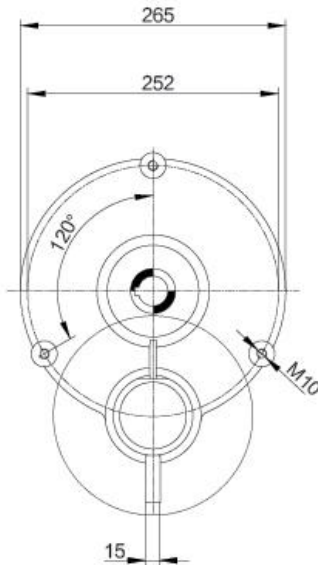


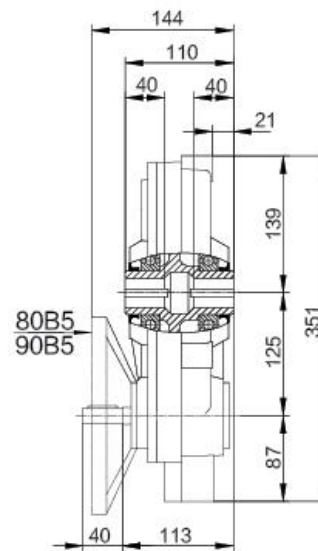
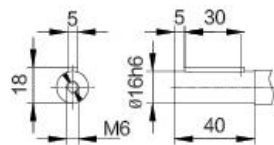
# CMR 30

180NM

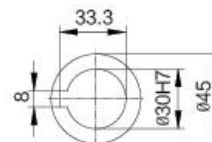
|  | i<br>Ratio | n <sub>1</sub> =1400 rpm |                    |                    |                   | n <sub>1</sub> =900 rpm |                    |                    |                   | n <sub>1</sub> =500 rpm |                    |                    |                   |
|-----------------------------------------------------------------------------------|------------|--------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|
|                                                                                   |            | n <sub>2</sub> rpm       | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N |
| CMR 30 S                                                                          | 7.2        | 194                      | 137                | 2.9                | 350               | 125                     | 150                | 2.0                | 400               | 69                      | 180                | 1.3                | 500               |
|                                                                                   | 10         | 140                      | 137                | 2.1                | 350               | 90                      | 150                | 1.4                | 400               | 50                      | 180                | 1.0                | 500               |
|                                                                                   | 12.7       | 110                      | 137                | 1.6                | 350               | 71                      | 150                | 1.1                | 400               | 39                      | 180                | 0.8                | 500               |



INPUT SHAFT

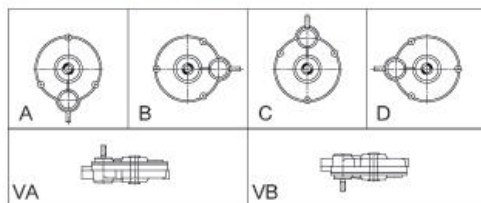


OUTPUT HUB



|     | ⊕  | ⊗  | ⊖   |
|-----|----|----|-----|
| 30S | 30 | 17 | 0.5 |

MOUNTING POSITION



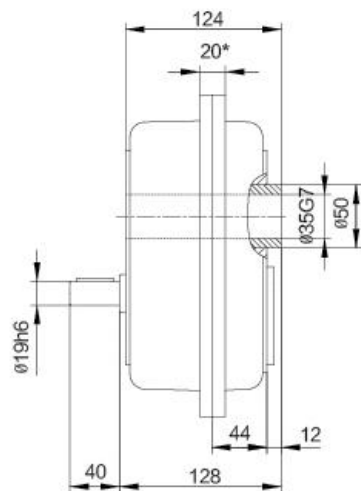
- ⊕ Output Hub
- ⊖ Lubricant for "A" Position ( Liter )
- ⊗ Reducer Weight Without Torque Arm(Kg)
- ⊖ Single Reduction Reducer
- ⊗ Double Reduction Reducer
- \* Unmachined Surfaces

# CMR 35

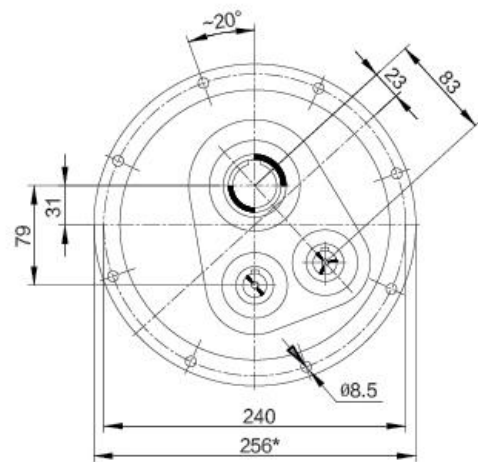
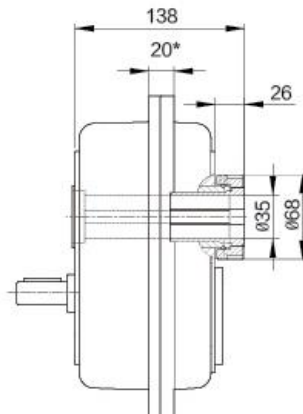
420NM

|          | i<br>Ratio | n <sub>1</sub> =1400 rpm |                    |                    |                   | n <sub>1</sub> =900 rpm |                    |                    |                   | n <sub>1</sub> =500 rpm |                    |                    |                   |
|----------|------------|--------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|
|          |            | n <sub>2</sub> rpm       | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N |
| CMR 35 S | 5          | 280                      | 200                | 6.0                | 700               | 180                     | 250                | 4.8                | 800               | 100                     | 350                | 3.8                | 1000              |
| CMR 35 D | 10         | 140                      | 300                | 4.6                | 500               | 90                      | 350                | 3.5                | 600               | 50                      | 400                | 2.2                | 750               |
|          | 15         | 93                       | 350                | 3.6                | 500               | 60                      | 400                | 2.6                | 600               | 33                      | 400                | 1.5                | 750               |
|          | 19.5       | 72                       | 380                | 3.0                | 500               | 46                      | 400                | 2.0                | 600               | 25.6                    | 400                | 1.1                | 750               |
|          | 25         | 56                       | 400                | 2.5                | 500               | 36                      | 400                | 1.6                | 600               | 20.0                    | 420                | 0.92               | 750               |

## Straight Bore



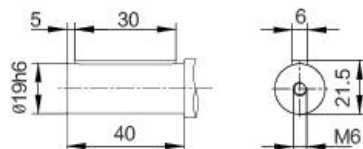
## Screw Taper Bushing



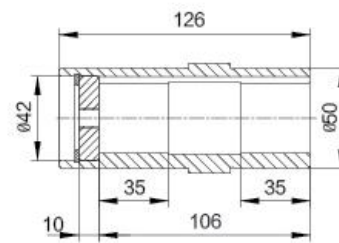
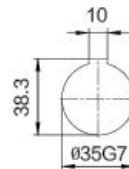
## INPUT SHAFT



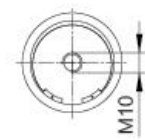
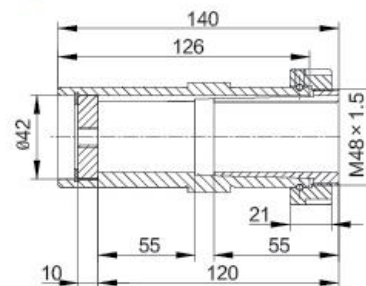
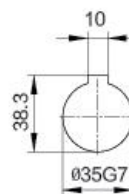
Single & Double Reduction  
Same Dimension of Input Shaft



## Straight Bore



## Screw Taper Bushing



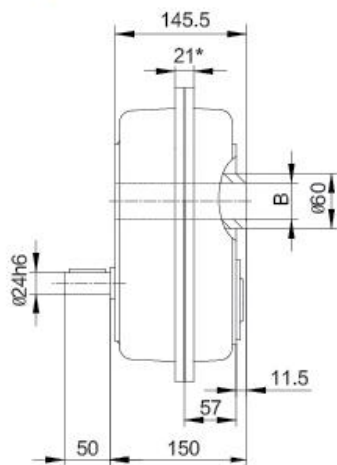
|      | ⊕  | ⊗  | ⊕   | ⊗ |
|------|----|----|-----|---|
| 35 S | 35 | 16 | 1.2 |   |
| 35 D | 35 | 18 | 1.1 |   |

# CMR 40

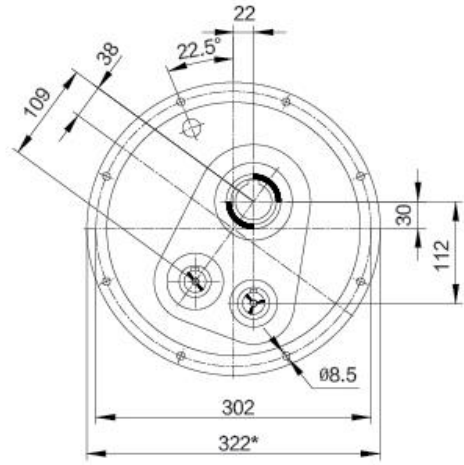
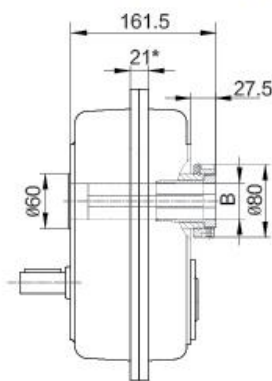
950NM

|          | i<br>Ratio | n <sub>1</sub> =1400 rpm |                    |                    |                   | n <sub>1</sub> =900 rpm |                    |                    |                   | n <sub>1</sub> =500 rpm |                    |                    |                   |
|----------|------------|--------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|
|          |            | n <sub>2</sub> rpm       | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N |
| CMR 40 S | 5          | 280                      | 480                | 14.4               | 1000              | 180                     | 550                | 10.6               | 1200              | 100                     | 700                | 7.5                | 1500              |
| CMR 40 D | 10         | 140                      | 600                | 9.2                | 850               | 90                      | 750                | 7.4                | 950               | 50                      | 800                | 4.4                | 1200              |
|          | 13.3       | 105                      | 700                | 8.1                | 850               | 68                      | 780                | 5.8                | 950               | 38                      | 820                | 3.4                | 1200              |
|          | 15         | 93                       | 750                | 7.7                | 850               | 60                      | 800                | 5.3                | 950               | 33                      | 850                | 3.1                | 1200              |
|          | 19.7       | 71                       | 780                | 6.1                | 850               | 46                      | 800                | 4.0                | 950               | 25.4                    | 850                | 2.4                | 1200              |
|          | 25         | 56                       | 800                | 4.9                | 850               | 36                      | 850                | 3.4                | 950               | 20.0                    | 900                | 2.0                | 1200              |
|          | 33.2       | 42                       | 800                | 3.7                | 850               | 27.1                    | 900                | 2.7                | 950               | 15.1                    | 950                | 1.6                | 1200              |

## Straight Bore

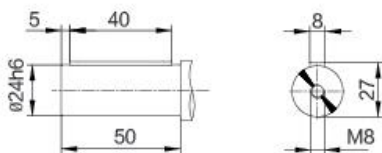


## Screw Taper Bushing

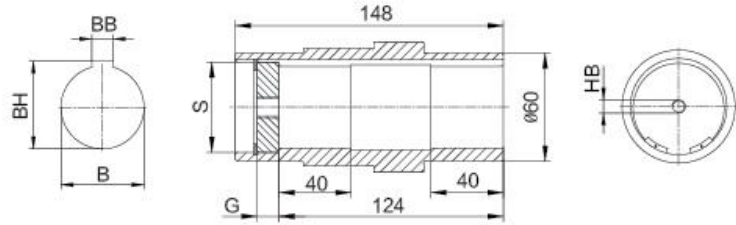


## INPUT SHAFT

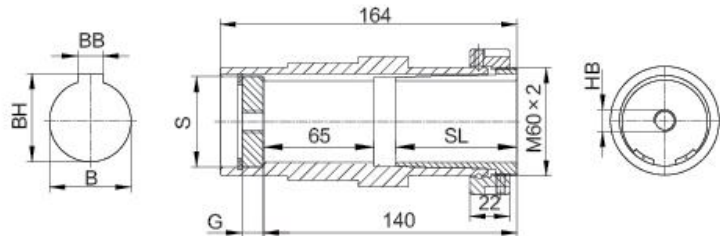
Single & Double Reduction  
Same Dimension of Input Shaft



## Straight Bore



## Screw Taper Bushing



|      | ⊕  | ⊖  | ⊕   | ⊖ |
|------|----|----|-----|---|
| 40 S | 40 | 27 | 2.1 |   |
| 45   | 27 |    |     |   |
| 40 D | 40 | 33 | 1.8 |   |
| 45   | 33 |    |     |   |

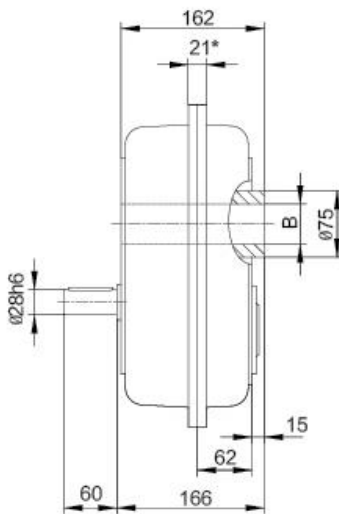
| ⊕     | B  | BB   | BH | G   | HB | S  | SL |
|-------|----|------|----|-----|----|----|----|
| 40 G7 | 12 | 43.3 | 12 | M12 | 50 | 60 |    |
| 45 G7 | 14 | 48.8 | 12 | M12 | 50 | 70 |    |

## CMR 45

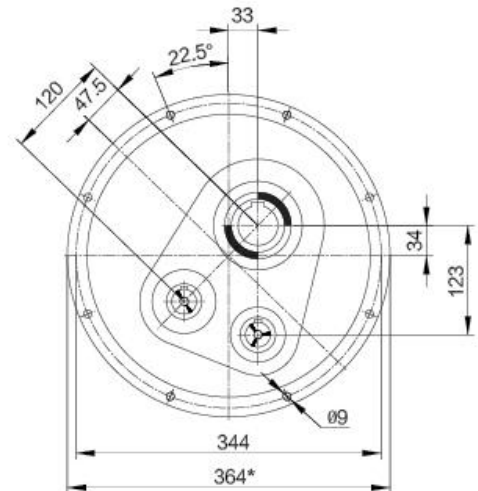
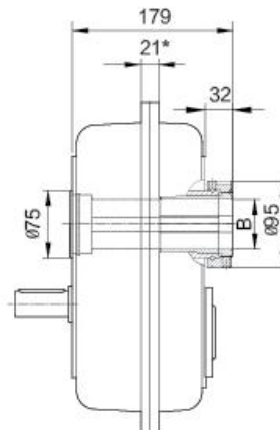
1400NM

|  | i<br>Ratio | n <sub>1</sub> =1400 rpm |                    |                    |                   | n <sub>1</sub> =900 rpm |                    |                    |                   | n <sub>1</sub> =500 rpm |                    |                    |                   |
|-----------------------------------------------------------------------------------|------------|--------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|
|                                                                                   |            | n <sub>2</sub> rpm       | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N |
| CMR 45 S                                                                          | 5          | 280                      | 850                | 26                 | 1500              | 180                     | 950                | 18.4               | 1700              | 100                     | 1100               | 11.8               | 2150              |
| CMR 45 D                                                                          | 10         | 140                      | 1000               | 15.4               | 1150              | 90                      | 1200               | 11.9               | 1300              | 50                      | 1300               | 7.2                | 1650              |
|                                                                                   | 12.2       | 115                      | 1100               | 13.9               | 1150              | 74                      | 1200               | 9.7                | 1300              | 41                      | 1300               | 5.9                | 1650              |
|                                                                                   | 15         | 93                       | 1200               | 12.3               | 1150              | 60                      | 1250               | 8.3                | 1300              | 33                      | 1300               | 4.8                | 1650              |
|                                                                                   | 19.7       | 71                       | 1250               | 9.8                | 1150              | 46                      | 1300               | 6.5                | 1300              | 25.4                    | 1350               | 3.8                | 1650              |
|                                                                                   | 25         | 56                       | 1300               | 8.0                | 1150              | 36                      | 1350               | 5.4                | 1300              | 20.0                    | 1400               | 3.1                | 1650              |
|                                                                                   | 30.4       | 46                       | 1300               | 6.6                | 1150              | 29.6                    | 1350               | 4.4                | 1300              | 16.4                    | 1400               | 2.5                | 1650              |

### Straight Bore

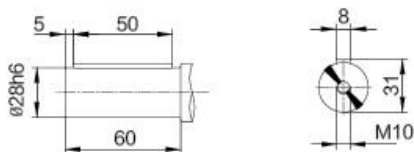


## Screw Taper Bushing

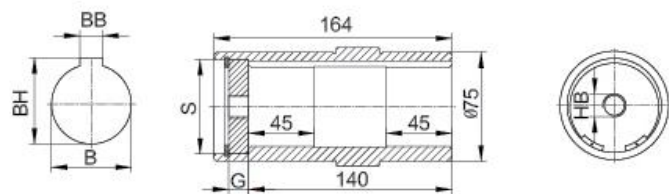


INPUT SHAFT 

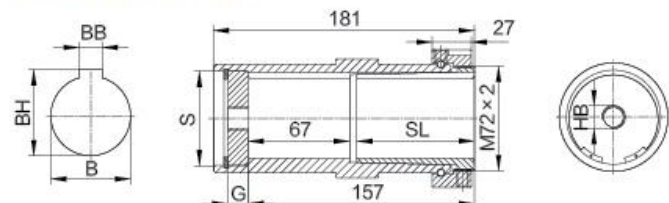
Single & Double Reduction  
Same Dimension of Input Shaft



### Straight Bore



### Screw Taper Bushing



|                                                                                          |  |  |  |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  45 S | 45                                                                                  | 40                                                                                  | 3.1                                                                                 |
|                                                                                          | 50                                                                                  | 40                                                                                  |                                                                                     |
|                                                                                          | 55                                                                                  | 39                                                                                  |                                                                                     |
|  45 D | 45                                                                                  | 43                                                                                  | 3.6                                                                                 |
|                                                                                          | 50                                                                                  | 43                                                                                  |                                                                                     |
|                                                                                          | 55                                                                                  | 42                                                                                  |                                                                                     |

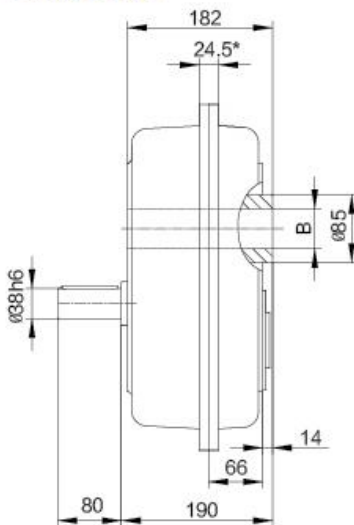
|  B | BB | BH   | G  | HB  | S  | SL |
|---------------------------------------------------------------------------------------|----|------|----|-----|----|----|
| 45 G7                                                                                 | 14 | 48.8 | 14 | M16 | 60 | 70 |
| 50 G7                                                                                 | 14 | 53.8 | 14 | M16 | 60 | 75 |
| 55 G7                                                                                 | 16 | 59.3 | 14 | M16 | 65 | 80 |

# CMR 50

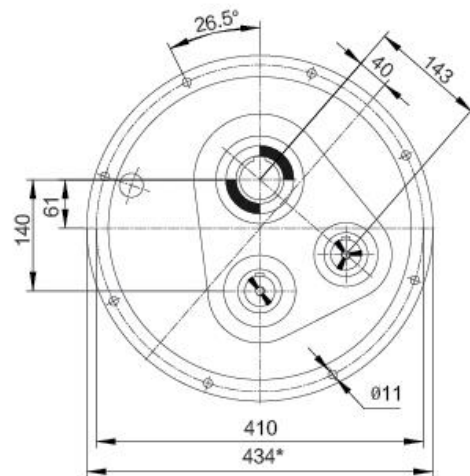
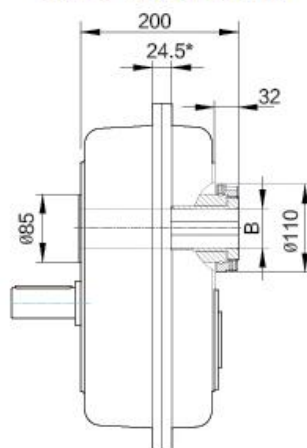
2300NM

|          | i<br>Ratio | n <sub>1</sub> =1400 rpm |                    |                    |                   | n <sub>1</sub> =900 rpm |                    |                    |                   | n <sub>1</sub> =500 rpm |                    |                    |                   |
|----------|------------|--------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|
|          |            | n <sub>2</sub> rpm       | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N |
| CMR 50 S | 5          | 280                      | 1400               | 42                 | 2250              | 180                     | 1700               | 33                 | 2500              | 100                     | 1900               | 20                 | 3100              |
| CMR 50 D | 10         | 140                      | 1750               | 27                 | 1700              | 90                      | 1900               | 18.8               | 1900              | 50                      | 2000               | 11.0               | 2400              |
|          | 12         | 117                      | 1800               | 23                 | 1700              | 75                      | 1900               | 15.7               | 1900              | 42                      | 2000               | 9.2                | 2400              |
|          | 15         | 93                       | 1900               | 19.5               | 1700              | 60                      | 1950               | 12.9               | 1900              | 33                      | 2100               | 7.7                | 2400              |
|          | 20.3       | 69                       | 1950               | 14.8               | 1700              | 44                      | 2000               | 9.8                | 1900              | 24.6                    | 2100               | 5.7                | 2400              |
|          | 25         | 56                       | 2000               | 12.3               | 1700              | 36                      | 2100               | 8.3                | 1900              | 20.0                    | 2300               | 5.1                | 2400              |
|          | 30         | 47                       | 2000               | 10.3               | 1700              | 30                      | 2100               | 6.9                | 1900              | 16.7                    | 2300               | 4.2                | 2400              |

## Straight Bore

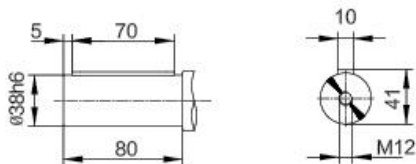


## Screw Taper Bushing

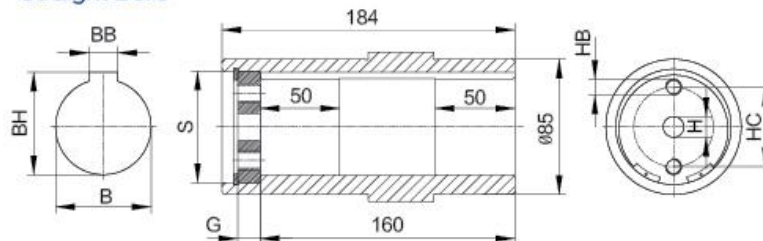


## INPUT SHAFT

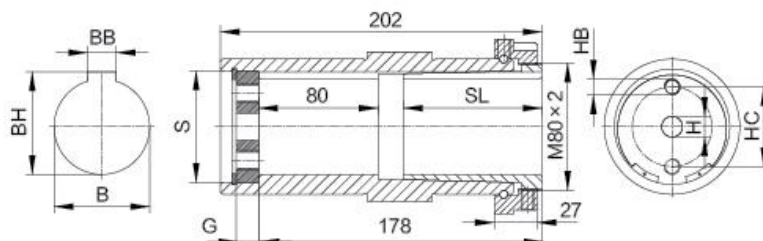
Single & Double Reduction  
Same Dimension of Input Shaft



## Straight Bore



## Screw Taper Bushing



|      | 50 | 54 |     |
|------|----|----|-----|
| 50 S | 55 | 54 | 8.0 |
|      | 60 | 54 |     |
| 50 D | 50 | 58 | 7.3 |
|      | 55 | 58 |     |
|      | 60 | 58 |     |

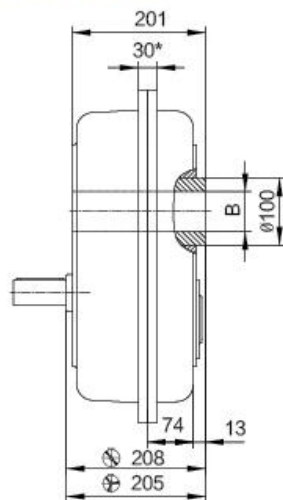
| B     | BB | BH   | G  | H   | HB | HC | S  | SL |
|-------|----|------|----|-----|----|----|----|----|
| 50 G7 | 14 | 53.8 | 14 | M16 | -  | -  | 60 | 75 |
| 55 G7 | 16 | 59.3 | 14 | M16 | -  | -  | 65 | 80 |
| 60 G7 | 18 | 64.4 | 14 | M12 | 42 | 70 | 90 |    |

# CMR 60

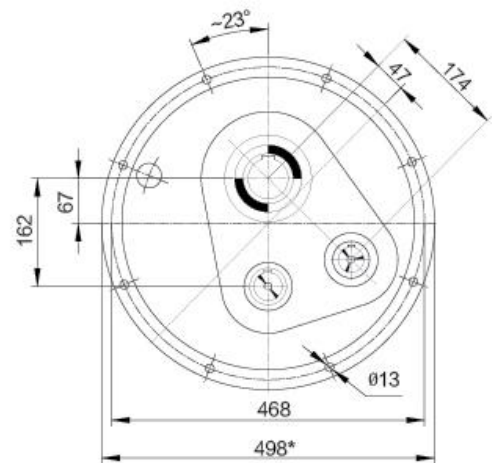
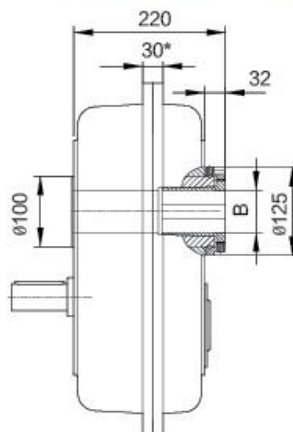
3600NM

|          | i<br>Ratio | n <sub>1</sub> =1400 rpm |                    |                    |                   | n <sub>1</sub> =900 rpm |                    |                    |                   | n <sub>1</sub> =500 rpm |                    |                    |                   |
|----------|------------|--------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|
|          |            | n <sub>2</sub> rpm       | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N |
| CMR 60 S | 5          | 280                      | 1900               | 57                 | 3200              | 180                     | 2100               | 41                 | 3600              | 100                     | 2900               | 32                 | 4500              |
| CMR 60 D | 10         | 140                      | 3100               | 48                 | 2600              | 90                      | 3200               | 32                 | 2900              | 50                      | 3300               | 18.2               | 3600              |
|          | 12.2       | 115                      | 3100               | 39                 | 2600              | 74                      | 3200               | 26                 | 2900              | 41                      | 3300               | 14.9               | 3600              |
|          | 15         | 93                       | 3200               | 33                 | 2600              | 60                      | 3300               | 22                 | 2900              | 33                      | 3550               | 13.0               | 3600              |
|          | 20.3       | 69                       | 3250               | 25                 | 2600              | 44                      | 3400               | 16.6               | 2900              | 24.6                    | 3550               | 9.6                | 3600              |
|          | 25         | 56                       | 3300               | 20                 | 2600              | 36                      | 3500               | 13.9               | 2900              | 20.0                    | 3600               | 7.9                | 3600              |
|          | 30.4       | 46                       | 3300               | 16.7               | 2600              | 29.6                    | 3500               | 11.4               | 2900              | 16.4                    | 3600               | 6.5                | 3600              |

## Straight Bore

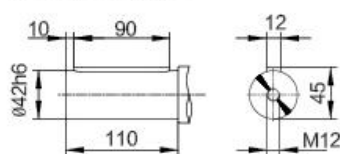


## Screw Taper Bushing

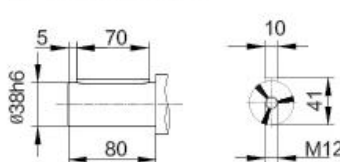


## INPUT SHAFT

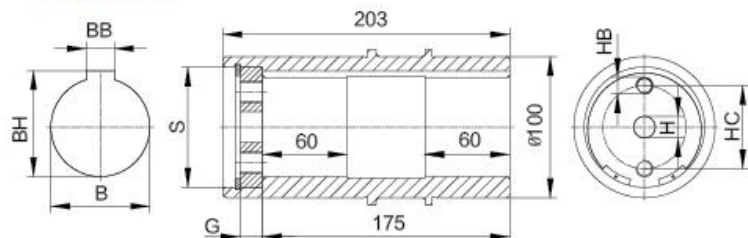
### Single Reduction



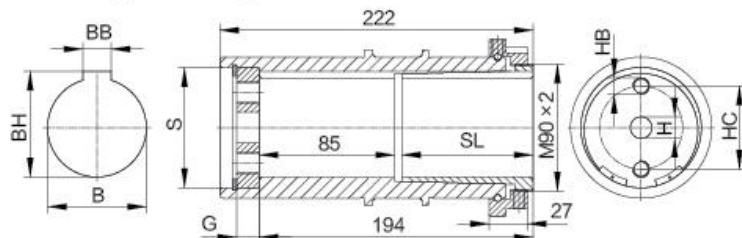
### Double Reduction



## Straight Bore



## Screw Taper Bushing



|      | 60 S | 60 D | 7.5 |
|------|------|------|-----|
| 60 S | 60   | 80   | 7.5 |
| 60 D | 60   | 94   | 10  |

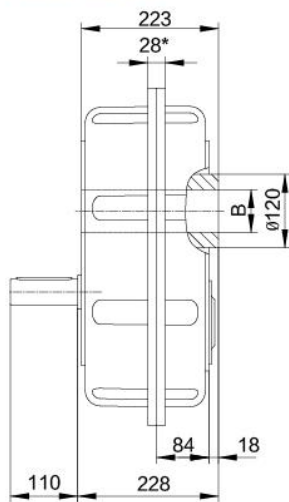
| B     | BB | BH   | G  | H  | HB  | HC | S  | SL  |
|-------|----|------|----|----|-----|----|----|-----|
| 60 G7 | 18 | 64.4 | 14 | 17 | M12 | 42 | 70 | 90  |
| 70 G7 | 20 | 74.9 | 16 | 22 | M16 | 50 | 85 | 100 |

# CMR 70

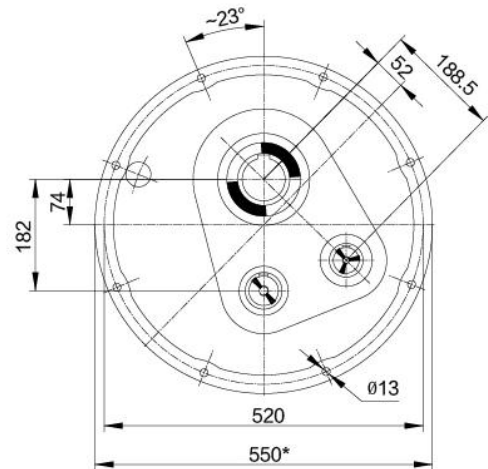
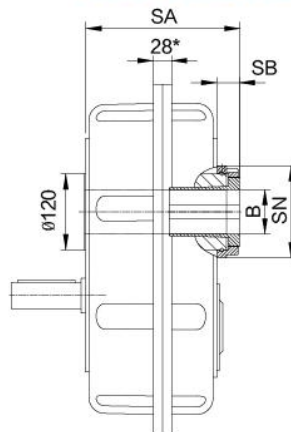
5100NM

|          | i<br>Ratio | n <sub>1</sub> =1400 rpm |                    |                    |                   | n <sub>1</sub> =900 rpm |                    |                    |                   | n <sub>1</sub> =500 rpm |                    |                    |                   |
|----------|------------|--------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|
|          |            | n <sub>2</sub> rpm       | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N |
| CMR 70 S | 5          | 280                      | 2600               | 78                 | 3700              | 180                     | 3000               | 58                 | 4200              | 100                     | 4000               | 43                 | 5200              |
| CMR 70 D | 10         | 140                      | 3800               | 59                 | 3400              | 90                      | 4400               | 44                 | 3800              | 50                      | 4500               | 25                 | 4750              |
|          | 12.2       | 115                      | 4000               | 51                 | 3400              | 74                      | 4400               | 36                 | 3800              | 41                      | 4500               | 20.0               | 4750              |
|          | 15         | 93                       | 4400               | 45                 | 3400              | 60                      | 4500               | 30                 | 3800              | 33                      | 4900               | 18.0               | 4750              |
|          | 20.3       | 69                       | 4500               | 34                 | 3400              | 44                      | 4600               | 22                 | 3800              | 24.6                    | 5000               | 13.6               | 4750              |
|          | 25         | 56                       | 4600               | 28                 | 3400              | 36                      | 4900               | 19.4               | 3800              | 20.0                    | 5100               | 11.2               | 4750              |
|          | 30.4       | 46                       | 4600               | 23                 | 3400              | 29.6                    | 4900               | 16.0               | 3800              | 16.4                    | 5100               | 9.2                | 4750              |

## Straight Bore

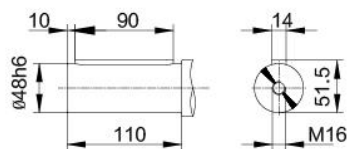


## Screw Taper Bushing

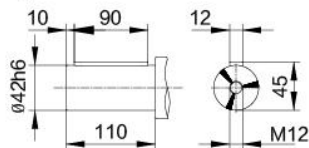


## INPUT SHAFT

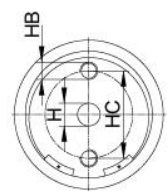
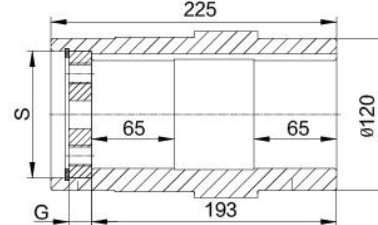
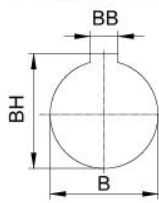
Single Reduction



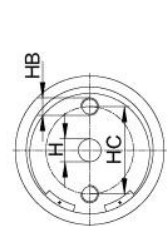
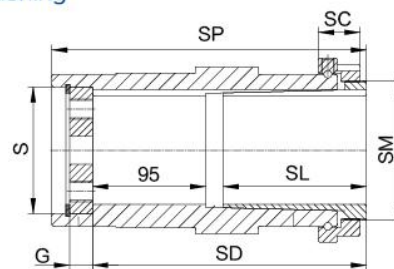
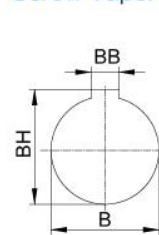
Double Reduction



## Straight Bore



## Screw Taper Bushing



|      | 70 | 108 |    |
|------|----|-----|----|
| 70 S | 85 | 106 | 11 |
|      | 90 | 106 |    |
| 70 D | 70 | 121 | 14 |
|      | 85 | 119 |    |
|      | 90 | 119 |    |

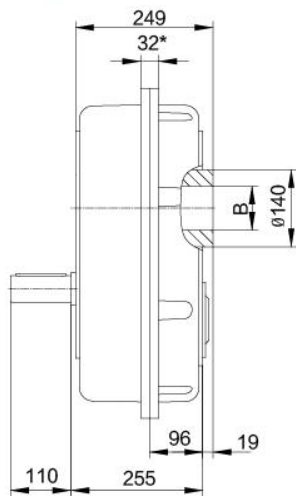
| ⊕     | B  | BB   | BH | G  | H   | HB | HC  | S   | SA | SB | SC  | SD  | SL     | SM  | SN  | SP |
|-------|----|------|----|----|-----|----|-----|-----|----|----|-----|-----|--------|-----|-----|----|
| 70 G7 | 20 | 74.9 | 16 | 22 | M16 | 50 | 85  | 242 | 35 | 27 | 212 | 100 | M90*2  | 125 | 244 |    |
| 85 G7 | 22 | 90.4 | 18 | 22 | M16 | 65 | 100 | 246 | 39 | 33 | 216 | 110 | M110*2 | 145 | 248 |    |
| 90 G7 | 25 | 95.4 | 18 | 22 | M16 | 65 | 100 | 246 | 39 | 33 | 216 | 110 | M110*2 | 145 | 248 |    |

# CMR 80

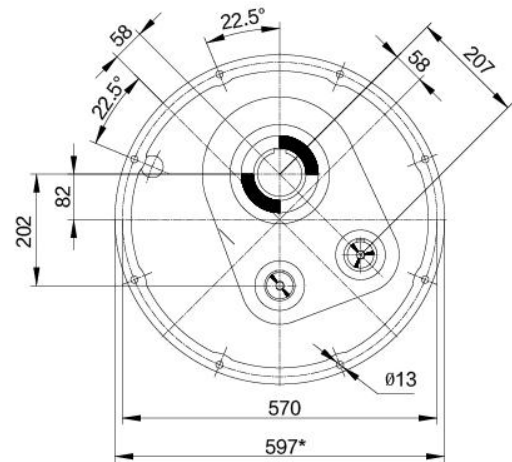
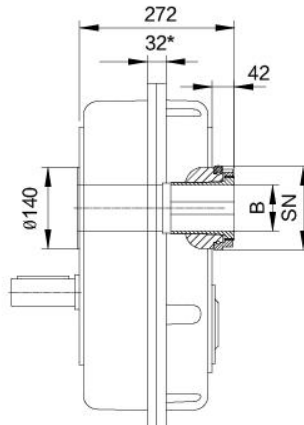
7000NM

|          | i<br>Ratio | n <sub>1</sub> =1400 rpm |                    |                    |                   | n <sub>1</sub> =900 rpm |                    |                    |                   | n <sub>1</sub> =500 rpm |                    |                    |                   |
|----------|------------|--------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|
|          |            | n <sub>2</sub> rpm       | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N |
| CMR 80 S | 5          | 280                      | 3700               | 111                | 4550              | 180                     | 4200               | 81                 | 5100              | 100                     | 5000               | 54                 | 6400              |
| CMR 80 D | 10         | 140                      | 5500               | 85                 | 4200              | 90                      | 6100               | 60                 | 4700              | 50                      | 6300               | 35                 | 5900              |
|          | 12.5       | 112                      | 5500               | 68                 | 4200              | 72                      | 6100               | 48                 | 4700              | 40                      | 6300               | 28                 | 5900              |
|          | 15         | 93                       | 6100               | 63                 | 4200              | 60                      | 6300               | 42                 | 4700              | 33                      | 6600               | 24                 | 5900              |
|          | 20.3       | 69                       | 6100               | 46                 | 4200              | 44                      | 6300               | 31                 | 4700              | 24.6                    | 6600               | 17.9               | 5900              |
|          | 25         | 56                       | 6300               | 39                 | 4200              | 36                      | 6600               | 26                 | 4700              | 20.0                    | 7000               | 15.4               | 5900              |
|          | 31.3       | 45                       | 6300               | 31                 | 4200              | 28.8                    | 6600               | 21                 | 4700              | 16.0                    | 7000               | 12.3               | 5900              |

## Straight Bore

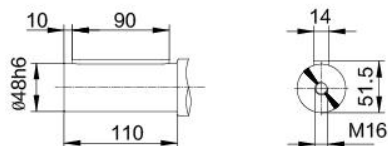


## Screw Taper Bushing

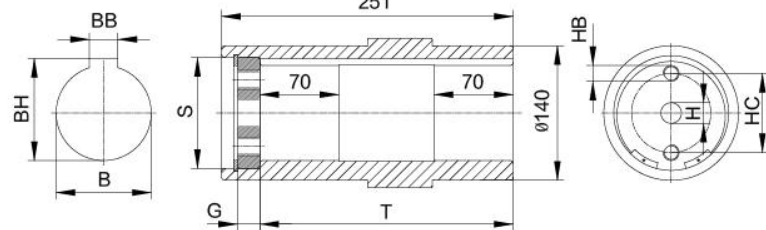


## INPUT SHAFT

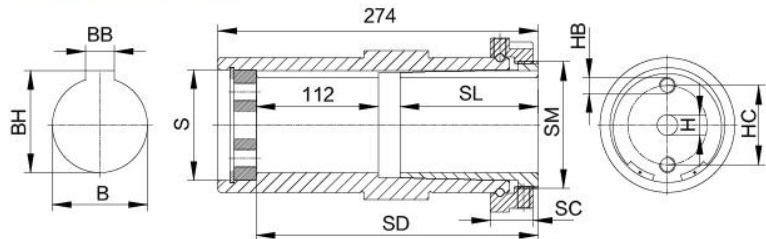
Single & Double Reduction  
Same Dimension of Input Shaft



## Straight Bore



## Screw Taper Bushing



|      | ⊕   | kg  | T  |
|------|-----|-----|----|
| 80 S | 80  | 145 | 17 |
|      | 90  | 143 |    |
|      | 100 | 143 |    |
| 80 D | 80  | 160 | 11 |
|      | 90  | 143 |    |
|      | 100 | 143 |    |

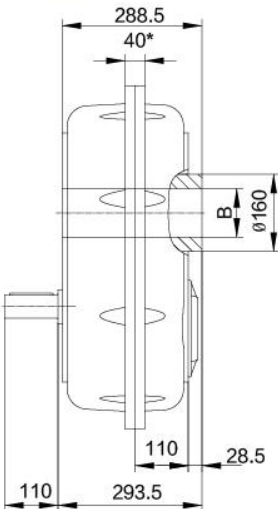
|  | B  | BB    | BH | G  | H   | HB | HC  | S   | T  | SC  | SD  | SL     | SM  | SN |
|-------------------------------------------------------------------------------------|----|-------|----|----|-----|----|-----|-----|----|-----|-----|--------|-----|----|
| 80 G7                                                                               | 22 | 85.4  | 18 | 22 | M16 | 60 | 95  | 219 | 33 | 242 | 100 | M110*2 | 145 |    |
| 90 G7                                                                               | 25 | 95.4  | 18 | 22 | M16 | 65 | 100 | 219 | 33 | 242 | 110 | M110*2 | 145 |    |
| 100 G7                                                                              | 28 | 106.4 | 20 | 26 | M20 | 80 | 120 | 217 | 35 | 240 | 120 | M130*2 | 170 |    |

# CMR 100

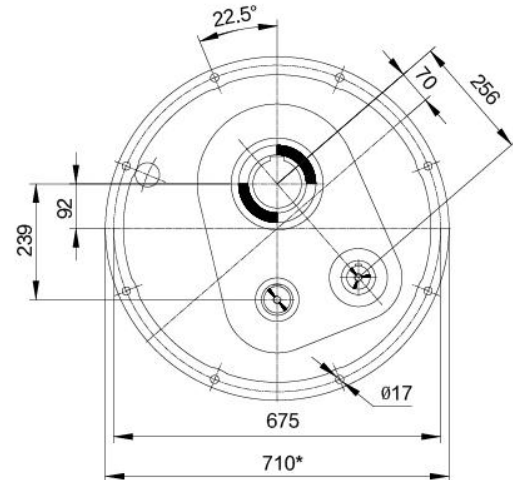
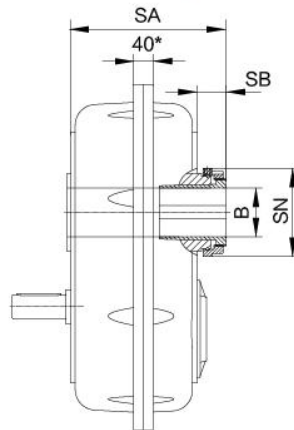
11000NM

|           | i<br>Ratio | n <sub>1</sub> =1400 rpm |                    |                    |                   | n <sub>1</sub> =900 rpm |                    |                    |                   | n <sub>1</sub> =500 rpm |                    |                    |                   |
|-----------|------------|--------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|
|           |            | n <sub>2</sub> rpm       | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N |
| CMR 100 S | 5          | 280                      | 5500               | 165                | 5500              | 180                     | 6200               | 120                | 6200              | 100                     | 7000               | 75                 | 7900              |
| CMR 100 D | 10         | 140                      | 9000               | 139                | 5000              | 90                      | 9500               | 94                 | 5600              | 50                      | 10000              | 55                 | 6800              |
|           | 12.3       | 114                      | 9000               | 113                | 5000              | 73                      | 9500               | 77                 | 5600              | 41                      | 10000              | 45                 | 6800              |
|           | 15         | 93                       | 9500               | 98                 | 5000              | 60                      | 10000              | 66                 | 5600              | 33                      | 10500              | 39                 | 6800              |
|           | 20.3       | 69                       | 9500               | 72                 | 5000              | 44                      | 10000              | 49                 | 5600              | 24.6                    | 10500              | 28                 | 6800              |
|           | 25         | 56                       | 9800               | 60                 | 5000              | 36                      | 10500              | 42                 | 5600              | 20.0                    | 11000              | 24                 | 6800              |
|           | 30.8       | 45                       | 9800               | 49                 | 5000              | 29.2                    | 10500              | 34                 | 5600              | 16.2                    | 11000              | 19.7               | 6800              |

## Straight Bore

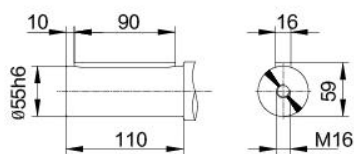


## Screw Taper Bushing

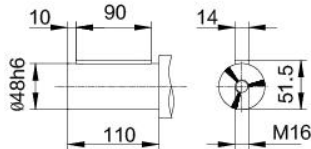


## INPUT SHAFT

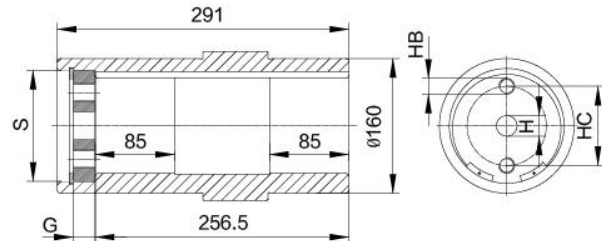
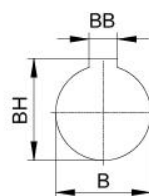
### Single Reduction



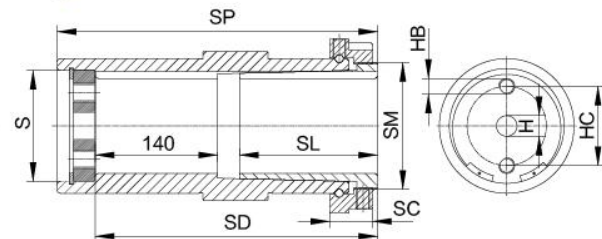
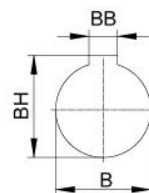
### Double Reduction



## Straight Bore



## Screw Taper Bushing



|       | ⊕       | kg | mm |
|-------|---------|----|----|
| 100 S | 100 250 | 20 |    |
|       | 125 248 |    |    |
| 100 D | 100 270 | 18 |    |
|       | 125 268 |    |    |

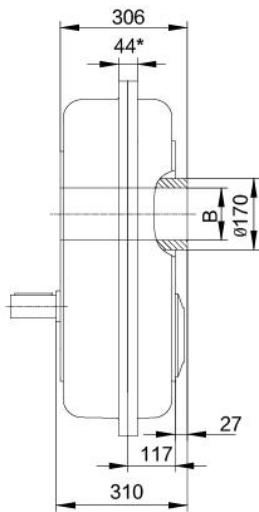
| ⊕      | B  | BB    | BH | G  | H   | HB  | HC  | S     | SA   | SB | SC    | SD  | SL     | SM  | SN  | SP |
|--------|----|-------|----|----|-----|-----|-----|-------|------|----|-------|-----|--------|-----|-----|----|
| 100 G7 | 28 | 106.4 | 20 | 26 | M20 | 80  | 120 | 311.5 | 51.5 | 35 | 279.5 | 120 | M130*2 | 170 | 314 |    |
| 125 G7 | 32 | 132.4 | 20 | 26 | M20 | 100 | 145 | 316.5 | 56.5 | 45 | 284.5 | 135 | M160*3 | 195 | 319 |    |

## CMR 125

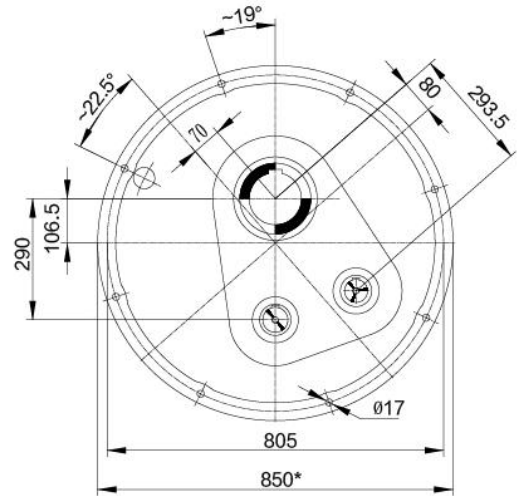
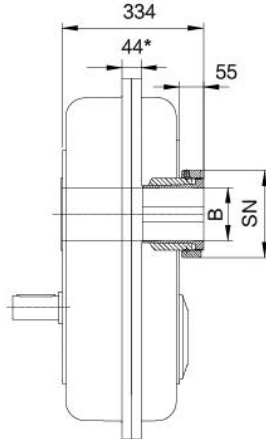
17000NM

|  | i<br>Ratio | n <sub>1</sub> =1400 rpm |                    |                    |                   | n <sub>1</sub> =900 rpm |                    |                    |                   | n <sub>1</sub> =500 rpm |                    |                    |                   |
|-----------------------------------------------------------------------------------|------------|--------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|-------------------------|--------------------|--------------------|-------------------|
|                                                                                   |            | n <sub>2</sub> rpm       | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N | n <sub>2</sub> rpm      | Mn <sub>2</sub> Nm | Pn <sub>1</sub> kW | Rn <sub>1</sub> N |
| CMR 125 S                                                                         | 5          | 280                      | 7500               | 226                | 6500              | 180                     | 8000               | 155                | 7300              | 100                     | 10000              | 107                | 9200              |
| CMR 125 D                                                                         | 10         | 140                      | 12500              | 193                | 5500              | 90                      | 14000              | 139                | 6200              | 50                      | 15000              | 83                 | 7700              |
|                                                                                   | 12.3       | 114                      | 12500              | 157                | 5500              | 73                      | 14000              | 113                | 6200              | 41                      | 15000              | 67                 | 7700              |
|                                                                                   | 15         | 93                       | 14000              | 128                | 5500              | 60                      | 15000              | 99                 | 6200              | 33                      | 16000              | 59                 | 7700              |
|                                                                                   | 20.3       | 69                       | 14000              | 106                | 5500              | 44                      | 15000              | 73                 | 6200              | 24.6                    | 16000              | 43                 | 7700              |
|                                                                                   | 25         | 56                       | 15000              | 92                 | 5500              | 36                      | 16000              | 63                 | 6200              | 20.0                    | 17000              | 37                 | 7700              |
|                                                                                   | 30.8       | 45                       | 15000              | 75                 | 5500              | 29.2                    | 16000              | 51                 | 6200              | 16.2                    | 17000              | 30                 | 7700              |

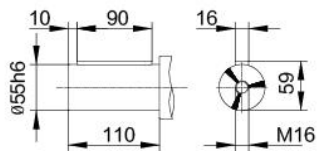
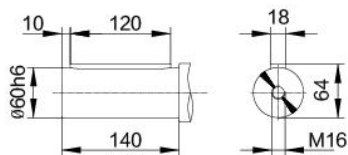
## Straight Bore



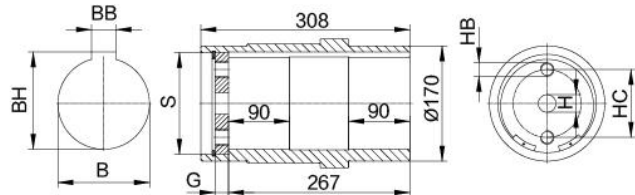
## Screw Taper Bushing



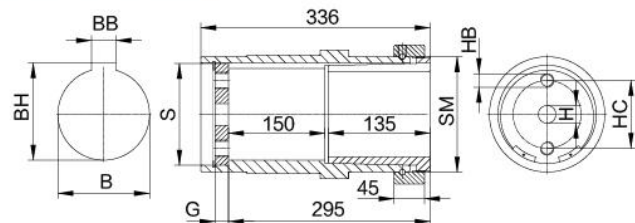
## INPUT SHAFT



## Straight Bore



## Screw Taper Bushing

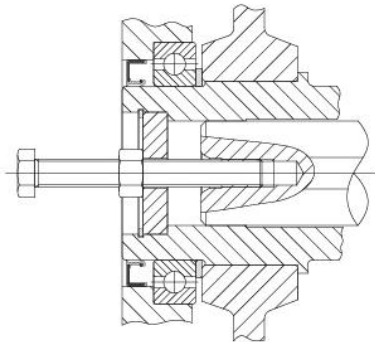


|                                                                                           |  |  |  |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  125 S | 125<br>135                                                                          | 399<br>395                                                                          | 27                                                                                  |
|  125 D | 125<br>135                                                                          | 432<br>428                                                                          | 27                                                                                  |

|  B | BB | BH    | G  | H  | HB  | HC  | S   | SM     | SN  |
|---------------------------------------------------------------------------------------|----|-------|----|----|-----|-----|-----|--------|-----|
| 125G7                                                                                 | 32 | 132.4 | 20 | 26 | M20 | 100 | 145 | M160*3 | 195 |
| 135G7                                                                                 | 36 | 143.4 | 20 | 32 | M24 | 100 | 150 | M170*3 | 205 |

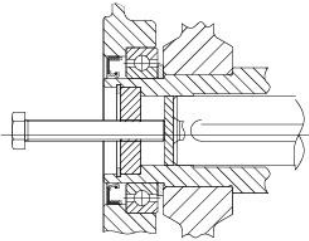
# 14、Installation and Removal

## Installation

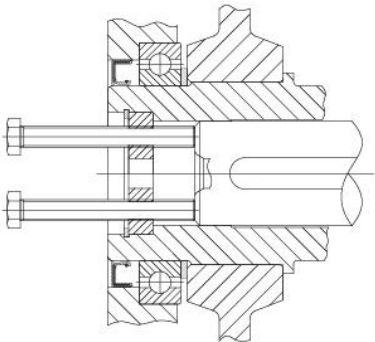


## Removal

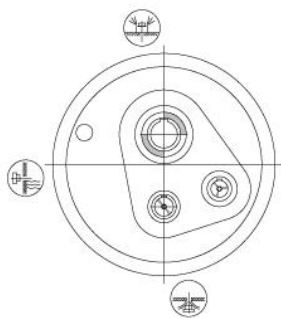
$B < 60$



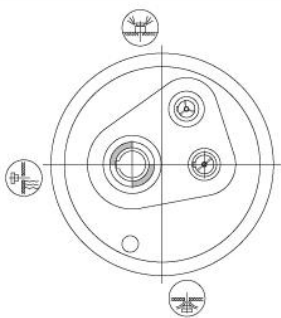
$B \geq 60$



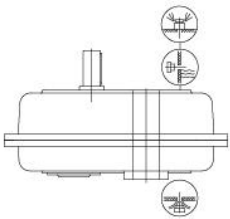
# 15、Mounting Position



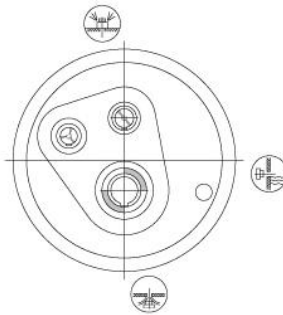
A



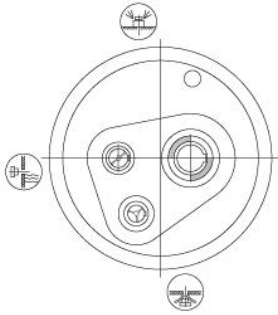
B



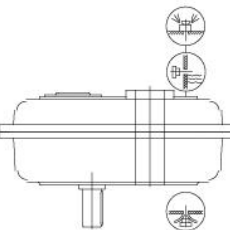
VA



C



D



VB



Breather & Oil Fill Plug



Oil Level Plug



Oil Drain Plug



Single Reduction Reducer

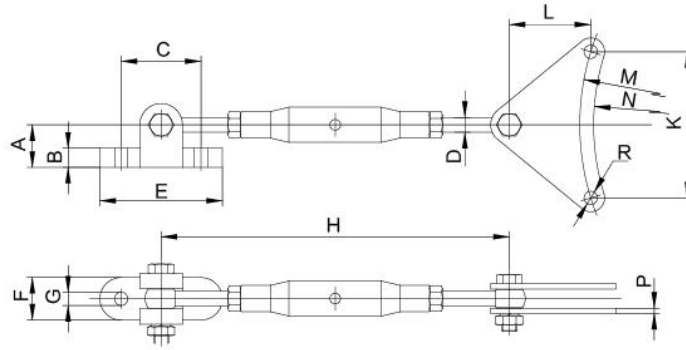


Double Reduction Reducer



Output Hub

## 16、TORQUE ARM

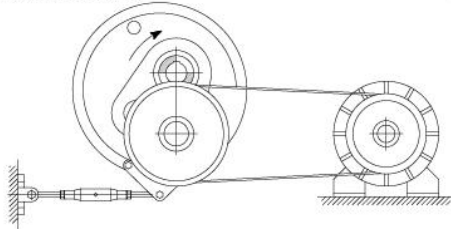


|         | A  | B  | C   | D   | E   | F  | G    | H   |     | Adaptor Plate |     |       |     |      |    |
|---------|----|----|-----|-----|-----|----|------|-----|-----|---------------|-----|-------|-----|------|----|
|         |    |    |     |     |     |    |      | min | max | K             | L   | M     | N   | R    | P  |
| CMR 35  | 25 | 10 | 50  | M10 | 75  | 25 | 8.5  | 200 | 300 | 91.84         | 45  | 120   | 111 | 8.5  | 4  |
| CMR 40  | 35 | 16 | 70  | M12 | 105 | 35 | 10.5 | 210 | 310 | 115.57        | 51  | 151   | 143 |      |    |
| CMR 45  |    |    |     |     |     |    |      |     |     | 131.64        | 57  | 172   | 164 | 10.5 | 5  |
| CMR 50  | 40 | 18 | 75  | M14 | 115 | 40 | 12.5 | 240 | 360 | 156.9         | 70  | 205   | 195 |      |    |
| CMR 60  |    |    |     |     |     |    |      |     |     | 179.1         | 84  | 234   | 221 | 12.5 | 6  |
| CMR 70  | 45 | 20 | 85  | M16 | 135 | 50 | 14.5 | 260 | 410 | 199           | 100 | 260   | 247 |      |    |
| CMR 80  |    |    |     |     |     |    |      |     |     | 218.13        | 102 | 285   | 272 | 13   | 6  |
| CMR 100 | 65 | 30 | 150 | M20 | 220 | 70 | 25   | 340 | 560 | 258.31        | 115 | 337   | 324 |      |    |
| CMR 125 |    |    |     |     |     |    |      |     |     | 308.06        | 135 | 402.5 | 382 | 17   | 10 |

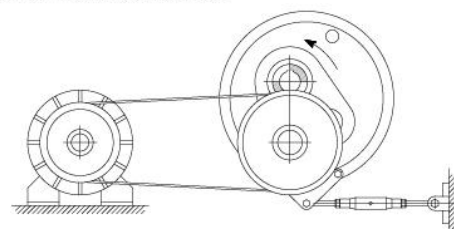
### Torque Arm Adjustment

It is necessary that the tension arm is tensile stressed.

#### Output Hub Clockwise Rotation



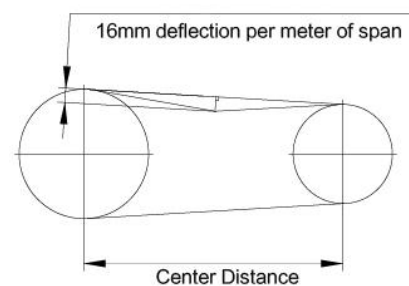
#### Output Hub Counter-Clockwise Rotation



### Belt Installation

#### Tensioning Forces

| Belt | Force Required to deflect belt 16mm per meter of span |                       |
|------|-------------------------------------------------------|-----------------------|
|      | Small Pulley Diameter (mm)                            | Tensioning Forces (N) |
| SPZ  | 56 – 95                                               | 13 – 20               |
|      | 100 – 140                                             | 20 – 25               |
| SPA  | 80 – 132                                              | 25 – 30               |
|      | 140 – 200                                             | 35 – 40               |
| SPB  | 112 – 224                                             | 45 – 60               |
|      | 236 – 315                                             | 65 – 85               |
| SPC  | 224 – 355                                             | 85 – 115              |
|      | 375 – 560                                             | 115 – 150             |



### Method of Belt Tensioning

- 1、 Calculate the deflection distance in mm on a basis of 16mm per meter of span,  
Center distance ( m ) × 16 = Deflection ( mm )
- 2、 Use a spring balance and rule measure the force of the belt, if the value falls within the values given, the drive should be satisfactory. Otherwise, use the Torque arm's turnbuckle adjust the tension of belt. ( Note, the Force direction and the belt should be a right angle )