

Technical Data Sheet  
Gearbox  
HELLICAL BEVEL



|                    |           |
|--------------------|-----------|
| MODEL              | X32S      |
| Ø OUTPUT SHAFT     | 20 mm     |
| APPROXIMATE RATIO  | 18        |
| EXACT RATIO        | 18.04     |
| OUTPUT SPEED       | 81 RPM    |
| EXACT OUTPUT SPEED | 81 RPM    |
| INPUT POWER        | 0.55 KW   |
| INPUT ROTATION     | 1400 RPM  |
| INPUT PAM          | 80B14     |
| OUTPUT TORQUE      | 64.97 N.m |
| NOMINAL TORQUE     | 90.00 N.m |
| NOMINAL POWER      | 0.76 KW   |
| SERVICE FACTOR     | 1.38      |
| DYNAMIC EFFICIENCY | 0.96      |

Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|-------|-------|-------|-------|-------|-------|
| 0.4   | 0.6   | 0.4   | 0.6   | 0.85  | 0.6   |

Radial and Axial Loads



| $n_2$ [min-1] | $F_A$ [N] | $F_R$ [N] |
|---------------|-----------|-----------|
| 250           | 400       | 2000      |
| 100           | 500       | 2500      |
| 50            | 560       | 2800      |
| 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

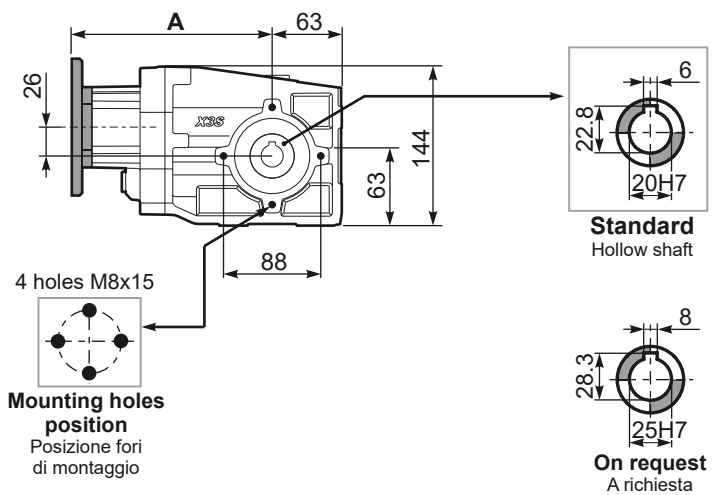
**P**X32SC...

## Basic Gearbox

### Riduttore base

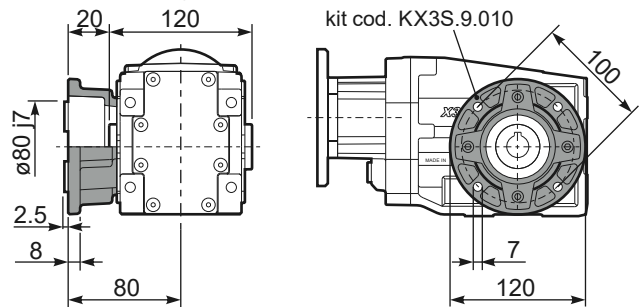
|                                         |                |
|-----------------------------------------|----------------|
| <b>Gearbox weight</b><br>peso riduttore | <b>6.30 kg</b> |
|-----------------------------------------|----------------|

| M. flanges     | Kit code   | ØF  | A   |
|----------------|------------|-----|-----|
| <b>63B5</b>    | K063.4.041 | 140 | 184 |
| <b>71B5</b>    | K063.4.042 | 160 | 182 |
| <b>80/90B5</b> | K063.4.043 | 200 | 184 |
|                |            |     |     |
| <b>71B14</b>   | K063.4.047 | 105 | 182 |
| <b>80B14</b>   | K063.4.046 | 120 | 184 |
| <b>90B14</b>   | K063.4.041 | 140 | 184 |

PX32S...**FB..**Feet  
Piedini

PX32S...**F1**.. Output flange  
Flangia uscita

- Flangia uscita



PX32S...-F2.. Output flange  
Flangia uscita

Flangia uscita



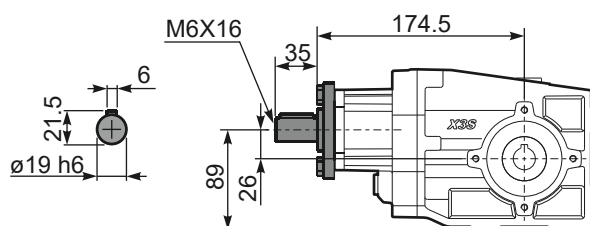
|                       |                                     |
|-----------------------|-------------------------------------|
| PX32S... <b>BR</b> .. | Reaction Arm<br>Braccio di reazione |
|-----------------------|-------------------------------------|

- Braccio di reazione



## Rx32S...

Input shaft  
Albero in entrata



**PX32SA..** Single output shaft  
Albero semplice in uscita

## Albero semplice in uscita



| d1                               | b1 | c1   | e1   | m1    | n1  | t2   | o1    | ❶ kit code |
|----------------------------------|----|------|------|-------|-----|------|-------|------------|
| ø20 k6                           | 6  | 37.5 | 40   | 120   | 160 | 22.5 | M8x20 | KX2S.5.028 |
| ø25 <sup>-0.005<br/>-0.020</sup> | 8  | 60   | 63.2 | 126.8 | 190 | 28   | M8x20 | K063.5.028 |