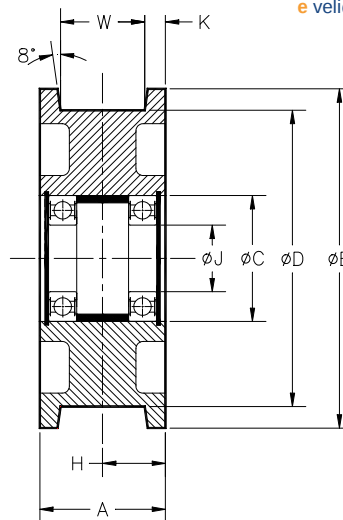
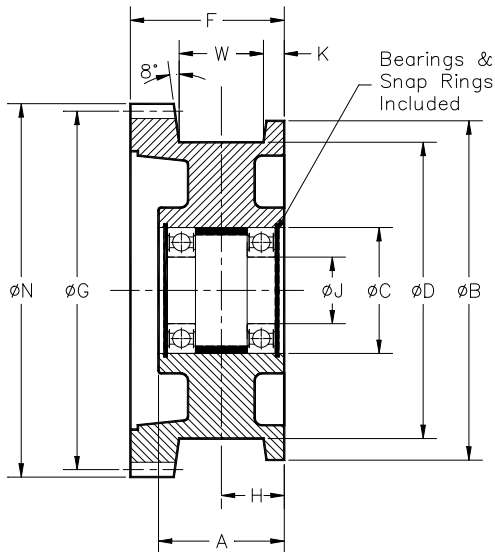


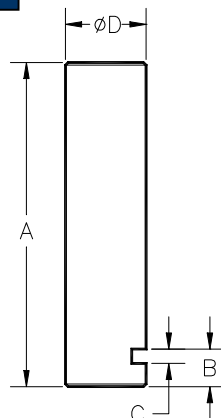


## Double Flange Wheels



| Model  |    | A    | B     | C    | D<br>(Tread<br>Dia.) | F    | G<br>(Pitch<br>Dia.) | H    | J<br>(Axle<br>Dia.) | K    | N     | W    | No of<br>Teeth | Gear<br>Module | No of<br>Brgs. | Max Wheel<br>Load | Max Rail<br>Width |
|--------|----|------|-------|------|----------------------|------|----------------------|------|---------------------|------|-------|------|----------------|----------------|----------------|-------------------|-------------------|
| DF120  | mm | 76   | 147   | 62   | 120                  | 92   | 156                  | 38   | 30                  | 11   | 162   | 49   | 52             | 3              | 2              | 1836 kg           | 44 mm<br>1.75 in  |
|        | in | 2.99 | 5.79  | 2.44 | 4.72                 | 3.62 | 6.14                 | 1.50 | 1.18                | 0.43 | 6.38  | 1.91 | 52             | 3              | 2              | 4048 lbs          |                   |
| DF120B | mm | 76   | 147   | 62   | 120                  | 92   | 156                  | 38   | 30                  | 11   | 162   | 49   | 52             | 3              | 3              | 2932 kg           | 44 mm<br>1.75 in  |
|        | in | 2.99 | 5.79  | 2.44 | 4.72                 | 3.62 | 6.14                 | 1.50 | 1.18                | 0.43 | 6.38  | 1.91 | 52             | 3              | 3              | 6465 lbs          |                   |
| DF200  | mm | 84   | 229   | 85   | 200                  | 103  | 247                  | 42   | 45                  | 14   | 252   | 51   | 82             | 3              | 2              | 3280 kg           | 47 mm<br>1.87 in  |
|        | in | 3.31 | 9.02  | 3.35 | 7.87                 | 4.06 | 9.72                 | 1.65 | 1.77                | 0.55 | 9.92  | 2.02 | 82             | 3              | 2              | 7232 lbs          |                   |
| DF200B | mm | 84   | 229   | 85   | 200                  | 103  | 247                  | 42   | 45                  | 14   | 252   | 51   | 82             | 3              | 3              | 5767 kg           | 47 mm<br>1.87 in  |
|        | in | 3.31 | 9.02  | 3.35 | 7.87                 | 4.06 | 9.72                 | 1.65 | 1.77                | 0.55 | 9.92  | 2.02 | 82             | 3              | 3              | 12716 lbs         |                   |
| DF320  | mm | 103  | 346   | 120  | 320                  | 135  | 387                  | 52   | 55                  | 17   | 393   | 64   | 129            | 3              | 2              | 6850 kg           | 58 mm<br>2.31 in  |
|        | in | 4.06 | 13.62 | 4.72 | 12.60                | 5.31 | 15.24                | 2.05 | 2.17                | 0.67 | 15.47 | 2.53 | 129            | 3              | 2              | 15104 lbs         |                   |
| DF320B | mm | 103  | 346   | 120  | 320                  | 135  | 387                  | 52   | 55                  | 17   | 393   | 64   | 129            | 3              | 3              | 10420 kg          | 58 mm<br>2.31 in  |
|        | in | 4.06 | 13.62 | 4.72 | 12.60                | 5.31 | 15.24                | 2.05 | 2.17                | 0.67 | 15.47 | 2.53 | 129            | 3              | 3              | 22976 lbs         |                   |
| DF500  | mm | 130  | 550   | 150  | 500                  | 170  | 552                  | 65   | 70                  | 18   | 560   | 89   | 138            | 4              | 3              | 14822 kg          | 85 mm<br>3.38 in  |
|        | in | 5.12 | 21.65 | 5.91 | 19.69                | 6.69 | 21.73                | 2.56 | 2.76                | 0.71 | 22.05 | 3.51 | 138            | 4              | 3              | 32683 lbs         |                   |

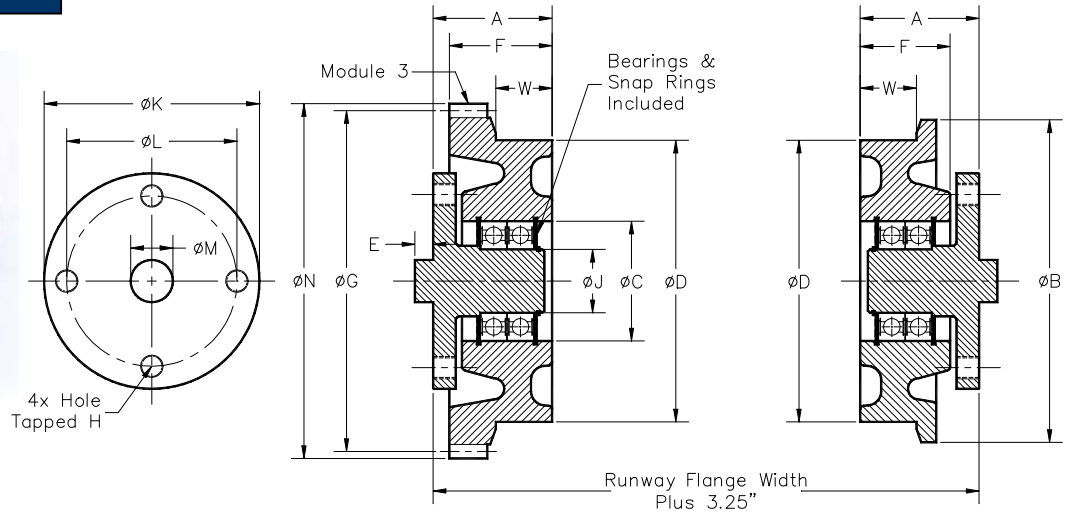
## Axles for Double Flange Wheels



| Model |    | A     | B    | C    | D<br>(Axle Dia.) |
|-------|----|-------|------|------|------------------|
| DFA30 | mm | 152   | 14   | 8    | 30               |
|       | in | 5.98  | 0.55 | 0.31 | 1.18             |
| DFA45 | mm | 181   | 14   | 8    | 45               |
|       | in | 7.13  | 0.55 | 0.31 | 1.77             |
| DFA55 | mm | 232   | 14   | 8    | 55               |
|       | in | 9.13  | 0.55 | 0.31 | 2.17             |
| DFA70 | mm | 292   | 17   | 10   | 70               |
|       | in | 11.50 | 0.67 | 0.39 | 2.76             |

## Crane Wheels

### Single Flange Wheels



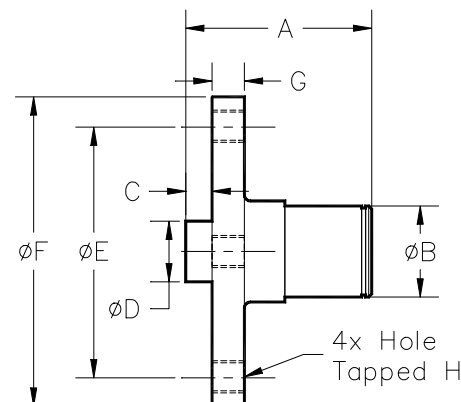
| Model |    | A    | B     | C    | D<br>(Tread<br>Dia.) | E    | F    | G<br>(Pitch<br>Dia.) | H        | J<br>(Axle<br>Dia.) | K    | L    | M    | N     | W    | No of<br>Teeth | Gear<br>Module | Max Wheel<br>Load |
|-------|----|------|-------|------|----------------------|------|------|----------------------|----------|---------------------|------|------|------|-------|------|----------------|----------------|-------------------|
| SF130 | mm | 64   | 160   | 62   | 130                  | 6    | 58   | 156                  | 1/2-13NC | 30                  | 102  | 82   | 30   | 162   | 26   | 52             | 3              | 1497 kg           |
|       | in | 2.52 | 6.30  | 2.44 | 5.12                 | 0.24 | 2.28 | 6.14                 | 1/2-13NC | 1.18                | 4.02 | 3.23 | 1.18 | 6.38  | 1.02 | 52             | 3              | 3300 lbs          |
| SF200 | mm | 76   | 229   | 85   | 200                  | 13   | 73   | 247                  | 5/8-11NC | 45                  | 153  | 121  | 30   | 252   | 40   | 82             | 3              | 2983 kg           |
|       | in | 2.99 | 9.02  | 3.35 | 7.87                 | 0.51 | 2.87 | 9.72                 | 5/8-11NC | 1.77                | 6.02 | 4.76 | 1.18 | 9.92  | 1.57 | 82             | 3              | 6578 lbs          |
| SF315 | mm | -    | 346   | 120  | 315                  | -    | 110  | 387                  | -        | 55                  | -    | -    | -    | 393   | 55   | 129            | 3              | 6338 kg           |
|       | in | -    | 13.62 | 4.72 | 12.40                | -    | 4.33 | 15.24                | -        | 2.17                | -    | -    | -    | 15.47 | 2.17 | 129            | 3              | 13975 lbs         |

Flat or tapered tread available on SF130 and SF315

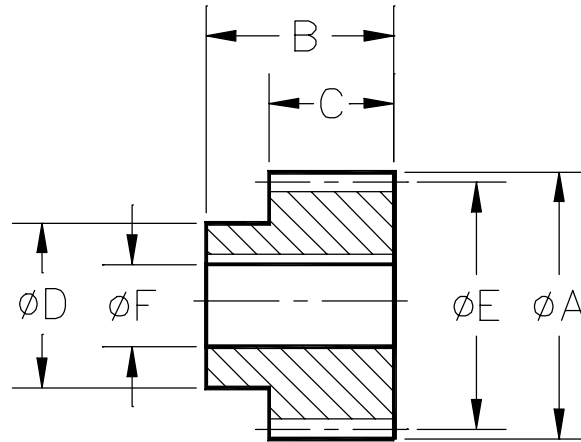
SF200 are supplied with a universal tread (combined flat and tapered). If dimensions are critical, please ask for engineered drawing of SF200 wheel.

### Axle Modules for Single Flange Wheels

| Model |    | A    | B<br>(Axle Dia.) | C    | D    | E    | F    | G    | (Tapped) |
|-------|----|------|------------------|------|------|------|------|------|----------|
| SFA30 | mm | 67   | 30               | 6    | 30   | 82   | 102  | 14   | 1/2-13NC |
|       | in | 2.64 | 1.18             | 0.24 | 1.18 | 3.23 | 4.02 | 0.55 | 1/2-13NC |
| SFA45 | mm | 90   | 45               | 13   | 30   | 121  | 153  | 16   | 5/8-11NC |
|       | in | 3.54 | 1.77             | 0.51 | 1.18 | 4.76 | 6.02 | 0.63 | 5/8-11NC |



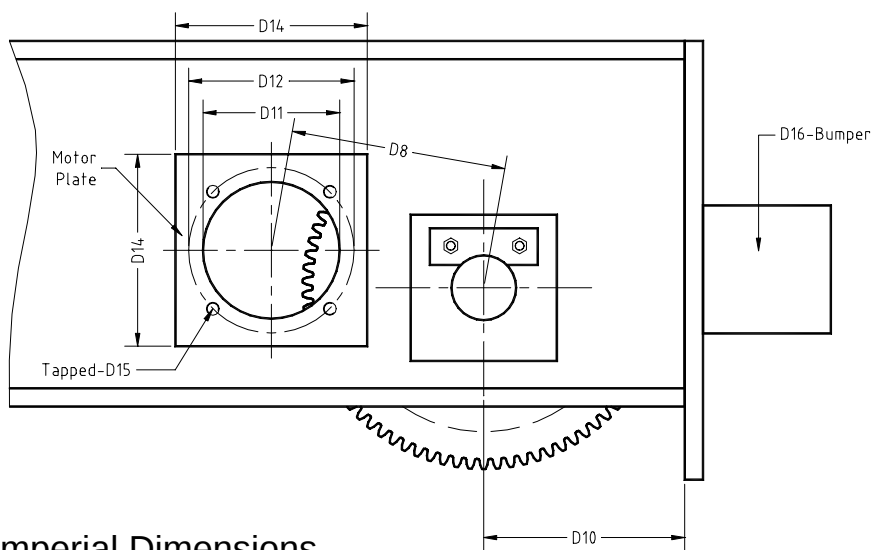
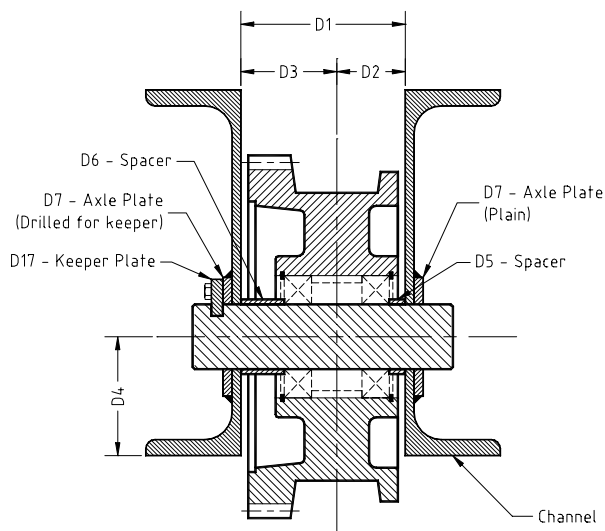
## Pinions



| Model       |    | A    | B    | C    | D    | E<br>(Pitch<br>Dia.) | F<br>Available Bores | No. Of<br>Teeth | Module | Suits Wheel<br>Models                          |
|-------------|----|------|------|------|------|----------------------|----------------------|-----------------|--------|------------------------------------------------|
| <b>M318</b> | mm | 60   | 57   | 38   | 42   | 54                   | --                   | 18              | 3      | SF130, SF200,<br>SF315, DF120,<br>DF200, DF320 |
|             | in | 2.36 | 2.24 | 1.50 | 1.65 | 2.13                 | 0.750, 0.875, 1.000  |                 |        |                                                |
| <b>M325</b> | mm | 81   | 57   | 38   | 50   | 75                   | --                   | 25              | 3      | SF130, SF200,<br>SF315, DF120,<br>DF200, DF320 |
|             | in | 3.19 | 2.24 | 1.50 | 1.97 | 2.95                 | 0.750, 0.875, 1.000  |                 |        |                                                |
| <b>M418</b> | mm | 80   | 100  | 57   | 60   | 72                   | --                   | 18              | 4      | DF500                                          |
|             | in | 3.15 | 3.94 | 2.24 | 2.36 | 2.83                 | 1.000, 1.250         |                 |        |                                                |
| <b>M425</b> | mm | 108  | 100  | 57   | 83   | 100                  | --                   | 25              | 4      | DF500                                          |
|             | in | 4.25 | 3.94 | 2.24 | 3.27 | 3.94                 | 1.000, 1.250         |                 |        |                                                |

## Crane Wheel Setup

### Double Flange Wheels



### Double Flange Wheel Assembly - Imperial Dimensions

| PART NO. | TREAD DIAM. | D1   | D2   | D3   | D4   | PART NO. D5 | PART NO. D6 | PART NO. D7 | 18T PINION D8 | 25T PINION D8 | D10   | PART NO. D16 | PART NO. D17 |
|----------|-------------|------|------|------|------|-------------|-------------|-------------|---------------|---------------|-------|--------------|--------------|
| DF120    | 4.72        | 4.00 | 1.69 | 2.31 | 1.63 | SP1-120     | SP2-120     | AP02        | 4.134         | 4.547         | 6.00  | BP01         | KP01         |
| DF200    | 7.87        | 4.50 | 1.86 | 2.65 | 3.25 | SP1-200     | SP2-200     | AP03        | 5.906         | 6.319         | 6.50  | BP01         | KP01         |
| DF320    | 12.60       | 6.00 | 2.33 | 3.68 | 5.25 | SP1-320     | SP2-320     | AP04        | -             | 9.094         | 9.50  | BP01         | KP01         |
| DF500    | 19.69       | 8.00 | 3.21 | 4.79 | 7.50 | SP1-500     | SP2-500     | AP05        | -             | 9.626         | 15.00 | BP01         | KP01         |

### Double Flange Wheel Assembly - Metric Dimensions

| PART NO. | TREAD DIAM. | D1  | D2 | D3  | D4  | PART NO. D5 | PART NO. D6 | PART NO. D7 | 18T PINION D8 | 25T PINION D8 | D10 | PART NO. D16 | PART NO. D17 |
|----------|-------------|-----|----|-----|-----|-------------|-------------|-------------|---------------|---------------|-----|--------------|--------------|
| DF120    | 120         | 102 | 43 | 59  | 41  | SP1-120     | SP2-120     | AP02        | 105           | 115           | 152 | BP01         | KP01         |
| DF200    | 200         | 114 | 47 | 67  | 83  | SP1-200     | SP2-200     | AP03        | 150           | 161           | 165 | BP01         | KP01         |
| DF320    | 320         | 152 | 59 | 93  | 133 | SP1-320     | SP2-320     | AP04        | -             | 231           | 241 | BP01         | KP01         |
| DF500    | 500         | 203 | 82 | 122 | 191 | SP1-500     | SP2-500     | AP05        | -             | 245           | 381 | BP01         | KP01         |

### Motor Plate - Imperial Dimensions

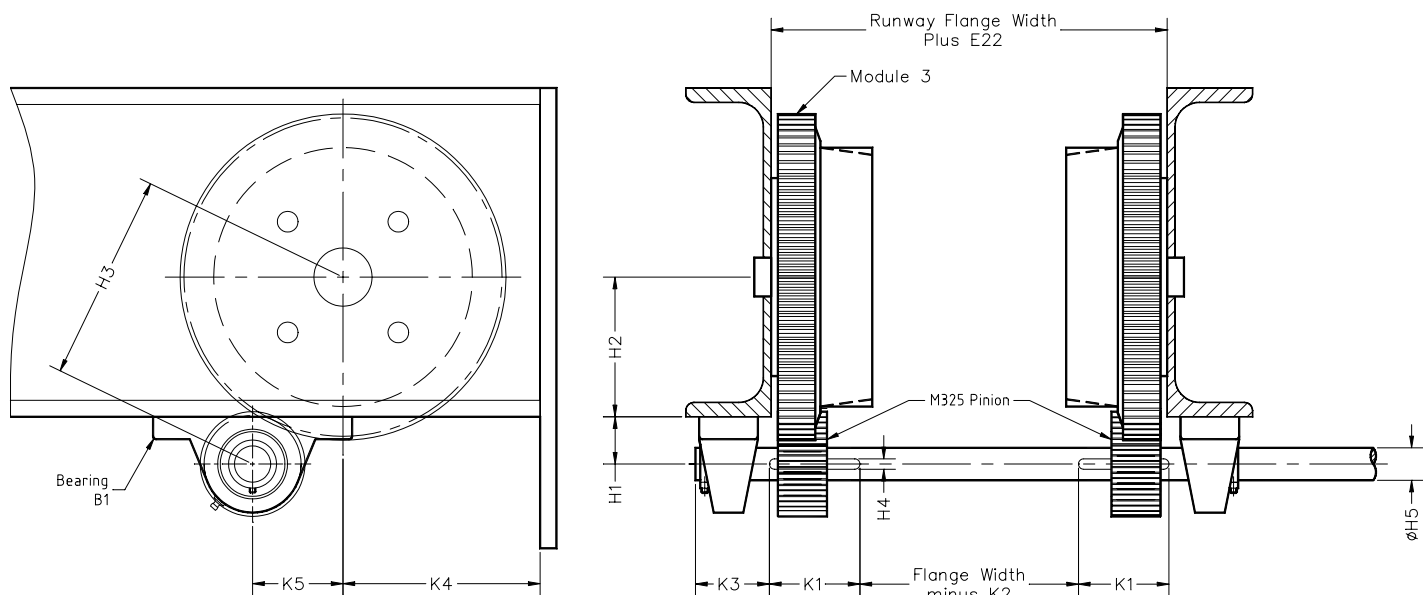
| PART NO. | D11  | D12  | D14  | D15        |
|----------|------|------|------|------------|
| MP140    | 3.74 | 4.53 | 5.50 | 5/16-18UNC |
| MP160    | 4.33 | 5.12 | 6.50 | 3/8-16UNC  |
| MP200    | 5.12 | 6.50 | 8.00 | 3/8-16UNC  |

### Motor Plate - Metric Dimensions

| PART NO. | D11 | D12 | D14 | D15        |
|----------|-----|-----|-----|------------|
| MP140    | 95  | 115 | 140 | 5/16-18UNC |
| MP160    | 110 | 130 | 165 | 3/8-16UNC  |
| MP200    | 130 | 165 | 203 | 3/8-16UNC  |

## Crane Wheel Setup

### Single Flange Wheels



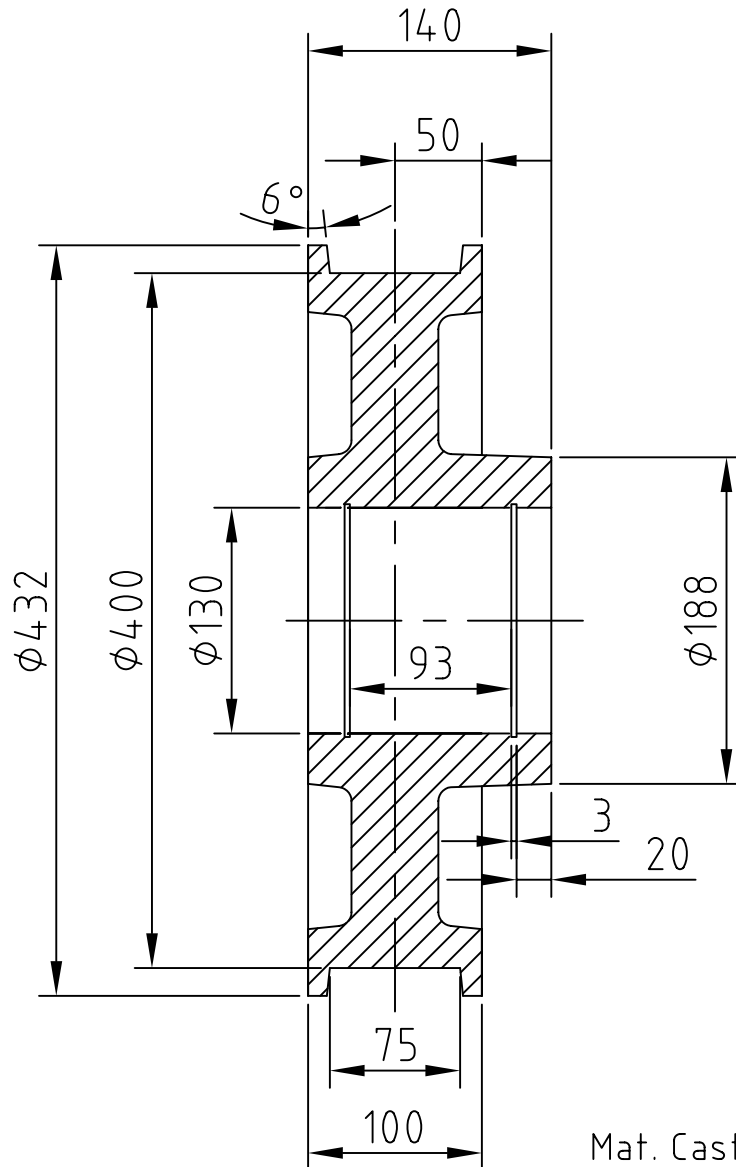
### Single Flange Wheel Assembly - Imperial Dimensions

| WHEEL TYPE | TREAD DIA. | E22  | H1   | H2   | WITH M325 PINION H3 | H4   | H5   | K1   | K2   | K3   | K4  | K5   | PART NO. B1 |
|------------|------------|------|------|------|---------------------|------|------|------|------|------|-----|------|-------------|
| SF130      | 5.12       | 3.25 | 1.44 | 3.00 | 4.55                | 0.25 | 1.00 | 2.75 | 2.15 | 2.75 | 6.0 | 0.99 | UCP205-1    |
| SF200      | 7.87       | 3.25 | 1.44 | 4.25 | 6.32                | 0.25 | 1.00 | 2.75 | 2.15 | 2.75 | 6.0 | 2.75 | UCP205-1    |
| SF315      | 12.40      | 3.25 | 1.44 | 7.50 | 9.09                | 0.25 | 1.00 | 2.75 | 2.15 | 2.75 | 9.0 | 1.68 | UCP205-1    |

### Single Flange Wheel Assembly - Metric Dimensions

| WHEEL TYPE | TREAD DIA. | E22 | H1   | H2    | WITH M325 PINION H3 | H4 | H5 | K1 | K2 | K3 | K4  | K5   | PART NO. B1 |
|------------|------------|-----|------|-------|---------------------|----|----|----|----|----|-----|------|-------------|
| SF130      | 130        | 83  | 36.5 | 76.2  | 115.5               | 8  | 25 | 70 | 55 | 70 | 152 | 25.2 | UCP205-25   |
| SF200      | 200        | 83  | 36.5 | 108.0 | 160.5               | 8  | 25 | 70 | 55 | 70 | 152 | 69.9 | UCP205-25   |
| SF315      | 315        | 83  | 36.5 | 190.5 | 231.0               | 8  | 25 | 70 | 55 | 70 | 229 | 42.7 | UCP205-25   |

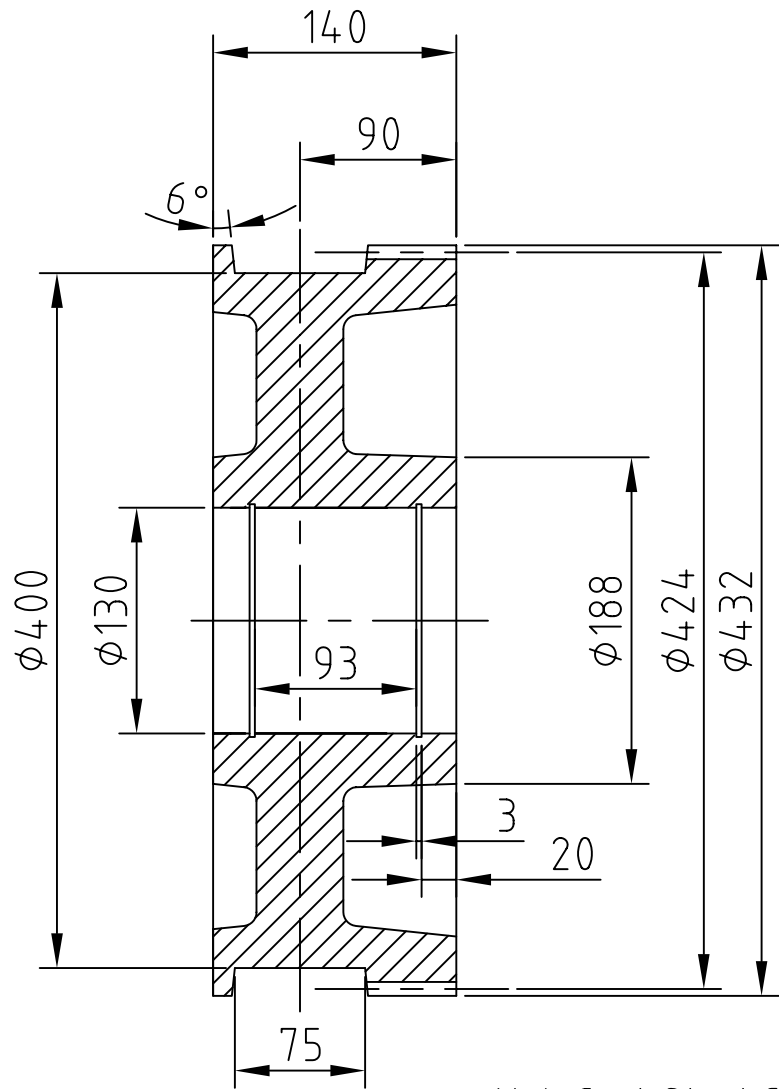
|       |               |      |           |
|-------|---------------|------|-----------|
| 1     | 2             | 3    | 4         |
| RevNo | Revision note | Date | Signature |
|       |               |      | Checked   |



Mat. Cast Steel C1045  
Tread & Flange 275Bhn  
3x 6312 ZZ Bearing  
Axle Shaft  $\phi 60$ mm  
Capacity 11,275 kg [24,861 lbs]

|                                                              |  |                   |                                 |                           |          |                   |              |
|--------------------------------------------------------------|--|-------------------|---------------------------------|---------------------------|----------|-------------------|--------------|
| Dim.                                                         |  |                   |                                 |                           |          |                   |              |
| Tol.                                                         |  |                   |                                 |                           |          |                   |              |
| Material: See above                                          |  |                   | Dimensions in milimeters        |                           |          |                   |              |
| Designed by<br>V. van Lierop                                 |  | Checked by<br>VVL | Approved by - date<br>July 2000 |                           | Filename | Date<br>July 2000 | Scale<br>4:1 |
| Modular Crane Products Inc.<br><br>Oakville, Ontario, Canada |  |                   |                                 | DF400BP Crane Wheel Plain |          |                   |              |
|                                                              |  |                   |                                 | 400 mm Double Flange      |          | Edition<br>1      | Sheet<br>1/1 |

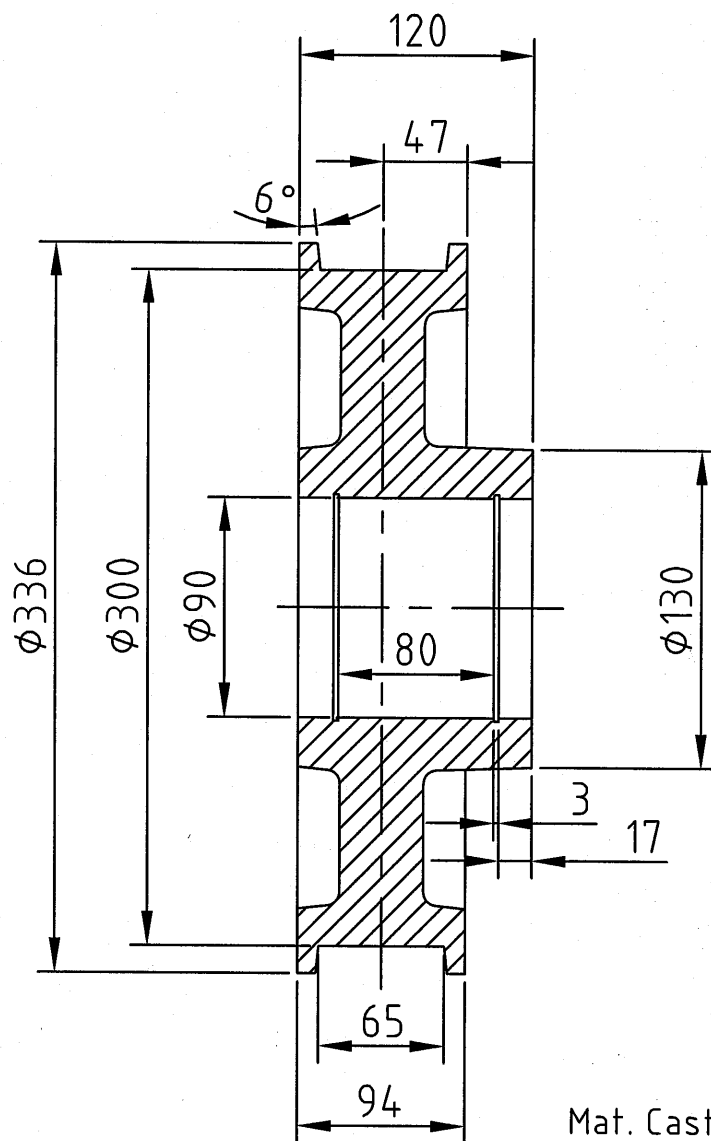
|       |               |      |           |
|-------|---------------|------|-----------|
| 1     | 2             | 3    | 4         |
| RevNo | Revision note | Date | Signature |
|       |               |      | Checked   |



Mat. Cast Steel C1045  
Tread & Flange 275Bhn  
3x 6312 ZZ Bearing  
Module 4 x 106 Teeth  
Axle Shaft  $\phi 60$ mm  
Capacity 11,275 kg [24,861 lbs]

|                                                          |  |                   |                                 |                            |          |                   |              |
|----------------------------------------------------------|--|-------------------|---------------------------------|----------------------------|----------|-------------------|--------------|
| Dim.                                                     |  |                   |                                 |                            |          |                   |              |
| Tol.                                                     |  |                   |                                 |                            |          |                   |              |
| Material: See above                                      |  |                   | Dimensions in milimeters        |                            |          |                   |              |
| Designed by<br>V. van Lierop                             |  | Checked by<br>VVL | Approved by – date<br>July 2000 |                            | Filename | Date<br>July 2000 | Scale<br>4:1 |
| Modular Crane Products Inc.<br>Oakville, Ontario, Canada |  |                   |                                 | DF400BG Crane Wheel Geared |          |                   |              |
|                                                          |  |                   |                                 | 400 mm Double Flange       |          | Edition<br>1      | Sheet<br>1/1 |

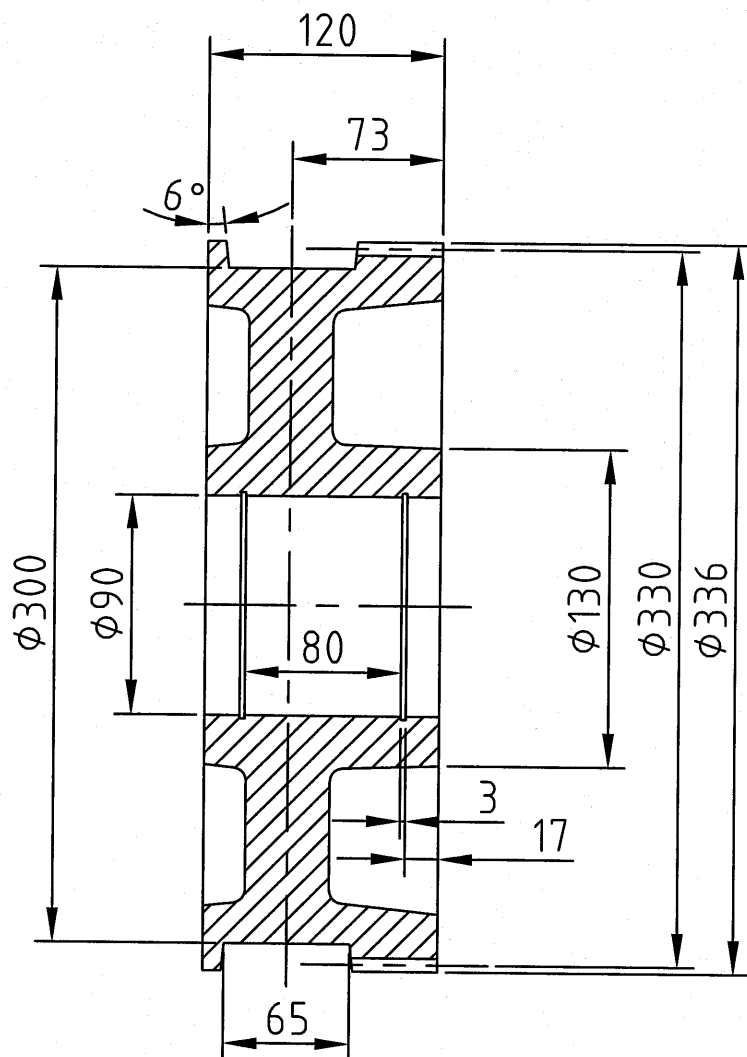
| RevNo | Revision note |  | Date | Signature | Checked |
|-------|---------------|--|------|-----------|---------|
|-------|---------------|--|------|-----------|---------|



Mat. Cast Steel C1045  
Tread & Flange 275Bhn  
3x 6210 ZZ Bearing  
Axle Shaft  $\phi 50\text{mm}$   
Capacity 6,680 kg [14,729 lbs]

|                                                          |  |                   |                                 |                           |          |                   |              |              |
|----------------------------------------------------------|--|-------------------|---------------------------------|---------------------------|----------|-------------------|--------------|--------------|
| Dim.                                                     |  |                   |                                 |                           |          |                   |              |              |
| Tol.                                                     |  |                   |                                 |                           |          |                   |              |              |
| Material: See above                                      |  |                   | Dimensions in milimeters        |                           |          |                   |              |              |
| Designed by<br>V. van Lierop                             |  | Checked by<br>VVL | Approved by - date<br>July 2000 |                           | Filename | Date<br>July 2000 |              | Scale<br>4:1 |
| Modular Crane Products Inc.<br>Oakville, Ontario, Canada |  |                   |                                 | DF300BP Crane Wheel Plain |          |                   |              |              |
|                                                          |  |                   |                                 |                           |          |                   | Edition<br>1 | Sheet<br>1/1 |

|       |               |      |           |
|-------|---------------|------|-----------|
| 1     | 2             | 3    | 4         |
| RevNo | Revision note | Date | Signature |
|       |               |      | Checked   |



Mat. Cast Steel C1045  
 Tread & Flange 275Bhn  
 3x 6210 ZZ Bearing  
 Module 3 x 110 Teeth  
 Axle Shaft Ø50mm  
 Capacity 6,680 kg [14,729 lbs]

|                                                          |  |                   |                                 |                            |  |          |                   |              |              |
|----------------------------------------------------------|--|-------------------|---------------------------------|----------------------------|--|----------|-------------------|--------------|--------------|
| Dim.                                                     |  |                   |                                 |                            |  |          |                   |              |              |
| Tol.                                                     |  |                   |                                 |                            |  |          |                   |              |              |
| Material: See above                                      |  |                   | Dimensions in milimeters        |                            |  |          |                   |              |              |
| Designed by<br>V. van Lierop                             |  | Checked by<br>VVL | Approved by - date<br>July 2000 |                            |  | Filename | Date<br>July 2000 |              | Scale<br>4:1 |
| Modular Crane Products Inc.<br>Oakville, Ontario, Canada |  |                   |                                 | DF300BG Crane Wheel Geared |  |          |                   |              |              |
|                                                          |  |                   |                                 |                            |  |          |                   | Edition<br>1 | Sheet<br>1/1 |