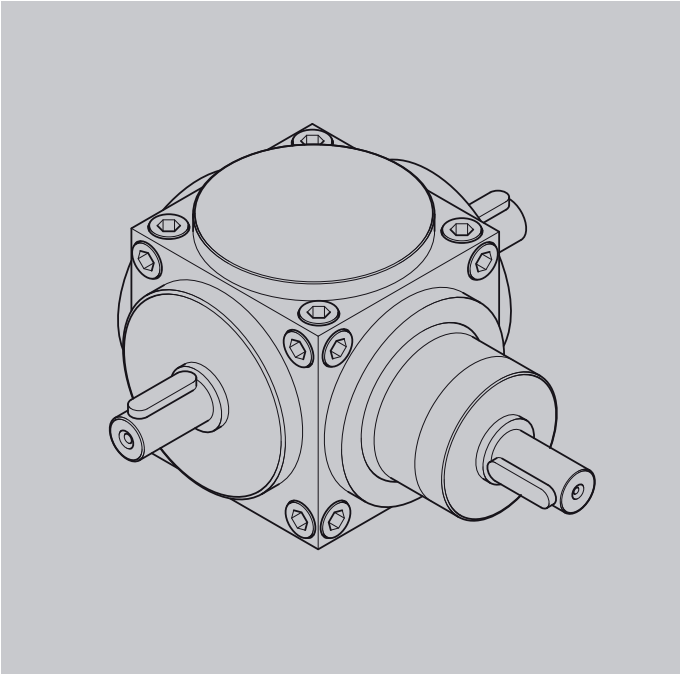
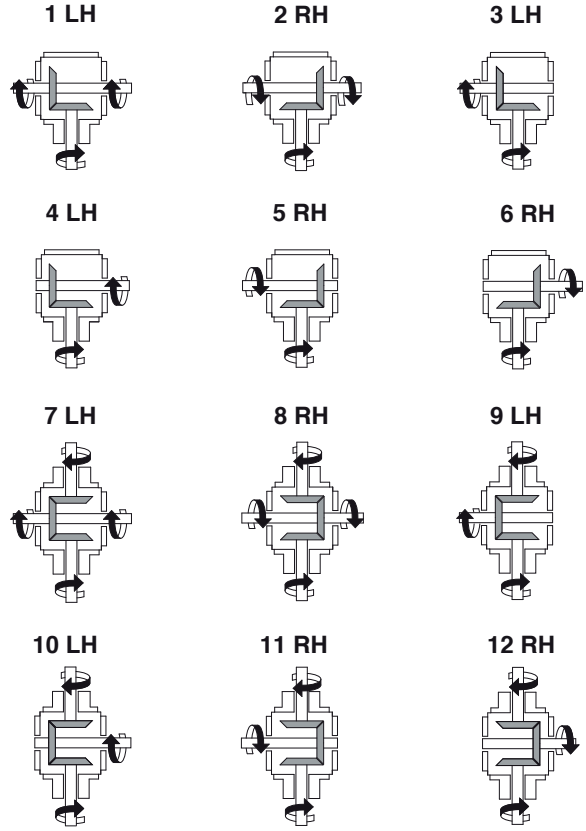
## RINVII D'ANGOLO Tipo S

## *Type S ANGULAR TRANSMISSION UNITS*

RAPPORTI DIVISORI **1:1 a 6:1** *DIVIDER RATIOS*






**LH** = Sinistra / *Left* - **RH** =Destra / *Right*

### Rapporto di riduzione 1:1 - 1,5:1 - 2:1 *Speed reducing ratio*

| | TIPO *Type* | A | b | c1 | c2 | Ød1 j6 | Ød2 j6 | Øe h7 | Øf | g | h1 | h2 | i | j | k | l | m | n* | o1 | o2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⊠ | **27 S** | **27** | 54 | 95 | 60 | 11 | 11 | 53 | 52,8 | 8 | 23 | 23 | 27 | 45 | 2 | 2 | 22 | M 4 | M 4 | M 4 |
| ⊠ | **45 S** | **45** | 90 | 130 | 92 | 18 | 18 | 88 | 72 | 10 | 35 | 35 | 45 | 50 | 2 | 2 | 36 | M 6 | M 6 | M 6 |
| ⊠ | **55 S** | **55** | 110 | 150 | 107 | 22 | 22 | 108 | 81 | 10 | 40 | 40 | 55 | 55 | 2 | 2 | 44 | M 8 | M 8 | M 8 |
| ⊠ | **70 S** | **70** | 140 | 180 | 132 | 32 | 32 | 135 | 98 | 10 | 50 | 50 | 70 | 60 | 2 | 2 | 55 | M 10 | M 12 | M 12 |
| | **85 S** | **85** | 170 | 215 | 160 | 40 | 40 | 165 | 118 | 12 | 60 | 60 | 85 | 70 | 2 | 3 | 67 | M 12 | M 16 | M 16 |
| | **105 S** | **105** | 210 | 260 | 192 | 45 | 45 | 205 | 128 | 15 | 70 | 70 | 105 | 85 | 2 | 2 | 85 | M 16 | M 16 | M 16 |
| | **120 S** | **120** | 240 | 300 | 222 | 55 | 55 | 235 | 138 | 15 | 85 | 85 | 120 | 95 | 2 | 2 | 95 | M 16 | M 20 | M 20 |
| | **140 S** | **140** | 280 | 360 | 267 | 60 | 60 | 275 | 150 | 15 | 110 | 110 | 140 | 110 | 2 | 2 | 110 | M 16 | M 20 | M 20 |
| | **180 S** | **180** | 360 | 445 | 325 | 75 | 75 | 350 | 210 | 22 | 120 | 120 | 180 | 145 | 3 | 3 | 140 | M 20 | M 20 | M 20 |
| | **200 S** | **180** | 360 | 445 | 365 | 75 | 90 | 350 | 210 | 22 | 120 | 160 | 180 | 145 | 3 | 3 | 140 | M 20 | M 20 | M 24 |
| ● | **225 S** | **225** | 450 | 570 | 410 | 90 | 90 | 440 | 250 | 22 | 160 | 160 | 225 | 185 | 3 | 3 | 175 | M 20 | M 24 | M 24 |
| ● | **250 S** | **250** | 500 | 628 | 442 | 100 | 100 | 490 | 290 | 24 | 165 | 165 | 250 | 213 | 3 | 5 | 200 | M 24 | M 24 | M 24 |

### Rapporto di riduzione 3:1 *Speed reducing ratio*

| | TIPO *Type* | A | b | c1 | c2 | Ød1 j6 | Ød2 j6 | Øe h7 | Øf | g | h1 | h2 | i | j | k | l | m | n* | o1 | o2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⊠ | **27 S** | **27** | 54 | 95 | 60 | 11 | 11 | 53 | 52,8 | 8 | 23 | 23 | 27 | 45 | 2 | 2 | 22 | M 4 | M 4 | M 4 |
| ⊠ | **45 S** | **45** | 90 | 125 | 92 | 16 | 18 | 88 | 72 | 10 | 30 | 35 | 45 | 50 | 2 | 2 | 36 | M 6 | M 6 | M 6 |
| ⊠ | **55 S** | **55** | 110 | 145 | 107 | 20 | 22 | 108 | 81 | 10 | 35 | 40 | 55 | 55 | 2 | 2 | 44 | M 8 | M 8 | M 8 |
| ⊠ | **70 S** | **70** | 140 | 175 | 132 | 26 | 32 | 135 | 98 | 10 | 45 | 50 | 70 | 60 | 2 | 2 | 55 | M 10 | M 8 | M 12 |
| | **85 S** | **85** | 170 | 205 | 160 | 32 | 40 | 165 | 118 | 12 | 50 | 60 | 85 | 70 | 2 | 3 | 67 | M 12 | M 12 | M 16 |
| | **105 S** | **105** | 210 | 245 | 192 | 38 | 45 | 205 | 128 | 15 | 55 | 70 | 105 | 85 | 2 | 2 | 85 | M 16 | M 12 | M 16 |
| | **120 S** | **120** | 240 | 285 | 222 | 45 | 55 | 235 | 138 | 15 | 70 | 85 | 120 | 95 | 2 | 2 | 95 | M 16 | M 16 | M 20 |
| | **140 S** | **140** | 280 | 330 | 267 | 50 | 60 | 275 | 150 | 15 | 80 | 110 | 140 | 110 | 2 | 2 | 110 | M 16 | M 16 | M 20 |
| | **180 S** | **180** | 360 | 435 | 325 | 60 | 75 | 350 | 170 | 22 | 110 | 120 | 180 | 145 | 3 | 3 | 140 | M 20 | M 20 | M 20 |
| | **200 S** | **180** | 360 | 435 | 365 | 60 | 90 | 350 | 170 | 22 | 110 | 160 | 180 | 145 | 3 | 3 | 140 | M 20 | M 20 | M 24 |
| ● | **225 S** | **225** | 450 | 530 | 410 | 75 | 90 | 440 | 210 | 22 | 120 | 160 | 225 | 185 | 3 | 3 | 175 | M 20 | M 20 | M 24 |
| ● | **250 S** | **250** | 500 | 623 | 442 | 90 | 100 | 490 | 240 | 24 | 160 | 165 | 250 | 213 | 3 | 5 | 200 | M 24 | M 24 | M 24 |

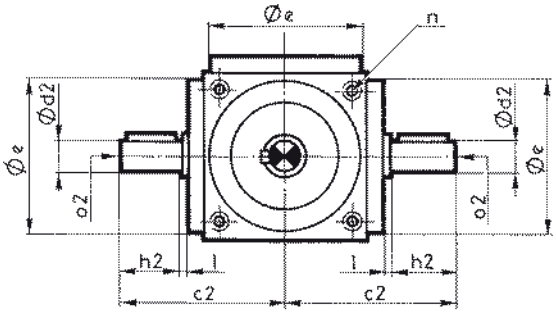
* Profondità dei fori filettati = n x 1,5

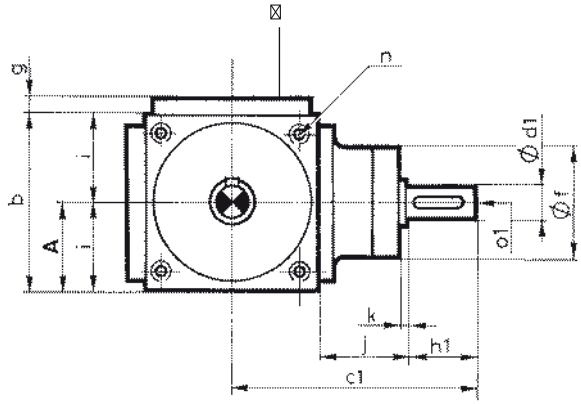
***INFORMAZIONI TECNICHE***

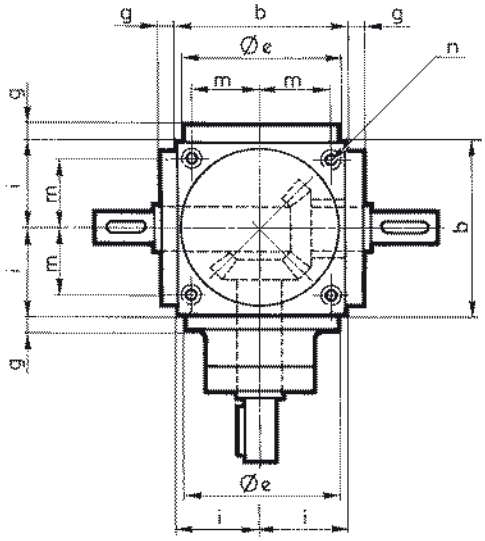
- ● Scatola in acciaio saldato.
- ⊠ Modello standard 4 vie. Il modello 5 vie su richiesta o sui montaggi a doppio supporto.
- \- Questa serie può essere eseguita su richiesta con albero di uscita rinforzato «tipo R» non per tipo 27.

## COSTRUZIONE STANDARD

## *STANDARD CONSTRUCTION*




**CHIAVETTATURA**
**secondo Norme DIN 6885**
- Albero d'entrata Ø d1 secondo rapporto di riduzione
- Albero di uscita Ø d2 per qualsiasi rapporto

***SPLINING***
***according to DIN 6885 provisions***
- *Ø d1 input shaft according to reduction ratio*
- *Ø d2 output shaft for any ratio*

| Tipo *Type* | Rapporto/*Ratio* 1:1 - 1,5:1 - 2:1 Ød1 | Rapporto/*Ratio* 3:1 Ød1 | Rapporto/*Ratio* 4:1 Ød1 | Rapporto/*Ratio* 5:1 - 6:1 Ød1 | Tutti i rapporti *All the ratios* Ød2 |
|---|---|---|---|---|---|
| ☒ 27 S | 4 x 4 x 20 | 4 x 4 x 20 | 4 x 4 x 20 | 4 x 4 x 20 | 6 x 6 x 32 |
| ☒ 45 S | 6 x 6 x 32 | 5 x 5 x 25 | 4 x 4 x 20 | 4 x 4 x 20 | 6 x 6 x 32 |
| ☒ 55 S | 6 x 6 x 36 | 6 x 6 x 32 | 5 x 5 x 25 | 5 x 5 x 20 | 6 x 6 x 36 |
| ☒ 70 S | 10 x 8 x 45 | 8 x 7 x 40 | 6 x 6 x 32 | 5 x 5 x 25 | 10 x 8 x 45 |
| 85 S | 12 x 8 x 56 | 10 x 8 x 45 | 8 x 7 x 40 | 6 x 6 x 36 | 12 x 8 x 56 |
| 105 S | 14 x 9 x 63 | 10 x 8 x 50 | 10 x 8 x 45 | 8 x 7 x 45 | 14 x 9 x 63 |
| 120 S | 16 x 10 x 80 | 14 x 9 x 63 | 10 x 8 x 50 | 10 x 8 x 50 | 16 x 10 x 80 |
| 140 S | 18 x 11 x 100 | 14 x 9 x 70 | 14 x 9 x 63 | 12 x 8 x 63 | 18 x 11 x 100 |
| 180 S | 20 x 12 x 110 | 18 x 11 x 100 | 16 x 10 x 80 | 14 x 9 x 70 | 20 x 12 x 110 |
| 200 S | 20 x 12 x 110 | 18 x 11 x 100 | 16 x 10 x 80 | 14 x 9 x 70 | 25 x 14 x 140 |
| 225 S | 25 x 14 x 140 | 20 x 12 x 110 | 20 x 12 x 110 | 18 x 11 x 100 | 25 x 14 x 140 |
| 250 S | 28 x 16 x 140 | 25 x 14 x 140 | 20 x 12 x 110 | 20 x 12 x 110 | 28 x 16 x 140 |

☒ Modello standard 4 vie. Il modello 5 vie su richiesta o sui montaggi a doppio supporto.

☒ *Standard Model 4 ways. 5 ways Model on request.*

## Rapporto di riduzione 4:1 *Speed reducing ratio*

| TIPO *Type* | A | b | c1 | c2 | Ød1 j6 | Ød2 j6 | Øe h7 | Øf | g | h1 | h2 | i | j | k | l | m | n* | o1 | o2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ☒ 45 S | 45 | 90 | 118 | 92 | 11 | 18 | 88 | 62 | 10 | 23 | 35 | 45 | 50 | 2 | 2 | 36 | M 6 | M 4 | M 6 |
| ☒ 55 S | 55 | 110 | 140 | 107 | 16 | 22 | 108 | 72 | 10 | 30 | 40 | 55 | 55 | 2 | 2 | 44 | M 8 | M 6 | M 8 |
| ☒ 70 S | 70 | 140 | 165 | 132 | 20 | 32 | 135 | 81 | 10 | 35 | 50 | 70 | 60 | 2 | 2 | 55 | M 10 | M 8 | M 12 |
| 85 S | 85 | 170 | 200 | 160 | 26 | 40 | 165 | 98 | 12 | 45 | 60 | 85 | 70 | 2 | 3 | 67 | M 12 | M 8 | M 16 |
| 105 S | 105 | 210 | 240 | 192 | 32 | 45 | 205 | 110 | 15 | 50 | 70 | 105 | 85 | 2 | 2 | 85 | M 16 | M 12 | M 16 |
| 120 S | 120 | 240 | 270 | 222 | 38 | 55 | 235 | 120 | 15 | 55 | 85 | 120 | 95 | 2 | 2 | 95 | M 16 | M 12 | M 20 |
| 140 S | 140 | 280 | 320 | 267 | 45 | 60 | 275 | 135 | 15 | 70 | 110 | 140 | 110 | 2 | 2 | 110 | M 16 | M 16 | M 20 |
| 180 S | 180 | 360 | 410 | 325 | 55 | 75 | 350 | 170 | 22 | 85 | 120 | 180 | 145 | 3 | 3 | 140 | M 20 | M 20 | M 20 |
| 200 S | 180 | 360 | 410 | 365 | 55 | 90 | 350 | 170 | 22 | 85 | 160 | 180 | 145 | 3 | 3 | 140 | M 20 | M 20 | M 24 |
| ● 225 S | 225 | 450 | 530 | 410 | 70 | 90 | 440 | 210 | 22 | 120 | 160 | 225 | 185 | 3 | 3 | 175 | M 20 | M 20 | M 24 |
| ● 250 S | 250 | 500 | 593 | 442 | 75 | 100 | 490 | 240 | 24 | 130 | 165 | 250 | 213 | 3 | 5 | 200 | M 24 | M 20 | M 24 |

## Rapporto di riduzione 5:1 - 6:1 *Speed reducing ratio*

| TIPO *Type* | A | b | c1 | c2 | Ød1 j6 | Ød2 j6 | Øe h7 | Øf | g | h1 | h2 | i | j | k | l | m | n* | o1 | o2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ☒ 45 S | 45 | 90 | 118 | 92 | 11 | 18 | 88 | 62 | 10 | 23 | 35 | 45 | 50 | 2 | 2 | 36 | M 6 | M 4 | M 6 |
| ☒ 55 S | 55 | 110 | 135 | 107 | 14 | 22 | 108 | 72 | 10 | 25 | 40 | 55 | 55 | 2 | 2 | 44 | M 8 | M 6 | M 8 |
| ☒ 70 S | 70 | 140 | 160 | 132 | 16 | 32 | 135 | 81 | 10 | 30 | 50 | 70 | 60 | 2 | 2 | 55 | M 10 | M 6 | M 12 |
| 85 S | 85 | 170 | 195 | 160 | 22 | 40 | 165 | 98 | 12 | 40 | 60 | 85 | 70 | 2 | 3 | 67 | M 12 | M 8 | M 16 |
| 105 S | 105 | 210 | 240 | 192 | 30 | 45 | 205 | 110 | 15 | 50 | 70 | 105 | 85 | 2 | 2 | 85 | M 16 | M 8 | M 16 |
| 120 S | 120 | 240 | 270 | 222 | 35 | 55 | 235 | 120 | 15 | 55 | 85 | 120 | 95 | 2 | 2 | 95 | M 16 | M 12 | M 20 |
| 140 S | 140 | 280 | 320 | 267 | 42 | 60 | 275 | 135 | 15 | 70 | 110 | 140 | 110 | 2 | 2 | 110 | M 16 | M 16 | M 20 |
| 180 S | 180 | 360 | 405 | 325 | 50 | 75 | 350 | 170 | 22 | 80 | 120 | 180 | 145 | 3 | 3 | 140 | M 20 | M 16 | M 20 |
| 200 S | 180 | 360 | 406 | 365 | 50 | 90 | 350 | 170 | 22 | 80 | 160 | 180 | 145 | 3 | 3 | 140 | M 20 | M 16 | M 24 |
| ● 225 S | 225 | 450 | 520 | 410 | 60 | 90 | 440 | 210 | 22 | 110 | 160 | 225 | 185 | 3 | 3 | 175 | M 20 | M 20 | M 24 |
| ● 250 S | 250 | 500 | 583 | 442 | 70 | 100 | 490 | 240 | 24 | 120 | 165 | 250 | 213 | 3 | 5 | 200 | M 24 | M 20 | M 24 |

*Depth of threaded holes = n x 1,5*

***TECHNICAL INFORMATION***

- ● *Welded steel box*
- ☒ *Standard Model 4 ways. 5 ways Model on request.*
- *On request, this series can be supplied with «type R» reinforced output shaft, excluding type 27.*