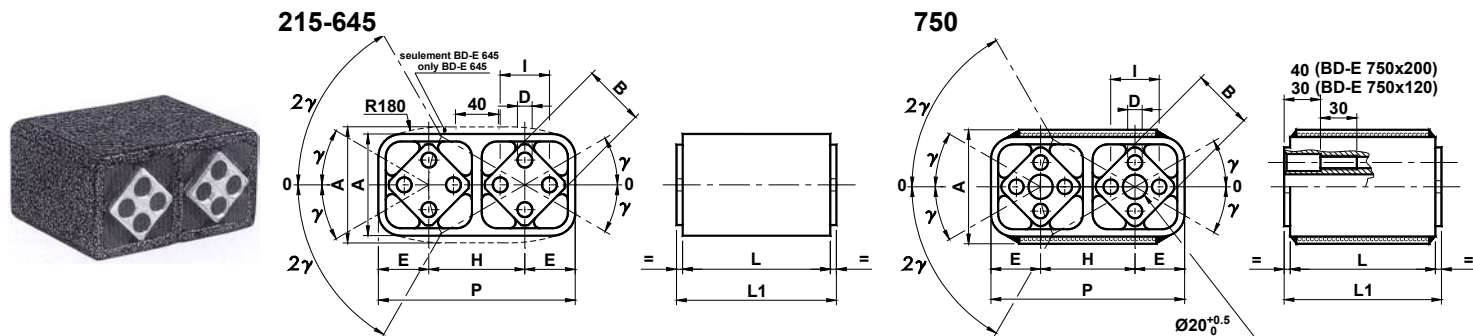


Elementi elastici BD-E / BD-E Elastic elements



| Tipo Type | Cod. n° | A | B | D ^{+0.5} / _{+0.0} | E | H | I | P | L | L1 ^{+0.0} / _{-0.3} | Carico di Torsione M _t in Nm con $\epsilon \gamma$ | | | | | | Peso Weight [kg] |
|----------------|----------|----------|----|-------------------------------------|------|------|---------|---|-----|--------------------------------------|---|-------|-------|-------|-------|--------|------------------------|
| | | | | | | | | | | | Torque M _t in Nm at $\epsilon \gamma$ | | | | | | |
| BD-E 215 x 25 | CE071745 | 27 ±0.15 | 15 | 5 | 13.5 | 25.5 | 10 ±0.2 | 52.5 ±0.20 | 25 | 30 | 0.7 | 1.6 | 2.5 | 3.8 | 5.4 | 7.8 | 0.09 |
| BD-E 215 x 40 | CE071746 | 27 ±0.15 | 15 | 5 | 13.5 | 25.5 | 10 ±0.2 | 52.5 ±0.20 | 40 | 45 | 1.1 | 2.5 | 4.0 | 6.1 | 8.7 | 12.5 | 0.14 |
| BD-E 215 x 60 | CE071747 | 27 ±0.15 | 15 | 5 | 13.5 | 25.5 | 10 ±0.2 | 52.5 ±0.20 | 60 | 65 | 1.6 | 3.8 | 6.0 | 9.2 | 13.0 | 18.8 | 0.19 |
| BD-E 318 x 30 | CE071750 | 35 ±0.15 | 18 | 6 | 16.0 | 31.0 | 12 ±0.3 | 66.0 ^{+0.20} / _{+0.00} | 30 | 35 | 1.8 | 4.2 | 7.0 | 10.5 | 14.3 | 19.5 | 0.16 |
| BD-E 318 x 50 | CE071751 | 35 ±0.15 | 18 | 6 | 16.0 | 31.0 | 12 ±0.3 | 66.0 ^{+0.20} / _{+0.00} | 50 | 55 | 3.0 | 7.0 | 11.7 | 17.5 | 23.8 | 32.5 | 0.25 |
| BD-E 318 x 80 | CE071752 | 35 ±0.15 | 18 | 6 | 16.0 | 31.0 | 12 ±0.3 | 66.0 ^{+0.20} / _{+0.00} | 80 | 85 | 4.8 | 11.2 | 18.9 | 28.0 | 38.2 | 52.0 | 0.35 |
| BD-E 427 x 40 | CE071755 | 45 ±0.15 | 27 | 8 | 22.5 | 44.0 | 20 ±0.4 | 89.0 ^{+0.20} / _{+0.00} | 40 | 45 | 4.7 | 10.2 | 16.5 | 25.6 | 37.6 | 54.2 | 0.38 |
| BD-E 427 x 60 | CE071756 | 45 ±0.15 | 27 | 8 | 22.5 | 44.0 | 20 ±0.4 | 89.0 ^{+0.20} / _{+0.00} | 60 | 65 | 6.8 | 15.3 | 24.8 | 38.4 | 56.4 | 81.3 | 0.54 |
| BD-E 427 x 100 | CE071757 | 45 ±0.15 | 27 | 8 | 22.5 | 44.0 | 20 ±0.4 | 89.0 ^{+0.20} / _{+0.00} | 100 | 105 | 11.8 | 25.5 | 41.2 | 64.0 | 94.0 | 135.5 | 0.85 |
| BD-E 538 x 60 | CE071760 | 68 ±0.20 | 38 | 10 | 30.0 | 60.0 | 25 ±0.4 | 120.0 ^{+0.30} / _{+0.00} | 60 | 70 | 12.4 | 29.0 | 48.2 | 74.0 | 107.5 | 153.5 | 0.95 |
| BD-E 538 x 80 | CE071761 | 68 ±0.20 | 38 | 10 | 30.0 | 60.0 | 25 ±0.4 | 120.0 ^{+0.30} / _{+0.00} | 80 | 90 | 16.5 | 38.7 | 64.3 | 98.7 | 143.4 | 204.7 | 1.25 |
| BD-E 538 x 120 | CE071762 | 68 ±0.20 | 38 | 10 | 30.0 | 60.0 | 25 ±0.4 | 120.0 ^{+0.30} / _{+0.00} | 120 | 130 | 24.7 | 58.0 | 96.4 | 148.0 | 215.0 | 307.0 | 1.71 |
| BD-E 645 x 80 | CE071765 | 82 ±0.20 | 45 | 12 | 36.0 | 73.0 | 35 ±0.5 | 145.0 ^{+0.40} / _{+0.00} | 80 | 90 | 26.4 | 60.0 | 98.6 | 152.4 | 210.5 | 302.0 | 1.69 |
| BD-E 645 x 100 | CE071766 | 82 ±0.20 | 45 | 12 | 36.0 | 73.0 | 35 ±0.5 | 145.0 ^{+0.40} / _{+0.00} | 100 | 110 | 33.0 | 75.0 | 123.2 | 190.5 | 263.1 | 377.5 | 2.21 |
| BD-E 645 x 150 | CE071767 | 82 ±0.20 | 45 | 12 | 36.0 | 73.0 | 35 ±0.5 | 145.0 ^{+0.40} / _{+0.00} | 150 | 160 | 49.5 | 112.5 | 184.8 | 285.8 | 394.6 | 566.3 | 3.32 |
| BD-E 750 x 120 | CE071770 | 90 ±0.20 | 50 | M12 | 39.0 | 78.0 | 40 ±0.5 | 156.0 ^{+0.40} / _{+0.00} | 120 | 130 | 50.0 | 121.0 | 225.0 | 356.0 | 513.0 | 741.0 | 5.95 |
| BD-E 750 x 200 | CE071771 | 90 ±0.20 | 50 | M12 | 39.0 | 78.0 | 40 ±0.5 | 156.0 ^{+0.40} / _{+0.00} | 200 | 210 | 100.0 | 237.0 | 428.0 | 670.0 | 963.0 | 1378.0 | 9.82 |

Dalla grandezza 215 alla 645 il corpo esterno e i profili interni sono in alluminio. Nella grandezza 645 il corpo esterno è convesso. Nella grandezza 750 il corpo esterno è realizzato in acciaio saldato mentre i profili interni sono in alluminio. Per l'accoppiamento con il profilo interno vanno utilizzati dei bulloni passanti fino alla grandezza 645 e viti laterali per il tipo 750. Caratteristica di questo elemento è la possibilità di avere un angolo di rotazione doppio (60°) sfruttando la rotazione di entrambi gli elementi.

From the size 215 to the size 645 the external body and the inner shapes are made of aluminium. In the size 645 the external body has a convex shape. In the size 750 the external body is made of steel instead the inner shapes are made of aluminium. For the coupling with the inner shape You have to used through bolts until 645 size and lateral screws for the 750 type. The feature of this element is the possibility to have a double rotation angle (60°), taking the advantage of the rotation of both the elements.

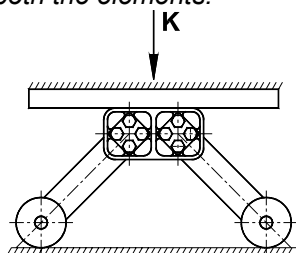


Fig.1

L'esempio di figura 1 mostra come effettuare un collegamento "in serie" con gli elementi elastici tipo BD. L'angolo di rotazione massimo è di 30° per entrambi gli elementi singoli e quindi si ha il doppio di una coppia rispetto a un elemento singolo. Il collegamento "in parallelo" può essere effettuato anche con gli elementi elastici modulari come nella figura 2. In questo caso l'angolo massimo di rotazione è sempre 30° ma la coppia si raddoppia.

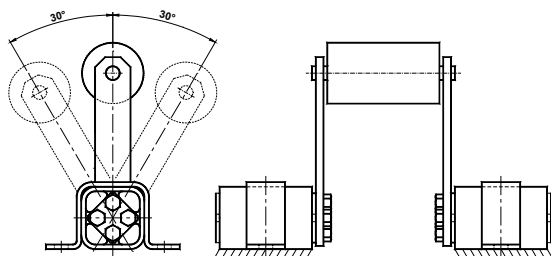


Fig.2

The example of the figure 1 shows as You have to do an "in series" connection with the BD elastic elements. The total rotation angle is 30° for each one of the two elements and so it has the double of a couple with respect to a singular element. The "in parallel" connection can be done also with the modular elastic elements as in the figure 2. In this case the maximum rotation angle is always 30° but the couple double itself.