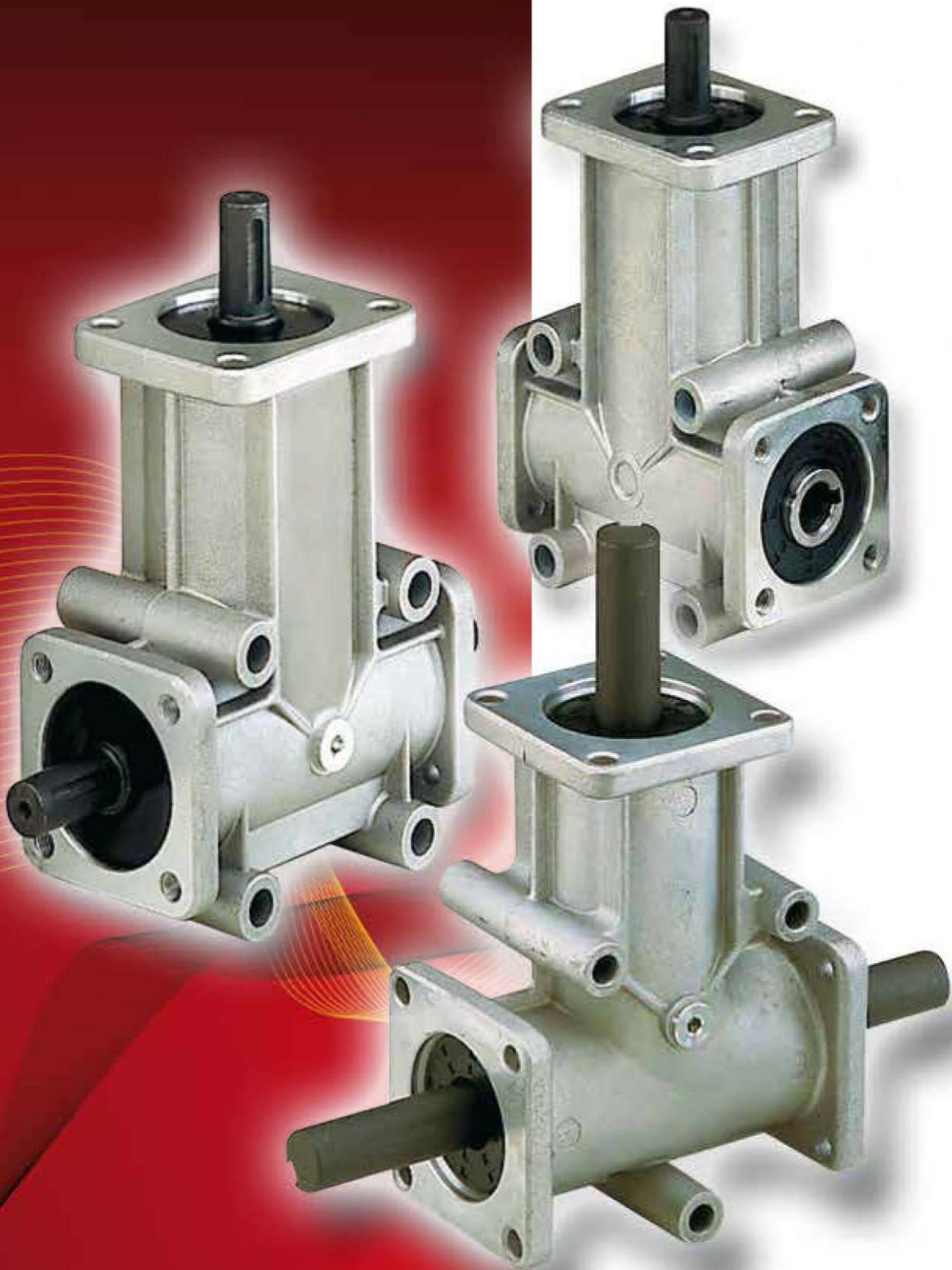




**LASIOM**  
TRANSMISIONES



**REENVÍO ANGULAR DE PRECISIÓN**



# REENVÍO ANGULAR DE PRECISIÓN

Los reenvíos angulares series CHT-RB y CHT-RP están diseñados para aplicaciones industriales donde es necesario transmitir un movimiento de potencia rotativo entre ejes dispuestos perpendicularmente entre sí.

Están disponibles en diferentes tamaños con dos o tres salidas y una relación de transmisión, 1/1 - 1/2 - 1/3.

## Identificación del reenvío

Las tablas proporcionadas para cada modelo indican: el diámetro del eje, la relación de transmisión, el eje de entrada A, los ejes de salida B – C o D y el sentido de giro (mirando el eje de frente).

| MEDIDA | MODELO: RB | SERIE: CHT |          |         |        |      |                |      |
|--------|------------|------------|----------|---------|--------|------|----------------|------|
|        |            | EJES       | RELACION | ENTRADA | SALIDA | TIPO | REFERENCIA     | PESO |
| 1      |            | Ø 8        | 1/1      | A       | B      | 1    | R-08-1:1D-A/B  | 0.3  |
|        |            | Ø 8        | 1/1      | A       | C      | 2    | R-08-1:1D-A/C  |      |
|        |            | Ø 8        | 1/2      | A       | B      | 3    | R-08-1:2D-A/B  |      |
|        |            | Ø 8        | 1/2      | A       | C      | 4    | R-08-1:2D-A/C  |      |
|        |            | Ø 8        | 1/1      | A       | B-C    | 5    | R-08-1:1D-A/BC | 0.3  |
|        |            | Ø 8        | 1/2      | A       | B-C    | 6    | R-08-1:2D-A/BC |      |
| 2      |            | Ø 15       | 1/1      | A       | B      | 1    | R-15-1:1D-A/B  | 1.1  |
|        |            | Ø 15       | 1/1      | A       | C      | 2    | R-15-1:1D-A/C  |      |
|        |            | Ø 15       | 1/2      | A       | B      | 3    | R-15-1:2D-A/B  |      |
|        |            | Ø 15       | 1/2      | A       | C      | 4    | R-15-1:2D-A/C  |      |
|        |            | Ø 15       | 1/1      | A       | B-C    | 5    | R-15-1:1D-A/BC | 1.2  |
|        |            | Ø 15       | 1/2      | A       | B-C    | 6    | R-15-1:2D-A/BC |      |
| 3      |            | Ø 20       | 1/1      | A       | B      | 1    | R-20-1:1D-A/B  | 3.4  |
|        |            | Ø 20       | 1/1      | A       | C      | 2    | R-20-1:1D-A/C  |      |
|        |            | Ø 20       | 1/2      | A       | B      | 3    | R-20-1:2D-A/B  |      |
|        |            | Ø 20       | 1/2      | A       | C      | 4    | R-20-1:2D-A/C  |      |
|        |            | Ø 20       | 1/1      | A       | B-C    | 5    | R-20-1:1D-A/BC | 3.5  |
|        |            | Ø 20       | 1/2      | A       | B-C    | 6    | R-20-1:2D-A/BC |      |
| 4      |            | Ø 25       | 1/1      | A       | B      | 1    | R-25-1:1D-A/B  | 5.5  |
|        |            | Ø 25       | 1/1      | A       | C      | 2    | R-25-1:1D-A/C  |      |
|        |            | Ø 25       | 1/2      | A       | B      | 3    | R-25-1:2D-A/B  |      |
|        |            | Ø 25       | 1/2      | A       | C      | 4    | R-25-1:2D-A/C  |      |
|        |            | Ø 25       | 1/1      | A       | B-C    | 5    | R-25-1:1D-A/BC | 5.8  |
|        |            | Ø 25       | 1/2      | A       | B-C    | 6    | R-25-1:2D-A/BC |      |



# REENVÍO ANGULAR DE PRECISIÓN

| MEDIDA | MODELO: RP | SERIE: CHT |     |   |       |    |                 |     |
|--------|------------|------------|-----|---|-------|----|-----------------|-----|
| 1      |            | Ø 8        | 1/1 | A | B     | 1  | RP08-1:1D-A/B   | 0.6 |
|        |            | Ø 8        | 1/1 | A | C     | 2  | RP08-1:1D-A/C   |     |
|        |            | Ø 8        | 1/2 | A | B     | 3  | RP08-1:2D-A/B   |     |
|        |            | Ø 8        | 1/2 | A | C     | 4  | RP08-1:2D-A/C   |     |
|        |            | Ø 8        | 1/1 | A | B-C   | 5  | RP08-1:1D-A/BC  |     |
|        |            | Ø 8        | 1/2 | A | B-C   | 6  | RP08-1:2D-A/BC  |     |
| 2      |            | Ø 14       | 1/1 | A | B     | 1  | R-14-1:1D-A/B   | 2   |
|        |            | Ø 14       | 1/1 | A | C     | 2  | R-14-1:1D-A/C   |     |
|        |            | Ø 14       | 1/2 | A | B     | 3  | R-14-1:2D-A/B   |     |
|        |            | Ø 14       | 1/2 | A | C     | 4  | R-14-1:2D-A/C   |     |
|        |            | Ø 14       | 1/3 | A | B     | 5  | R-14-1:3D-A/B   |     |
|        |            | Ø 14       | 1/3 | A | C     | 6  | R-14-1:3D-A/C   |     |
|        |            | Ø 14       | 1/1 | A | B-C   | 7  | R-14-1:1D-A/BC  |     |
|        |            | Ø 14       | 1/2 | A | B-C   | 8  | R-14-1:2D-A/BC  |     |
|        |            | Ø 14       | 1/3 | A | B-C   | 9  | R-14-1:3D-A/BC  |     |
| 3      |            | Ø 14       | 1/1 | A | B-C   | 10 | RP14-1:1D-A/BC  | 1.9 |
|        |            | Ø 14       | 1/2 | A | B-C   | 11 | RP14-1:2D-A/BC  |     |
|        |            | Ø 14       | 1/3 | A | B-C   | 12 | RP14-1:3D-A/BC  |     |
| 4      |            | Ø 14       | 1/1 | A | B-C   | 13 | R14-1:1D-A/BCD  | 3.2 |
|        |            | Ø 14       | 1/1 | A | C-D   | 14 |                 |     |
|        |            | Ø 14       | 1/2 | A | B-C   | 15 |                 |     |
|        |            | Ø 14       | 1/2 | A | C-D   | 16 |                 |     |
|        |            | Ø 14       | 1/3 | A | B-C   | 17 |                 |     |
|        |            | Ø 14       | 1/3 | A | C-D   | 18 |                 |     |
|        |            | Ø 14       | 1/1 | A | B-C-D | 19 |                 |     |
|        |            | Ø 14       | 1/2 | A | B-C-D | 20 |                 |     |
|        |            | Ø 14       | 1/3 | A | B-C-D | 21 |                 |     |
| 5      |            | Ø 19       | 1/1 | A | B     | 1  | R-19-1:1D-A/B   | 4.5 |
|        |            | Ø 19       | 1/1 | A | C     | 2  | R-19-1:1D-A/C   |     |
|        |            | Ø 19       | 1/2 | A | B     | 3  | R-19-1:2D-A/B   |     |
|        |            | Ø 19       | 1/2 | A | C     | 4  | R-19-1:2D-A/C   |     |
|        |            | Ø 19       | 1/3 | A | B     | 5  | R-19-1:3D-A/B   |     |
|        |            | Ø 19       | 1/3 | A | C     | 6  | R-19-1:3D-A/C   |     |
|        |            | Ø 19       | 1/1 | A | B-C   | 7  | R-19-1:1D-A/BC  |     |
|        |            | Ø 19       | 1/2 | A | B-C   | 8  | R-19-1:2D-A/BC  |     |
|        |            | Ø 19       | 1/3 | A | B-C   | 9  | R-19-1:3D-A/BC  |     |
| 6      |            | Ø 19       | 1/1 | A | B-C   | 10 | RP-19-1:1D-A/BC | 4.4 |
|        |            | Ø 19       | 1/2 | A | B-C   | 11 | RP-19-1:2D-A/BC |     |
|        |            | Ø 19       | 1/3 | A | B-C   | 12 | RP-19-1:3D-A/BC |     |
| 7      |            | Ø 24       | 1/1 | A | B     | 1  | RP-24-1:1D-A/B  | 4.6 |
|        |            | Ø 24       | 1/1 | A | C     | 2  | RP-24-1:1D-A/C  |     |
|        |            | Ø 24       | 1/2 | A | B     | 3  | RP-24-1:2D-A/B  |     |
|        |            | Ø 24       | 1/2 | A | C     | 4  | RP-24-1:2D-A/C  |     |
|        |            | Ø 24       | 1/3 | A | B     | 5  | RP-24-1:3D-A/B  |     |
|        |            | Ø 24       | 1/3 | A | C     | 6  | RP-24-1:3D-A/C  |     |
|        |            | Ø 24       | 1/1 | A | B-C   | 7  | RP-24-1:1D-A/BC |     |
|        |            | Ø 24       | 1/2 | A | B-C   | 8  | RP-24-1:2D-A/BC |     |
|        |            | Ø 24       | 1/3 | A | B-C   | 9  | RP-24-1:3D-A/BC |     |





# DETERMINACIÓN DEL REENVÍO A UTILIZAR

## ADVERTENCIAS DATOS TÉCNICOS

En la determinación del reductor a utilizar, además de los requisitos puramente técnicos de las potencias en función del número de revoluciones y de los pares a transmitir, hay que tener en cuenta la severidad del uso, que depende de múltiples factores:

Ciclo de funcionamiento (intermitente, constante, etc.), cargas radiales y axiales que actúan en los extremos de los ejes, temperaturas máximas y mínimas, ambiente (polvoriento, etc.) y tipo de lubricante.

- 1) Determinar el factor de servicio  $F_s$  indicado en la tabla 1.
- 2) Calcular la potencia nominal  $P_n = \text{Fuerza efectiva } P_e \times F_s$
- 3) Usando la velocidad de salida y la fuerza efectiva  $P_n$ , elija el tamaño y la relación de la caja de cambios a utilizar.
- 4) Verifique que las cargas radiales y axiales aplicadas al centro de la protuberancia de cada eje individual no excedan los valores que se muestran en la tabla de cargas externas.
- 5) Comprobar que la temperatura de funcionamiento no supera los  $-20^\circ\text{C} / 80^\circ\text{C}$
- 6) En el caso de relación 1/2 o 1/3, no utilice la caja de cambios en la multiplicación introduciendo más de 750 rpm en la relación 1:2 y 500 rpm en la relación 1:3
- 7) En presencia de ambientes particularmente polvorientos y, por lo tanto, abrasivos, evite la exposición directa del sello de aceite para preservarlo y permitir que dure más.

**TABLA 1**

FACTOR DE SERVICIO  $F_s$

|                    | Horas de funcionamiento al día |     |     |     |
|--------------------|--------------------------------|-----|-----|-----|
|                    | 3                              | 8   | 12  | 24  |
| carga uniforme     | 0.7                            | 0.9 | 1   | 1.3 |
| carga choque debil | 0.9                            | 1   | 1.3 | 1.8 |
| carga con choque   | 1.3                            | 1.6 | 1.8 | 2.3 |



# FUERZA APLICABLE (Pn)

## Momento torsor máximo de salida T (eje entrada A)

| Vueltas de salida   |                  | 50 rpm   | 100 rpm | 200 rpm  | 400 rpm | 800 rpm  | 1400 rpm | 2000 rpm | 3000 rpm |          |      |      |      |      |      |      |      |
|---------------------|------------------|----------|---------|----------|---------|----------|----------|----------|----------|----------|------|------|------|------|------|------|------|
| Carga de salida     |                  | T Fuerza |         | T Fuerza |         | T Fuerza |          | T Fuerza |          | T Fuerza |      |      |      |      |      |      |      |
| Relación            | Tipo             | Nm       | Kw      | Nm       | Kw      | Nm       | Kw       | Nm       | Kw       | Nm       | Kw   |      |      |      |      |      |      |
| R 1:1               | RB 1-1/2- RB 1-5 | 4,7      | 0,02    | 3,9      | 0,04    | 3,3      | 0,07     | 2,8      | 0,12     | 2,3      | 0,19 | 2,0  | 0,30 | 1,8  | 0,39 | 1,7  | 0,53 |
|                     | 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 | 4,0  | 0,58 | 3,6  | 0,76 | 3,3  | 1,03 |
|                     | 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 | 7,2  | 1,05 | 6,6  | 1,37 | 5,9  | 1,86 |
|                     | RP 3-10          | 28,8     | 0,15    | 24,2     | 0,25    | 20,3     | 0,43     | 17,1     | 0,72     | 14,4     | 1,20 | 12,5 | 1,83 | 11,4 | 2,39 | 10,3 | 3,25 |
|                     | 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           | 75,7     | 0,40    | 63,7     | 0,67    | 53,5     | 1,12     | 45,0     | 1,89     | 37,9     | 3,17 | 32,9 | 4,82 | 30,1 | 6,30 | 27,2 | 8,54 |
| RP 6-10             |                  |          |         |          |         |          |          |          |          |          |      |      |      |      |      |      |      |
| RB 4-1/2 - RP 5-1/2 | 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 |      |
| R 1:2               | RB 1-3/4- RB 1-6 | 4,0      | 0,02    | 3,4      | 0,04    | 2,8      | 0,06     | 2,4      | 0,10     | 2,0      | 0,17 | 1,7  | 0,26 | 1,6  | 0,33 | 1,4  | 0,45 |
|                     | 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 | 3,9  | 0,57 | 3,5  | 0,74 | 3,2  | 1,00 |
|                     | 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 | 6,3  | 0,93 | 5,8  | 1,21 | 5,2  | 1,65 |
|                     | RP 3-11          | 28,1     | 0,15    | 23,7     | 0,25    | 19,9     | 0,42     | 16,7     | 0,70     | 14,1     | 1,18 | 12,2 | 1,79 | 11,2 | 2,34 | 10,1 | 3,17 |
|                     | 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          | 71,3     | 0,37    | 59,9     | 0,63    | 50,4     | 1,06     | 42,4     | 1,77     | 35,6     | 2,98 | 31,0 | 4,54 | 28,3 | 5,93 | 25,6 | 8,04 |
| 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 |      |
| R 1:3               | RP 2-5/6         | 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              |                  |          |         |          |         |          |          |          |          |          |      |      |      |      |      |      |      |



# REENVÍO ANGULAR DE PRECISIÓN

Cargas externas aplicables en relación con las velocidades Fr=fuerza radial Fa=fuerza axial

| Vueltas de salida    |          | 50 rpm |     | 100 rpm |     | 200 rpm |     | 400 rpm |     | 800 rpm |     | 1400 rpm |     | 2000 rpm |     | 3000 rpm |     |
|----------------------|----------|--------|-----|---------|-----|---------|-----|---------|-----|---------|-----|----------|-----|----------|-----|----------|-----|
| Carga radial - axial |          | Fr     | Fa  | Fr      | Fa  | Fr      | Fa  | Fr      | Fa  | Fr      | Fa  | Fr       | Fa  | Fr       | Fa  | Fr       | Fa  |
| Tipo                 | Relación | 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               |          | 684    | 458 | 575     | 385 | 484     | 324 | 407     | 273 | 342     | 229 | 297      | 199 | 272      | 182 | 246      | 165 |
| RP 4-19              |          |        |     |         |     |         |     |         |     |         |     |          |     |          |     |          |     |
| RB 3-1/2             |          | 826    | 554 | 695     | 465 | 584     | 391 | 491     | 329 | 413     | 277 | 359      | 241 | 329      | 220 | 297      | 199 |
| RP 6-10              |          |        |     |         |     |         |     |         |     |         |     |          |     |          |     |          |     |
| 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               |          | 548    | 361 | 461     | 303 | 387     | 255 | 326     | 214 | 274     | 180 | 238      | 157 | 218      | 143 | 197      | 130 |
| RP 4-20              |          |        |     |         |     |         |     |         |     |         |     |          |     |          |     |          |     |
| RB 3-3/4- RB 3-6     |          | 696    | 422 | 585     | 355 | 492     | 299 | 414     | 251 | 348     | 211 | 303      | 184 | 277      | 168 | 250      | 152 |
| RP 6-11              |          |        |     |         |     |         |     |         |     |         |     |          |     |          |     |          |     |
| 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               |          |        |     |         |     |         |     |         |     |         |     |          |     |          |     |          |     |



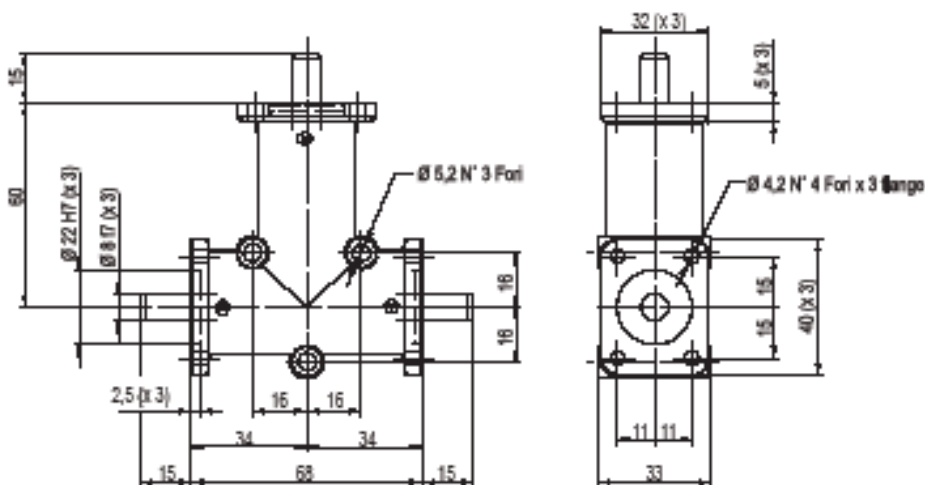
# REENVÍO ANGULAR DE PRECISIÓN

MEDIDA 1

MODELO RB

SERIE CHT

|  | RELACION | ENTRADA | SALIDA | REFERENCIA    | PESO Kg. |
|--|----------|---------|--------|---------------|----------|
|  | 1/1      | A       | B      | R-08-1:1DA/B  | 0,3      |
|  | 1/1      | A       | C      | R-08-1:1DA/C  |          |
|  | 1/2      | A       | B      | R-08-1:2DA/B  |          |
|  | 1/2      | A       | C      | R-08-1:2DA/C  |          |
|  | 1/1      | A       | B-C    | R-08-1:1DA/BC |          |
|  | 1/2      | A       | B-C    | R-08-1:2DA/BC |          |

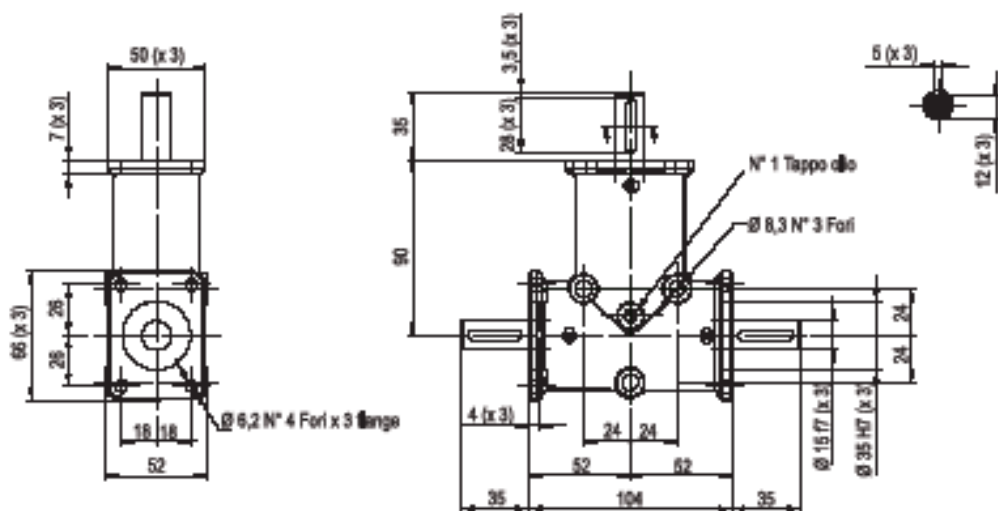


MEDIDA 2

MODELO RB

SERIE CHT

|  | RELACION | ENTRADA | SALIDA | REFERENCIA    | PESO Kg. |
|--|----------|---------|--------|---------------|----------|
|  | 1/1      | A       | B      | R-15-1:1DA/B  | 1,1      |
|  | 1/1      | A       | C      | R-15-1:1DA/C  |          |
|  | 1/2      | A       | B      | R-15-1:2DA/B  |          |
|  | 1/2      | A       | C      | R-15-1:2DA/C  |          |
|  | 1/1      | A       | B-C    | R-15-1:1DA/BC | 1,2      |
|  | 1/2      | A       | B-C    | R-15-1:2DA/BC |          |





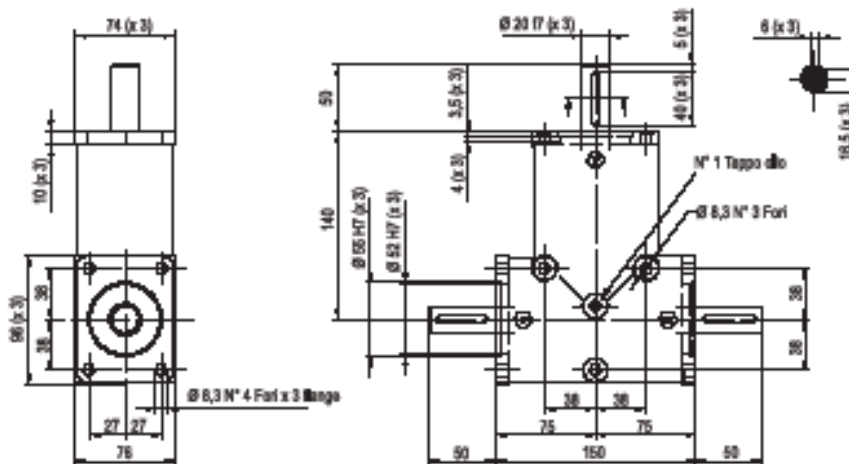
# REENVÍO ANGULAR DE PRECISIÓN

MEDIDA 3

MODELO RB

SERIE CHT

|  | RELACION | ENTRADA | SALIDA | REFERENCIA    | PESO |
|--|----------|---------|--------|---------------|------|
|  | 1/1      | A       | B      | R-20-1:1DA/B  | 3,4  |
|  | 1/1      | A       | C      | R-20-1:1DA/C  |      |
|  | 1/2      | A       | B      | R-20-1:2DA/B  |      |
|  | 1/2      | A       | C      | R-20-1:2DA/C  |      |
|  | 1/1      | A       | B-C    | R-20-1:1DA/BC | 3,5  |
|  | 1/2      | A       | B-C    | R-20-1:2DA/BC |      |

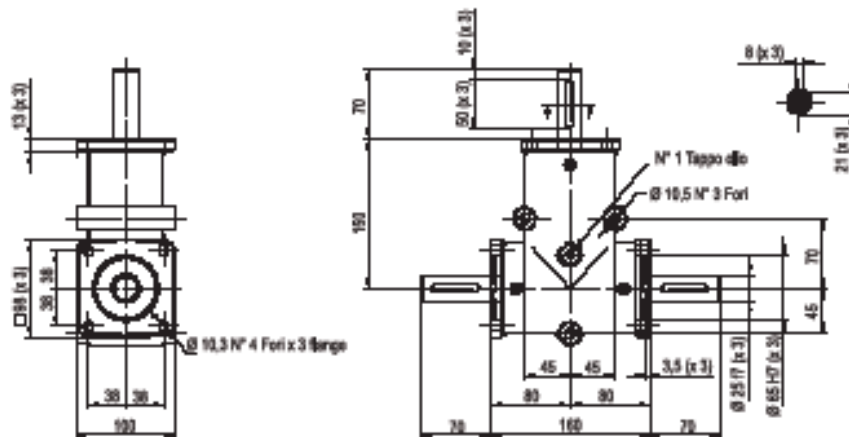


MEDIDA 4

MODELO RB

SERIE CHT

|  | RELACION | ENTRADA | SALIDA | REFERENCIA    | PESO |
|--|----------|---------|--------|---------------|------|
|  | 1/1      | A       | B      | R-25-1:1DA/B  | 5,5  |
|  | 1/1      | A       | C      | R-25-1:1DA/C  |      |
|  | 1/2      | A       | B      | R-25-1:2DA/B  |      |
|  | 1/2      | A       | C      | R-25-1:2DA/C  |      |
|  | 1/1      | A       | B-C    | R-25-1:1DA/BC | 5,8  |
|  | 1/2      | A       | B-C    | R-25-1:2DA/BC |      |









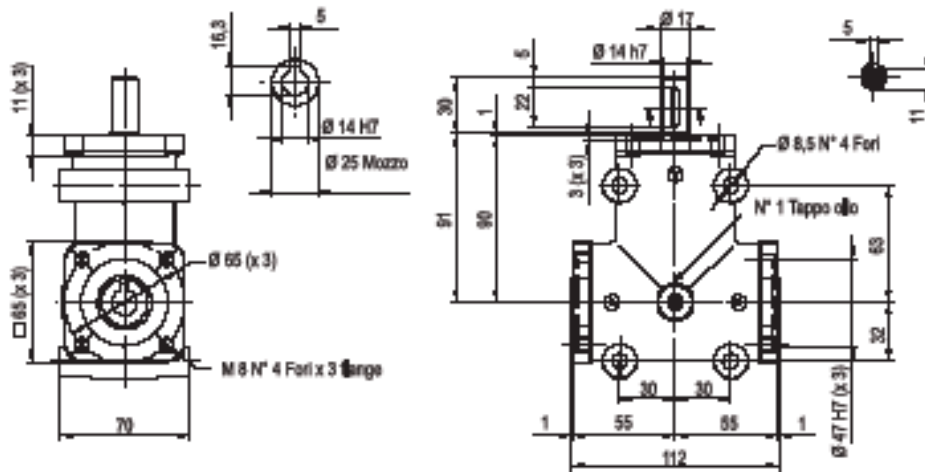
# REENVÍO ANGULAR DE PRECISIÓN

MEDIDA 3

MODELO RP

SERIE CHT

|  | RELACION | ENTRADA | SALIDA | REFERENCIA    | PESO Kg. |
|--|----------|---------|--------|---------------|----------|
|  | 1/1      | A       | B-C    | RP14-1:1DA/BC | 1,9      |
|  | 1/2      | A       | B-C    | RP14-1:2DA/BC |          |
|  | 1/3      | A       | B-C    | RP14-1:3DA/BC |          |

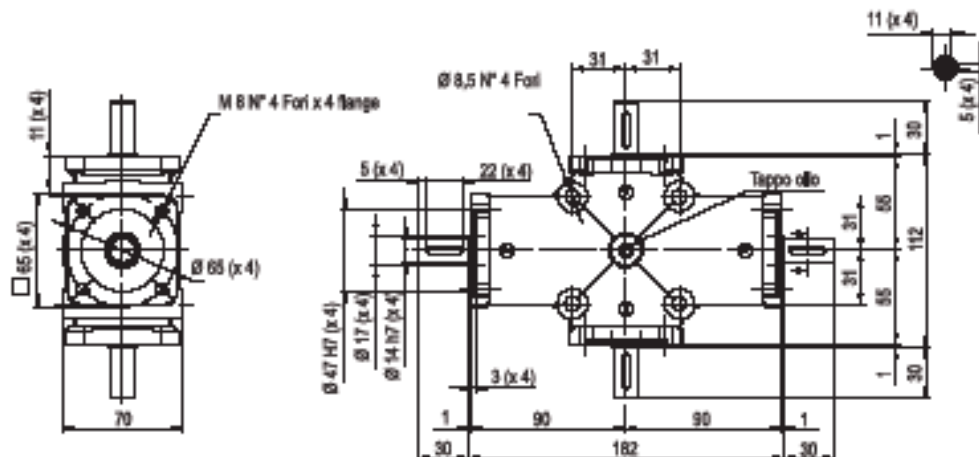


MEDIDA 4

MODELO RP

SERIE CHT

|  | RELACION | ENTRADA | SALIDA | REFERENCIA    | PESO Kg. |
|--|----------|---------|--------|---------------|----------|
|  | 1/1      | A       | B-C    | R414-1:1DA/BC | 3,2      |
|  | 1/1      | A       | C-D    | R414-1:1DA/CD |          |
|  | 1/2      | A       | B-C    | R414-1:2DA/BC |          |
|  | 1/2      | A       | C-D    | R414-1:2DA/CD |          |
|  | 1/3      | A       | B-C    | R414-1:3DA/BC |          |
|  | 1/3      | A       | C-D    | R414-1:3DA/CD |          |
|  | 1/1      | A       | B-C-D  | R14-1:1DA/BCD |          |
|  | 1/2      | A       | B-C-D  | R14-1:2DA/BCD |          |
|  | 1/3      | A       | B-C-D  | R14-1:3DA/BCD |          |





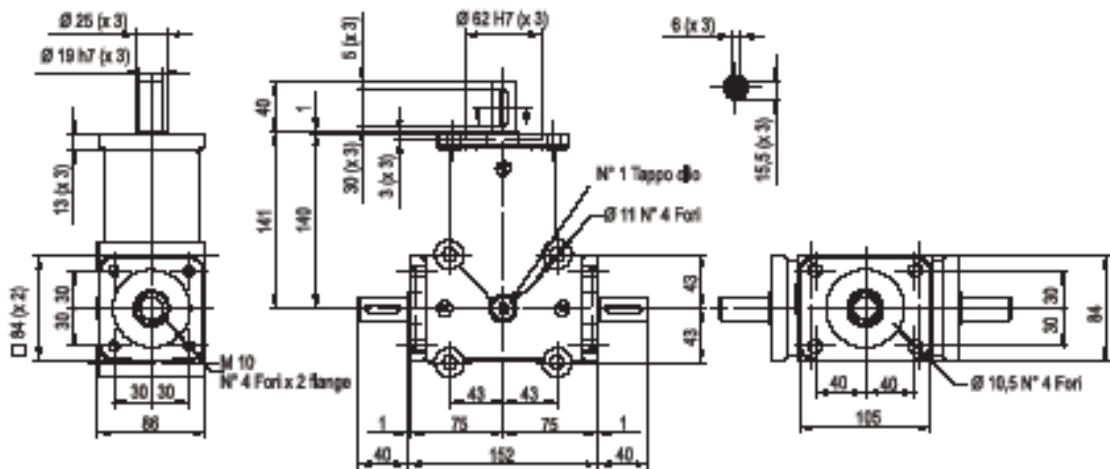
# REENVÍO ANGULAR DE PRECISIÓN

MEDIDA 5

MODELO RP

SERIE CHT

|  | RELACION | ENTRADA | SALIDA | REFERENCIA    | PESO Kg. |
|--|----------|---------|--------|---------------|----------|
|  | 1/1      | A       | B      | R-19-1:1DA/B  | 4,5      |
|  | 1/1      | A       | C      | R-19-1:1DA/C  |          |
|  | 1/2      | A       | B      | R-19-1:2DA/B  |          |
|  | 1/2      | A       | C      | R-19-1:2DA/C  |          |
|  | 1/3      | A       | B      | R-19-1:3DA/B  |          |
|  | 1/3      | A       | C      | R-19-1:3DA/C  |          |
|  | 1/1      | A       | B-C    | R-19-1:1DA/BC |          |
|  | 1/2      | A       | B-C    | R-19-1:2DA/BC |          |
|  | 1/3      | A       | B-C    | R-19-1:3DA/BC |          |

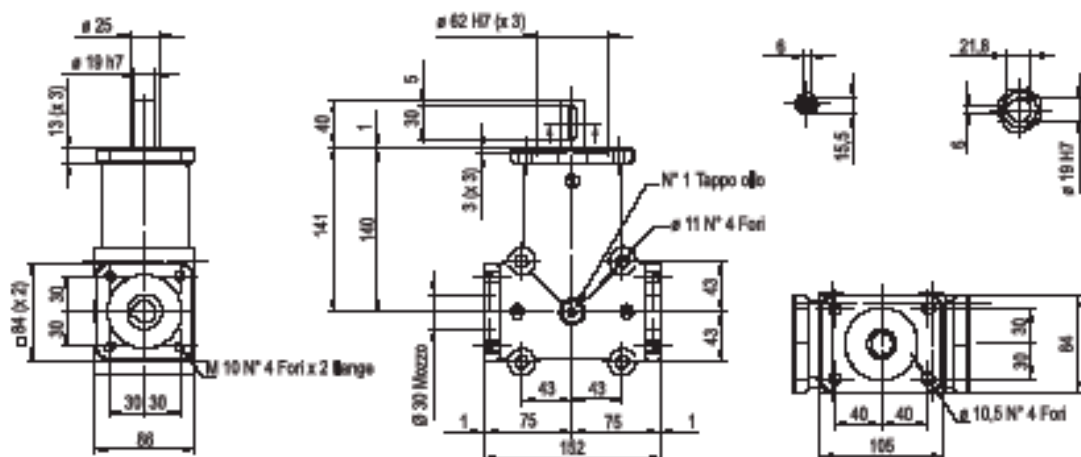


MEDIDA 6

MODELO RP

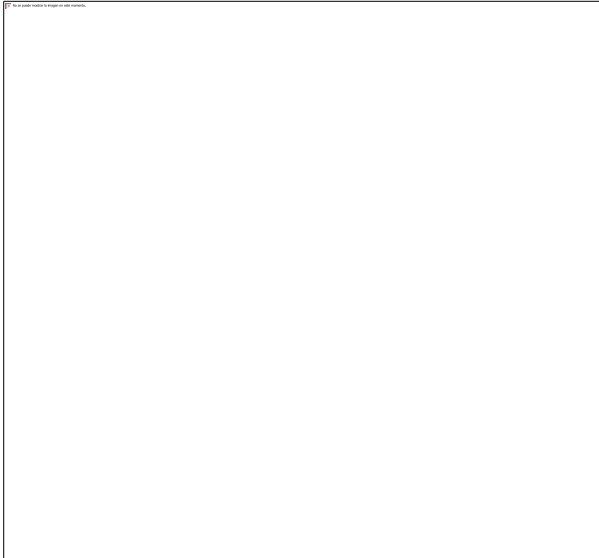
SERIE CHT

|  | RELACION | ENTRADA | SALIDA | REFERENCIA     | PESO Kg. |
|--|----------|---------|--------|----------------|----------|
|  | 1/1      | A       | B-C    | RP-19-1:1DA/BC | 4,4      |
|  | 1/2      | A       | B-C    | RP-19-1:2DA/BC |          |
|  | 1/3      | A       | B-C    | RP-19-1:3DA/BC |          |









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