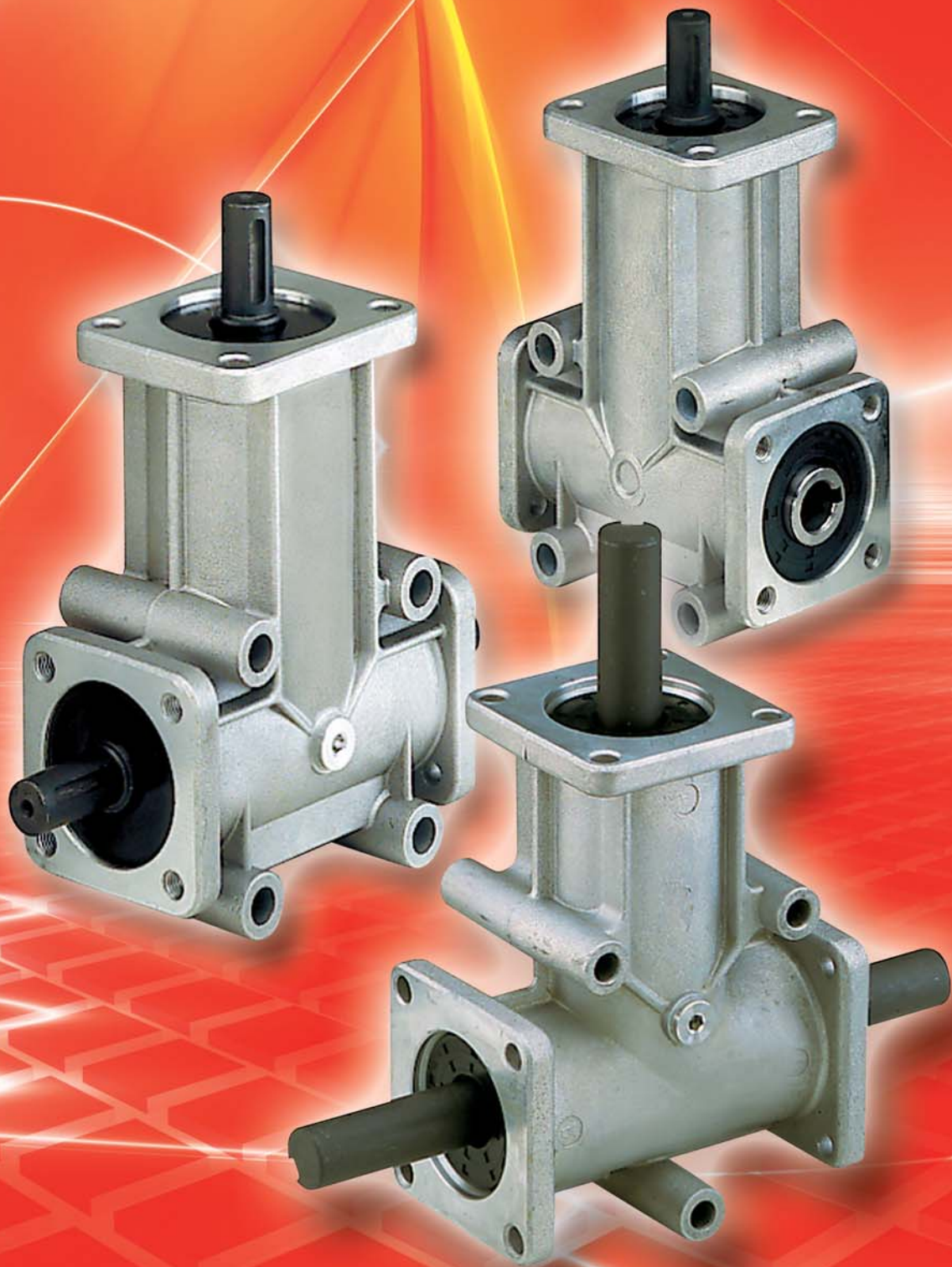




CHIARAVALLI

SpA



RINVII ANGOLARI DI PRECISIONE

**RIGHT-ANGLE PRECISION
BEVEL GEAR DRIVES**

RINVII ANGOLARI DI PRECISIONE

RIGHT-ANGLE PRECISION BEVEL GEAR DRIVES

I rinvii angolari serie CHT-RB e CHT-RP sono progettati per applicazioni industriali ove occorre trasmettere un moto rotatorio di potenza tra alberi disposti perpendicolarmente tra loro. Sono disponibili in diverse misure con due o tre uscite ed un rapporto di trasmissione, 1/1 - 1/2 - 1/3

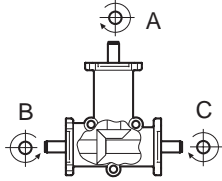
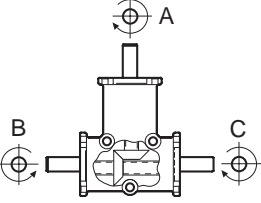
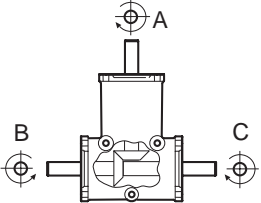
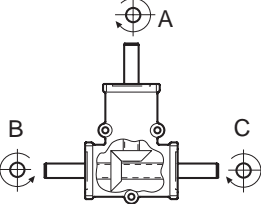
Identificazione del rinvio:

Nelle tabelle riportate per ogni modello è indicato: il diametro dell'albero, il rapporto di trasmissione, l'albero di entrata A, gli alberi di uscita B - C o D e il senso di rotazione (guardando frontalmente l'albero).

CHT-RB and CHT-RP right-angle drives are designed for industrial applications where rotary power must be transferred between two shafts at right-angles to each other. CHT-RB and CHT-RP are available in many different sizes with 2 or 3 outputs and 1/1 - 1/2 - 1/3 transmission ratios.

Right-angle identification:

The following tables show: the shaft diameter, the transmission ratio, the input shaft, the output shafts B-C or D and the direction of rotation (looking at the shaft from the front)

| MISURA | SIZE | MOD. RB | CHT | | | | | | |
|--------|---|---------|-----------------|-------------------|------------------|------------------|--------------|----------------|-----------------------|
| | | | ALBERO SHAFT | RAPPORTO RATIO | ENTRATA INPUT | USCITA OUTPUT | TIPO TYPE | CODICE CODE | PESO Kg. WEIGHT Kg |
| 1 |  | | Ø 8 | 1/1 | A | B | 1 | R1081101 | 0.3 |
| | | | Ø 8 | 1/1 | A | C | 2 | R1081102 | |
| | | | Ø 8 | 1/2 | A | B | 3 | R1081203 | |
| | | | Ø 8 | 1/2 | A | C | 4 | R1081204 | |
| | | | Ø 8 | 1/1 | A | B-C | 5 | R1081105 | |
| | | | Ø 8 | 1/2 | A | B-C | 6 | R1081206 | |
| 2 |  | | Ø 15 | 1/1 | A | B | 1 | R1151101 | 1.1 |
| | | | Ø 15 | 1/1 | A | C | 2 | R1151102 | |
| | | | Ø 15 | 1/2 | A | B | 3 | R1151203 | |
| | | | Ø 15 | 1/2 | A | C | 4 | R1151204 | |
| | | | Ø 15 | 1/1 | A | B-C | 5 | R1151105 | 1.2 |
| | | | Ø 15 | 1/2 | A | B-C | 6 | R1151206 | |
| 3 |  | | Ø 20 | 1/1 | A | B | 1 | R1201101 | 3.4 |
| | | | Ø 20 | 1/1 | A | C | 2 | R1201102 | |
| | | | Ø 20 | 1/2 | A | B | 3 | R1201203 | |
| | | | Ø 20 | 1/2 | A | C | 4 | R1201204 | |
| | | | Ø 20 | 1/1 | A | B-C | 5 | R1201105 | 3.5 |
| | | | Ø 20 | 1/2 | A | B-C | 6 | R1201206 | |
| 4 |  | | Ø 25 | 1/1 | A | B | 1 | R1251101 | 5.5 |
| | | | Ø 25 | 1/1 | A | C | 2 | R1251102 | |
| | | | Ø 25 | 1/2 | A | B | 3 | R1251203 | |
| | | | Ø 25 | 1/2 | A | C | 4 | R1251204 | |
| | | | Ø 25 | 1/1 | A | B-C | 5 | R1251105 | 5.8 |
| | | | Ø 25 | 1/2 | A | B-C | 6 | R1251206 | |

RINVII ANGOLARI DI PRECISIONE

RIGHT-ANGLE PRECISION BEVEL GEAR DRIVES

| MISURA | SIZE | MOD. RP | CHT | | | | | PESO Kg. | |
|--------|------|---------|-----------------|-------------------|------------------|------------------|--------------|----------------|-----------|
| | | | ALBERO SHAFT | RAPPORTO RATIO | ENTRATA INPUT | USCITA OUTPUT | TIPO TYPE | CODICE CODE | WEIGHT Kg |
| 1 | | Ø 8 | 1/1 | A | B | 1 | R3081101 | 0.6 | |
| | | Ø 8 | 1/1 | A | C | 2 | R3081102 | | |
| | | Ø 8 | 1/2 | A | B | 3 | R3081203 | | |
| | | Ø 8 | 1/2 | A | C | 4 | R3081204 | | |
| | | Ø 8 | 1/1 | A | B-C | 5 | R3081105 | | |
| | | Ø 8 | 1/2 | A | B-C | 6 | R3081206 | | |
| 2 | | Ø 14 | 1/1 | A | B | 1 | R3141101 | 2 | |
| | | Ø 14 | 1/1 | A | C | 2 | R3141102 | | |
| | | Ø 14 | 1/2 | A | B | 3 | R3141203 | | |
| | | Ø 14 | 1/2 | A | C | 4 | R3141204 | | |
| | | Ø 14 | 1/3 | A | B | 5 | R3141305 | | |
| | | Ø 14 | 1/3 | A | C | 6 | R3141306 | | |
| | | Ø 14 | 1/1 | A | B-C | 7 | R3141107 | | |
| | | Ø 14 | 1/2 | A | B-C | 8 | R3141208 | | |
| 3 | | Ø 14 | 1/1 | A | B-C | 10 | R3141110 | 1.9 | |
| | | Ø 14 | 1/2 | A | B-C | 11 | R3141211 | | |
| | | Ø 14 | 1/3 | A | B-C | 12 | R3141312 | | |
| 4 | | Ø 14 | 1/1 | A | B-C | 13 | R3141113 | 3.2 | |
| | | Ø 14 | 1/1 | A | C-D | 14 | R3141114 | | |
| | | Ø 14 | 1/2 | A | B-C | 15 | R3141215 | | |
| | | Ø 14 | 1/2 | A | C-D | 16 | R3141216 | | |
| | | Ø 14 | 1/3 | A | B-C | 17 | R3141317 | | |
| | | Ø 14 | 1/3 | A | C-D | 18 | R3141318 | | |
| | | Ø 14 | 1/1 | A | B-C-D | 19 | R3141119 | | |
| | | Ø 14 | 1/2 | A | B-C-D | 20 | R3141220 | | |
| 5 | | Ø 19 | 1/1 | A | B | 1 | R3191101 | 4.5 | |
| | | Ø 19 | 1/1 | A | C | 2 | R3191102 | | |
| | | Ø 19 | 1/2 | A | B | 3 | R3191203 | | |
| | | Ø 19 | 1/2 | A | C | 4 | R3191204 | | |
| | | Ø 19 | 1/3 | A | B | 5 | R3191305 | | |
| | | Ø 19 | 1/3 | A | C | 6 | R3191306 | | |
| | | Ø 19 | 1/1 | A | B-C | 7 | R3191107 | | |
| | | Ø 19 | 1/2 | A | B-C | 8 | R3191208 | | |
| 6 | | Ø 19 | 1/1 | A | B-C | 10 | R3191110 | 4.4 | |
| | | Ø 19 | 1/2 | A | B-C | 11 | R3191211 | | |
| | | Ø 19 | 1/3 | A | B-C | 12 | R3191312 | | |
| 7 | | Ø 24 | 1/1 | A | B | 1 | R3241101 | 4.6 | |
| | | Ø 24 | 1/1 | A | C | 2 | R3241102 | | |
| | | Ø 24 | 1/2 | A | B | 3 | R3241203 | | |
| | | Ø 24 | 1/2 | A | C | 4 | R3241204 | | |
| | | Ø 24 | 1/3 | A | B | 5 | R3241305 | | |
| | | Ø 24 | 1/3 | A | C | 6 | R3241306 | | |
| | | Ø 24 | 1/1 | A | B-C | 7 | R3241107 | | |
| | | Ø 24 | 1/2 | A | B-C | 8 | R3241208 | | |
| | | Ø 24 | 1/3 | A | B-C | 9 | R3241309 | | |

DETERMINAZIONE DEL RINVIO DA IMPIEGARE

HOW TO SELECT THE CORRECT RIGHT-ANGLE BEVEL GEAR DRIVE FOR YOUR APPLICATION

AVVERTENZE DATI TECNICI

Nella determinazione del rinvio da impiegare oltre alle esigenze puramente tecniche delle potenze in funzione del numero di giri e delle coppie da trasmettere, bisogna tenere conto della gravosità dell'impiego che dipende da molteplici fattori: Ciclo di funzionamento (intermittente, costante, ecc.), carichi radiali e assiali gravanti sulla estremità degli alberi, temperature max e min., ambiente (polveroso ecc.) tipo lubrificante.

- 1) Determinare il fattore di servizio F_s indicato nella tabella 2.
- 2) Calcolare la potenza nominale $P_n = \text{Potenza effettiva } P_e \times F_s$
- 3) Con la velocità in uscita e la potenza effettiva P_n scegliere la dimensione ed il rapporto del rinvio da ordinare.
- 4) Controllare che i carichi radiali e assiali applicati al centro della sporgenza di ogni singolo albero non superi valori riportati a tabella 1.
- 5) Verificare che la temperatura di esercizio non superi i valori da $-20^\circ\text{C} \div 80^\circ\text{C}$
- 6) Nel caso di rapporto 1/2 o 1/3 non usare il rinvio in moltiplicazione entrando oltre 750 giri/1' nel rapporto 1:2 e 500 giri/1' nel rapporto 1:3
- 7) In presenza di ambienti particolarmente polverosi e conseguentemente abrasivi evitare l'esposizione diretta del paraolio onde preservarlo per consentire una durata maggiore dello stesso.

TECHNICAL NOTES

Selecting the correct type of angle bevel gear is not simply a question of defining the power required in relation to R.P.M. and the torque to be transmitted. It also involves defining the conditions under which the angle bevel gear will be used. Defining operating conditions involves taking into consideration a number of factors such as the type of operating cycle (intermittent, continuous), radial and axial loads on the shaft ends, maximum and minimum temperatures, ambient conditions (e.g. dust and dirt levels) and the type of lubricant used. To decide the type and size of angle bevel gear required, proceed as follows.

- 1) Use table 2 to define the Service Factor for your application.
- 2) Calculate the Rated Power (P_n); $P_n = P_e$ (Horsepower) $\times F_s$.
- 3) Use the output speed and the rated power (P_n) to select the angle gear size and transmission ratio required for your application.
- 4) Check that the radial and axial load at the midpoint of the exposed shaft end does not exceed the values shown in table 1.
- 5) Check that the operating temperature does not exceed $-20^\circ\text{C} \div 80^\circ\text{C}$
- 6) If you require a 1/2 or 1/3 ratio, do not use a speed multiplier with an input more than 750 R.P.M. and 500 R.P.M. in ratio 1/2 and 1/3, respectively.
- 7) If the unit is to be used in very dusty conditions, protect the oil seal against direct exposure to dust to prevent abrasive damage which might shorten the working life of the unit.

TABELLA 1 - TABLE 1

SPINTE RADIALI ASSIALI MAX SOPPORTABILE MAX RADIAL AND AXIAL LOADS

| RINVIO/MISURA SIZE | MAX SPINTA ASSIALE IN Kg. MAX AXIAL LOAD IN Kg. | MAX SPINTA RADIALE IN Kg. MAX RADIAL LOAD IN Kg. |
|-----------------------|--|---|
| RB1 | 21 | 11 |
| RB2 | 41 | 20 |
| RB3 | 76 | 43 |
| RB4 | 88 | 49 |
| RP1 | 28 | 15 |
| RP2-3/4 | 53 | 30 |
| RP5-6 | 65 | 45 |
| RP7 | 80 | 60 |

TABELLA 2 - TABLE 2

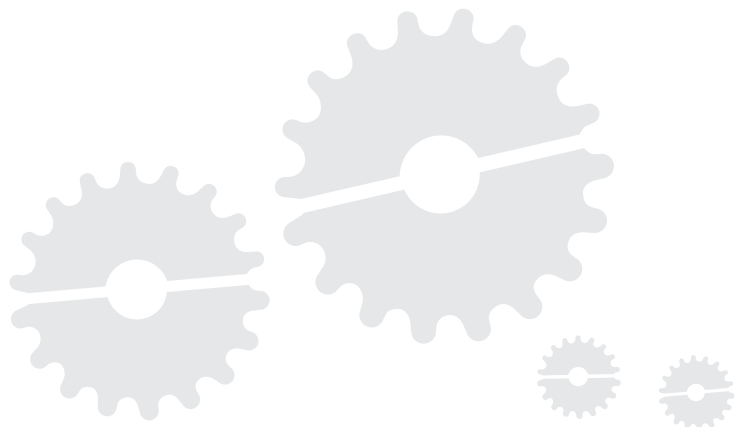
FATTORE DI SERVIZIO F_s SERVICE FACTOR F_s

| | ore di funzionamento al giorno hours of operation for day | | | |
|--|--|-----|-----|-----|
| | 3 | 8 | 12 | 24 |
| carico uniforme uniform load | 0.7 | 0.9 | 1 | 1.3 |
| carico con urti modesti load with moderate shocks | 0.9 | 1 | 1.3 | 1.8 |
| carico con urti load with shocks | 1.3 | 1.6 | 1.8 | 2.3 |



POTENZE APPLICABILI (Pn) Momento torcente max in uscita T (albero entrata/ input shaft A) INPUT POWER (Pn) Output torque T

| Giri in uscita Output speed | | 50 rpm | 100 rpm | 200 rpm | 400 rpm | 800 rpm | 1400 rpm | 2000 rpm | 3000 rpm | | | | | | | | |
|-----------------------------------|-------------------|--------------------|---------|--------------------|---------|--------------------|----------|--------------------|----------|--------------------|------|------|------|------|------|------|------|
| Coppia in uscita Output torque | | T potenza power | | T potenza power | | T potenza power | | T potenza power | | T potenza power | | | | | | | |
| Tipo Type | Rapporto Ratio | Nm | Kw | Nm | Kw | Nm | Kw | Nm | Kw | Nm | Kw | | | | | | |
| RB 1-1/2- RB 1-5 | R 1:1 | 4,7 | 0,02 | 3,9 | 0,04 | 3,3 | 0,07 | 2,8 | 0,12 | 2,3 | 0,19 | | | | | | |
| RP 1-1/2- RP 1-5 | | 9,1 | 0,05 | 7,6 | 0,08 | 6,4 | 0,13 | 5,4 | 0,23 | 4,5 | 0,38 | | | | | | |
| RB 2-1/2- RB 2-5 | | 16,5 | 0,09 | 13,9 | 0,15 | 11,7 | 0,24 | 9,8 | 0,41 | 8,2 | 0,69 | | | | | | |
| RP 3-10 | | 28,8 | 0,15 | 24,2 | 0,25 | 20,3 | 0,43 | 17,1 | 0,72 | 14,4 | 1,20 | | | | | | |
| RP 2-1/2 | | 34,5 | 0,18 | 29,0 | 0,30 | 24,4 | 0,51 | 20,5 | 0,86 | 17,2 | 1,44 | 15,0 | 2,20 | 13,7 | 2,87 | 12,4 | 3,89 |
| RP 4-13/14 | | | | | | | | | | | | | | | | | |
| RP 2-7 | | | | | | | | | | | | | | | | | |
| RP 4-19 | | | | | | | | | | | | | | | | | |
| RB 3-1/2 | | 53,1 | 0,28 | 44,6 | 0,47 | 37,5 | 0,79 | 31,6 | 1,32 | 26,5 | 2,22 | 23,1 | 3,38 | 21,1 | 4,42 | 19,1 | 5,99 |
| RB 3-5 | | | | | | | | | | | | | | | | | |
| RP 6-10 | | | | | | | | | | | | | | | | | |
| RB 4-1/2 - RP 5-1/2 | | | | | | | | | | | | | | | | | |
| RP 7-1/2- RB 4-5 | 87,3 | 0,46 | 73,4 | 0,77 | 61,8 | 1,29 | 51,9 | 2,17 | 43,7 | 3,66 | 38,0 | 5,56 | 34,7 | 7,27 | 31,4 | 9,86 | |
| RP 5-7- RP 7-7 | | | | | | | | | | | | | | | | | |
| RB 1-3/4- RB 1-6 | R 1:2 | 4,0 | 0,02 | 3,4 | 0,04 | 2,8 | 0,06 | 2,4 | 0,10 | 2,0 | 0,17 | | | | | | |
| RP 1-3/4- RP 1-6 | | 8,9 | 0,05 | 7,5 | 0,08 | 6,3 | 0,13 | 5,3 | 0,22 | 4,4 | 0,37 | | | | | | |
| RB 2-3/4- RB 2-6 | | 14,6 | 0,08 | 12,3 | 0,13 | 10,3 | 0,22 | 8,7 | 0,36 | 7,3 | 0,61 | | | | | | |
| RP 3-11 | | 28,1 | 0,15 | 23,7 | 0,25 | 19,9 | 0,42 | 16,7 | 0,70 | 14,1 | 1,18 | | | | | | |
| RP 2-3/4 | | 33,8 | 0,18 | 28,5 | 0,30 | 23,9 | 0,50 | 20,1 | 0,84 | 16,9 | 1,42 | 14,7 | 2,16 | 13,5 | 2,82 | 12,2 | 3,82 |
| RP 4-15/16 | | | | | | | | | | | | | | | | | |
| RP 2-8 | | | | | | | | | | | | | | | | | |
| RP 4-20 | | | | | | | | | | | | | | | | | |
| RB 3-3/4- RB 3-6 | | 42,5 | 0,22 | 35,7 | 0,37 | 30,1 | 0,63 | 25,3 | 1,06 | 21,3 | 1,78 | 18,5 | 2,71 | 16,9 | 3,54 | 15,3 | 4,80 |
| RP 6-11 | | | | | | | | | | | | | | | | | |
| RB 4-3/4 - RP 4-6 | 82,3 | 0,43 | 69,2 | 0,72 | 58,2 | 1,22 | 48,9 | 2,05 | 41,1 | 3,44 | 35,8 | 5,24 | 32,7 | 6,85 | 29,6 | 9,28 | |
| RP 7-3/4- RB 4-6 | | | | | | | | | | | | | | | | | |
| RP 5-8- RP 7-8 | | | | | | | | | | | | | | | | | |
| RP 2-5/6 | R 1:3 | 27,5 | 0,14 | 23,1 | 0,24 | 19,4 | 0,41 | 16,3 | 0,68 | 13,7 | 1,15 | 12,0 | 1,75 | 10,9 | 2,29 | 9,9 | 3,10 |
| RP 2-9 | | | | | | | | | | | | | | | | | |
| RP 3-12 | | | | | | | | | | | | | | | | | |
| RP 4-17/18 | | | | | | | | | | | | | | | | | |
| RP 4-21 | | | | | | | | | | | | | | | | | |
| RP 5-5/6 | | 63,4 | 0,33 | 53,3 | 0,56 | 44,9 | 0,94 | 37,7 | 1,58 | 31,7 | 2,66 | 27,6 | 4,04 | 25,2 | 5,28 | 22,8 | 7,16 |
| RP 5-9 | | | | | | | | | | | | | | | | | |
| RP 6-12 | | | | | | | | | | | | | | | | | |
| RP 7-5/6 | | | | | | | | | | | | | | | | | |
| RP 7-9 | | | | | | | | | | | | | | | | | |



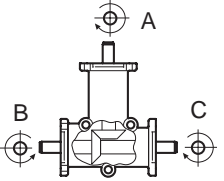
RINVII ANGOLARI DI PRECISIONE RIGHT-ANGLE PRECISION BEVEL GEAR DRIVES

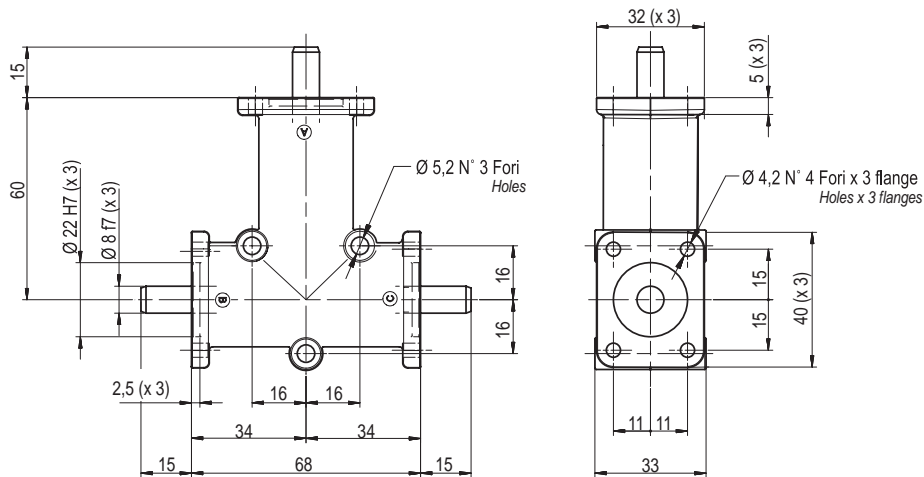
CARICHI ESTERNI APPLICABILI IN RELAZIONE ALLE VELOCITA' Fr = forza radiale Fa = forza assiale
EXTERNAL LOADS IN CONNECTION WITH SPEED Fr = radial load Fa = axial load

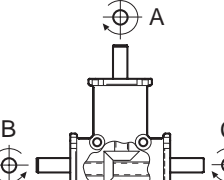
| Giri in uscita Output speed | | 50 rpm | | 100 rpm | | 200 rpm | | 400 rpm | | 800 rpm | | 1400 rpm | | 2000 rpm | | 3000 rpm | |
|--|-------------------|--------|-----|---------|-----|---------|-----|---------|-----|---------|-----|----------|-----|----------|-----|----------|-----|
| Carichi radiali - assiali Radial - axial load | | Fr | Fa | Fr | Fa | Fr | Fa | Fr | Fa | Fr | Fa | Fr | Fa | Fr | Fa | Fr | Fa |
| Tipo Type | Rapporto Ratio | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| RB 1-1/2- RB 1-5 | R 1:1 | 139 | 94 | 117 | 79 | 98 | 66 | 83 | 56 | 70 | 47 | 60 | 41 | 55 | 37 | 50 | 34 |
| RP 1-1/2- RP 1-5 | | 195 | 158 | 164 | 133 | 138 | 112 | 116 | 94 | 98 | 79 | 85 | 69 | 78 | 63 | 70 | 57 |
| RB 2-1/2- RB 2-5 | | 328 | 220 | 276 | 185 | 232 | 156 | 195 | 131 | 164 | 110 | 142 | 96 | 130 | 87 | 118 | 79 |
| RP 3-10 | | 430 | 348 | 361 | 293 | 304 | 246 | 256 | 207 | 215 | 174 | 187 | 151 | 171 | 139 | 154 | 125 |
| RP 2-1/2 | | 516 | 418 | 434 | 351 | 365 | 295 | 307 | 248 | 258 | 209 | 224 | 182 | 205 | 166 | 185 | 150 |
| RP 4-13/14 | | | | | | | | | | | | | | | | | |
| RP 2-7 | | | | | | | | | | | | | | | | | |
| RP 4-19 | | | | | | | | | | | | | | | | | |
| RB 3-1/2 | | 684 | 458 | 575 | 385 | 484 | 324 | 407 | 273 | 342 | 229 | 297 | 199 | 272 | 182 | 246 | 165 |
| RB 3-5 | | | | | | | | | | | | | | | | | |
| RP 6-10 | 826 | 554 | 695 | 465 | 584 | 391 | 491 | 329 | 413 | 277 | 359 | 241 | 329 | 220 | 297 | 199 | |
| RB 4-1/2 - RP 5-1/2 | 953 | 639 | 802 | 537 | 674 | 452 | 567 | 380 | 477 | 319 | 414 | 278 | 379 | 254 | 342 | 229 | |
| RP 7-1/2- RB 4-5 | | | | | | | | | | | | | | | | | |
| RP 5-7- RP 7-7 | | | | | | | | | | | | | | | | | |
| RB 1-3/4- RB 1-6 | R 1:2 | 107 | 76 | 90 | 64 | 76 | 54 | 64 | 45 | 54 | 38 | 47 | 33 | 43 | 30 | 39 | 27 |
| RP 1-3/4- RP 1-6 | | 182 | 110 | 153 | 93 | 129 | 78 | 108 | 66 | 91 | 55 | 79 | 48 | 73 | 44 | 66 | 40 |
| RB 2-3/4- RB 2-6 | | 276 | 168 | 232 | 141 | 195 | 119 | 164 | 100 | 138 | 84 | 120 | 73 | 110 | 67 | 99 | 60 |
| RP 3-11 | | 370 | 263 | 311 | 221 | 262 | 186 | 220 | 157 | 185 | 132 | 161 | 114 | 147 | 105 | 133 | 95 |
| RP 2-3/4 | | 445 | 316 | 374 | 266 | 315 | 224 | 265 | 188 | 223 | 158 | 194 | 137 | 177 | 126 | 160 | 114 |
| RP 4-15/16 | | | | | | | | | | | | | | | | | |
| RP 2-8 | | | | | | | | | | | | | | | | | |
| RP 4-20 | | | | | | | | | | | | | | | | | |
| RB 3-3/4- RB 3-6 | | 548 | 361 | 461 | 303 | 387 | 255 | 326 | 214 | 274 | 180 | 238 | 157 | 218 | 143 | 197 | 130 |
| RP 6-11 | | 696 | 422 | 585 | 355 | 492 | 299 | 414 | 251 | 348 | 211 | 303 | 184 | 277 | 168 | 250 | 152 |
| RB 4-3/4 - RP 4-6 | 803 | 483 | 675 | 406 | 568 | 341 | 478 | 287 | 402 | 241 | 349 | 210 | 319 | 192 | 289 | 173 | |
| RP 7-3/4- RB 4-6 | | | | | | | | | | | | | | | | | |
| RP 5-8- RP 7-8 | | | | | | | | | | | | | | | | | |
| RP 2-5/6 | R 1:3 | 357 | 199 | 301 | 167 | 253 | 141 | 213 | 118 | 179 | 99 | 155 | 86 | 142 | 79 | 128 | 71 |
| RP 2-9 | | | | | | | | | | | | | | | | | |
| RP 3-12 | | | | | | | | | | | | | | | | | |
| RP 4-17/18 | | | | | | | | | | | | | | | | | |
| RP 4-21 | | | | | | | | | | | | | | | | | |
| RP 5-5/6 | | 619 | 346 | 521 | 291 | 438 | 245 | 368 | 206 | 310 | 173 | 269 | 151 | 246 | 138 | 222 | 124 |
| RP 5-9 | | | | | | | | | | | | | | | | | |
| RP 6-12 | | | | | | | | | | | | | | | | | |
| RP 7-5/6 | | | | | | | | | | | | | | | | | |
| RP 7-9 | | | | | | | | | | | | | | | | | |

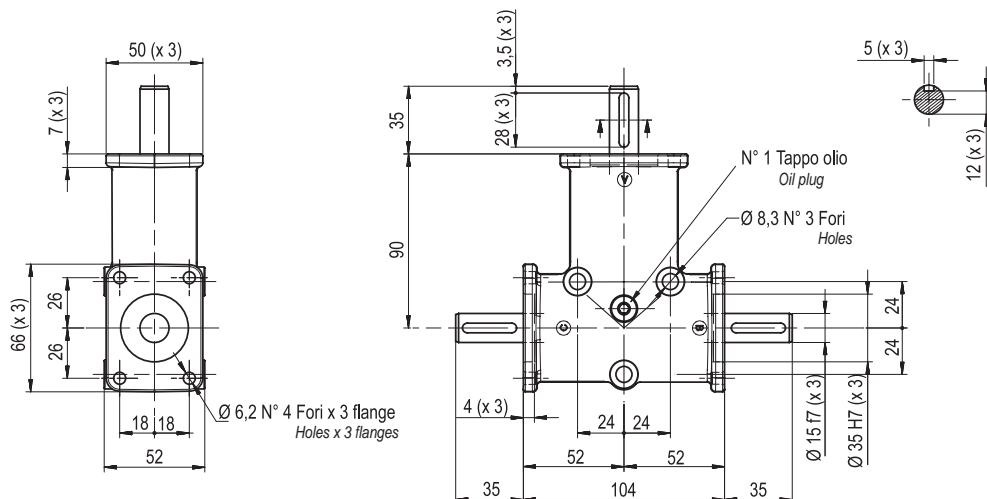


RINVII ANGOLARI DI PRECISIONE RIGHT-ANGLE PRECISION BEVEL GEAR DRIVES

| MISURA 1 SIZE 1 MOD. RB | CHT | | | | |
|---|----------------|---------------|---------------|-------------|--------------------|
| | RAPPORTO RATIO | ENTRATA INPUT | USCITA OUTPUT | CODICE CODE | PESO Kg. WEIGHT Kg |
|  | 1/1 | A | B | R1081101 | 0.3 |
| | 1/1 | A | C | R1081102 | |
| | 1/2 | A | B | R1081203 | |
| | 1/2 | A | C | R1081204 | |
| | 1/1 | A | B-C | R1081105 | |
| | 1/2 | A | B-C | R1081206 | |



| MISURA 2 SIZE 2 MOD. RB | CHT | | | | |
|---|----------------|---------------|---------------|-------------|--------------------|
| | RAPPORTO RATIO | ENTRATA INPUT | USCITA OUTPUT | CODICE CODE | PESO Kg. WEIGHT Kg |
|  | 1/1 | A | B | R1151101 | 1.1 |
| | 1/1 | A | C | R1151102 | |
| | 1/2 | A | B | R1151203 | |
| | 1/2 | A | C | R1151204 | |
| | 1/1 | A | B-C | R1151105 | 1.2 |
| | 1/2 | A | B-C | R1151206 | |

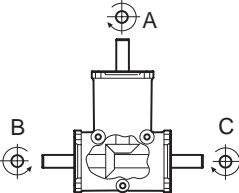


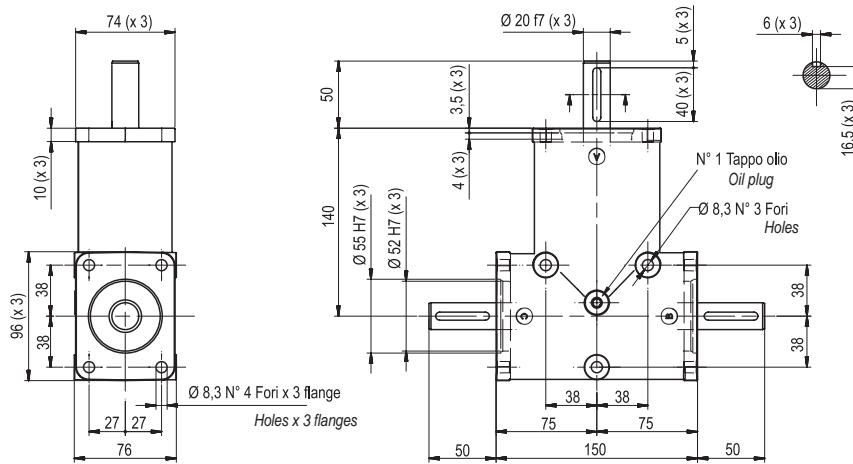
RINVII ANGOLARI DI PRECISIONE RIGHT-ANGLE PRECISION BEVEL GEAR DRIVES

MISURA 3 SIZE 3

MOD. RB

CHT

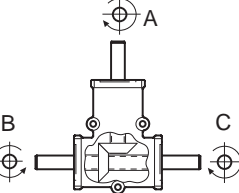
| | RAPPORTO RATIO | ENTRATA INPUT | USCITA OUTPUT | CODICE CODE | PESO Kg. WEIGHT Kg |
|---|-------------------|------------------|------------------|----------------|-----------------------|
|  | 1/1 | A | B | R1201101 | 3.4 |
| | 1/1 | A | C | R1201102 | |
| | 1/2 | A | B | R1201203 | |
| | 1/2 | A | C | R1201204 | |
| | 1/1 | A | B-C | R1201105 | 3.5 |
| | 1/2 | A | B-C | R1201206 | |

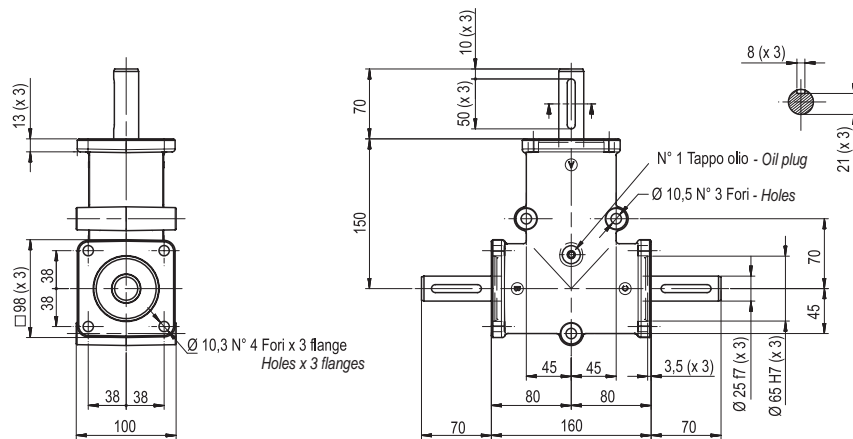


MISURA 4 SIZE 4

MOD. RB

CHT

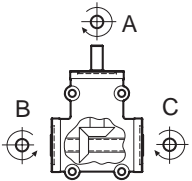
| | RAPPORTO RATIO | ENTRATA INPUT | USCITA OUTPUT | CODICE CODE | PESO Kg. WEIGHT Kg |
|---|-------------------|------------------|------------------|----------------|-----------------------|
|  | 1/1 | A | B | R1251101 | 5.5 |
| | 1/1 | A | C | R1251102 | |
| | 1/2 | A | B | R1251203 | |
| | 1/2 | A | C | R1251204 | |
| | 1/1 | A | B-C | R1251105 | 5.8 |
| | 1/2 | A | B-C | R1251206 | |

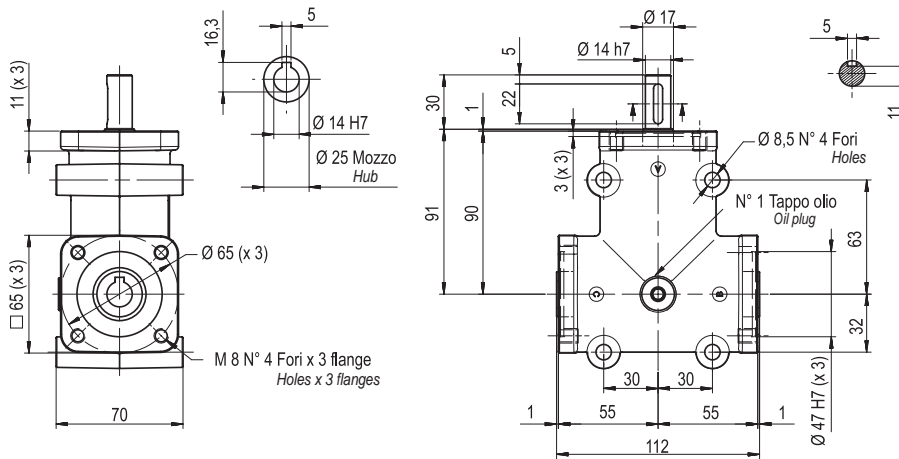


RINVII ANGOLARI DI PRECISIONE RIGHT-ANGLE PRECISION BEVEL GEAR DRIVES

MISURA 3 SIZE 3 MOD. RP

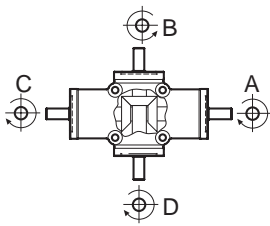
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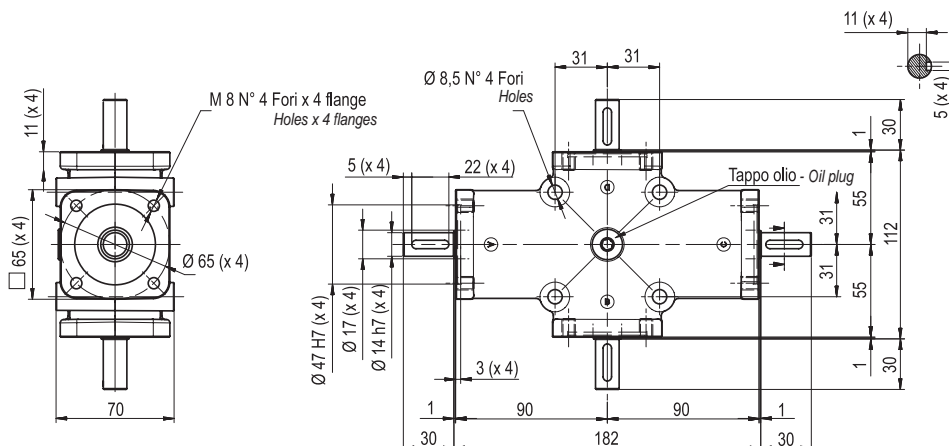
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|---|-------------------|------------------|------------------|----------------|-----------------------|
|  | 1/1 | A | B-C | R3141110 | 2 |
| | 1/2 | A | B-C | R3141211 | |
| | 1/3 | A | B-C | R3141312 | |



MISURA 4 SIZE 4 MOD. RP

CHT

| | RAPPORTO RATIO | ENTRATA INPUT | USCITA OUTPUT | CODICE CODE | PESO Kg. WEIGHT Kg |
|---|-------------------|------------------|------------------|----------------|-----------------------|
|  | 1/1 | A | B-C | R3141113 | 3.2 |
| | 1/1 | A | C-D | R3141114 | |
| | 1/2 | A | B-C | R3141215 | |
| | 1/2 | A | C-D | R3141216 | |
| | 1/3 | A | B-C | R3141317 | |
| | 1/3 | A | C-D | R3141318 | |
| | 1/1 | A | B-C-D | R3141119 | |
| | 1/2 | A | B-C-D | R3141220 | |
| | 1/3 | A | B-C-D | R3141321 | |

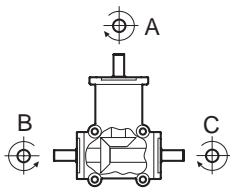


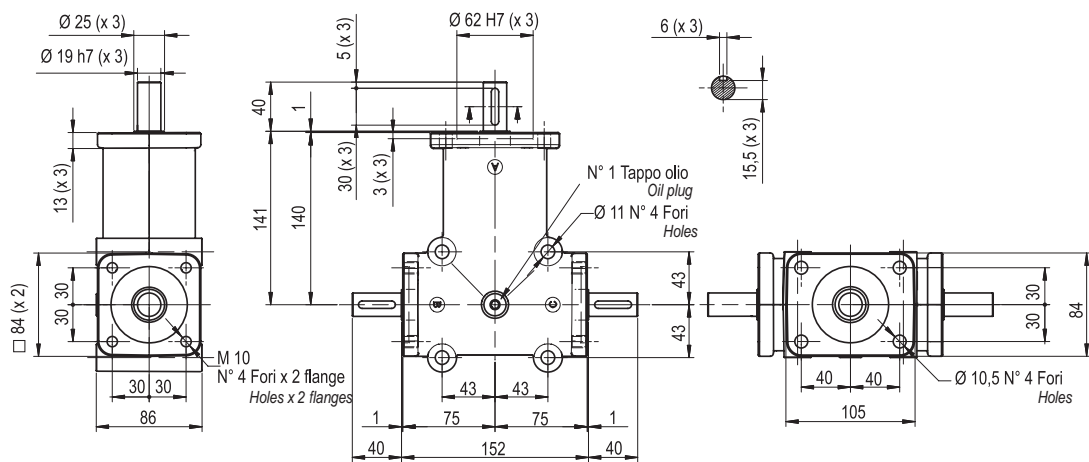
RINVII ANGOLARI DI PRECISIONE RIGHT-ANGLE PRECISION BEVEL GEAR DRIVES

MISURA 5 SIZE 5

MOD. RP

CHT

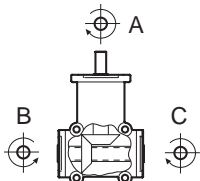
| | RAPPORTO RATIO | ENTRATA INPUT | USCITA OUTPUT | CODICE CODE | PESO Kg. WEIGHT Kg |
|---|-------------------|------------------|------------------|----------------|-----------------------|
|  | 1/1 | A | B | R3191101 | 4.5 |
| | 1/1 | A | C | R3191102 | |
| | 1/2 | A | B | R3191203 | |
| | 1/2 | A | C | R3191204 | |
| | 1/3 | A | B | R3191305 | |
| | 1/3 | A | C | R3191306 | |
| | 1/1 | A | B-C | R3191107 | |
| | 1/2 | A | B-C | R3191208 | |
| | 1/3 | A | B-C | R3191309 | |

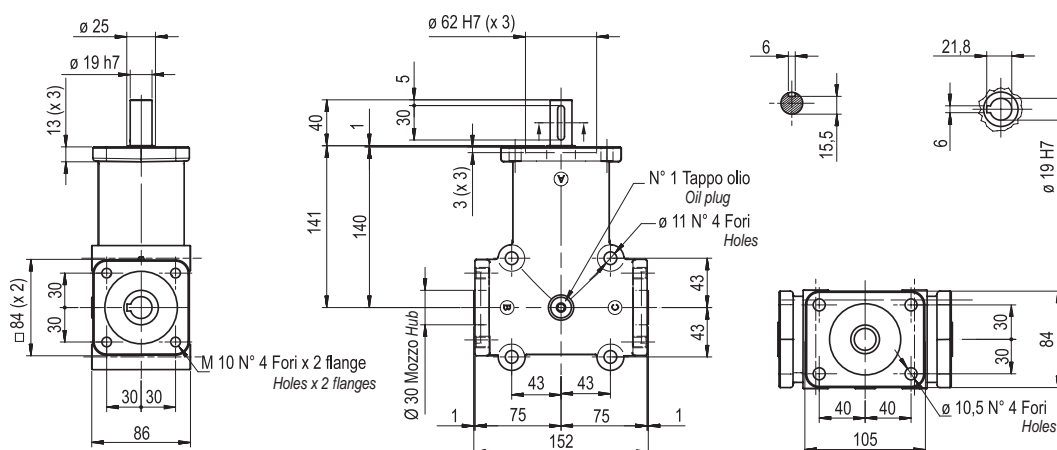


MISURA 6 SIZE 6

MOD. RP

CHT

| | RAPPORTO RATIO | ENTRATA INPUT | USCITA OUTPUT | CODICE CODE | PESO Kg. WEIGHT Kg |
|---|-------------------|------------------|------------------|----------------|-----------------------|
|  | 1/1 | A | B-C | R3191110 | 4.5 |
| | 1/2 | A | B-C | R3191211 | |
| | 1/3 | A | B-C | R3191312 | |

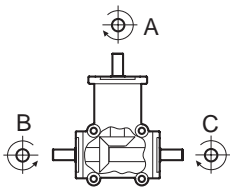


RINVII ANGOLARI DI PRECISIONE RIGHT-ANGLE PRECISION BEVEL GEAR DRIVES

MISURA 7 SIZE 7

MOD. RP

CHT

| | RAPPORTO RATIO | ENTRATA INPUT | USCITA OUTPUT | CODICE CODE | PESO Kg. WEIGHT Kg |
|---|-------------------|------------------|------------------|----------------|-----------------------|
|  | 1/1 | A | B | R3241101 | 4.5 |
| | 1/1 | A | C | R3241102 | |
| | 1/2 | A | B | R3241203 | |
| | 1/2 | A | C | R3241204 | |
| | 1/3 | A | B | R3241305 | |
| | 1/3 | A | C | R3241306 | |
| | 1/1 | A | B-C | R3241107 | |
| | 1/2 | A | B-C | R3241208 | |
| | 1/3 | A | B-C | R3241309 | |

