

Caractéristiques techniques

Technical characteristics

Les réducteurs de la série CMP se caractérisent par :

CMP wormgearboxes and pre-stage modules offered have the following characteristics:

- deux carters en aluminium l'un pour le précouple et l'autre pour le réducteur à vis
- une lubrification à vie par huile synthétique pour le précouple
- une lubrification à vie par huile synthétique (viscosité 320) pour les réducteurs 030, 040, 050, et 063, par huile minérale (viscosité 460) pour les tailles 075 et 090.
- Both pre-stage module and wormgearbox are constructed with the Aluminium body.
- Pre-stage modules are supplied with long life synthetic lubricant.
- Wormgearboxes frames 030 , 040 , 050 and 063 are supplied with synthetic lubricant (viscosity 320), frames 075 and 090 with mineral lubricant (viscosity 460).

Désignation

Designation

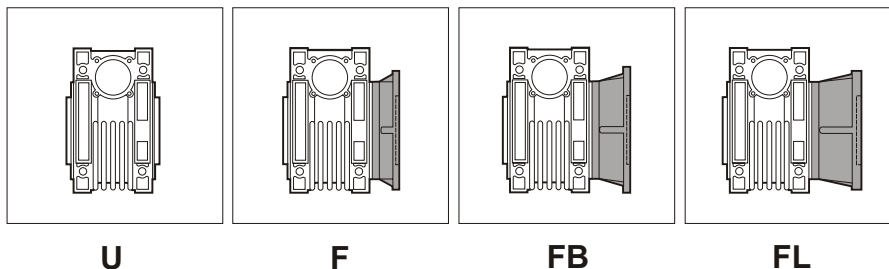
| REDUCTEUR / GEARBOX | | | | | | | MOTEUR / MOTOR | | | | |
|---------------------|--|---|-----------------------------|-------------------|-----------|----------------------------------|-------------------|-----------|-----------|--------------|---------------------------|
| CMP | 63/050 | U | 58.3 | P63 | B5 | B3 | 63A4 | B5 | 230/400 V | 50Hz | T1 |
| Type | Taille | Version | Rapport de réduction | IEC | Forme | Pos. de montage | Taille | Forme | Tension | Fréquence | Pos. de la boîte à bornes |
| Type | Size | Version | Ratio | IEC | Version | Mounting position | Size | Version | Voltage | Frequency | Terminal box pos. |
| CMP | 63/040 63/050 63/063 71/063 71/075 80/090 | U FD FS FBD FBS FLD FLS | voir tableaux see tables | 56.. — 90.. | B5 B14 | B3 B8 B6 B7 V5 V6 | 56.. — 80.. | B5 B14 | — | 50Hz 60Hz | T1 T2 T3 T4 |

Versions

Versions

Les réducteurs CMP sont disponibles en quatre versions :

CMP gear units are available in four different versions:



U

F

FB

FL

Symboles

| | | |
|-------|----------------------|---|
| n_1 | [min ⁻¹] | Vitesse d'entrée / Input speed |
| n_2 | [min ⁻¹] | Vitesse de sortie / Output speed |
| i | | Rapport de réduction / Ratio |
| P_1 | [kW] | Puissance d'entrée / Input power |
| M_2 | [Nm] | Couple de sortie rapporté à P_1 / Output torque referred to P_1 |

Symbols

| | | |
|-------|-----|--|
| sf | | Facteur de service / Service factor |
| R_2 | [N] | Charge radiale admissible / Permitted output radial load |

Lubrification

Lubrication

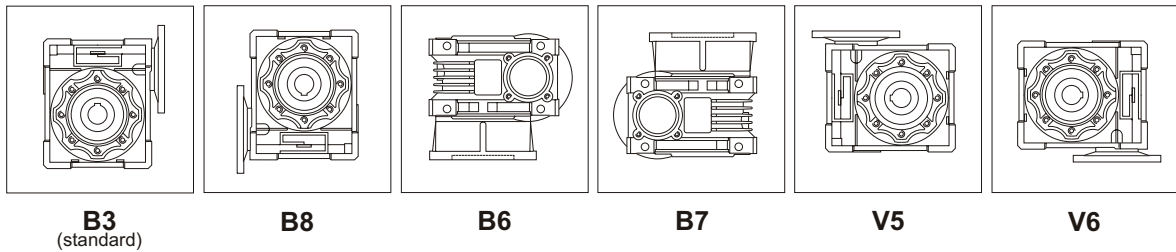
| CMP | | | | |
|--|--------|-----------------|--------|--------|
| 63/040 | 63/050 | 63/063 - 71/063 | 71/075 | 80/090 |
| Lubrification à vie Life lubricated | | | | |

Les réducteurs sont lubrifiés à vie par un lubrifiant de longue durée de vie et ne nécessitent aucun entretien.

The gearboxes are long-life lubricated, they are filled with long life lubricant and do not require any type of maintenance.

| Lubrifiants conseillés / Suggested lubricants | | | | | | |
|---|------------------|-------------|------|-------------|----------------|------------------|
| IP | SHELL | AGIP | ESSO | MOBIL | CASTROL | BP |
| Telium VSF | Tivela Oil SC320 | Blasia S320 | S320 | Glygoyle 30 | Alphasyn PG320 | Energol SG-XP320 |

Positions de montage / Mounting positions

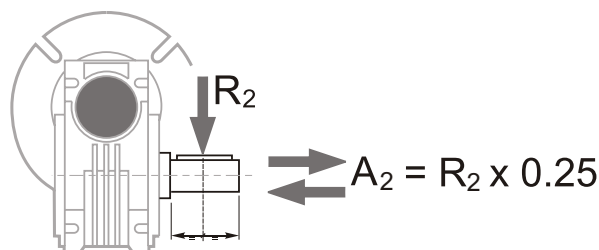


| CMP | Quantité d'huile (litres) / Oil quantity (liters) | | | | | |
|------------------|---|----|----|------|----|----|
| | B3 | B8 | B6 | B7 | V5 | V6 |
| 63/040 | | | | 0.08 | | |
| 63/050 | | | | 0.15 | | |
| 63/063 71/063 | | | | 0.30 | | |
| 71/075 | | | | 0.55 | | |
| 80/090 | | | | 1.0 | | |

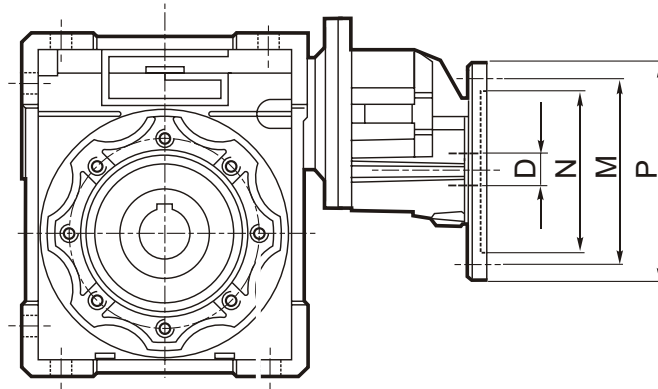
Lubrification à vie
Life lubricated

Charges radiales

Radial loads



| n ₂ [min ⁻¹] | R ₂ [N] | | | | |
|--|--------------------|--------|--------|--------|--------|
| | CMP040 | CMP050 | CMP063 | CMP075 | CMP090 |
| 35 | 1680 | 2340 | 2410 | 3880 | 4040 |
| 28 | 1780 | 2520 | 2620 | 4090 | 4620 |
| 23 | 1890 | 2710 | 2830 | 4300 | 4850 |
| 18 | 2200 | 2990 | 3250 | 4670 | 5770 |
| 14 | 2410 | 3360 | 3460 | 4930 | 6090 |






| CMP | IEC | N | M | P | D | i | | | | | | | | | | | |
|---------------|-------|-----|-----|-----|----|------|------|-------|-------|-------|-------|-------|-------|-------|---|---|---|
| | | | | | | 58.3 | 77.7 | 116.6 | 155.4 | 194.3 | 233.1 | 310.8 | | | | | |
| 63/040 | 63B5 | 95 | 115 | 140 | 11 | | | | | | | | | | | | |
| | 63B14 | 60 | 75 | 90 | | | | | | | | | | | | | |
| | 56B5 | 80 | 100 | 120 | 9 | B | B | B | B | B | B | B | B | B | B | B | |
| | 56B14 | 50 | 65 | 80 | | | | | | | | | | | | | |
| | | | | | | 58.3 | 77.7 | 116.6 | 155.4 | 194.3 | 233.1 | 310.8 | | | | | |
| 63/050 | 63B5 | 95 | 115 | 140 | 11 | | | | | | | | | | | | |
| | 63B14 | 60 | 75 | 90 | | | | | | | | | | | | | |
| | 56B5 | 80 | 100 | 120 | 9 | B | B | B | B | B | B | B | B | B | B | B | |
| | 56B14 | 50 | 65 | 80 | | | | | | | | | | | | | |
| | | | | | | 58.3 | 77.7 | 116.6 | 155.4 | 194.3 | 233.1 | 310.8 | | | | | |
| | | | | | | 53.0 | 70.6 | 88.3 | 105.9 | 141.2 | 176.5 | 211.8 | 310.8 | 388.5 | | | |
| 71/063 | 71B5 | 110 | 130 | 160 | 14 | | | | | | | | | | | | |
| | 71B14 | 70 | 85 | 105 | | | | | | | | | | | | | |
| 63/063 | 63B5 | 95 | 115 | 140 | 11 | | | | | | | | | | | B | B |
| | 63B14 | 60 | 75 | 90 | | | | | | | | | | | | | |
| | | | | | | 53.0 | 70.6 | 88.3 | 105.9 | 141.2 | 176.5 | 211.8 | 282.4 | 353.0 | | | |
| 71/075 | 71B5 | 110 | 130 | 160 | 14 | | | | | | | | | | | | |
| | 71B14 | 70 | 85 | 105 | | | | | | | | | | | | | |
| | | | | | | 48.0 | 64.0 | 96.0 | 128.0 | 160.0 | 192.0 | 256.0 | 320.0 | 384.0 | | | |
| 80/090 | 90B5 | 130 | 165 | 200 | 24 | | | | | | | | | | | | |
| | 90B14 | 95 | 115 | 140 | | | | | | | | | | | | | |
| | 80B5 | 130 | 165 | 200 | 19 | B | B | B | B | B | B | B | B | B | B | B | |
| | 80B14 | 80 | 100 | 120 | | | | | | | | | | | | | |




Nota: les zones grisées correspondent aux possibilités de montage.
N.B. Grey areas indicate motor inputs available on each size of unit.

B = Douille d'arbre
B = Metal shaft sleeve

Caractéristiques techniques

Technical data

| n2 [min ⁻¹] | M2 [Nm] | sf | i |  |  |  |
|----------------------------|------------|-----|-------|---|---|---|
| 0.09 kW | | | | | | |
| 3,6 | 119 | 1,8 | 388,5 | CMP063/063 | - MTA56G4 | 11 |
| 4,5 | 99 | 2,0 | 310,8 | | | |
| 4,5 | 99 | 1,2 | 310,8 | CMP063/050 | - MTA56G4 | 9 |
| 6,0 | 81 | 1,7 | 233,1 | | | |
| 7,2 | 75 | 1,5 | 194,3 | | | |
| 9,0 | 62 | 1,9 | 155,4 | | | |
| 12,0 | 50 | 2,0 | 116,6 | | | |
| 18,0 | 36 | 2,0 | 77,7 | | | |
| 24,0 | 28 | 2,0 | 58,3 | CMP063/040 | - MTA56G4 | 7 |
| 7,2 | 74 | 0,8 | 194,3 | | | |
| 9,0 | 63 | 1,0 | 155,4 | | | |
| 12,0 | 50 | 1,4 | 116,6 | | | |
| 18,0 | 36 | 1,9 | 77,7 | | | |
| 24,0 | 28 | 2,0 | 58,3 | | | |

| n2 [min ⁻¹] | M2 [Nm] | sf | i |  |  |  |
|----------------------------|------------|-----|-------|---|---|---|
| 0.37kW | | | | | | |
| 5,0 | 300 | 0,8 | 282,4 | CMP071/075 | - MTA71G4 | 17 |
| 6,6 | 257 | 1,1 | 211,8 | | | |
| 7,9 | 231 | 1,3 | 176,5 | | | |
| 9,9 | 199 | 1,8 | 141,2 | | | |
| 13,2 | 165 | 2,3 | 105,9 | CMP071/063 | - MTA71G4 | 14 |
| 15,9 | 148 | 2,2 | 88,3 | | | |
| 6,6 | 241 | 0,8 | 211,8 | | | |
| 7,9 | 223 | 0,9 | 176,5 | | | |
| 9,9 | 185 | 1,2 | 141,2 | | | |
| 13,2 | 157 | 1,5 | 105,9 | | | |
| 15,9 | 142 | 1,5 | 88,3 | | | |
| 19,8 | 120 | 1,9 | 70,6 | | | |
| 26,4 | 94 | 2,5 | 53,0 | | | |

| | | | | | | |
|----------------|-----|-----|-------|------------|-----------|----|
| 0.12 kW | | | | | | |
| 3,6 | 159 | 1,3 | 388,5 | CMP063/063 | - MTA63K4 | 11 |
| 4,5 | 132 | 1,5 | 310,8 | | | |
| 4,5 | 132 | 0,9 | 310,8 | CMP063/050 | - MTA63K4 | 9 |
| 6,0 | 108 | 1,2 | 233,1 | | | |
| 7,2 | 100 | 1,1 | 194,3 | | | |
| 9,0 | 82 | 1,5 | 155,4 | | | |
| 12,0 | 66 | 1,5 | 116,6 | | | |
| 18,0 | 49 | 1,5 | 77,7 | | | |
| 24,0 | 37 | 1,5 | 58,3 | CMP063/040 | - MTA63K4 | 7 |
| 9,0 | 84 | 0,8 | 155,4 | | | |
| 12,0 | 67 | 1,0 | 116,6 | | | |
| 18,0 | 49 | 1,4 | 77,7 | | | |
| 24,0 | 37 | 1,5 | 58,3 | | | |

| | | | | | | |
|---------------|-----|-----|-------|------------|-----------|----|
| 0.55kW | | | | | | |
| 3,6 | 748 | 0,7 | 384,0 | CMP080/090 | - MTA80K4 | 24 |
| 4,4 | 659 | 0,8 | 320,0 | | | |
| 5,5 | 574 | 1,0 | 256,0 | | | |
| 7,3 | 459 | 1,5 | 192,0 | | | |
| 8,8 | 418 | 1,3 | 160,0 | | | |
| 10,9 | 344 | 1,8 | 128,0 | | | |
| 14,6 | 268 | 2,3 | 96,0 | | | |
| 21,9 | 191 | 2,6 | 64,0 | | | |
| 29,2 | 146 | 2,6 | 48,0 | | | |

| | | | | | | |
|----------------|-----|-----|-------|------------|-----------|----|
| 0.18 kW | | | | | | |
| 3,6 | 238 | 0,9 | 388,5 | CMP063/063 | - MTA63G4 | 12 |
| 4,5 | 198 | 1,0 | 310,8 | | | |
| 6,0 | 163 | 0,8 | 233,1 | CMP063/050 | - MTA63G4 | 10 |
| 7,2 | 150 | 0,7 | 194,3 | | | |
| 9,0 | 123 | 1,0 | 155,4 | | | |
| 12,0 | 100 | 1,0 | 116,6 | | | |
| 18,0 | 73 | 1,0 | 77,7 | | | |
| 24,0 | 56 | 1,0 | 58,3 | | | |

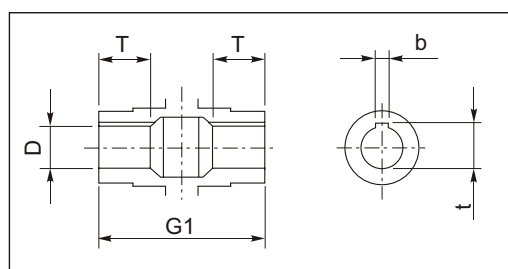
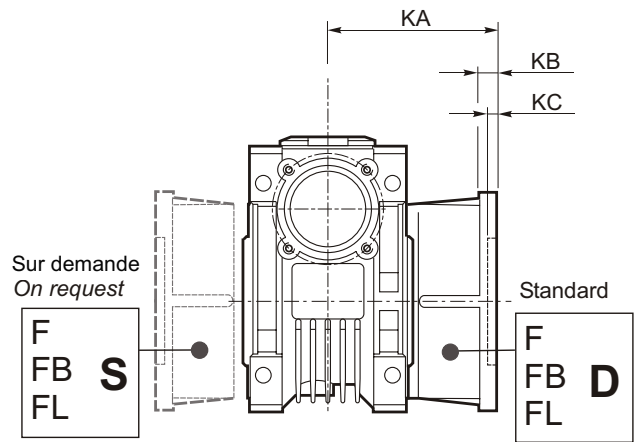
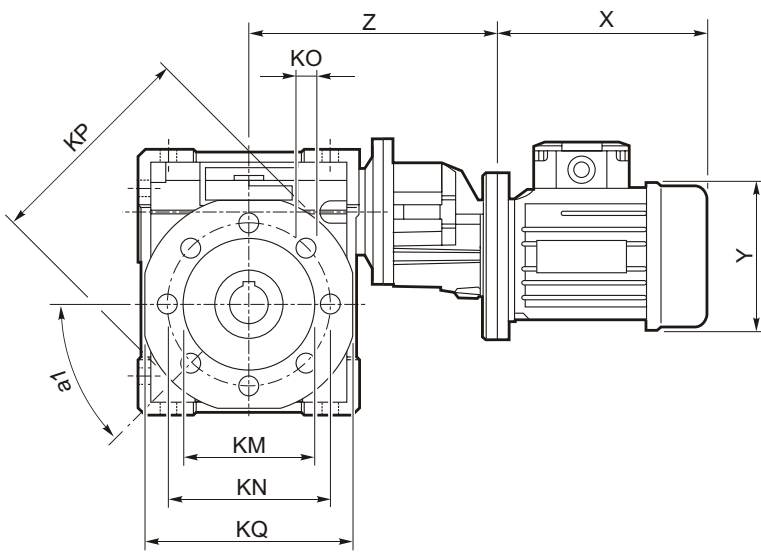
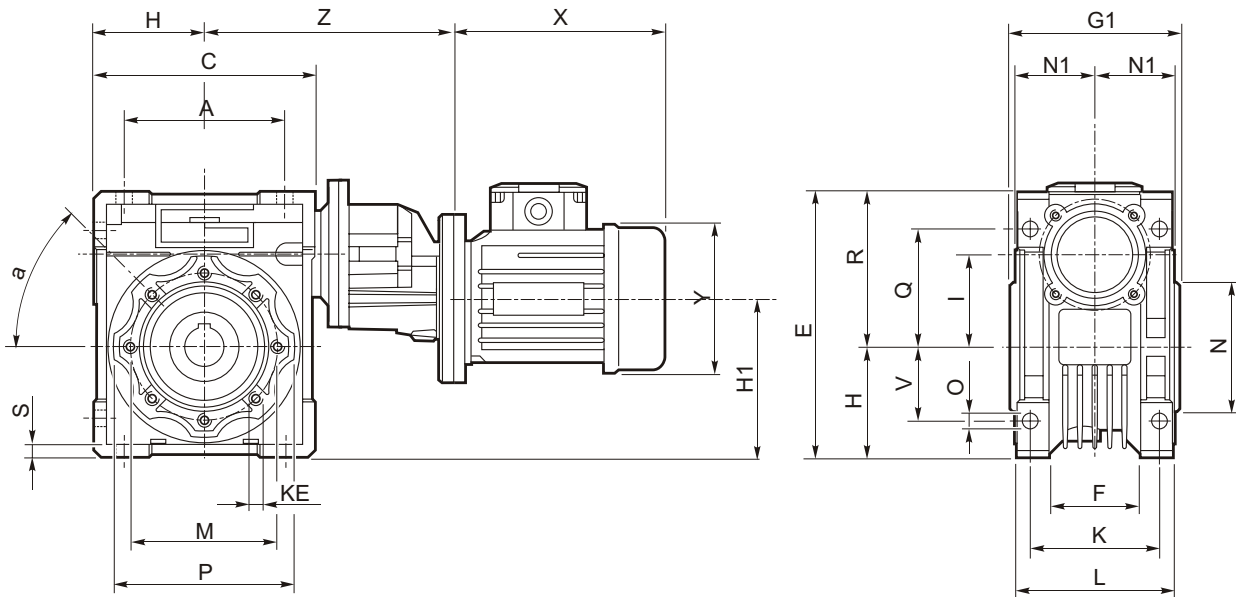
| | | | | | | |
|---------------|-----|-----|-------|------------|-----------|----|
| 0.75kW | | | | | | |
| 5,5 | 783 | 0,8 | 256,0 | CMP080/090 | - MTA80G4 | 25 |
| 7,3 | 626 | 1,1 | 192,0 | | | |
| 8,8 | 570 | 1,0 | 160,0 | | | |
| 10,9 | 468 | 1,3 | 128,0 | | | |
| 14,6 | 366 | 1,7 | 96,0 | | | |
| 21,9 | 260 | 1,9 | 64,0 | | | |
| 29,2 | 200 | 1,9 | 48,0 | | | |

| | | | | | | |
|----------------|-----|-----|-------|------------|-----------|----|
| 0.25 kW | | | | | | |
| 4,0 | 230 | 1,0 | 353,0 | CMP071/075 | - MTA71K4 | 16 |
| 5,0 | 203 | 1,2 | 282,4 | | | |
| 6,6 | 173 | 1,7 | 211,8 | | | |
| 7,9 | 156 | 2,0 | 176,5 | | | |
| 9,9 | 135 | 2,6 | 141,2 | | | |
| 5,0 | 194 | 0,9 | 282,4 | CMP071/063 | - MTA71K4 | 14 |
| 6,6 | 163 | 1,2 | 211,8 | | | |
| 7,9 | 150 | 1,4 | 176,5 | | | |
| 9,9 | 125 | 1,8 | 141,2 | | | |
| 13,2 | 106 | 2,3 | 105,9 | | | |
| 15,9 | 96 | 2,2 | 88,3 | | | |
| 19,8 | 81 | 2,8 | 70,6 | | | |
| 26,4 | 64 | 3,8 | 53,0 | | | |

| | | | | | | |
|--------------|-----|-----|-------|------------|-----------|----|
| 1.1kW | | | | | | |
| 10,9 | 687 | 0,9 | 128,0 | CMP080/090 | - MTA90S4 | 27 |
| 14,6 | 537 | 1,2 | 96,0 | | | |
| 21,9 | 381 | 1,3 | 64,0 | | | |
| 29,2 | 293 | 1,3 | 48,0 | | | |

Dimensions

Dimensions



Arbre creux de sortie / Hollow output shaft

Dimensions

Dimensions

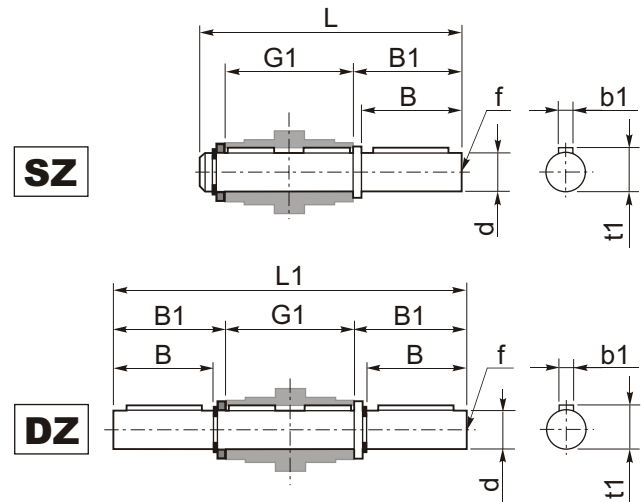
| CMP.. - CMP..F - CMP..FB - CMP..FL | | | | | | | | | | | | | | |
|------------------------------------|-----|-----|-----------------|-------|----|-----|-----|-----------|----|-----|-----|-----|-----------------|------|
| | A | C | D _{H7} | E | F | G1 | H | H1 | I | K | L | M | N _{h8} | N1 |
| 63/040 | 70 | 100 | 18 | 121.5 | 43 | 78 | 50 | 62 | 40 | 60 | 71 | 75 | 60 | 36.5 |
| 63/050 | 80 | 120 | 25 | 144 | 49 | 92 | 60 | 78 | 50 | 70 | 85 | 85 | 70 | 43.5 |
| 63/063 71/063 | 100 | 144 | 25 | 174 | 67 | 112 | 72 | 103 95 | 63 | 85 | 103 | 95 | 80 | 53 |
| 71/075 | 120 | 172 | 28 | 205 | 72 | 120 | 86 | 121 | 75 | 90 | 112 | 115 | 95 | 57 |
| 80/090 | 140 | 205 | 35 | 238 | 74 | 140 | 103 | 143 | 90 | 100 | 130 | 130 | 110 | 67 |

| CMP.. - CMP..F - CMP..FB - CMP..FL | | | | | | | | | | | | | | |
|------------------------------------|-----|-----|-----|------|-----|----|----|------------|-------------|-----|----|------|------------|--|
| | O | P | Q | R | S | T | V | Z | KE | a | b | t | Kg | |
| 63/040 | 6.5 | 87 | 55 | 71.5 | 6.5 | 26 | 35 | 153 | M6x8(n.4) | 45° | 6 | 20.8 | 3.5 | |
| 63/050 | 8.5 | 100 | 64 | 84 | 7 | 30 | 40 | 163 | M8x10(n.4) | 45° | 8 | 28.3 | 4.7 | |
| 63/063 71/063 | 8.5 | 110 | 80 | 102 | 8 | 36 | 50 | 178 185 | M8x14(n.8) | 45° | 8 | 28.3 | 7.4 8.1 | |
| 71/075 | 11 | 140 | 93 | 119 | 10 | 40 | 60 | 202.5 | M8x14(n.8) | 45° | 8 | 31.3 | 10.9 | |
| 80/090 | 13 | 160 | 102 | 135 | 11 | 45 | 70 | 243.5 | M10x18(n.8) | 45° | 10 | 38.3 | 16.6 | |

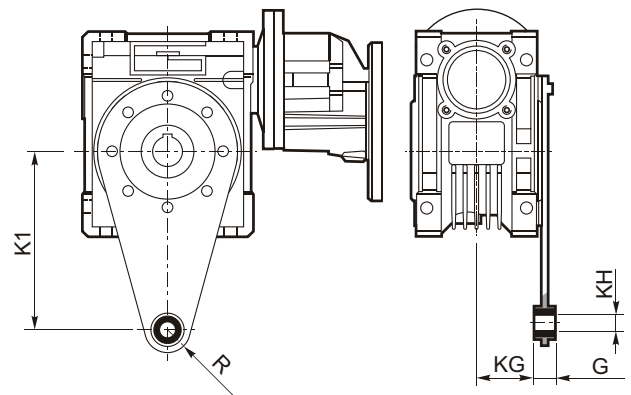
| | CMP..F | | | | | | | | | CMP..FB | | | | | | CMP..FL | | | | | | | | |
|------------------|--------|-----|----|----|-----|------------------|---------|-----|-----|---------|----|----|-----|------------------|----------|---------|-----|----|----|-----|------------------|---------|-----|-----|
| | a1 | KA | KB | KC | KM | KN _{H8} | KO | KP | KQ | KA | KB | KC | KM | KN _{H8} | KO | KP | KA | KB | KC | KM | KN _{H8} | KO | KP | KQ |
| 63/040 | 45° | 67 | 7 | 4 | 75 | 60 | 9(n.4) | 110 | 95 | 76.5 | 9 | 5 | 115 | 95 | 9.5(n.4) | 140 | 97 | 7 | 4 | 87 | 60 | 9(n.4) | 110 | 95 |
| 63/050 | 45° | 90 | 9 | 5 | 85 | 70 | 11(n.4) | 125 | 110 | 87.5 | 10 | 5 | 130 | 110 | 9.5(n.4) | 160 | 120 | 9 | 5 | 90 | 70 | 11(n.4) | 125 | 110 |
| 63/063 71/063 | 45° | 82 | 10 | 6 | 150 | 115 | 11(n.8) | 180 | 142 | 99 | 11 | 5 | 165 | 130 | 11(n.4) | 200 | 112 | 10 | 6 | 150 | 115 | 11(n.4) | 180 | 142 |
| 71/075 | 45° | 111 | 13 | 6 | 165 | 130 | 14(n.8) | 200 | 170 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 80/090 | 45° | 111 | 13 | 6 | 175 | 152 | 14(n.8) | 210 | 200 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

Arbres de sortie simple et double

| CMP | d _{h6} | B | B1 | G1 | L | L1 | f | b1 | t1 |
|------------------|-----------------|----|------|-----|-----|-----|-----|----|------|
| 63/040 | 18 | 40 | 43 | 78 | 128 | 164 | M6 | 6 | 20.5 |
| 63/050 | 25 | 50 | 53.5 | 92 | 153 | 199 | M10 | 8 | 28 |
| 63/063 71/063 | 25 | 50 | 53.5 | 112 | 173 | 219 | M10 | 8 | 28 |
| 71/075 | 28 | 60 | 63.5 | 120 | 192 | 247 | M10 | 8 | 31 |
| 80/090 | 35 | 80 | 84.5 | 140 | 234 | 309 | M12 | 10 | 38 |

Single and double output shafts

Bras de réaction

| CMP | K1 | G | KG | KH | R |
|------------------|-----|----|------|----|----|
| 63/040 | 100 | 14 | 31.5 | 10 | 18 |
| 63/050 | 100 | 14 | 38.5 | 10 | 18 |
| 63/063 71/063 | 150 | 14 | 49 | 10 | 18 |
| 71/075 | 200 | 25 | 47.5 | 20 | 30 |
| 80/090 | 200 | 25 | 57.5 | 20 | 30 |

Torque arm


2D-20-02B3-1105