 140TC        | 1.56     |
| HHM-063-30:1-56C    | 30:1  | 58         | 1345          | 56C          | 1.64     |
| HHM-063-30:1-140TC  | 30:1  | 58         | 1345          | 140TC        | 1.64     |
| HHM-063-40:1-56C    | 40:1  | 44         | 1261          | 56C          | 1.21     |
| HHM-063-40:1-140TC  | 40:1  | 44         | 1261          | 140TC        | 1.21     |
| HHM-063-50:1-56C    | 50:1  | 35         | 1208          | 56C          | 0.99     |
| HHM-063-50:1-140TC  | 50:1  | 35         | 1208          | 140TC        | 0.99     |
| HHM-063-60:1-56C    | 60:1  | 29         | 1135          | 56C          | 0.82     |
| HHM-063-60:1-140TC  | 60:1  | 29         | 1135          | 140TC        | 0.82     |
| HHM-063-80:1-56C    | 80:1  | 21         | 1027          | 56C          | 0.6      |
| HHM-063-80:1-140TC  | 80:1  | 21         | 1027          | 140TC        | 0.6      |
| HHM-063-100:1-56C   | 100:1 | 17.5       | 992           | 56C          | 0.51     |
| HHM-063-100:1-140TC | 100:1 | 17.5       | 992           | 140TC        | 0.51     |



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## **TRIDENT** Aluminum HSM | Worm Gear Box 063

### Accessories

HHM-063-FA-OUTPUTFLANGE

HHM-063-FB-OUTPUTFLANGE

HHM-063-FC-OUTPUTFLANGE

HHM-063-FD-OUTPUTFLANGE

HHM-063-FE-OUTPUTFLANGE

HHM-063-BASE-B

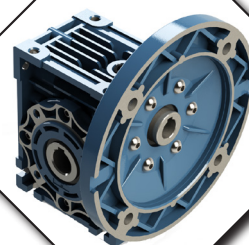
HHM-063-TORQUEARM

HHM-063-SINGLESHAFT 1-1/8"

HHM-063-DOUBLESHAFT 1-1/8"



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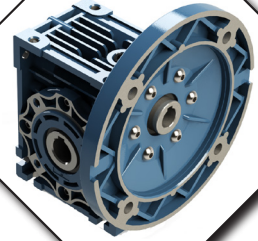
## TRIDENT Aluminum HSM | Worm Gear Box 075

\*Output RPM Based off 1800RPM Input

| Part Number         | Ratio | Output RPM | Output Torque | Input Flange | Input HP |
|---------------------|-------|------------|---------------|--------------|----------|
| HHM-075-7.5:1-56C   | 56C   | 223        | 1555          | 56C          | 6.44     |
| HHM-075-7.5:1-140TC | 140TC | 223        | 1555          | 140TC        | 6.44     |
| HHM-075-7.5:1-180TC | 180TC | 223        | 1555          | 180TC        | 6.44     |
| HHM-075-10:1-56C    | 56C   | 175        | 1656          | 56C          | 5.2      |
| HHM-075-10:1-140TC  | 140TC | 175        | 1656          | 140TC        | 5.2      |
| HHM-075-10:1-180TC  | 180TC | 175        | 1656          | 180TC        | 5.2      |
| HHM-075-15:1-56C    | 56C   | 116        | 1900          | 56C          | 4.07     |
| HHM-075-15:1-140TC  | 140TC | 116        | 1900          | 140TC        | 4.07     |
| HHM-075-15:1-180TC  | 180TC | 116        | 1900          | 180TC        | 4.07     |
| HHM-075-20:1-56C    | 56C   | 88         | 1953          | 56C          | 3.24     |
| HHM-075-20:1-140TC  | 140TC | 88         | 1953          | 140TC        | 3.24     |
| HHM-075-20:1-180TC  | 180TC | 88         | 1953          | 180TC        | 3.24     |
| HHM-075-25:1-56C    | 56C   | 70         | 1784          | 56C          | 2.43     |
| HHM-075-25:1-140TC  | 140TC | 70         | 1784          | 140TC        | 2.43     |
| HHM-075-25:1-180TC  | 180TC | 70         | 1784          | 180TC        | 2.43     |
| HHM-075-30:1-56C    | 56C   | 58         | 2028          | 56C          | 2.41     |
| HHM-075-30:1-140TC  | 140TC | 58         | 2028          | 140TC        | 2.41     |
| HHM-075-30:1-180TC  | 180TC | 58         | 2028          | 180TC        | 2.41     |
| HHM-075-40:1-56C    | 56C   | 44         | 2029          | 56C          | 1.9      |
| HHM-075-40:1-140TC  | 140TC | 44         | 2029          | 140TC        | 1.9      |
| HHM-075-40:1-180TC  | 180TC | 44         | 2029          | 180TC        | 1.9      |
| HHM-075-50:1-56C    | 56C   | 35         | 1881          | 56C          | 1.47     |
| HHM-075-50:1-140TC  | 140TC | 35         | 1881          | 140TC        | 1.47     |
| HHM-075-50:1-180TC  | 180TC | 35         | 1881          | 180TC        | 1.47     |
| HHM-075-60:1-56C    | 56C   | 29         | 1778          | 56C          | 1.22     |
| HHM-075-60:1-140TC  | 140TC | 29         | 1778          | 140TC        | 1.22     |
| HHM-075-60:1-180TC  | 180TC | 29         | 1778          | 180TC        | 1.22     |
| HHM-075-80:1-56C    | 56C   | 21         | 1632          | 56C          | 0.91     |
| HHM-075-80:1-140TC  | 140TC | 21         | 1632          | 140TC        | 0.91     |
| HHM-075-80:1-180TC  | 180TC | 21         | 1632          | 180TC        | 0.91     |
| HHM-075-100:1-56C   | 56C   | 17.5       | 1517          | 56C          | 0.74     |



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## **TRIDENT** Aluminum HSM | Worm Gear Box 075

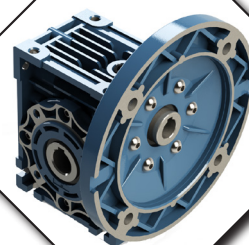
### Accessories

HHM-075-FA-OUTPUTFLANGE  
HHM-075-FB-OUTPUTFLANGE  
HHM-075-BASE  
HHM-075-SINGLESHAFT 1-1/8"  
HHM-075-DOUBLESHAFT 1-1/8"  
HHM-075-TORQUEARM





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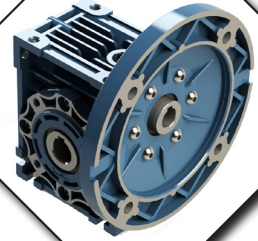
## TRIDENT Aluminum HSM | Worm Gear Box 090

\*Output RPM Based off 1800RPM Input

| Part Number         | Ratio | Output RPM | Output Torque | Input Flange | Input HP |
|---------------------|-------|------------|---------------|--------------|----------|
| HHM-090-7.5:1-56C   | 7.5:1 | 223        | 2682          | 56C          | 10.98    |
| HHM-090-7.5:1-140TC | 7.5:1 | 223        | 2682          | 140TC        | 10.98    |
| HHM-090-7.5:1-180TC | 7.5:1 | 223        | 2682          | 180TC        | 10.98    |
| HHM-090-10:1-56C    | 10:01 | 175        | 2867          | 56C          | 8.92     |
| HHM-090-10:1-140TC  | 10:01 | 175        | 2867          | 140TC        | 8.92     |
| HHM-090-10:1-180TC  | 10:01 | 175        | 2867          | 180TC        | 8.92     |
| HHM-090-15:1-56C    | 15:01 | 116        | 3330          | 56C          | 7.05     |
| HHM-090-15:1-140TC  | 15:01 | 116        | 3330          | 140TC        | 7.05     |
| HHM-090-15:1-180TC  | 15:01 | 116        | 3330          | 180TC        | 7.05     |
| HHM-090-20:1-56C    | 20:01 | 88         | 3288          | 56C          | 5.33     |
| HHM-090-20:1-140TC  | 20:01 | 88         | 3288          | 140TC        | 5.33     |
| HHM-090-20:1-180TC  | 20:01 | 88         | 3288          | 180TC        | 5.33     |
| HHM-090-25:1-56C    | 25:01 | 70         | 3145          | 56C          | 4.18     |
| HHM-090-25:1-140TC  | 25:01 | 70         | 3145          | 140TC        | 4.18     |
| HHM-090-25:1-180TC  | 25:01 | 70         | 3145          | 180TC        | 4.18     |
| HHM-090-30:1-56C    | 30:1  | 58         | 3632          | 56C          | 4.21     |
| HHM-090-30:1-140TC  | 30:1  | 58         | 3632          | 140TC        | 4.21     |
| HHM-090-30:1-180TC  | 30:1  | 58         | 3632          | 180TC        | 4.21     |
| HHM-090-40:1-56C    | 40:1  | 44         | 3330          | 56C          | 3.01     |
| HHM-090-40:1-140TC  | 40:1  | 44         | 3330          | 140TC        | 3.01     |
| HHM-090-40:1-180TC  | 40:1  | 44         | 3330          | 180TC        | 3.01     |
| HHM-090-50:1-56C    | 50:1  | 35         | 3145          | 56C          | 2.36     |
| HHM-090-50:1-140TC  | 50:1  | 35         | 3145          | 140TC        | 2.36     |
| HHM-090-50:1-180TC  | 50:1  | 35         | 3145          | 180TC        | 2.36     |
| HHM-090-60:1-56C    | 60:1  | 29         | 2960          | 56C          | 1.93     |
| HHM-090-60:1-140TC  | 60:1  | 29         | 2960          | 140TC        | 1.93     |
| HHM-090-60:1-180TC  | 60:1  | 29         | 2960          | 180TC        | 1.93     |
| HHM-090-80:1-56C    | 80:1  | 21         | 2397          | 56C          | 1.27     |
| HHM-090-80:1-140TC  | 80:1  | 21         | 2397          | 140TC        | 1.27     |
| HHM-090-80:1-180TC  | 80:1  | 21         | 2397          | 180TC        | 1.27     |
| HHM-090-100:1-56C   | 100:1 | 17.5       | 2271          | 56C          | 1.03     |
| HHM-090-100:1-140TC | 100:1 | 17.5       | 2271          | 140TC        | 1.03     |
| HHM-090-100:1-180TC | 100:1 | 17.5       | 2271          | 180TC        | 1.03     |



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## **TRIDENT** Aluminum HSM | Worm Gear Box 090

### Accessories

HHM-090-FA-OUTPUTFLANGE

HHM-090-FB-OUTPUTFLANGE

HHM-090-FC-OUTPUTFLANGE

HHM-090-FD-OUTPUTFLANGE

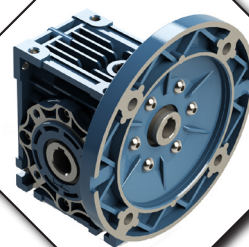
HHM-090-BASE

HHM-090-SINGLESHAFT 1-3/8"

HHM-090-DOUBLESHAFT 1-3/8"



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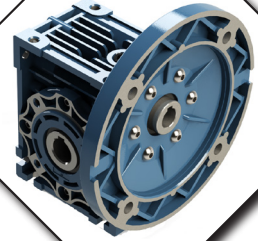
## TRIDENT Aluminum HSM | Worm Gear Box 110

\*Output RPM Based off 1800RPM Input

| Part Number         | Ratio | Output RPM | Output Torque | Input Flange | Input HP |
|---------------------|-------|------------|---------------|--------------|----------|
| HHM-110-7.5:1-140TC | 7.5:1 | 223        | 4641          | 140TC        | 19       |
| HHM-110-7.5:1-180TC | 7.5:1 | 223        | 4641          | 180TC        | 19       |
| HHM-110-7.5:1-210TC | 7.5:1 | 223        | 4641          | 210TC        | 19       |
| HHM-110-10:1-140TC  | 10:01 | 175        | 5029          | 140TC        | 15.61    |
| HHM-110-10:1-180TC  | 10:01 | 175        | 5029          | 180TC        | 15.61    |
| HHM-110-10:1-210TC  | 10:01 | 175        | 5029          | 210TC        | 15.61    |
| HHM-110-15:1-140TC  | 15:01 | 116        | 5516          | 140TC        | 11.65    |
| HHM-110-15:1-180TC  | 15:01 | 116        | 5516          | 180TC        | 11.65    |
| HHM-110-15:1-210TC  | 15:01 | 116        | 5516          | 210TC        | 11.65    |
| HHM-110-20:1-140TC  | 20:01 | 88         | 5415          | 140TC        | 8.68     |
| HHM-110-20:1-180TC  | 20:01 | 88         | 5415          | 180TC        | 8.68     |
| HHM-110-20:1-210TC  | 20:01 | 88         | 5415          | 210TC        | 8.68     |
| HHM-110-25:1-140TC  | 25:1  | 70         | 5709          | 140TC        | 7.4      |
| HHM-110-25:1-180TC  | 25:1  | 70         | 5709          | 180TC        | 7.4      |
| HHM-110-25:1-210TC  | 25:1  | 70         | 5709          | 210TC        | 7.4      |
| HHM-110-30:1-140TC  | 30:1  | 58         | 6096          | 140TC        | 6.98     |
| HHM-110-30:1-180TC  | 30:1  | 58         | 6096          | 180TC        | 6.98     |
| HHM-110-30:1-210TC  | 30:1  | 58         | 6096          | 210TC        | 6.98     |
| HHM-110-40:1-140TC  | 40:1  | 44         | 5903          | 140TC        | 5.13     |
| HHM-110-40:1-180TC  | 40:1  | 44         | 5903          | 180TC        | 5.13     |
| HHM-110-40:1-210TC  | 40:1  | 44         | 5903          | 210TC        | 5.13     |
| HHM-110-50:1-140TC  | 50:1  | 35         | 5550          | 140TC        | 4.01     |
| HHM-110-50:1-180TC  | 50:1  | 35         | 5550          | 180TC        | 4.01     |
| HHM-110-50:1-210TC  | 50:1  | 35         | 5550          | 210TC        | 4.01     |
| HHM-110-60:1-140TC  | 60:1  | 29         | 5180          | 140TC        | 3.2      |
| HHM-110-60:1-180TC  | 60:1  | 29         | 5180          | 180TC        | 3.2      |
| HHM-110-60:1-210TC  | 60:1  | 29         | 5180          | 210TC        | 3.2      |
| HHM-110-80:1-140TC  | 80:1  | 21         | 4330          | 140TC        | 2.17     |
| HHM-110-80:1-180TC  | 80:1  | 21         | 4330          | 180TC        | 2.17     |
| HHM-110-80:1-210TC  | 80:1  | 21         | 4330          | 210TC        | 2.17     |
| HHM-110-100:1-140TC | 100:1 | 17.5       | 4061          | 140TC        | 1.73     |
| HHM-110-100:1-180TC | 100:1 | 17.5       | 4061          | 180TC        | 1.73     |
| HHM-110-100:1-210TC | 100:1 | 17.5       | 4061          | 210TC        | 1.73     |



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## **TRIDENT** Aluminum HSM | Worm Gear Box 110

### Accessories

HHM-110-FA-OUTPUTFLANGE  
HHM-110-SINGLESHAFT 1-5/8"  
HHM-110-DOUBLESHAFT 1-5/8"



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## TRIDENT Parts and Accessories

### Output Flanges



A



B



C



D

### Single Output Shaft



### Double Output Shaft



### Base Plate



### Torque Arm





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GEARS



## **TRIDENT** Parts and Accessories

**2.7:1 Ratio Multiplier  
56C Input  
56C Output  
Part Number: 1905656**



**Install the Trident ratio multiplier to create more ratio  
by installing the ratio multiplier between the motor  
and the gearbox**



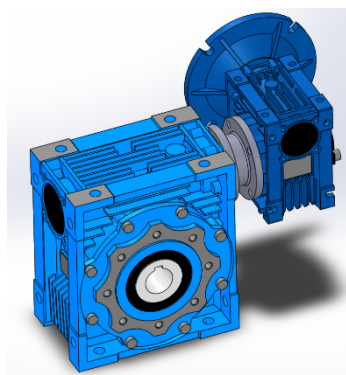
**TRIDENT**  
GEARS



## TRIDENT Parts and Accessories

### Trident Double Reduction Gearbox Options

The Trident Double Reduction Kits give the ability to mount two gearboxes into one providing lots of ratio options.



**Step 1 – Choose a flange that fits the gearboxratio options.**

#### Trident Double Reduction Flange

| Part Number | Description                |
|-------------|----------------------------|
| 1003040     | HHM 30/40 DR FLANGE        |
| 1003050     | HHM 30/50 DR FLANGE        |
| 1003063     | HHM 30/63 DR FLANGE        |
| 1004050     | HHM 40/50 DR FLANGE        |
| 1004063     | HHM 40/63 DR FLANGE        |
| 1004075     | HHM 40/75, 40/90 DR FLANGE |
| 1005063     | HHM 50/63 DR FLANGE        |
| 1015090     | HHM 50/75, 50/90 DR FLANGE |

**Step 2 – Choose a shaft that fits the correct gearbox.**

#### Trident Double Reduction Shafts

| Part Number | Description                     |
|-------------|---------------------------------|
| 1300056     | HHM 30/40, 30/50 56C DR SHAFT   |
| 1300140     | HHM 30/63, 140TC DR SHAFT       |
| 1400140     | HHM 40/63, 75/90 140TC DR SHAFT |
| 1400056     | HHM 50/63, 75/90 56C DR SHAFT   |
| 1500056     | HHM 50/90 56CDR SHAFT           |
| 1500140     | HHM 50/90 140TC DR SHAFT        |





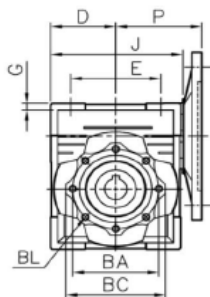
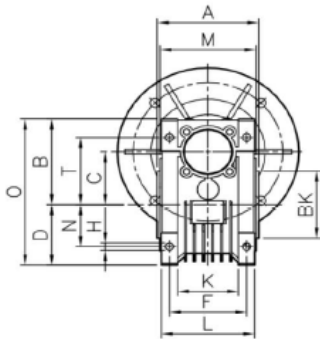
# TRIDENT<sup>®</sup>

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## TRIDENT Dimensions and Technical Information

**WORM GEAR DRIVE RATINGS - SINGLE REDUCTION** UNIT SIZE AND CENTER DISTANCE IN MM

|       | 30        |            | 40         |               | 50         |               | 63         |               | 75         |               | 90         |               | 110        |               | 130        |               | 150        |               |
|-------|-----------|------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|
| RATIO | INPUT RPM | OUTPUT RPM | INPUT H.P. | OUTPUT TORQUE | INPUT H.P. | OUTPUT TORQUE | INPUT H.P. | OUTPUT TORQUE | INPUT H.P. | OUTPUT TORQUE | INPUT H.P. | OUTPUT TORQUE | INPUT H.P. | OUTPUT TORQUE | INPUT H.P. | OUTPUT TORQUE | INPUT H.P. | OUTPUT TORQUE |
| 5     | 1750      | 350        | 1.02       | 160           | 1.89       | 303           | 3.57       | 572           | 5.52       | 897           |            |               |            |               |            |               |            |               |
| 7.5   | 1750      | 223        | 0.7        | 160           | 1.5        | 353           | 2.72       | 647           | 4.46       | 1076          | 6.44       | 1555          | 10.98      | 2682          | 19         | 4641          | 25.65      | 6306          |
| 10    | 1750      | 175        | 0.54       | 160           | 1.21       | 370           | 2.12       | 664           | 3.52       | 1108          | 5.2        | 1656          | 8.92       | 2867          | 15.61      | 5029          | 21.51      | 6895          |
| 15    | 1750      | 116        | 0.38       | 160           | 0.83       | 370           | 1.52       | 681           | 2.7        | 1236          | 4.07       | 1900          | 7.05       | 3330          | 11.65      | 5516          | 16.46      | 7735          |
| 20    | 1750      | 88         | 0.28       | 151           | 0.63       | 361           | 1.14       | 656           | 2.06       | 1225          | 3.24       | 1953          | 5.33       | 3288          | 8.68       | 5415          | 12.21      | 7651          |
| 25    | 1750      | 70         | 0.3        | 185           | 0.48       | 328           | 0.86       | 597           | 1.56       | 1124          | 2.43       | 1784          | 4.18       | 3145          | 7.4        | 5709          | 10.22      | 7819          |
| 30    | 1750      | 58         | 0.25       | 177           | 0.53       | 403           | 0.94       | 740           | 1.64       | 1345          | 2.41       | 2028          | 4.21       | 3632          | 6.98       | 6096          | 9.99       | 8745          |
| 40    | 1750      | 44         | 0.19       | 160           | 0.4        | 378           | 0.7        | 689           | 1.21       | 1261          | 1.9        | 2029          | 3.01       | 3330          | 5.13       | 5903          | 7.76       | 8829          |
| 50    | 1750      | 35         | 0.15       | 151           | 0.31       | 353           | 0.56       | 647           | 0.99       | 1208          | 1.47       | 1881          | 2.36       | 3145          | 4.01       | 5550          | 6.02       | 8240          |
| 60    | 1750      | 29         | 0.12       | 134           | 0.25       | 319           | 0.47       | 605           | 0.82       | 1135          | 1.22       | 1778          | 1.93       | 2960          | 3.2        | 5180          | 4.8        | 7567          |
| 80    | 1750      | 21         | 0.08       | 109           | 0.18       | 277           | 0.35       | 546           | 0.6        | 1027          | 0.91       | 1632          | 1.27       | 2397          | 2.17       | 4330          | 3.55       | 7063          |
| 100   | 1750      | 17.5       |            |               | 0.14       | 244           | 0.26       | 462           | 0.51       | 992           | 0.74       | 1517          | 1.03       | 2271          | 1.73       | 4061          | 2.66       | 6222          |



**ALUMINUM WORM GEAR REDUCERS DIMENSIONS**

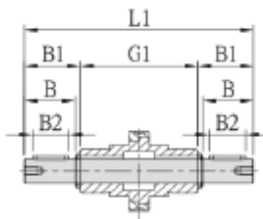
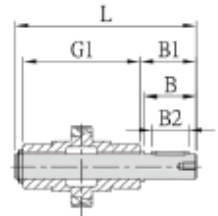
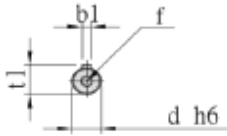
|    | 30              | 40              | 50              | 63              | 75              | 90              | 110             | 130             | 150             |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A  | 2.48            | 3.07            | 3.62            | 4.41            | 4.72            | 5.51            | 6.10            | 6.69            | 7.87            |
| B  | 2.24            | 2.81            | 3.31            | 4.02            | 4.69            | 5.31            | 6.59            | 7.38            | 9.06            |
| BA | 2.56            | 2.95            | 3.35            | 3.74            | 4.53            | 5.12            | 6.50            | 8.46            | 8.46            |
| BC | 2.95            | 3.43            | 3.94            | 4.33            | 5.51            | 6.30            | 7.87            | 9.84            | 9.84            |
| BH | 90°             | 45°             | 45°             | 45°             | 45°             | 45°             | 45°             | 45°             | 45°             |
| BK | 2.165 0/-0.0018 | 2.362 0/-0.0018 | 2.756 0/-0.0018 | 3.150 0/-0.0021 | 3.740 0/-0.0021 | 4.331 0/-0.0021 | 5.118 0/-0.0025 | 7.087 0/-0.0025 | 7.087 0/-0.0025 |
| BL | M6x10mm         | M6x8mm          | M8x10mm         | M8x14mm         | M8x14mm         | M10x18mm        | M10x18mm        | M12x25mm        | M12x25mm        |
| C  | 1.18            | 1.57            | 1.97            | 2.48            | 2.95            | 3.54            | 4.33            | 5.12            | 5.91            |
| D  | 1.57            | 1.97            | 2.36            | 2.83            | 3.39            | 4.06            | 5.02            | 5.81            | 6.69            |
| E  | 2.13            | 2.75            | 3.15            | 3.94            | 4.72            | 5.51            | 6.69            | 7.87            | 9.45            |
| F  | 1.73            | 2.36            | 2.76            | 3.35            | 3.54            | 3.94            | 4.53            | 4.72            | 5.71            |
| G  | 0.22            | 0.26            | 0.28            | 0.31            | 0.39            | 0.43            | 0.57            | 0.61            | 0.71            |
| H  | 0.26            | 0.26            | 0.33            | 0.33            | 0.45            | 0.51            | 0.55            | 0.63            | 0.71            |
| J  | 3.19            | 3.98            | 4.76            | 5.75            | 6.85            | 8.19            | 9.94            | 11.52           | 13.39           |
| K  | 1.26            | 1.69            | 1.93            | 2.64            | 2.83            | 2.91            | -               | -               | -               |
| L  | 2.20            | 2.80            | 3.35            | 4.06            | 4.41            | 5.12            | 5.67            | 6.10            | 7.28            |
| M  | 2.28            | 2.87            | 3.43            | 4.17            | 4.49            | 5.28            | 5.83            | 6.38            | 7.56            |
| N  | 1.06            | 1.38            | 1.57            | 1.97            | 2.36            | 2.76            | 3.35            | 3.94            | 4.72            |
| O  | 3.82            | 4.78            | 5.67            | 6.85            | 8.07            | 9.37            | 11.61           | 13.19           | 15.75           |
| P  | 2.64            | 3.39            | 3.70            | 4.13            | 4.96            | 5.63            | 6.61            | 7.40            | 8.46            |
| T  | 1.73            | 2.17            | 2.52            | 3.15            | 3.66            | 4.02            | 4.92            | 5.51            | 7.09            |
| Z  | 2.91            | 3.63            | 3.92            | 4.71            | 5.25            | 6.09            | 6.77            | 7.09            | 8.07            |





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## GEARS

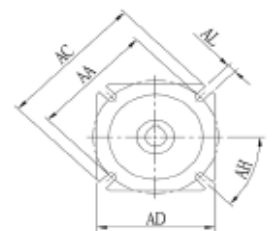
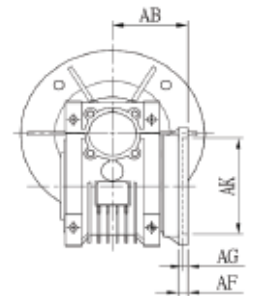


### OUTPUT SHAFT

| 1  | 30              | 40              | 50              | 63              | 75              | 90              | 110             | 130             | 150             |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| d  | 0.625 0/-0.0005 | 0.750 0/-0.0005 | 1.000 0/-0.0005 | 1.125 0/-0.0005 | 1.125 0/-0.0005 | 1.375 0/-0.0005 | 1.625 0/-0.0005 | 1.750 0/-0.0005 | 2.000 0/-0.0005 |
| b1 | 0.1875          | 0.1875          | 0.2500          | 0.2500          | 0.2500          | 0.3125          | 0.3750          | 0.3750          | 0.5000          |
| t1 | 0.70            | 0.83            | 1.11            | 1.23            | 1.36            | 1.51            | 1.79            | 1.92            | 2.22            |
| f  | 1/4-20          | 1/4-20          | 3/8-16          | 3/8-16          | 1/2-13          | 1/2-13          | 5/8-11          | 5/8-11          | 3/4-10          |
| 8  | 1.57            | 1.97            | 1.97            | 2.36            | 2.76            | 3.15            | 3.54            | 3.54            | 3.94            |
| 81 | 1.67            | 2.09            | 2.11            | 2.50            | 2.89            | 3.33            | 3.72            | 3.74            | 4.13            |
| 82 | 1.125           | 1.500           | 1.500           | 1.875           | 2.250           | 2.500           | 2.750           | 2.750           | 3.500           |
| G1 | 2.48            | 3.07            | 3.62            | 4.41            | 4.72            | 5.51            | 6.10            | 6.69            | 7.87            |
| L  | 4.41            | 5.43            | 6.02            | 7.20            | 7.56            | 9.21            | 9.80            | 10.43           | 11.69           |
| L1 | 5.82            | 7.25            | 7.84            | 9.41            | 10.50           | 12.17           | 13.54           | 14.17           | 16.13           |

### OUTPUT FLANGE

|     | OUTPUT FLANGE | AA   | AB   | AC    | AD    | AF   | AG   | AH  | AK              | AL   |
|-----|---------------|------|------|-------|-------|------|------|-----|-----------------|------|
| 30  | FA            | 2.68 | 2.15 | 3.15  | 2.76  | 0.24 | 0.16 | 45° | 1.969 +0.0015/0 | 0.26 |
| 40  | FA            | 2.95 | 2.64 | 4.33  | 3.74  | 0.28 | 0.16 | 45° | 2.326 +0.0018/0 | 0.35 |
|     | FB            | 2.95 | 3.82 | 4.33  | 3.74  | 0.28 | 0.16 | 45° | 2.326 +0.0018/0 | 0.35 |
|     | FC            | 4.53 | 3.15 | 5.51  | -     | 0.35 | 0.20 | 45° | 3.740 +0.0021/0 | 0.35 |
|     | FD            | 3.94 | 2.28 | 4.72  | -     | 0.47 | 0.20 | 45° | 3.150 +0.0018/0 | 0.35 |
| 50  | FA            | 3.35 | 3.54 | 4.92  | 4.33  | 0.35 | 0.20 | 45° | 2.756 +0.0018/0 | 0.43 |
|     | FB            | 3.35 | 4.72 | 4.92  | 4.33  | 0.35 | 0.20 | 45° | 2.756 +0.0018/0 | 0.43 |
|     | FC            | 5.12 | 3.50 | 6.30  | -     | 0.39 | 0.20 | 45° | 4.331 +0.0021/0 | 0.37 |
|     | FD            | 4.53 | 2.83 | 5.51  | -     | 0.57 | 0.20 | 45° | 3.740 +0.0021/0 | 0.43 |
| 63  | FA            | 5.91 | 3.23 | 7.09  | 5.59  | 0.39 | 0.24 | 45° | 4.528 +0.0021/0 | 0.43 |
|     | FB            | 5.91 | 4.41 | 7.09  | 5.59  | 0.39 | 0.24 | 45° | 4.528 +0.0021/0 | 0.43 |
|     | FC            | 6.50 | 3.86 | 7.87  | -     | 0.39 | 0.20 | 45° | 5.118 +0.0025/0 | 0.43 |
|     | FD            | 6.50 | 4.21 | 7.87  | -     | 0.39 | 0.20 | 45° | 5.118 +0.0025/0 | 0.43 |
|     | FE            | 5.12 | 3.17 | 6.30  | -     | 0.65 | 0.20 | 45° | 4.331 +0.0021/0 | 0.43 |
| 75  | FA            | 6.50 | 4.37 | 7.87  | 6.69  | 0.51 | 0.24 | 45° | 5.118 +0.0025/0 | 0.55 |
|     | FB            | 5.12 | 3.54 | 6.30  | -     | 0.51 | 0.24 | 45° | 4.331 +0.0021/0 | 0.55 |
| 90  | FA            | 6.89 | 4.37 | 8.27  | 7.87  | 0.51 | 0.24 | 45° | 5.984 +0.0025/0 | 0.55 |
|     | FB            | 8.46 | 4.80 | 9.84  | -     | 0.71 | 0.24 | 45° | 7.087 +0.0025/0 | 0.55 |
|     | FC            | 6.50 | 4.33 | 7.87  | -     | 0.67 | 0.24 | 45° | 5.118 +0.0025/0 | 0.43 |
|     | FD            | 6.89 | 5.94 | 8.27  | -     | 0.51 | 0.24 | 45° | 5.984 +0.0025/0 | 0.55 |
| 110 | FA            | 9.06 | 5.16 | 11.02 | 10.24 | 0.59 | 0.24 | 45° | 6.893 +0.0025/0 | 0.55 |
| 130 | FA            | 10.4 | 5.51 | 12.6  | 11.42 | 0.59 | 0.24 | 45° | 7.087 +0.0025/0 | 0.63 |
| 150 | FA            | 10.4 | 6.10 | 12.6  | 11.42 | 0.59 | 0.24 | 45° | 7.087 +0.0025/0 | 0.63 |

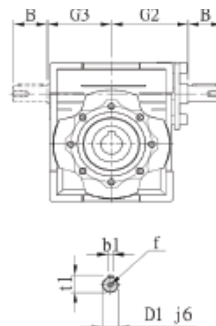




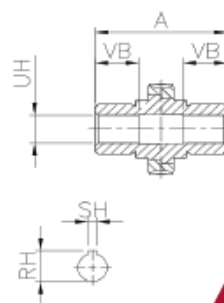
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## GEARS

| INPUT SHAFT |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| I           | 30              | 40              | 50              | 63              | 75              | 90              | 110             | 130             | 150             |
| D1          | 0.375 0/-0.0005 | 0.500 0/-0.0005 | 0.625 0/-0.0005 | 0.750 0/-0.0005 | 0.875 0/-0.0005 | 0.875 0/-0.0005 | 1.125 0/-0.0005 | 1.125 0/-0.0005 | 1.375 0/-0.0005 |
| b1          | 0.094           | 0.125           | 0.188           | 0.188           | 0.188           | 0.188           | 0.250           | 0.250           | 0.315           |
| t1          | 0.42            | 0.55            | 0.70            | 0.83            | 0.96            | 0.96            | 1.24            | 1.36            | 1.51            |
| f           | 1/4-20          | 1/4-20          | 1/4-20          | 1/4-20          | 1/4-20          | 1/4-20          | 3/8-16          | 1/2-13          | 1/2-13          |
| 8           | 1.18            | 1.18            | 1.58            | 1.97            | 2.36            | 2.36            | 2.76            | 3.15            | 3.15            |
| G2          | 2.01            | 2.36            | 2.91            | 3.54            | 4.13            | 4.92            | 5.59            | 6.38            | 7.68            |
| G3          | 1.77            | 2.09            | 2.52            | 2.95            | 3.54            | 4.25            | 5.31            | 6.10            | 6.89            |



| OUTPUT BORE |               |               |               |               |               |               |               |               |               |
|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|             | 30            | 40            | 50            | 63            | 75            | 90            | 110           | 130           | 150           |
| A           | 2.48          | 3.07          | 3.62          | 4.41          | 4.72          | 5.51          | 6.10          | 6.69          | 7.87          |
| VB          | 0.83          | 1.14          | 1.28          | 1.42          | 1.56          | 1.77          | 1.97          | 2.24          | 2.85          |
| UH          | 0.825+0.001/0 | 0.750+0.001/0 | 1.000+0.001/0 | 1.125+0.001/0 | 1.250+0.001/0 | 1.375+0.001/0 | 1.625+0.001/0 | 1.750+0.001/0 | 2.000+0.001/0 |
| SH          | 0.1875        | 0.1875        | 0.2500        | 0.2500        | 0.2500        | 0.3125        | 0.3750        | 0.3750        | 0.5000        |
| RH          | 0.71          | 0.84          | 1.12          | 1.24          | 1.37          | 1.52          | 1.80          | 1.93          | 2.22          |



| INPUT FLANGE - INPUT BORE |       |      |      |       |       |       |       |   |     |    |    |    |    |    |    |    |    |    |
|---------------------------|-------|------|------|-------|-------|-------|-------|---|-----|----|----|----|----|----|----|----|----|----|
| SIZE                      | NEMA  | N    | M    | P     | D     | B     | T     | I |     |    |    |    |    |    |    |    |    |    |
|                           |       |      |      |       |       |       |       | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 |
|                           |       |      |      |       |       |       |       | D |     |    |    |    |    |    |    |    |    |    |
| 30                        | 48C   | 3.00 | 3.75 | 5.625 | 0.500 | 0.188 | 0.594 | * | *   | *  | *  | *  | *  | *  | *  | *  | *  | *  |
|                           | 56C   | 4.50 | 5.88 | 6.500 | 0.625 | 0.188 | 0.719 | * | *   | *  | *  | *  | *  | *  | *  | *  | *  | *  |
| 40                        | 56C   | 4.50 | 5.88 | 6.500 | 0.625 | 0.188 | 0.719 | * | *   | *  | *  | *  | *  | *  | *  | *  | *  | *  |
| 50                        | 56C   | 4.50 | 5.88 | 6.500 | 0.625 | 0.188 | 0.719 | * | *   | *  | *  | *  | *  | *  | *  | *  | *  | *  |
| 63                        | 56C   | 4.50 | 5.88 | 6.500 | 0.625 | 0.188 | 0.719 |   |     |    |    | *  | *  | *  | *  | *  | *  | *  |
|                           | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | 0.188 | 0.969 | * | *   | *  | *  | *  | *  | *  | *  |    |    |    |
| 75                        | 56C   | 4.50 | 5.88 | 6.500 | 0.625 | 0.188 | 0.719 |   |     |    |    |    |    |    |    | *  | *  | *  |
|                           | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | 0.188 | 0.969 | - | -   | -  | *  | *  | *  | *  | *  |    |    |    |
|                           | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | 0.250 | 1.246 |   | *   | *  | *  |    |    |    |    |    |    |    |
| 90                        | 56C   | 4.50 | 5.88 | 6.500 | 0.625 | 0.188 | 0.719 |   |     |    |    |    |    |    |    |    | *  | *  |
|                           | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | 0.188 | 0.969 |   |     |    |    | *  | *  | *  | *  | *  |    |    |
|                           | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | 0.250 | 1.246 | - | *   | *  | *  | *  | *  | *  | *  |    |    |    |
| 110                       | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | 0.188 | 0.969 |   |     |    |    |    |    |    |    | *  | *  | *  |
|                           | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | 0.250 | 1.246 |   |     |    |    | *  | *  | *  | *  | *  | *  |    |
|                           | 210TC | 8.50 | 7.25 | 9.000 | 1.375 | 0.312 | 1.523 |   | *   | *  | *  | *  | *  | *  | *  |    |    |    |
| 130                       | 140TC | 4.50 | 5.88 | 6.500 | 0.875 | 0.188 | 0.969 |   |     |    |    |    |    |    |    |    | *  | *  |
|                           | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | 0.250 | 1.246 |   |     |    |    |    | *  | *  | *  | *  | *  |    |
|                           | 210TC | 8.50 | 7.25 | 9.000 | 1.375 | 0.312 | 1.523 |   | *   | *  | *  | *  | *  | *  | *  |    |    |    |
| 150                       | 180TC | 8.50 | 7.25 | 9.000 | 1.125 | 0.250 | 1.246 |   |     |    |    |    | *  | *  | *  | *  | *  | *  |
|                           | 210TC | 8.50 | 7.25 | 9.000 | 1.375 | 0.312 | 1.523 |   |     |    | *  | *  | *  | *  | *  |    |    |    |
|                           | 250TC | 8.50 | 7.25 | 9.000 | 1.625 | 0.375 | 1.800 | * | *   | *  | *  |    |    |    |    |    |    |    |

