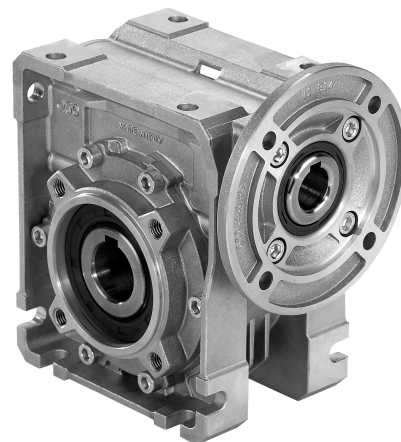


Technical Data Sheet  
Gearbox  
WORM GEARBOX SQUARE DESIGN



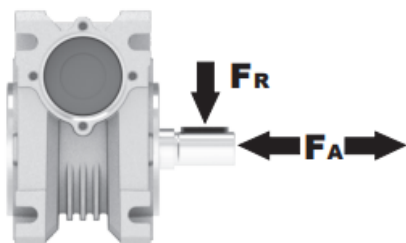
|                    |       |     |
|--------------------|-------|-----|
| MODEL              | M50   |     |
| Ø OUTPUT SHAFT     | 25    | mm  |
| APPROXIMATE RATIO  | 60    |     |
| EXACT RATIO        | 60.00 |     |
| OUTPUT SPEED       | 24    | RPM |
| EXACT OUTPUT SPEED | 24    | RPM |
| INPUT POWER        | 0.18  | KW  |
| INPUT ROTATION     | 1400  | RPM |
| INPUT PAM          | 63B5  |     |
| OUTPUT TORQUE      | 42.73 | N.m |
| NOMINAL TORQUE     | 62.00 | N.m |
| NOMINAL POWER      | 0.26  | KW  |
| SERVICE FACTOR     | 1.44  |     |
| DYNAMIC EFFICIENCY | 0.58  |     |



#### Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|-------|-------|-------|-------|-------|-------|
| 0.14  | 0.14  | 0.14  | 0.14  | 0.14  | 0.14  |

#### Radial and Axial Loads



| $n_2$ [min-1] | FA [N] | FR [N] |
|---------------|--------|--------|
| 200           | 240    | 1200   |
| 100           | 300    | 1500   |
| 50            | 380    | 1900   |
| 15            | 560    | 2800   |

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

## PM50FB...

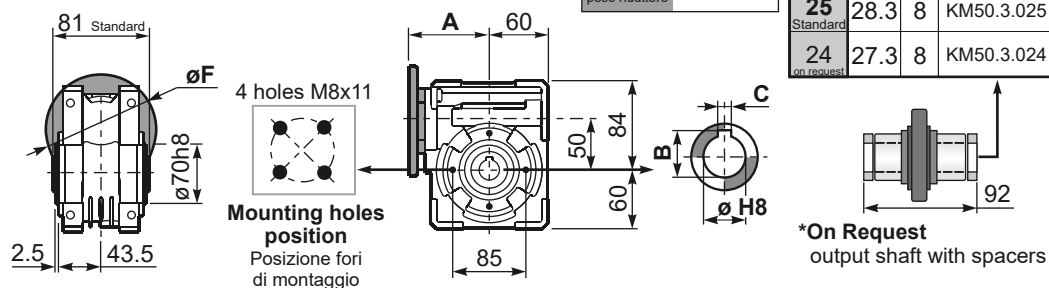
Basic wormbox  
Riduttore base

**Gearbox weight**  
peso riduttore

**3.25 kg**

| Ø H8                  | B    | C | *Spacer code |
|-----------------------|------|---|--------------|
| <b>25</b><br>Standard | 28.3 | 8 | KM50.3.025   |
| <b>24</b>             | 27.3 | 8 | KM50.3.024   |

| M. flanges   | Kit code   | ØF  | A    |
|--------------|------------|-----|------|
| <b>63B5</b>  | K050.4.041 | 138 | 83.5 |
| <b>71B5</b>  | K050.4.042 | 160 | 81   |
| <b>80B5</b>  | K050.4.043 | 200 | 81.5 |
|              |            |     |      |
| <b>56B14</b> | KC40.4.049 | 80  | 81   |
| <b>63B14</b> | K050.4.047 | 90  | 83.5 |
| <b>71B14</b> | K050.4.045 | 105 | 81   |
| <b>80B14</b> | K050.4.046 | 120 | 81.5 |

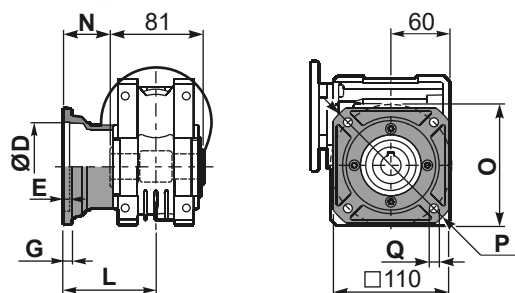


**\*On Request**  
output shaft with spacers

2

PM50**FC**...

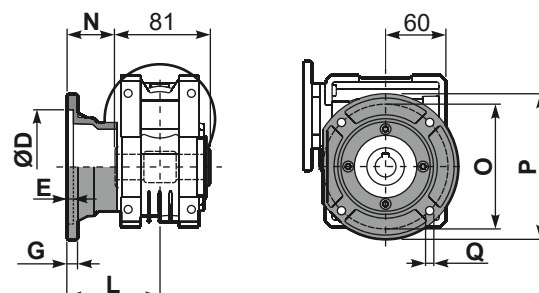
Square flange  
Flangia quadrata



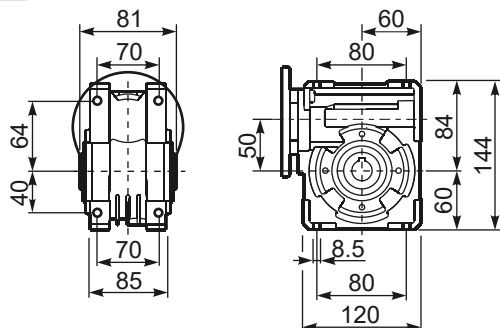
| type B | øD    | E | G | L   | N    | O  | P   | Q  | kit code   |
|--------|-------|---|---|-----|------|----|-----|----|------------|
| FC     | 70 H8 | 5 | 9 | 90  | 49.5 | 85 | 125 | 11 | KM50.9.010 |
| FL     | 70 H8 | 5 | 9 | 120 | 79.5 | 85 | 125 | 11 | KM50.9.011 |

PM50**F1**...

Round flange  
Flangia rotonda

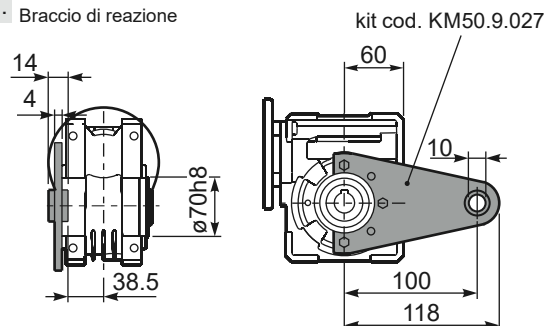


| type S    | øD     | E | G    | L  | N    | O   | P   | Q   | kit code   |
|-----------|--------|---|------|----|------|-----|-----|-----|------------|
| <b>F1</b> | 110 H8 | 5 | 10   | 89 | 48.5 | 130 | 160 | 9.5 | KM50.9.012 |
| <b>F2</b> | 95 H8  | 5 | 14.5 | 72 | 31.5 | 115 | 140 | 11  | KM50.9.013 |

PM50**FB**...Feet  
Piedini

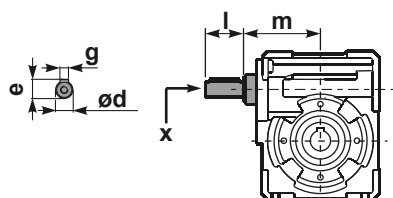
## PM50BR...

Reaction arm  
Braccio di reazione



## RM50FB...

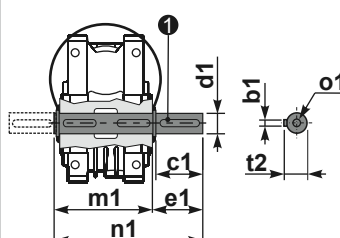
Input shaft  
Albero in entrata



|               | ød    | e  | g | l  | m    | x     | kit code                                   |
|---------------|-------|----|---|----|------|-------|--------------------------------------------|
| type <b>B</b> | 16 h6 | 18 | 5 | 30 | 79.5 | M6x16 | ① K050.5.006 PAM71<br>② K050.5.007 PAM80   |
| type <b>S</b> | 14 h6 | 16 | 5 | 30 | 79.5 | M5x10 | ① KS050.5.008 PAM71<br>② KS050.5.009 PAM80 |

PM50.....**S**...

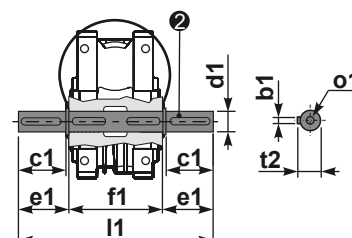
Single Shaft  
Albero lento semplice



① kit cod. K050.5.028 type B  
kit cod. KS050.5.030 type S

PM50.....**D**..

Double Shaft  
• Albero lento bisp.



② kit cod. K050.5.029 type B

|               | <b>b1</b> | <b>c1</b> | <b>d1</b>                       | <b>e1</b> | <b>f1</b> | <b>l1</b> | <b>m1</b> | <b>n1</b> | <b>t2</b> | <b>o1</b> |
|---------------|-----------|-----------|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>type B</b> | 8         | 52        | 25 <sup>-0.005<br/>-0.020</sup> | 59.5      | 81        | 200       | 86.5      | 146       | 28        | M8x20     |
| <b>type S</b> | 8         | 50        | 24 <sup>-0.005<br/>-0.020</sup> | 68.8      | -         | -         | 86.5      | 155       | 27        | M8x20     |