




### D45 Ratios/Rating

Rapporti/Selezione D45

| Ratio          | Max output torque<br><b>** M<sub>2R</sub></b> [Nm] | Tooth module<br> [mm] | Standard input bore | Ratio code<br> |
|----------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------|
| i <sub>a</sub> |                                                    |                                                                                                        |                     |                                                                                                 |
| 7              | 35                                                 | 2.2                                                                                                    | ø14                 | 01                                                                                              |
| 10             | 35                                                 | 2.2                                                                                                    | ø14                 | 02                                                                                              |
| 14             | 35                                                 | 2.4                                                                                                    | ø14                 | 03                                                                                              |
| 21             | 47                                                 | 1.6                                                                                                    | ø14                 | 04                                                                                              |
| 28             | 47                                                 | 2.5                                                                                                    | ø14                 | 05                                                                                              |
| 37             | 47                                                 | 1.8                                                                                                    | ø14                 | 06                                                                                              |
| 46             | 47                                                 | 1.5                                                                                                    | ø14                 | 07                                                                                              |
| 60             | 47                                                 | 1.2                                                                                                    | ø14                 | 08                                                                                              |
| 70             | 35                                                 | 1.0                                                                                                    | ø14                 | 09                                                                                              |
| 102            | 34                                                 | 0.72                                                                                                   | ø14                 | 10                                                                                              |

### 211D Ratios/Power

Rapporti/potenza 211D

| Ratio          | Max input power<br><b>** P<sub>1M</sub></b> [kW] | Standard output shaft<br> | Ratios code |
|----------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------|
| i <sub>b</sub> |                                                  |                                                                                                            |             |
| 2.05           | 0.37                                             | ø14                                                                                                        | 01          |
| 2.35           | 0.37                                             | ø14                                                                                                        | 02          |
| 2.80           | 0.37                                             | ø14                                                                                                        | 03          |
| 3.38           | 0.37                                             | ø14                                                                                                        | 04          |
| 4.70           | 0.37                                             | ø14                                                                                                        | 05          |
| 6.22           | 0.37                                             | ø14                                                                                                        | 06          |
| 8.29           | 0.37                                             | ø14                                                                                                        | 07          |
| 9.83           | 0.25                                             | ø14                                                                                                        | 08          |



### 211D Motor flanges

Flange motore 211D

|       | Kit code | g6  | A    |
|-------|----------|-----|------|
| 63B5  | KD454041 | 138 | 99.5 |
| 71B5  | KD454042 | 160 | 97   |
| 56B14 | KD454049 | 80  | 97   |
| 63B14 | KD454047 | 90  | 99.5 |
| 71B14 | KD454045 | 105 | 97   |

### How to connect D45+211D

Come collegare D45 + 211D

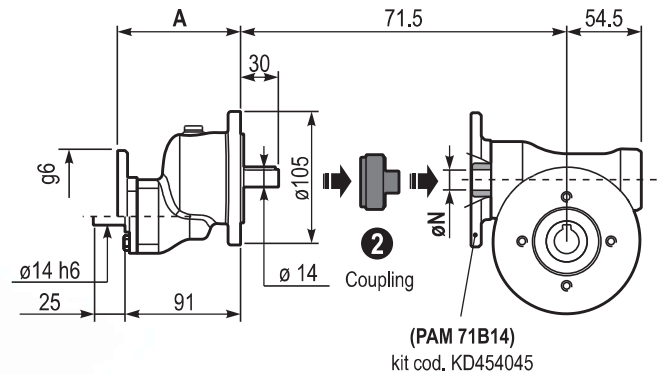
| Worm gearbox          |              | Ratio multiplier         | Connection kit                                                                      |                                                                                     |
|-----------------------|--------------|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Standard input bore   | Output shaft | With standard input bore | With coupling                                                                       |                                                                                     |
| D45                   | øN           | 211D                     |  |  |
| Ratios from 1/7÷1/102 | ø14          | ø14                      | Reduction bushing is not necessary                                                  | KB14P                                                                               |

D45 weight  
Peso D45

2.40 kg

211D weight  
Peso 211D

1.40 kg



### Ratios range: from 1/14 to 1/1003

Range rapporti: da 1/14 a 1/1003

### Lubrication

Lubrificazione

Unit **D45+211D** 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.

Il riduttore tipo **D45+211D** viene fornito con olio sintetico e lubrificazione tipo "long life".

Disponibile a richiesta olio alimentare. Vedi Tabella 1 per oli e quantità consigliati.

For all details on lubrication and plugs check our website.

Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web.

|              |                        |                     |
|--------------|------------------------|---------------------|
| D45: 0.09 L  | SHELL: Omala S4 WE 320 | ENI: Telium VSF 320 |
| 211D: 0.05 L | SHELL: Omala S4 WE 320 | ENI: Telium VSF 320 |

### Calculate total ratio and output speed

Calcola il rapporto totale e la velocità di uscita

#### Ratios range: from 1/14 to 1/1003

Range rapporti: da 1/14 a 1/1003

$$i_{TOT} = i_a \cdot i_b$$

Ex.: 1/102 x 1/9.83 = 1/1003 (Max ratio)

#### Output speed (n<sub>2</sub>)

Velocità di uscita

$$n_2 = n_1 : i_{TOT}$$

Ex.: 1448 : 1003 = 1.44 rpm

i<sub>a</sub> : D45 ratio - Rapporto D45

i<sub>b</sub> : 211D ratio - Rapporto 211D

\*\* Make sure input power for 211D and output torque for D45 is as catalogue ratios.

\*\* Prestare attenzione a selezionare la potenza in entrata del 211D ed il momento torcente del D45 secondo le tabelle del catalogo.

n<sub>1</sub> Input speed

Velocità di ingresso