

Technical Data Sheet  
Gearbox  
WORM GEARBOX ROUND DESIGN



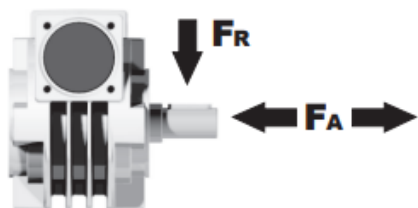
|                    |        |     |
|--------------------|--------|-----|
| MODEL              | 085    |     |
| Ø OUTPUT SHAFT     | 35     | mm  |
| APPROXIMATE RATIO  | 20     |     |
| EXACT RATIO        | 20.00  |     |
| OUTPUT SPEED       | 73     | RPM |
| EXACT OUTPUT SPEED | 73     | RPM |
| INPUT POWER        | 3.00   | KW  |
| INPUT ROTATION     | 1400   | RPM |
| INPUT PAM          | 100B5  |     |
| OUTPUT TORQUE      | 323.31 | N.m |
| NOMINAL TORQUE     | 294.00 | N.m |
| NOMINAL POWER      | 2.7    | KW  |
| SERVICE FACTOR     | 0.90   |     |
| DYNAMIC EFFICIENCY | 0.79   |     |



#### Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|-------|-------|-------|-------|-------|-------|
| 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |

#### Radial and Axial Loads



| $n_2$ [min-1] | FA [N] | FR [N] |
|---------------|--------|--------|
| 200           | 500    | 2500   |
| 100           | 600    | 3000   |
| 50            | 800    | 4000   |
| 15            | 1160   | 5800   |

Universal Motors S.A.  
Rua Comendador Brandão, 484  
4495-375 Póvoa de Varzim  
[geral@universalmotors.pt](mailto:geral@universalmotors.pt)  
TEL.: 252 299 080

Universal Motors UK, Ltd  
Unit E2, Meltham Mills Road  
West Yorkshire HD9 4AR  
[enquiries@universalmotors-group.co.uk](mailto:enquiries@universalmotors-group.co.uk)  
TEL.: +44(0) 1484660222

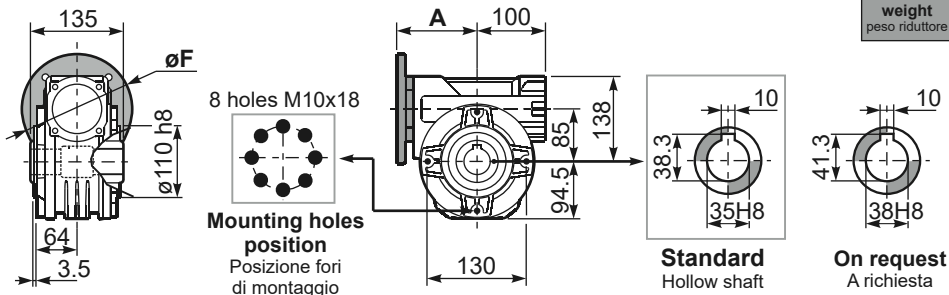
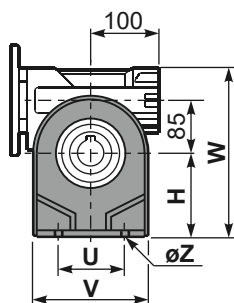
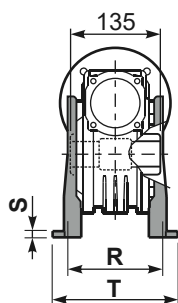
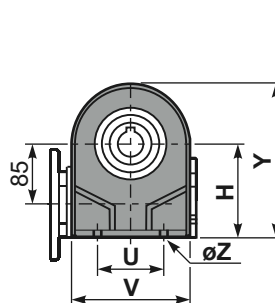
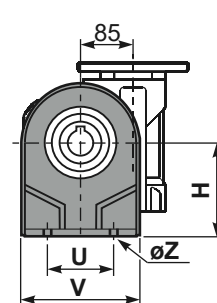
Universal Motors SL  
C/La Habana n.6 nave 4 PI Camporoso  
28806 Alcala de Henares  
[info@universalmotors-group.es](mailto:info@universalmotors-group.es)  
TEL.: 918 864 213

P085 **FB...**

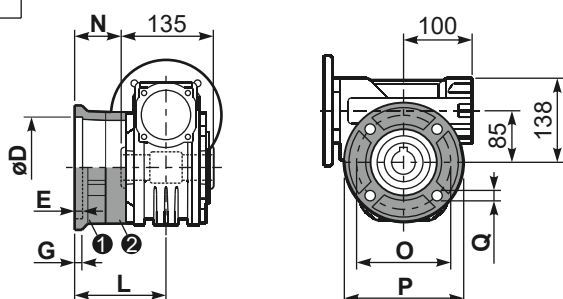
Basic wormbox  
Riduttore base

|                                         |                 |
|-----------------------------------------|-----------------|
| <b>Gearbox weight</b><br>peso riduttore | <b>11.00 kg</b> |
|-----------------------------------------|-----------------|

| M. flanges        | Kit code   | øF  | A     |
|-------------------|------------|-----|-------|
| <b>71B5</b>       | K023.4.041 | 160 | 116.5 |
| <b>80/90B5</b>    | K023.4.042 | 200 | 118.5 |
| <b>100/112B5</b>  | K023.4.043 | 250 | 127.5 |
|                   |            |     |       |
| <b>80B14</b>      | K085.4.046 | 120 | 118.5 |
| <b>90B14</b>      | K085.4.045 | 140 | 118.5 |
| <b>100/112B14</b> | K085.4.047 | 160 | 127.5 |

P085**PA...**Feet  
PiediniP085**PB**..Feet  
PiediniP085**PV**...Feet  
Piedini[illegible]P085 **FC...**

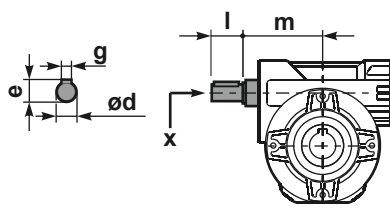
Output flange  
Flangia uscita



| type B | øD                                    | E | G  | L     | N    | O   | P   | Q    | kit code                     |
|--------|---------------------------------------|---|----|-------|------|-----|-----|------|------------------------------|
| FC     | 152 <sup>+0.06</sup> <sub>+0.00</sub> | 5 | 16 | 108   | 40.5 | 176 | 205 | 13   | ① K085.9.010<br>② -          |
| FL     | 152 <sup>+0.06</sup> <sub>+0.00</sub> | 5 | 16 | 148.5 | 81   | 176 | 205 | 13   | ① K085.9.010<br>② K085.0.201 |
| type S | øD                                    | E | G  | L     | N    | O   | P   | Q    | kit code                     |
| F1     | 130 H7                                | 5 | 13 | 117.5 | 50   | 165 | 200 | 11.5 | ① KS085.9.012<br>② -         |
| F2     | 152 <sup>+0.06</sup> <sub>+0.00</sub> | 5 | 15 | 147.5 | 80   | 180 | 205 | 12.5 | ① KS085.9.013<br>② -         |
| F4     | 130 H7                                | 5 | 13 | 106.5 | 39   | 165 | 200 | 13   | ① KS085.9.015<br>② -         |

## R085FB...

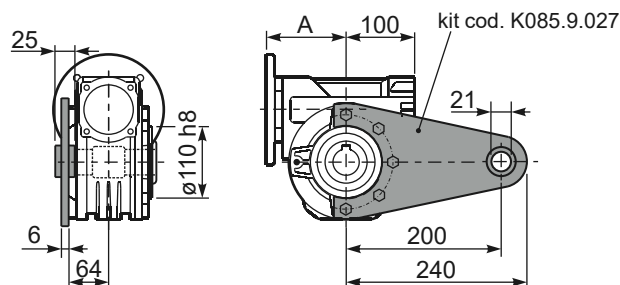
Input shaft  
Albero in entrata



|               | ød    | e  | g | l  | m   | x     | kit code                                                                     |
|---------------|-------|----|---|----|-----|-------|------------------------------------------------------------------------------|
| type <b>B</b> | 25 h6 | 28 | 8 | 50 | 112 | M8x20 | <div> <div>1</div> <div>2</div> </div> K085.5.007 PAM90<br>K085.5.008 PAM100 |
| type <b>S</b> | 24 h6 | 27 | 8 | 50 | 112 | M8x20 | <div> <div>1</div> <div>2</div> </div> K085.5.009 PAM90<br>K085.5.011 PAM100 |

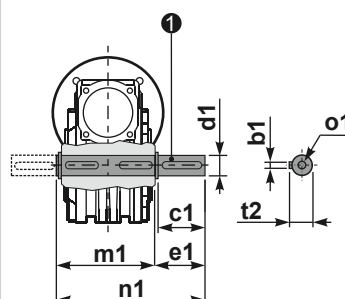
P085 **BR..**

Reaction arm  
Braccio di reazione



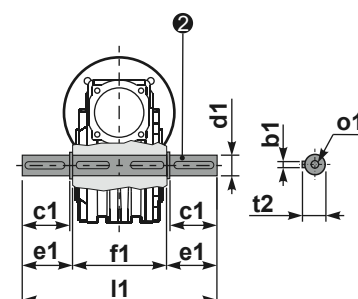
## P085.....S...

Single Shaft  
Albero lento semplice



## P085.....D...

Double Shaft  
• Albero lento bisp.



① kit cod. K085.5.028 type B

② kit cod. K085.5.029 type B

[illegible]