

Technical Data Sheet  
Gearbox  
WORM GEARBOX ROUND DESIGN



|                    |       |     |
|--------------------|-------|-----|
| MODEL              | 045   |     |
| Ø OUTPUT SHAFT     | 18    | mm  |
| APPROXIMATE RATIO  | 20    |     |
| EXACT RATIO        | 21.00 |     |
| OUTPUT SPEED       | 73    | RPM |
| EXACT OUTPUT SPEED | 70    | RPM |
| INPUT POWER        | 0.18  | KW  |
| INPUT ROTATION     | 1400  | RPM |
| INPUT PAM          | 63B14 |     |
| OUTPUT TORQUE      | 17.27 | N.m |
| NOMINAL TORQUE     | 41.00 | N.m |
| NOMINAL POWER      | 0.43  | KW  |
| SERVICE FACTOR     | 2.39  |     |
| DYNAMIC EFFICIENCY | 0.67  |     |



#### Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|-------|-------|-------|-------|-------|-------|
| 0.09  | 0.09  | 0.09  | 0.09  | 0.09  | 0.09  |

#### Radial and Axial Loads



| $n_2$ [min-1] | FA [N] | FR [N] |
|---------------|--------|--------|
| 200           | 180    | 900    |
| 100           | 220    | 1100   |
| 50            | 260    | 1400   |
| 15            | 400    | 2000   |

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

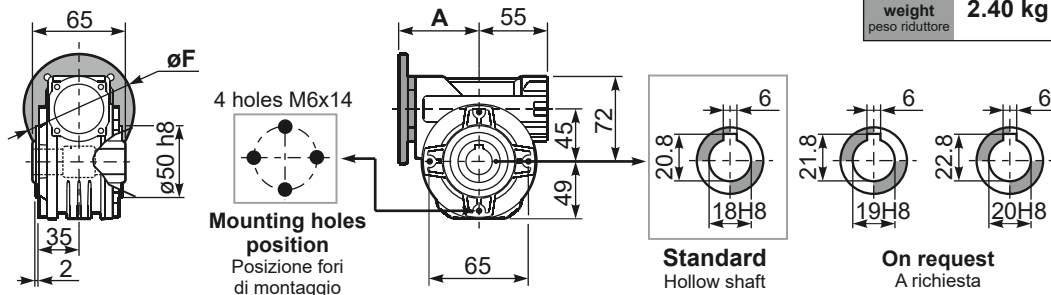
Universal Motors SL  
C/La Habana n.6 nave 4 PI Camporoso  
28806 Alcala de Henares  
[info@universalmotors-group.es](mailto:info@universalmotors-group.es)  
TEL.: 918 864 213

## P045FB...

Basic wormbox  
Riduttore baseGearbox  
weight  
peso riduttore

2.40 kg

| M. flanges | Kit code   | øF  | A    |
|------------|------------|-----|------|
| 63B5       | K050.4.041 | 138 | 74   |
| 71B5       | K050.4.042 | 160 | 71.5 |
| 56B14      | KC40.4.049 | 80  | 71.5 |
| 63B14      | K050.4.047 | 90  | 74   |
| 71B14      | K050.4.045 | 105 | 71.5 |



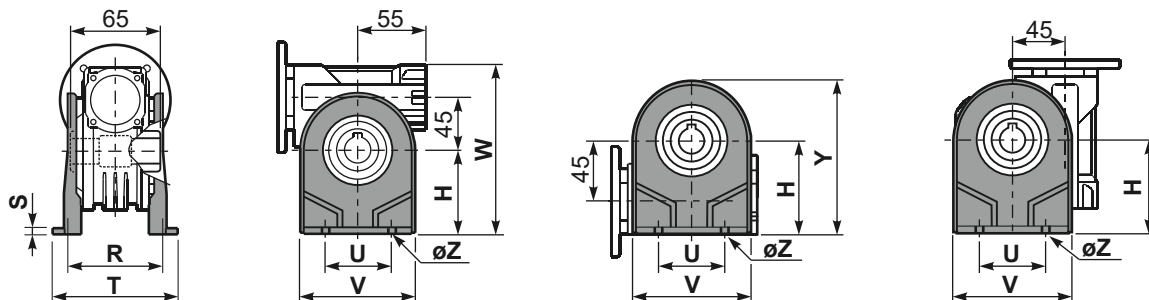
## P045PA...

Feet  
Piedini

## P045PB...

Feet  
Piedini

## P045PV...

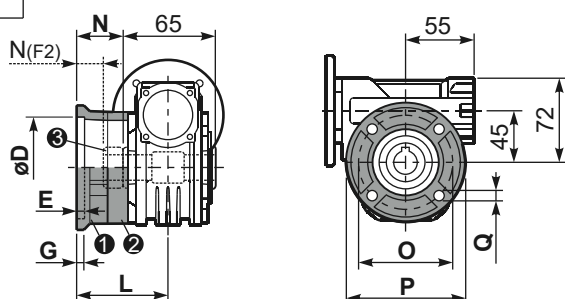
Feet  
Piedini

|        | H  | R  | S | T   | U  | V  | Y   | W   | øZ    | kit code    |
|--------|----|----|---|-----|----|----|-----|-----|-------|-------------|
| type B | 72 | 81 | 3 | 100 | 52 | 98 | 121 | 144 | ø10.5 | K045.9.022  |
| type S | 71 | 84 | 8 | 100 | 70 | 90 | 120 | 143 | ø8    | KS045.9.023 |

## P045FC...

Output flange  
Flangia uscita

## P045BR...

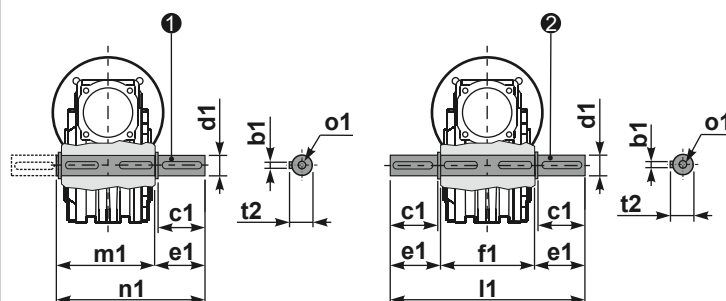
Reaction arm  
Braccio di reazione

| type B | øD                                   | E | G  | L    | N  | O   | P   | Q   | kit code                      |
|--------|--------------------------------------|---|----|------|----|-----|-----|-----|-------------------------------|
| FC     | 60 <sup>+0.15</sup> <sub>+0.05</sub> | 9 | 9  | 60.5 | 28 | 87  | 110 | 8.5 | ① K045.9.010<br>② -           |
| FL     | 60 <sup>+0.15</sup> <sub>+0.05</sub> | 9 | 9  | 90.5 | 58 | 87  | 110 | 8.5 | ① K045.9.010<br>② K045.0.200  |
| type S | øD                                   | E | G  | L    | N  | O   | P   | Q   | kit code                      |
| F1     | 95 <sup>+0.20</sup> <sub>+0.15</sub> | 4 | 11 | 73.5 | 41 | 115 | 140 | 9   | ① KS045.9.013<br>② -          |
| F2     | 60 <sup>+0.15</sup> <sub>+0.05</sub> | 9 | 9  | 60.5 | 19 | 87  | 110 | 8.5 | ① KS045.9.010<br>② S045.0.204 |
| F3     | 80 <sup>+0.15</sup> <sub>+0.10</sub> | 3 | 8  | 51.5 | 19 | 100 | 120 | 9   | ① KS045.9.014<br>② -          |

## P045.....S...

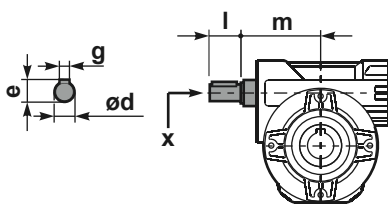
Single Shaft  
Albero lento semplice

## P045.....D...

Double Shaft  
Albero lento bisp.

- ① kit cod. K045.5.028 type B  
kit cod. KS045.5.030 type S
- ② kit cod. K045.5.029 type B

## R045FB...

Input shaft  
Albero in entrata

|        | ød    | e    | g | l  | m  | x | kit code                  |
|--------|-------|------|---|----|----|---|---------------------------|
| type B | 11 h6 | 12.5 | 4 | 30 | 68 | - | ① K045.5.006 PAM71<br>② - |
| type S | -     | -    | - | -  | -  | - | ① -<br>② -                |

|        | b1 | c1 | d1                                     | e1   | f1 | l1  | m1 | n1    | t2   | o1    |
|--------|----|----|----------------------------------------|------|----|-----|----|-------|------|-------|
| type B | 6  | 32 | 18 <sup>-0.005</sup> <sub>-0.020</sub> | 43   | 65 | 151 | 70 | 113   | 20.5 | M6x18 |
| type S | 6  | 40 | 19 <sup>-0.005</sup> <sub>-0.020</sub> | 58.8 | -  | -   | 70 | 128.5 | 21.5 | M8x20 |