




The dynamic efficiency is **0.92** for all ratios

Input speed ( $n_1$ ) = 1750 min<sup>-1</sup>

| Output speed<br>$n_2$ [min <sup>-1</sup> ] | Ratio<br>$i$ | Motor power<br>$P_{1M}$ [HP] | Output torque<br>$M_{2M}$ [lb in] | Service factor<br>$f.s$ | Nominal power<br>$P_{1R}$ [HP] | Nominal torque<br>$M_{2R}$ [lb in] | Available NEMA motor flanges |               |  | Output shaft<br> | Ratio code<br> |
|--|--------------|------------------------------|-----------------------------------|-------------------------|--------------------------------|------------------------------------|------------------------------|---------------|---|---|---|
|  |              |                              |                                   |                         |                                |                                    | -W<br>56C                    | -X<br>143-5TC |   |   |   |
| 23.4                                       | 74.79        | 2                            | 4956                              | 1.2                     | 2.41                           | 5974                               |                              |               |   |   | 01  |
| 20.4                                       | 85.99        | 2                            | 5699                              | 1.0                     | 2.10                           | 5974                               |                              |               |   |   | 02  |
| 17.6                                       | 99.66        | 1.5                          | 4954                              | 1.2                     | 1.81                           | 5974                               |                              |               |   |   | 03  |
| 15.0                                       | 116.35       | 1.5                          | 5783                              | 1.0                     | 1.55                           | 5974                               |                              |               |   |   | 04  |
| 14.4                                       | 121.45       | 1.5                          | 6037                              | 1.0                     | 1.48                           | 5974                               |                              |               |   |   | 05  |
| 12.5                                       | 139.64       | 1                            | 4627                              | 1.3                     | 1.29                           | 5974                               |                              |               |   |   | 06  |
| 11.5                                       | 152.21       | 1                            | 5043                              | 1.2                     | 1.18                           | 5974                               |                              |               |   |   | 07  |
| 10.7                                       | 163.02       | 1                            | 5402                              | 1.1                     | 1.11                           | 5974                               |                              |               |   |   | 08  |
| 9.8  | 177.69       | 1                            | 5888                              | 1.0                     | 1.01                           | 5974                               |                              |               |   |   | 09  |
| 8.5  | 205.95       | 0.75                         | 5118                              | 1.2                     | 0.88                           | 5974                               |                              |               |   |   | 10  |
| 7.9  | 222.52       | 0.75                         | 5530                              | 1.1                     | 0.81                           | 5974                               |                              |               |   |   | 11  |
| 7.0  | 248.76       | 0.75                         | 6182                              | 1.0                     | 0.72                           | 5974                               |                              |               |   |   | 12  |
| 6.0  | 290.41       | 0.5                          | 4812                              | 1.2                     | 0.62                           | 5974                               |                              |               |   |   | 13  |
| 5.2  | 337.39       | 0.5                          | 5590                              | 1.1                     | 0.53                           | 5974                               |                              |               |   |   | 14  |
| 4.4  | 393.88       | 0.5                          | 6526                              | 0.9                     | 0.46                           | 5974                               |                              |               |   |   | 15  |
| 4.0  | 440.33       | 0.33                         | 4815                              | 1.2                     | 0.41                           | 5974                               |                              |               |   |   | 16  |
| 3.4  | 514.06       | 0.33                         | 5621                              | 1.1                     | 0.35                           | 5974                               |                              |               |   |   | 17  |
| 3.0  | 581.44       | 0.25                         | 4817                              | 1.2                     | 0.31                           | 5974                               |                              |               |   |   | 18  |
| 2.6  | 678.79       | 0.25                         | 5623                              | 1.1                     | 0.27                           | 5974                               |                              |               |   |   | 19  |

\* Power higher than the maximum one which can be supported by the gearbox. Select according to the torque  $M_{2R}$   
Potenza superiore a quella massima sopportabile dal riduttore. Selezionare in base al momento torcente  $M_{2R}$

-  **Motor flanges available**  
Flange motore disponibili
-  **B) Supplied with reduction bushing**  
Fornito con bussola di riduzione
-  **B) Available on request without reduction bushing**  
Disponibile a richiesta senza bussola di riduzione
-  **C) Motor flange holes position**  
Posizione fori flangia motore

## Lubrication

### Lubrificazione

Unit X74N 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.

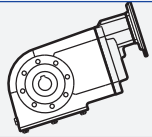
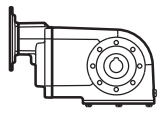
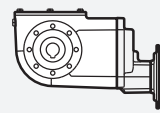
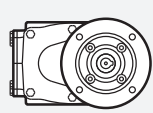
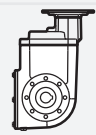
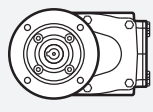
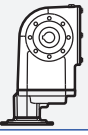
See Table 2 for possible radial and axial loads on the gearbox.

Il riduttore tipo X74N viene fornito con olio sintetico e lubrificazione tipo "long life".

Disponibile a richiesta olio alimentare.

Vedi Tabella 1 per oli e quantità consigliati.

Vedi Tabella 2 per i carichi radiali e assiali applicabili al riduttore.

|                                     |   |                                      |   |
|-------------------------------------|---|--------------------------------------|---|
| <b>Shell</b><br>Omala S4 WE 320     | <b>Eni</b><br>Telium VSF 320  | <b>V8</b><br>On request<br>ASK       |  |
| <b>B3</b><br>Standard<br>91.51 oz   |  | <b>B8</b><br>On request<br>102.07 oz |  |
| <b>B6</b><br>On request<br>98.55 oz |  | <b>V5</b><br>On request<br>168.94 oz |  |
| <b>B7</b><br>On request<br>73.91 oz |  | <b>V6</b><br>On request<br>116.14 oz |  |

For more details on lubrication and plugs check our website.  
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web.

## Radial and axial loads

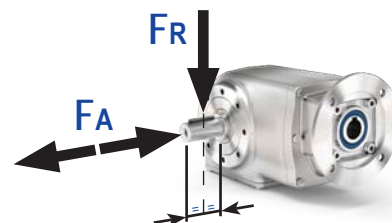
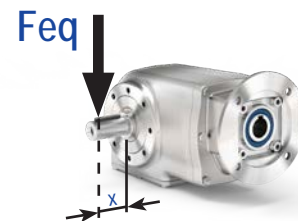
### Carichi radiali e assiali

## Output shaft

### Albero di uscita

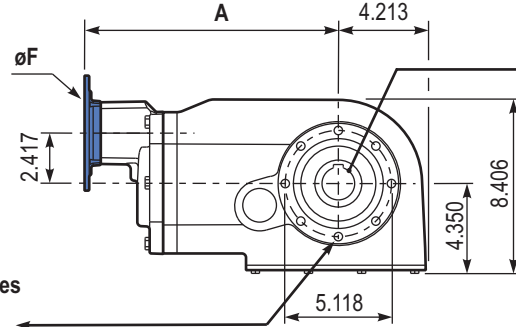
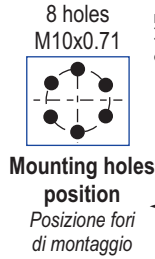
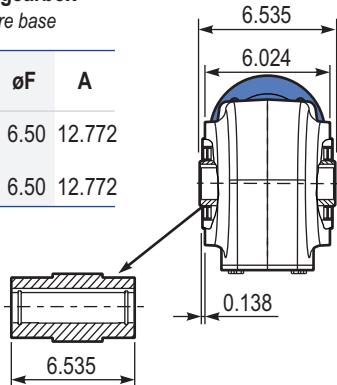
| $n_2$ [min <sup>-1</sup> ] | FA [lb] | FR [lb] |
|----------------------------|---------|---------|
| 300                        | 306     | 1529    |
| 250                        | 315     | 1574    |
| 200                        | 324     | 1619    |
| 140                        | 333     | 1664    |
| 120                        | 342     | 1709    |
| 85                         | 351     | 1754    |
| 70                         | 387     | 1933    |
| 40                         | 414     | 2068    |
| 15                         | 432     | 2158    |

$$F_{eq} = F_R \cdot \frac{7.03}{X + 5.65}$$

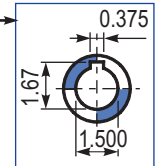


**PX74NI...FB** Basic gearbox  
*Riduttore base*

| M. flanges | Kit code  | øF   | A      |
|------------|-----------|------|--------|
| 56C        | KUI634041 | 6.50 | 12.772 |
| 143/5 TC   | KUI634041 | 6.50 | 12.772 |

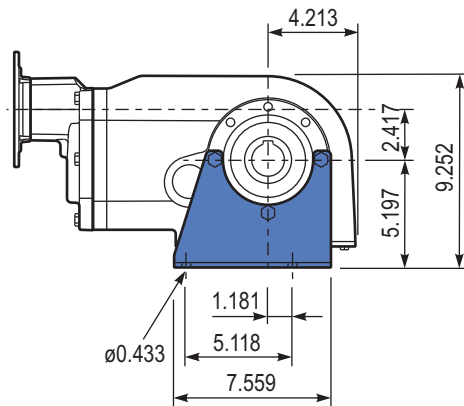
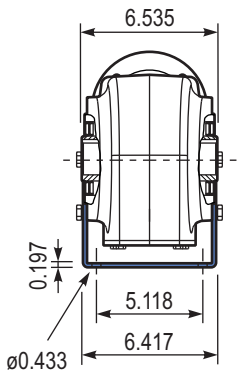


Gearbox weight  
peso riduttore **68.3 lb**

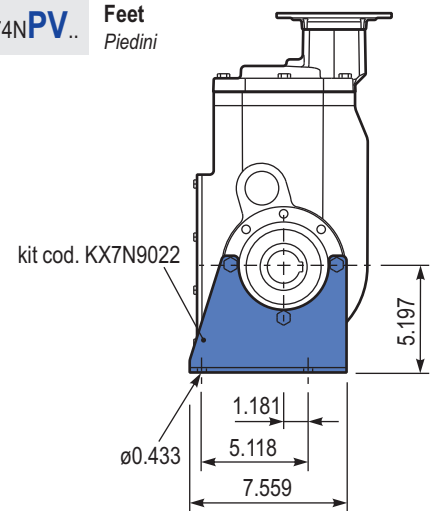


Standard Hollow shaft  
*Foro in uscita standard*

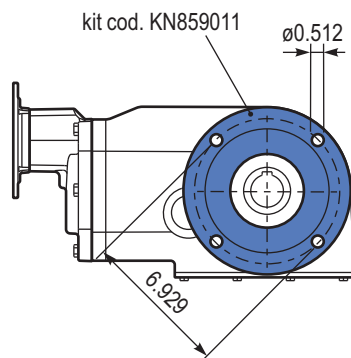
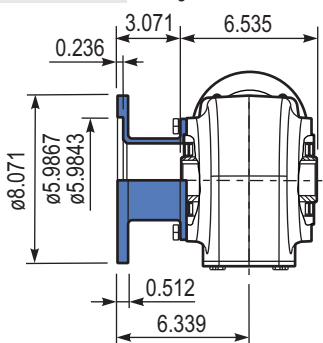
**PX74NPA..** Feet  
*Piedini*



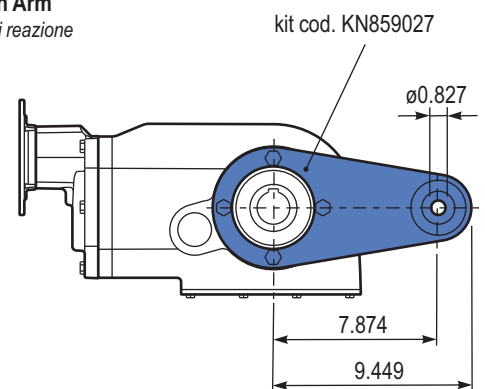
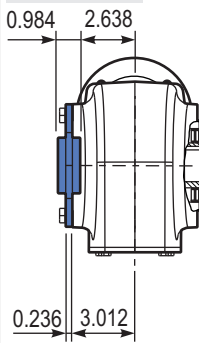
**PX74NPV..** Feet  
*Piedini*



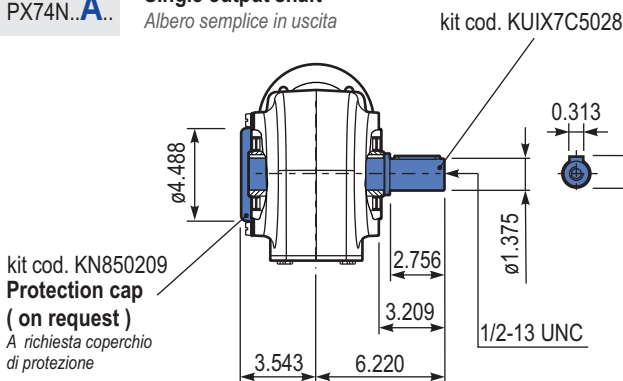
**PX74NFL..** Output flange  
*Flangia uscita*



**PX74NBR..** Reaction Arm  
*Braccio di reazione*



**PX74NA..** Single output shaft  
*Albero semplice in uscita*



**Suggested**  
*Suggerito*

Stainless steel protection cap  
(on request).

*Coperchio di protezione in acciaio inox a richiesta.*

Kit cod. KN850209

