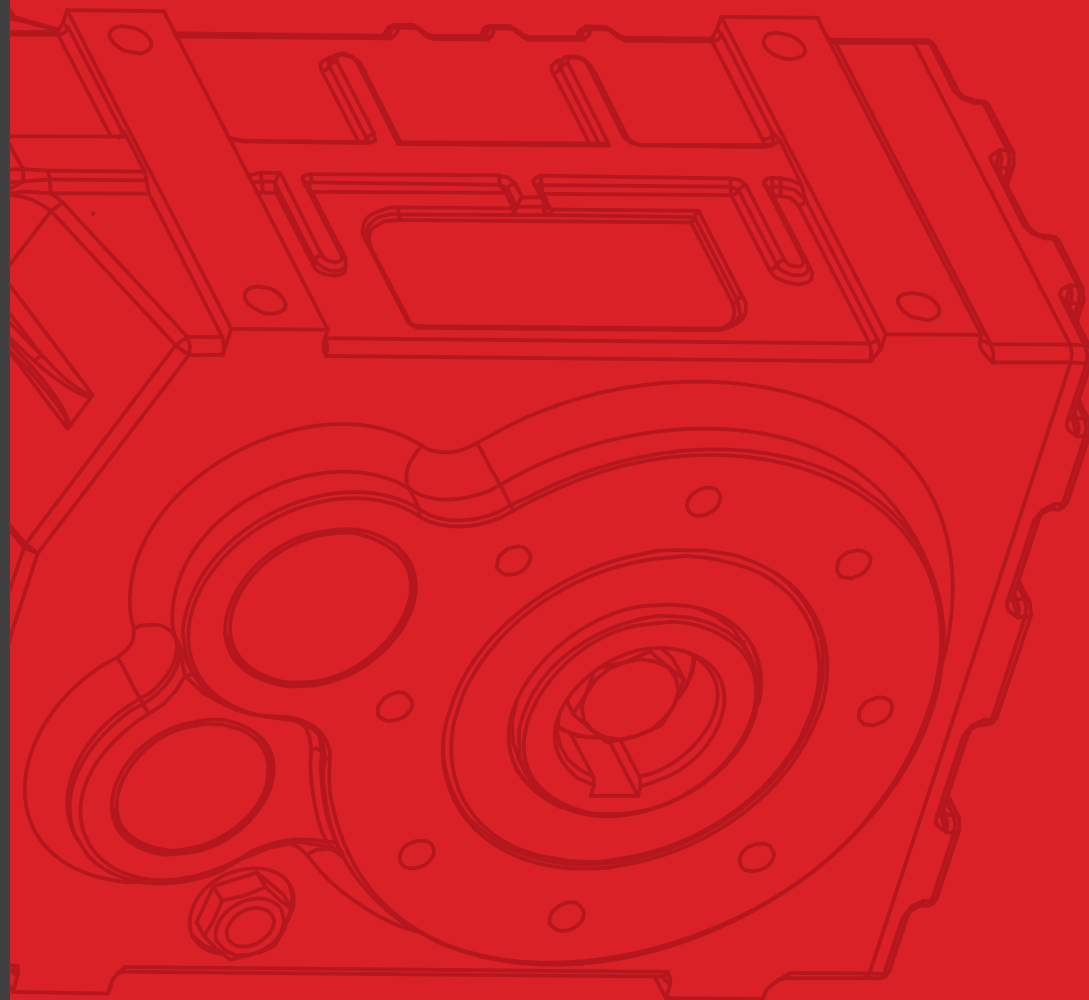




**Works & Regd. Office Address**

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Changodar, Ahmedabad - Gujarat - India - 382 213

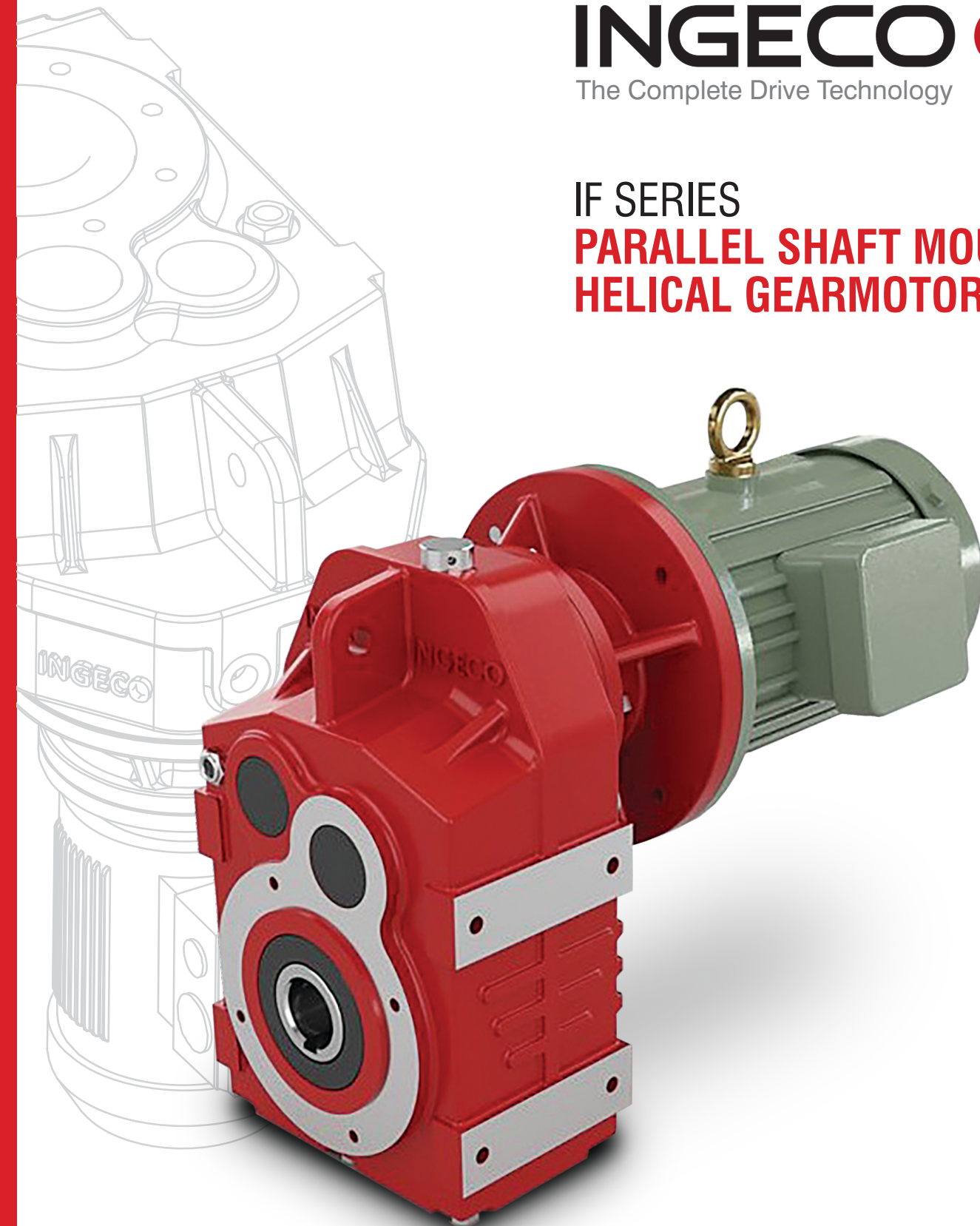
**Tel. No.** : +91- 76239 77771 / 72  
**E-mail** : [info@ingecogears.com](mailto:info@ingecogears.com) / [ingeco@ingecogears.com](mailto:ingeco@ingecogears.com)  
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 [www.youtube.com/ingecogears](https://www.youtube.com/ingecogears)

While every attempt is made to ensure the product delivered matches with the description in this brochure, we reserve the right to make modifications, without notice, to match available material supply and changes in design in keeping with our policy of continued product development.



**IF SERIES  
PARALLEL SHAFT MOUNTED  
HELICAL GEARMOTOR**



[www.ingecogears.com](http://www.ingecogears.com)

# IF SERIES PARALLEL SHAFT MOUNTED HELICAL GEARMOTOR

INGECO GearMotors are extremely efficient gear units which are compact and sturdy and capable of transmitting power with utmost efficiency. It can deliver torque upto 10,000 Nm with various possible ratios.

INGECO Geared Motors are aesthetically designed with various mounting options . The robust Monobloc housing is made of GG22 iron and is machined under state of art standards. The geared motors are perfectly adapted to applications requiring a high torque transmission and harsh environment. The units configuration also makes the mounting and maintenance easier with a large range of option and technical features

Each gear is calculated, designed and ground to provide a noiseless working of the final gearbox. The IF series gear units are available with output shaft, hollow shaft, double output shaft and various other flange options.

They are having a wide application in core industries like Cement, Power, Mining and other infrastructure related machineries. Designed to work under heavy loads and in hard conditions, the Helical IF series is perfectly adapted to a wide range of application. The helical gears are made of 16MnCr5 steel and match the 57Hrc standards hence each gear is heat treated and controlled to make sure that it match the highest standards.

## Design Features Include

- > Ability to fit double oil seals, on output shaft or reducer input shaft as required.
- > All units are dimensionally interchangeable with other major European manufacturers.
- > Units are manufactured and assembled from a family of modular kits for distributor friendliness minimising inventory and maximising availability.

## Types and Specifications

**Types:** Parallel Shaft Mounted Helical Geared Motor - IF Series

**Sizes:** Available in 7 Sizes viz. IF04,IF05,IF06,IF07,IF08,IF09,IF10

**Ratios:** Available in 2, 3 and 4 stages and for Ratios of upto 4000:1. We can offer ratios from 5:1 to 100:1 in two stages, up to 320:1 in three stages and 4000:1 in four

**stages.Power:** Higher power ratings for maximum torque and Motor Configuration from 0.25 Kw to 100 Kw and upto 10000Nm

**Mounts:** Vertical, horizontal and direct drive mounting configurations

**Motor Sizes:** IEC Frames from 63 to 280

**Lubrication:** Oil splash type lubrication or Grease filled

**Housing:** Close grain cast iron case construction.

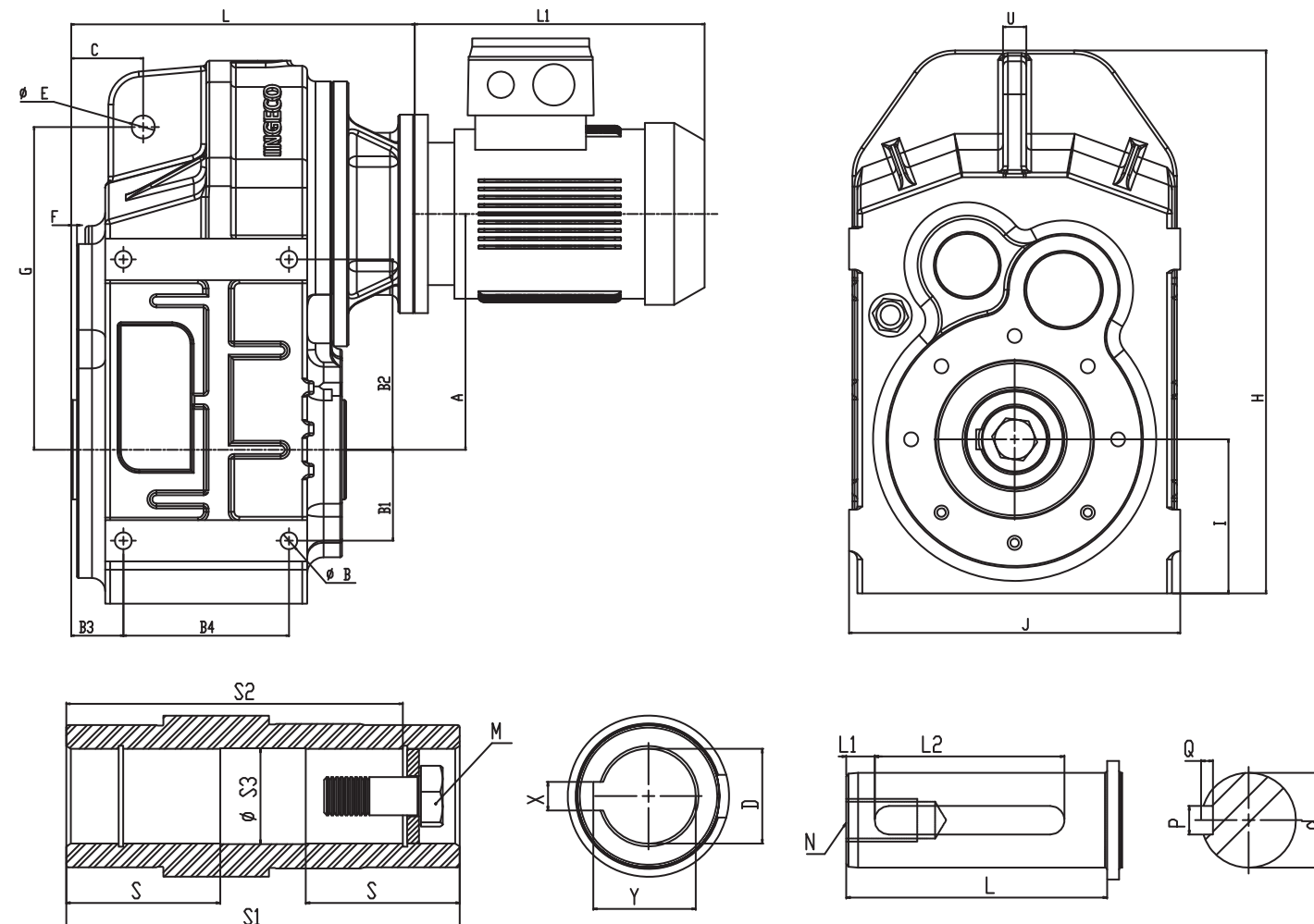
## Product Features

**Input Versions:** Geared motor, Motor-mount Reducer for IEC Motor and Reducer unit with Solid input shaft.

**Output Options:** Solid Shaft , Hollow Shaft. & Splined Shafts

INGECO

The Complete Drive Technology



| Model  |              |     |       |       |      |      |      |        |     |        |              |     |     |     | IF-04 IF-05 IF-06 IF-07 IF-08 IF-09 IF-10 |     |        |     |     |     |     |     |     |
|--------|--------------|-----|-------|-------|------|------|------|--------|-----|--------|--------------|-----|-----|-----|-------------------------------------------|-----|--------|-----|-----|-----|-----|-----|-----|
| A      | B            | B1  | B2    | B3    | B4   | C    | E    | F      | G   | H      | I            | J   | U   |     | L1                                        | L   | L      | L   | L   | L   | L   |     |     |
| IK- 04 | 132          | M10 | 50    | 70    | 26.5 | 90   | 41.5 | 14     | 3.5 | 180    | 300          | 90  | 190 | 12  | 63                                        | 183 | 182    | 205 | 225 | 250 | -   | -   | -   |
| IK- 05 | 142.5        | M12 | 55    | 115   | 31.5 | 100  | 43.5 | 14     | 3.5 | 195    | 340          | 105 | 200 | 14  | 71                                        | 210 | 206    | 210 | 230 | 260 | -   | -   | -   |
| IK- 06 | 162.5        | M12 | 60    | 130   | 35   | 125  | 50   | 14     | 5   | 228    | 371.5        | 112 | 236 | 16  | 80                                        | 242 | 206    | 225 | 251 | 281 | 304 | 340 | 400 |
| IK- 07 | 200          | M16 | 70    | 170   | 40   | 140  | 52   | 22     | 4   | 278    | 450          | 134 | 280 | 20  | 90S                                       | 269 | 206    | 225 | 251 | 231 | 304 | 340 | 400 |
| IK- 08 | 249          | M16 | 100   | 210   | 43   | 165  | 64   | 22     | 4   | 345    | 539          | 152 | 335 | 26  | 90L                                       | 294 | 206    | 225 | 251 | 281 | 304 | 340 | 400 |
| IK- 09 | 290          | M20 | 127   | 198   | 56   | 190  | 78.5 | 27     | 3.5 | 385    | 622          | 177 | 380 | 26  | 100L                                      | 314 | 215    | 230 | 256 | 282 | 304 | 350 | 400 |
| IK- 10 | 332          | M20 | 162.5 | 257.5 | 51   | 220  | 85   | 28     | 5   | 450    | 738          | 220 | 475 | 35  | 112M                                      | 338 | 215    | 230 | 256 | 282 | 304 | 350 | 400 |
|        |              |     |       |       |      |      |      |        |     |        |              |     |     |     | 132S                                      | 371 |        | 240 | 279 | 294 | 307 | 350 | 405 |
|        |              |     |       |       |      |      |      |        |     |        |              |     |     |     | 132M                                      | 409 |        | 240 | 279 | 294 | 307 | 350 | 405 |
|        |              |     |       |       |      |      |      |        |     |        |              |     |     |     | 160M                                      | 479 |        |     |     | 315 | 337 | 410 | 442 |
|        |              |     |       |       |      |      |      |        |     |        |              |     |     |     | 160L                                      | 523 |        |     |     | 315 | 337 | 410 | 442 |
|        |              |     |       |       |      |      |      |        |     |        |              |     |     |     | 180M                                      | 545 |        |     |     |     | 337 | 410 | 442 |
|        |              |     |       |       |      |      |      |        |     |        |              |     |     |     | 180L                                      | 583 |        |     |     |     | 337 | 410 | 410 |
|        |              |     |       |       |      |      |      |        |     |        |              |     |     |     | 200L                                      | 650 |        |     |     |     |     | 410 | 410 |
|        |              |     |       |       |      |      |      |        |     |        |              |     |     |     | 225S                                      | 695 |        |     |     |     |     | 413 | 474 |
|        |              |     |       |       |      |      |      |        |     |        |              |     |     |     | 225M                                      | 695 |        |     |     |     |     | 413 | 474 |
| Model  | D [H7] [MAX] | S   | S1    | S2    | S3   | Y    | X    | M      |     | Model  | D [H6] [MAX] | P   | Q   | L   | L1                                        | L2  | N      |     |     |     |     |     |     |
| IF- 04 | 35           | 40  | 153   | 125   | 35.3 | 38.3 | 10   | M12X30 |     | IF- 04 | 35           | 40  | 153 | 55  | 3                                         | 50  | M12x30 |     |     |     |     |     |     |
| IF- 05 | 40           | 65  | 166   | 142   | 40.5 | 43.3 | 12   | M16x40 |     | IF- 05 | 40           | 65  | 166 | 65  | 3                                         | 60  | M16x40 |     |     |     |     |     |     |
| IF- 06 | 50           | 70  | 200   | 176   | 50.5 | 53.8 | 14   | M16x40 |     | IF- 06 | 50           | 70  | 200 | 75  | 3                                         | 70  | M16x40 |     |     |     |     |     |     |
| IF- 07 | 60           | 65  | 213   | 189   | 61   | 64.4 | 16   | M20X45 |     | IF- 07 | 60           | 65  | 213 | 95  | 3                                         | 80  | M16x40 |     |     |     |     |     |     |
| IF- 08 | 70           | 70  | 240   | 216   | 70.5 | 74.9 | 20   | M20X50 |     | IF- 08 | 70           | 70  | 240 | 115 | 3                                         | 100 | M20x45 |     |     |     |     |     |     |
| IF- 09 | 75           | 110 | 292   | 252   | 76   | 79.9 | 20   | M20X50 |     | IF- 09 | 75           | 110 | 292 | 136 | 3                                         | 110 | M20x45 |     |     |     |     |     |     |
| IF- 10 | 90           | 120 | 317   | 285   | 91   | 95.4 | 25   | M24X80 |     | IF- 10 | 90           | 120 | 317 | 173 | 5                                         | 140 | M24x50 |     |     |     |     |     |     |

For 1 HP (0.75Kw), 1440 rpm, 4 pole

| Ratio | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|-------|---------|----------------|-------|-------------------|-------------|
| 20:1  | 72      | 3.7            | IF042 | 5700              | 99          |
| 25:1  | 56      | 3.1            | IF042 | 6000              | 122         |
| 30:1  | 48      | 2.6            | IF042 | 6400              | 152         |
| 35:1  | 41      | 2.2            | IF042 | 6400              | 174         |
| 40:1  | 36      | 2              | IF042 | 6400              | 185         |
| 49:1  | 29      | 1.7            | IF042 | 6400              | 247         |
| 53:1  | 27      | 1.5            | IF043 | 6400              | 265         |
| 60:1  | 24      | 1.1            | IF043 | 6400              | 298         |
| 55:1  | 26      | 2.2            | IF053 | 7072              | 275         |
| 72:1  | 20      | 1.8            | IF053 | 7560              | 358         |
| 97:1  | 15      | 1.01           | IF053 | 8693              | 477         |

For 1.5 HP(1.1Kw) , 1440 rpm, 4 pole

| Ratio  | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|--------|---------|----------------|-------|-------------------|-------------|
| 20:1   | 72      | 2.6            | IF042 | 5100              | 141         |
| 25:1   | 56      | 2.1            | IF042 | 5372              | 177         |
| 30:1   | 48      | 1.7            | IF042 | 5819              | 222         |
| 35:1   | 41      | 1.5            | IF042 | 5880              | 255         |
| 38.7:1 | 38      | 2              | IF053 | 5740              | 277         |
| 45:1   | 32      | 1.8            | IF053 | 6050              | 328         |
| 55:1   | 26      | 1.5            | IF053 | 6317              | 404         |
| 60:1   | 24      | 2.04           | IF063 | 14500             | 440         |
| 72:1   | 20      | 1.7            | IF063 | 14500             | 525         |
| 165:1  | 9       | 1.4            | IF073 | 16000             | 1167        |

For 2.0 HP(1.5Kw) , 1440 rpm, 4 pole

| Ratio  | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|--------|---------|----------------|-------|-------------------|-------------|
| 20:1   | 72      | 1.9            | IF042 | 4650              | 198         |
| 25:1   | 56      | 1.5            | IF042 | 4894              | 242         |
| 30:1   | 48      | 1.3            | IF042 | 5302              | 302         |
| 38.7:1 | 38      | 1.5            | IF052 | 5238              | 378         |
| 50:1   | 29      | 1.8            | IF063 | 12909             | 493         |
| 60:1   | 24      | 1.5            | IF063 | 13530             | 596         |
| 72:1   | 20      | 2.3            | IF073 | 16000             | 715         |
| 90:1   | 16      | 1.6            | IF073 | 16000             | 880         |
| 100:1  | 14      | 1.5            | IF073 | 16000             | 985         |
| 125:1  | 12      | 2.4            | IF083 | 18000             | 1230        |
| 165:1  | 9       | 2              | IF083 | 18000             | 1590        |

For 3.0 HP(2.2Kw) , 1440 rpm, 4 pole

| Ratio | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|-------|---------|----------------|-------|-------------------|-------------|
| 7.5:1 | 192     | 3.8            | IF052 | 2800              | 110         |
| 10:1  | 144     | 3.4            | IF052 | 2990              | 141         |
| 14:1  | 103     | 2.5            | IF052 | 3427              | 200         |
| 20:1  | 72      | 1.9            | IF052 | 3800              | 270         |
| 25:1  | 58      | 1.5            | IF052 | 4150              | 360         |
| 30:1  | 48      | 2.09           | IF062 | 10422             | 430         |
| 40:1  | 36      | 1.5            | IF062 | 11120             | 580         |
| 45:1  | 32      | 3.5            | IF073 | 13900             | 656         |
| 60:1  | 24      | 2.01           | IF073 | 16000             | 860         |
| 72:1  | 20      | 1.5            | IF073 | 16000             | 1000        |
| 90:1  | 16      | 2.2            | IF083 | 18000             | 1310        |
| 100:1 | 14      | 2              | IF083 | 18000             | 1500        |
| 125:1 | 12      | 1.7            | IF083 | 18000             | 1770        |
| 165:1 | 9       | 1.3            | IF083 | 18000             | 2330        |

For 5.0 HP (3.7 Kw) , 1440 rpm, 4 pole

| Ratio | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|-------|---------|----------------|-------|-------------------|-------------|
| 7.5:1 | 192     | 2.5            | IF052 | 2250              | 184         |
| 10:1  | 144     | 2              | IF052 | 2550              | 230         |
| 14:1  | 103     | 1.5            | IF052 | 2925              | 335         |
| 20:1  | 72      | 1.7            | IF062 | 7780              | 450         |
| 25:1  | 58      | 2.7            | IF072 | 11250             | 595         |
| 30:1  | 48      | 2.3            | IF072 | 11860             | 710         |
| 35:1  | 41      | 2              | IF072 | 12420             | 850         |
| 40:1  | 36      | 1.7            | IF072 | 12920             | 960         |
| 45:1  | 32      | 1.5            | IF073 | 13490             | 1100        |
| 50:1  | 29      | 2.3            | IF083 | 13300             | 1218        |
| 60:1  | 24      | 2.1            | IF083 | 15340             | 1450        |
| 72:1  | 20      | 1.8            | IF083 | 16195             | 1760        |

For 7.5 HP (5.5 Kw) , 1440 rpm, 4 pole

| Ratio  | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|--------|---------|----------------|-------|-------------------|-------------|
| 15:1   | 96      | 1.5            | IF062 | 6690              | 560         |
| 13:1   | 110     | 2.9            | IF072 | 8650              | 480         |
| 15:1   | 96      | 2.6            | IF072 | 8650              | 515         |
| 20:1   | 72      | 2.04           | IF072 | 9946              | 700         |
| 25:1   | 58      | 1.8            | IF072 | 9991              | 884         |
| 30:1   | 48      | 1.5            | IF072 | 10530             | 1100        |
| 31.2:1 | 46      | 2.1            | IF083 | 13012             | 1095        |
| 35:1   | 41      | 2              | IF083 | 13055             | 1230        |
| 50:1   | 29      | 1.6            | IF083 | 13320             | 1500        |
| 56:1   | 26      | 1.5            | IF083 | 13410             | 1970        |
| 60:1   | 24      | 2.1            | IF093 | 35000             | 2100        |
| 72:1   | 20      | 1.7            | IF093 | 35000             | 2620        |

For 10 HP (7.5 Kw) , 1440 rpm, 4 pole

| Ratio  | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|--------|---------|----------------|-------|-------------------|-------------|
| 10:1   | 144     | 2.5            | IF072 | 7920              | 529         |
| 13:1   | 110     | 2.2            | IF072 | 7860              | 670         |
| 15:1   | 96      | 2.1            | IF072 | 7860              | 710         |
| 20:1   | 72      | 1.5            | IF072 | 9060              | 950         |
| 25:1   | 58      | 2.2            | IF082 | 9110              | 1230        |
| 31.2:1 | 46      | 1.6            | IF083 | 11856             | 1490        |
| 35:1   | 36      | 1.5            | IF083 | 11895             | 1680        |
| 56:1   | 26      | 1.7            | IF093 | 35000             | 2630        |
| 72:1   | 20      | 1.3            | IF093 | 35000             | 3580        |
| 90:1   | 16      | 1.6            | IF103 | 43000             | 4470        |
| 100:1  | 14      | 1.5            | IF103 | 43000             | 4970        |

For 12.5 HP (9.2 Kw) , 1440 rpm, 4 pole

| Ratio  | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|--------|---------|----------------|-------|-------------------|-------------|
| 10:1   | 144     | 2              | IF072 | 7300              | 600         |
| 13:1   | 110     | 1.8            | IF072 | 7400              | 790         |
| 15:1   | 96      | 1.7            | IF072 | 7500              | 910         |
| 15:1   | 96      | 2.5            | IF082 | 8500              | 910         |
| 20:1   | 72      | 2              | IF082 | 8500              | 1220        |
| 25:1   | 58      | 1.7            | IF082 | 8500              | 1514        |
| 31.2:1 | 46      | 1.5            | IF083 | 8500              | 1900        |
| 35:1   | 41      | 2              | IF093 | 35000             | 2140        |
| 40:1   | 36      | 1.7            | IF093 | 35000             | 2440        |
| 50:1   | 29      | 1.5            | IF093 | 35000             | 3020        |
| 60:1   | 24      | 2.2            | IF103 | 43000             | 3660        |
| 72:1   | 20      | 1.8            | IF103 | 43000             | 4390        |
| 90:1   | 16      | 1.5            | IF103 | 43000             | 5490        |

For 15 HP (11 Kw) , 1440 rpm, 4 pole

| Ratio | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|-------|---------|----------------|-------|-------------------|-------------|
| 10:1  | 144     | 1.7            | IF072 | 7083              | 770         |
| 13:1  | 110     | 1.5            | IF072 | 7020              | 1070        |
| 15:1  | 96      | 2.3            | IF082 | 7320              | 990         |
| 20:1  | 72      | 1.8            | IF082 | 7690              | 1366        |
| 25:1  | 58      | 1.5            | IF082 | 8140              | 1790        |
| 30:1  | 48      | 2.2            | IF092 | 35000             | 2042        |
| 35:1  | 41      | 1.8            | IF092 | 35000             | 2620        |
| 40:1  | 36      | 1.5            | IF093 | 35000             | 2850        |
| 50:1  | 29      | 2.2            | IF103 | 43000             | 3622        |
| 60:1  | 24      | 1.8            | IF103 | 43000             | 4370        |
| 72:1  | 20      | 1.6            | IF103 | 43000             | 5250        |

For 20 HP (15 Kw) , 1440 rpm, 4 pole

| Ratio | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|-------|---------|----------------|-------|-------------------|-------------|
| 10:1  | 110     | 1.9            | IF082 | 6862              | 1046        |
| 13:1  | 110     | 1.7            | IF082 | 6676              | 1350        |
| 15:1  | 96      | 1.5            | IF082 | 6810              | 1515        |
| 20:1  | 72      | 1.3            | IF082 | 7100              | 1900        |
| 20:1  | 72      | 2.3            | IF092 | 35000             | 1956        |
| 25:1  | 58      | 1.8            | IF092 | 35000             | 2470        |
| 30:1  | 48      | 1.6            | IF092 | 35000             | 2785        |
| 35:1  | 41      | 2.3            | IF103 | 43000             | 3370        |
| 40:1  | 36      | 2.1            | IF103 | 43000             | 3750        |
| 55:1  | 26      | 1.5            | IF103 | 43000             | 5350        |

For 25 HP (18.5 Kw) , 1440 rpm, 4 pole

| Ratio | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|-------|---------|----------------|-------|-------------------|-------------|
| 10:1  | 144     | 3.08           | IF092 | 34756             | 1180        |
| 13:1  | 110     | 2.65           | IF092 | 35000             | 1710        |
| 15:1  | 96      | 2.6            | IF092 | 35000             | 1720        |
| 20:1  | 72      | 1.9            | IF092 | 35000             | 2396        |
| 25:1  | 58      | 1.5            | IF092 | 35000             | 3030        |
| 30:1  | 48      | 2              | IF103 | 43000             | 3400        |
| 35:1  | 40      | 1.9            | IF103 | 43000             | 4130        |
| 40:1  | 35      | 1.7            | IF103 | 43000             | 4580        |
| 50:1  | 29      | 1.4            | IF103 | 43000             | 6090        |

For 30 HP (22 Kw) , 1440 rpm, 4 pole

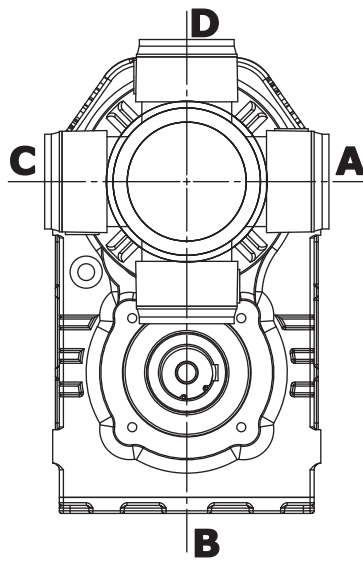
| Ratio | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|-------|---------|----------------|-------|-------------------|-------------|
| 10:1  | 144     | 2.6            | IF092 | 32955             | 1410        |
| 13:1  | 110     | 2.1            | IF092 | 33480             | 2040        |
| 15:1  | 96      | 2              | IF092 | 33480             | 2050        |
| 20:1  | 72      | 1.6            | IF092 | 35000             | 2800        |
| 20:1  | 72      | 2.8            | IF102 | 43000             | 2800        |
| 25:1  | 58      | 2.2            | IF102 | 43000             | 3580        |
| 30:1  | 48      | 1.7            | IF102 | 43000             | 4100        |
| 35:1  | 35      | 1.6            | IF102 | 43000             | 4920        |

For 40 HP (30 Kw) , 1440 rpm, 4 pole

| Ratio | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|-------|---------|----------------|-------|-------------------|-------------|
| 10:1  | 144     | 1.9            | IF092 | 30060             | 1925        |
| 13:1  | 110     | 1.6            | IF092 | 30400             | 2300        |
| 15:1  | 96      | 1.5            | IF092 | 30500             | 2700        |
| 20:1  | 72      | 2              | IF102 | 43000             | 3810        |
| 25:1  | 58      | 1.6            | IF102 | 43000             | 4890        |

For 50 HP (37 Kw) , 1440 rpm, 4 pole

| Ratio | O/p RPM | Service Factor | Model | Overhung Load (N) | Torque (Nm) |
|-------|---------|----------------|-------|-------------------|-------------|
| 10:1  | 144     | 1.5            | IF092 | 28230             | 2375        |
| 13:1  | 110     | 2.3            | IF102 | 43000             | 3210        |
| 15:1  | 96      | 2              | IF102 | 43000             | 3650        |
| 20:1  | 72      | 1.6            | IF102 | 43000             | 4700        |

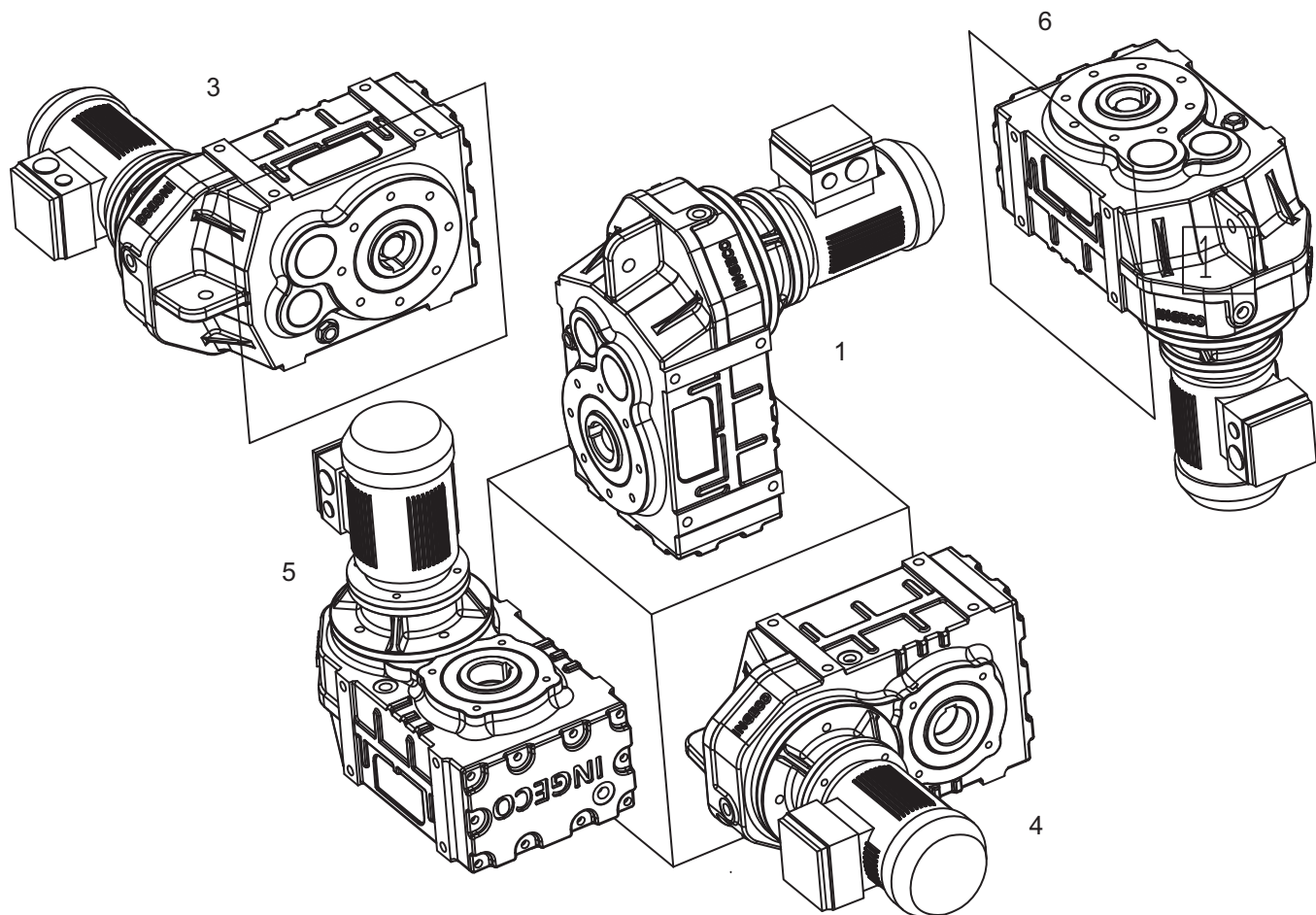


TERMINAL BOX POSITION

|                            |     |
|----------------------------|-----|
| A                          | 0   |
| B                          | 90  |
| C                          | 180 |
| D                          | 270 |
| REDUCER OR NO MOTOR FITTED |     |



MOUNTING POSITIONS

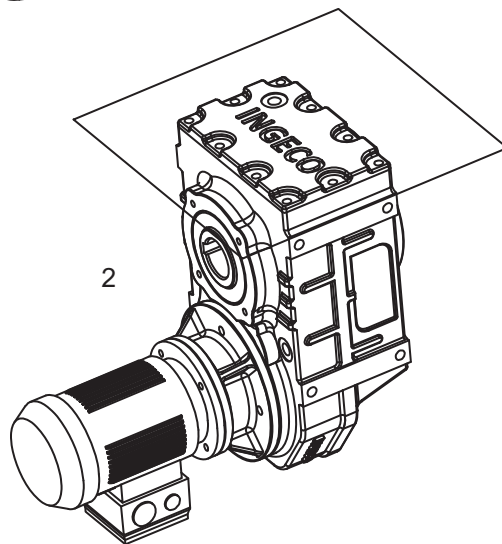


LUBRICANT QUANTITIES [ LITERS ]

| DOUBLE REDUCTION  |   |       |       |       |       |       |       |       |
|-------------------|---|-------|-------|-------|-------|-------|-------|-------|
| MODEL             |   | IK-04 | IK-05 | IK-06 | IK-07 | IK-08 | IK-09 | IK-10 |
| MOUNTING POSITION | 1 | 1.9   | 2.3   | 4.9   | 8.2   | 11.2  | 19.2  | 34.2  |
|                   | 2 | 1.2   | 1.6   | 2.7   | 4.4   | 8.8   | 13.2  | 22.2  |
|                   | 3 | 1.6   | 1.6   | 4.1   | 7.2   | 10.2  | 17.2  | 28.2  |
|                   | 4 | 1.3   | 2     | 2.7   | 4.6   | 9.6   | 15.2  | 27.2  |
|                   | 5 | 3     | 3     | 4.1   | 7.2   | 14.2  | 24.2  | 43.2  |
|                   | 6 | 2.3   | 3.4   | 5.2   | 9     | 15.2  | 25.2  | 43.2  |

LUBRICANT QUANTITIES [ LITERS ]

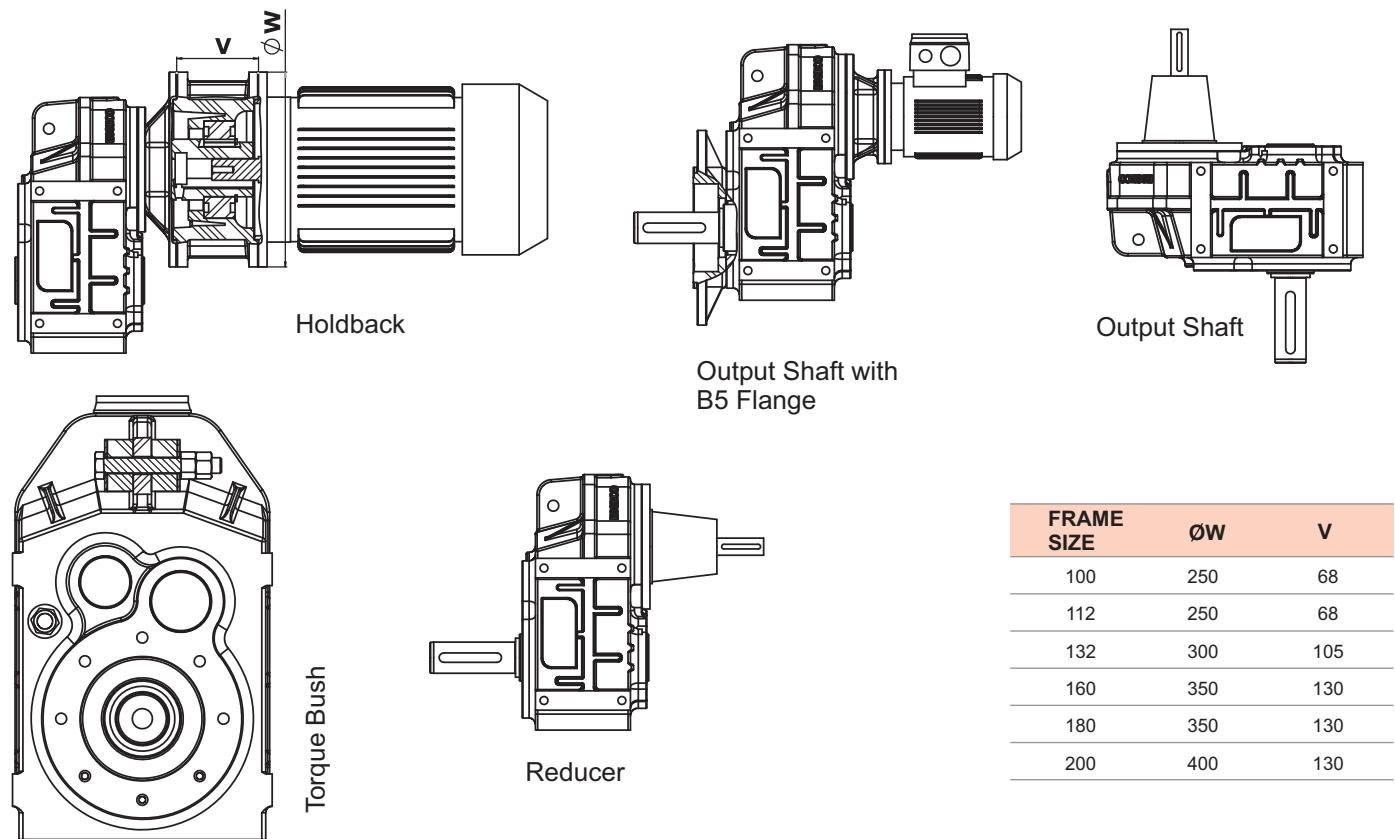
| TRIPLE REDUCTION  |   |       |       |       |       |       |       |       |
|-------------------|---|-------|-------|-------|-------|-------|-------|-------|
| MODEL             |   | IK-04 | IK-05 | IK-06 | IK-07 | IK-08 | IK-09 | IK-10 |
| MOUNTING POSITION | 1 | 1.9   | 2.3   | 4.9   | 8.2   | 11.2  | 19.2  | 34.2  |
|                   | 2 | 1.2   | 1.6   | 2.7   | 4.4   | 8.8   | 15.2  | 24.2  |
|                   | 3 | 1.6   | 1.6   | 4.1   | 7.2   | 10.2  | 17.2  | 28.2  |
|                   | 4 | 1.3   | 2     | 2.7   | 4.6   | 9.6   | 16.2  | 27.2  |
|                   | 5 | 3     | 3     | 4.1   | 7.2   | 14.2  | 24.2  | 43.2  |
|                   | 6 | 2.3   | 3.4   | 5.2   | 9     | 15.2  | 25.2  | 43.2  |



INGECO

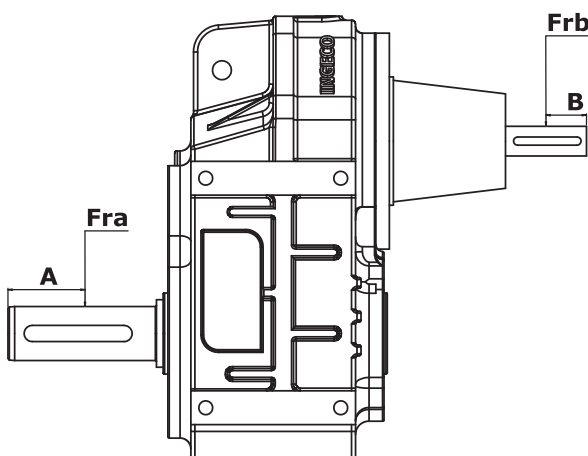
The Complete Drive Technology

OPTIONAL ACCESSORIES



| FRAME SIZE | ØW  | V   |
|------------|-----|-----|
| 100        | 250 | 68  |
| 112        | 250 | 68  |
| 132        | 300 | 105 |
| 160        | 350 | 130 |
| 180        | 350 | 130 |
| 200        | 400 | 130 |

OVERHUNG & AXIAL LOADS ON SHAFTS



| OVERHUNG MEMBER        | K (FACTOR) |
|------------------------|------------|
| CHAIN SPROCKET         | 1          |
| SPUR OR HELICAL PINION | 1.25       |
| VEE BELT SHEAVE        | 1.50       |
| FLATE BELY PULLEY      | 2          |

INPUT SHAFT OVERHUNG LOADS, Frb (kN) 1450 rpm

|         | IF-04 | IF-05 | IF-06 | IF-07 | IF-08 | IF-09 | IF-10 |
|---------|-------|-------|-------|-------|-------|-------|-------|
| 2 STAGE | 1.25  | 1.05  | 2.10  | 2.10  | 3.10  | 3.50  | 4.50  |
| 3 STAGE | 1.50  | 1.50  | 1.50  | 1.80  | 2.25  | 3.50  | 4.20  |

DISTANCE MIDWAY ALONG THE SHAFT EXTENSION

| MODEL  | DIMENSION A (mm) | DIMENSION B (mm) |
|--------|------------------|------------------|
| IF- 04 | 28               | 20               |
| IF- 05 | 33               | 20               |
| IF- 06 | 38               | 20               |
| IF- 07 | 48               | 25               |
| IF- 08 | 55               | 30               |
| IF- 09 | 68               | 40               |
| IF- 10 | 85               | 55               |

OVERHUNG LOAD (N)

$P = kW \times 9500000 \times K$

NxR

WHERE

P=EQUIVALENT OVERHUNG LOAD (N)  
kW=POWER TRANSMITTED BY THE SHAFT (kW)  
N=SPEED OF SHAFT (rev/min)  
R=PITCH RADIUS OF SPROCKET, ETC, (mm)  
K=FACTOR