

# X62N

410Nm

## BVN Series

## Full stainless steel helical gearboxes

The dynamic efficiency is 0.96 for all ratios

Input speed (n<sub>1</sub>) = 1400 min<sup>-1</sup>

| Output speed                        | Ratio | Motor power          | Output torque        | Service factor | Nominal power        | Nominal torque       | B5 motor flanges |   | B14 motor flanges |    |         |  |  |  |
|-------------------------------------|-------|----------------------|----------------------|----------------|----------------------|----------------------|------------------|---|-------------------|----|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| n <sub>2</sub> [min <sup>-1</sup> ] | i     | P <sub>1M</sub> [kW] | M <sub>2M</sub> [Nm] | f.s            | P <sub>1R</sub> [kW] | M <sub>2R</sub> [Nm] | -                | - | -R                | -T | -U      |                                                                                     |                                                                                     |                                                                                     |
|                                     |       |                      |                      |                |                      |                      | -                | - | 80                | 90 | 100-112 |                                                                                     |                                                                                     |                                                                                     |
| 232                                 | 6.03  | 4                    | 155                  | 1.6            | 6.1                  | 240                  |                  |   |                   |    |         | 3011                                                                                | standard<br>ø35                                                                     | 01                                                                                  |
| 151                                 | 9.26  | 4                    | 238                  | 1.1            | 4.5                  | 270                  |                  |   |                   |    |         | 308                                                                                 |                                                                                     | 02                                                                                  |
| 123                                 | 11.36 | 4                    | 291                  | 1.2            | 4.7                  | 350                  |                  |   |                   |    |         | 2011                                                                                |                                                                                     | 03                                                                                  |
| 91                                  | 15.36 | 4                    | 394                  | 1.0            | 3.8                  | 385                  |                  |   |                   |    |         | 1611                                                                                |                                                                                     | 04                                                                                  |
| 80                                  | 17.46 | 3                    | 448                  | 0.9            | 3.5                  | 400                  |                  |   |                   |    |         | 208                                                                                 |                                                                                     | 05                                                                                  |
| 70                                  | 19.97 | 3                    | 386                  | 1.1            | 3.1                  | 410                  |                  |   |                   |    |         | 1311                                                                                |                                                                                     | 06                                                                                  |
| 59                                  | 23.60 | 3                    | 456                  | 0.9            | 2.7                  | 410                  |                  |   |                   |    |         | 168                                                                                 |                                                                                     | 07                                                                                  |
| 57                                  | 24.45 | 2.2                  | 472                  | 0.9            | 2.6                  | 410                  |                  |   |                   |    |         | 1111                                                                                |                                                                                     | 08                                                                                  |
| 45.6                                | 30.69 | 1.5                  | 436                  | 0.9            | 2.0                  | 410                  |                  |   |                   |    |         | 138                                                                                 |                                                                                     | 09                                                                                  |
| 39.6                                | 35.35 | 1.5                  | 346                  | 1.2            | 1.8                  | 410                  |                  |   |                   |    |         | 811                                                                                 |                                                                                     | 10                                                                                  |
| 37.3                                | 37.57 | 1.1                  | 368                  | 1.1            | 1.7                  | 410                  |                  |   |                   |    |         | 118                                                                                 |                                                                                     | 11                                                                                  |
| 28.8                                | 48.68 | 1.1                  | 348                  | 1.0            | 1.1                  | 365                  |                  |   |                   |    |         | 611                                                                                 |                                                                                     | 12                                                                                  |
| 25.8                                | 54.33 | 0.75                 | 389                  | 1.1            | 1.2                  | 410                  |                  |   |                   |    |         | 88                                                                                  |                                                                                     | 13                                                                                  |
| 18.7                                | 74.81 | 0.12*                | 367                  | 1.0            | 0.73                 | 360                  |                  |   |                   |    |         | 68                                                                                  |                                                                                     | 14                                                                                  |

Motor flanges available



B) Supplied with reduction bushing

B) Available on request without reduction bushing



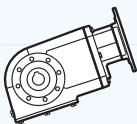
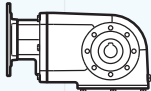
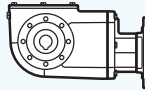
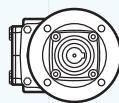
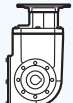
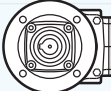
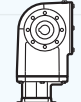
C) Motor flange holes position

### Lubrication

Unit X62N is supplied with synthetic oil to assure long life lubrication.

Food grade oil is available on request.

See Table 1 for lubrication and recommended quantity.  
See Table 2 for possible radial and axial loads on the gearbox.

|                                    |                                                                                     |                                      |                                                                                     |
|------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|
| <b>Shell</b><br>Omala S4<br>WE 320 | <b>Eni</b><br>Telium VSF<br>320                                                     | <b>V8</b><br>On<br>request<br>ASK    |  |
| <b>B3</b><br>Standard<br>1.05 L    |  | <b>B8</b><br>On<br>request<br>1.90 L |  |
| <b>B6</b><br>On request<br>1.85 L  |  | <b>V5</b><br>On<br>request<br>3.20 L |  |
| <b>B7</b><br>On request<br>1.70 L  |  | <b>V6</b><br>On<br>request<br>2.25 L |  |

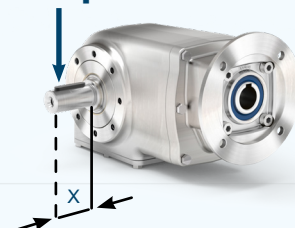
### Radial and axial loads

Output shaft

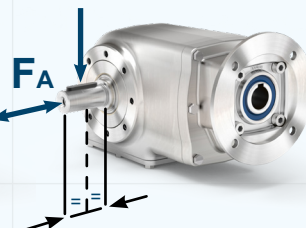
| n <sub>2</sub> [min <sup>-1</sup> ] | F <sub>a</sub> [N] | F <sub>r</sub> [N] |
|-------------------------------------|--------------------|--------------------|
| 250                                 | 600                | 3000               |
| 150                                 | 700                | 3500               |
| 100                                 | 780                | 3900               |
| 75                                  | 890                | 4450               |
| 50                                  | 1140               | 5700               |
| 25                                  | 1330               | 6650               |
| 15                                  | 1660               | 8300               |

$$F_{eq} = F_R \cdot \frac{168}{X + 138}$$

F<sub>eq</sub>



F<sub>R</sub>



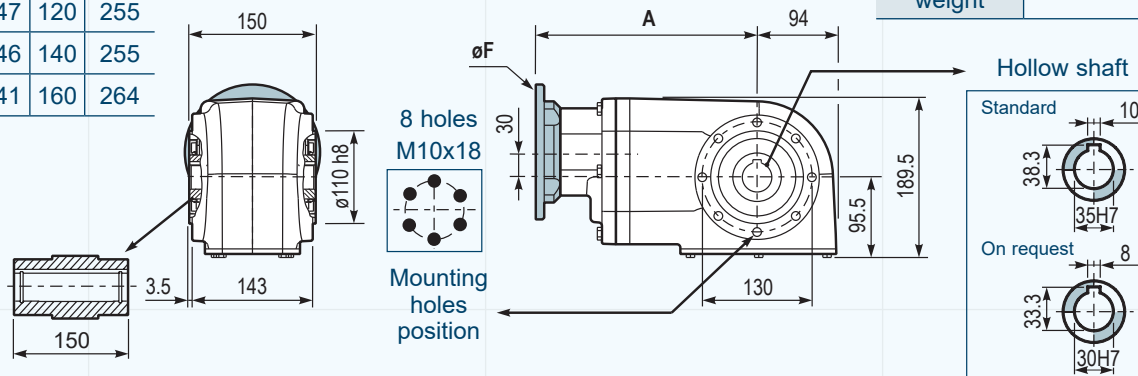
## PX62NI FB

Basic gearbox

| M. flanges | Kit code | øF  | A   |
|------------|----------|-----|-----|
| 80B14      | KI854047 | 120 | 255 |
| 90B14      | KI854046 | 140 | 255 |
| 100-112B14 | KI854041 | 160 | 264 |

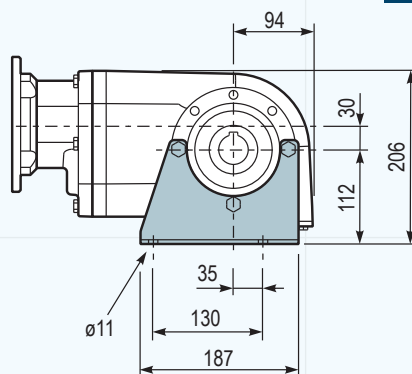
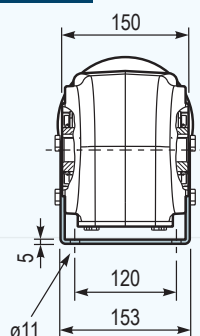
Gearbox weight

23.2 kg



## PX62N PA

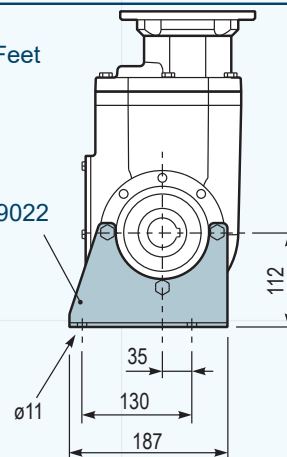
Feet



## PX62N PV

Feet

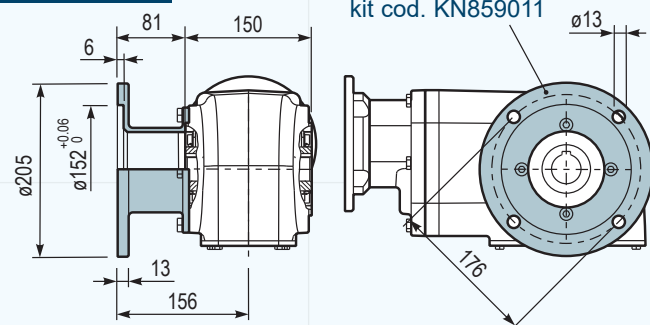
kit cod. KX6N9022



## PX62N-FL

Output flange

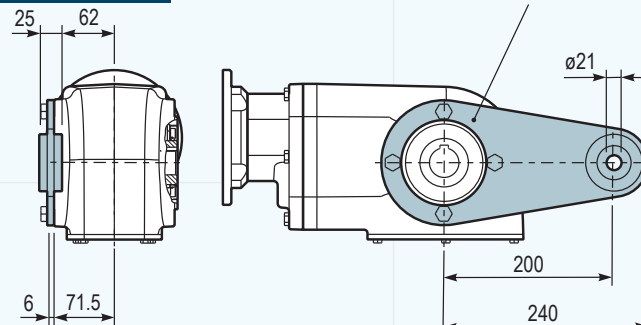
kit cod. KN859011



## PX62N BR

Reaction arm

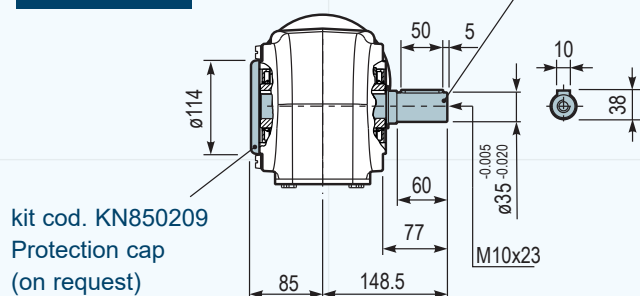
kit cod. KN859027



## PX62N A

Single output shaft

kit cod. KIX6A5028



## Suggested

Stainless steel protection cap  
( on request ).

kit cod. KN850209

