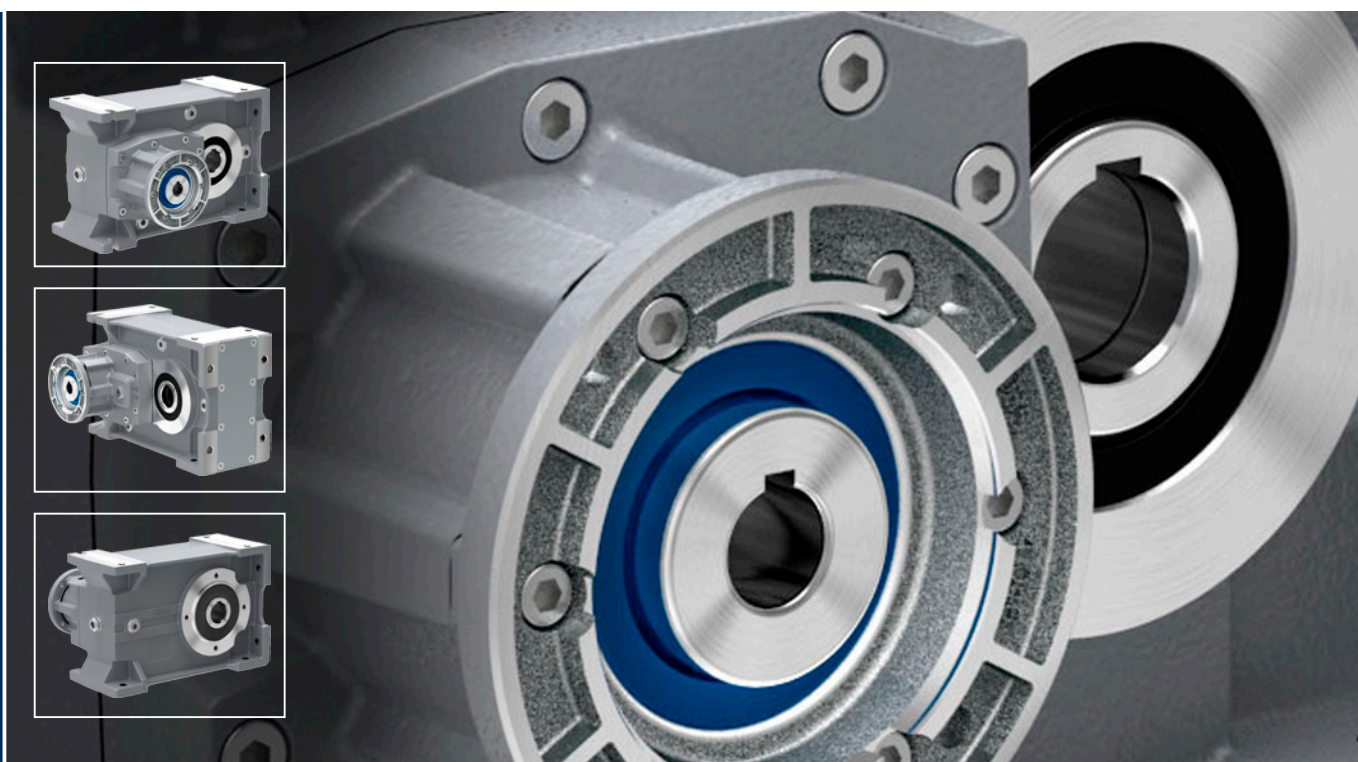


REDUCTORES

ejes paralelos serie H



STORE ASSEMBLY CENTER

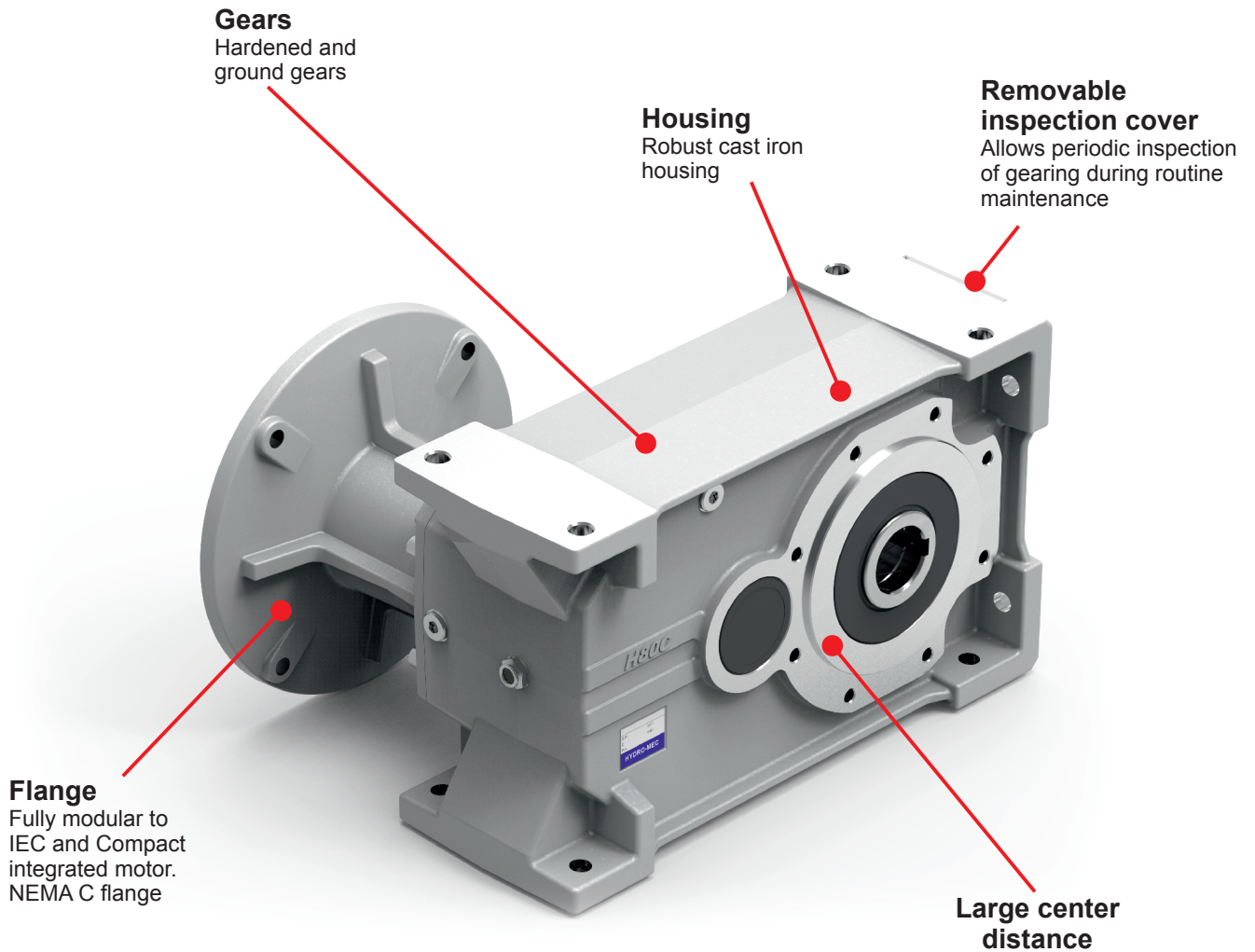
CT-P-H-AD017



catálogo general

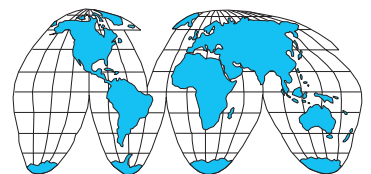
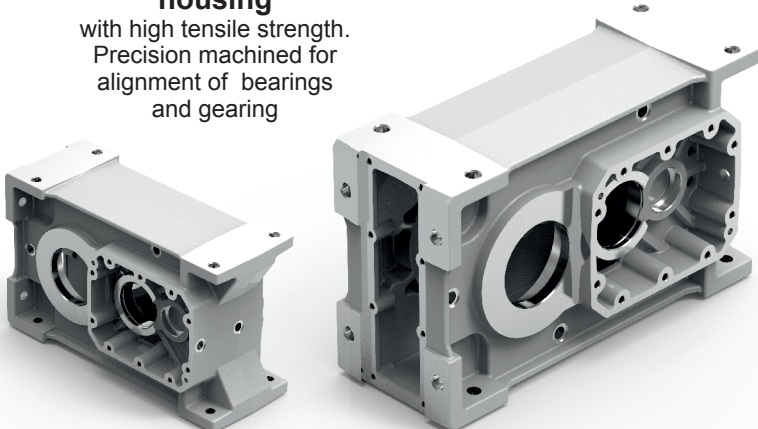
Cast iron parallel shaft gearboxes

A modular and compact product



Single-piece Cast Iron housing

with high tensile strength. Precision machined for alignment of bearings and gearing

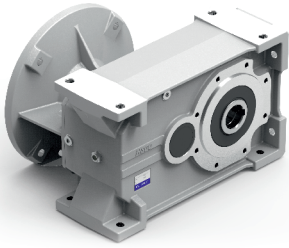


World wide sales network.

Specific type datasheet on page...

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1 Stage

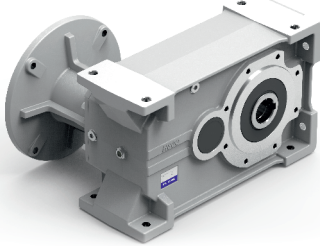


| 8-5 | 8-11 | 8-17 |
|----------------------|----------------------|-----------------------|
| H61C 380Nm | H71C 670Nm | H81C 1175Nm |

Types / Tipi /
Tipen / Types /
Tipos

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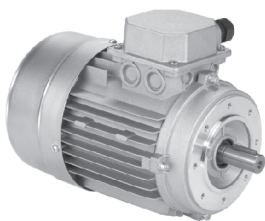
2 and 3 Stage



| 8-7 | 8-9 | 8-13 | 8-15 | 8-19 | 8-21 |
|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|
| H62C 675Nm | H63C 675Nm | H72C 900Nm | H73C 900Nm | H82C 2100Nm | H83C 2100Nm |

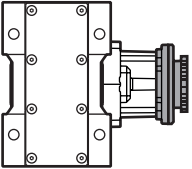
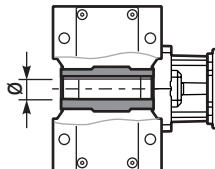
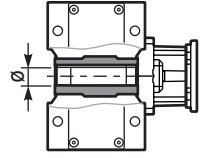
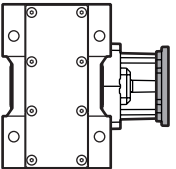
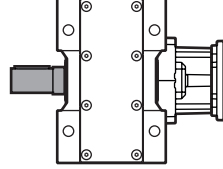
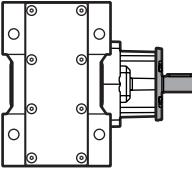
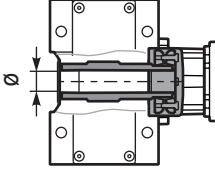
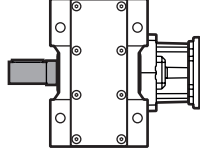
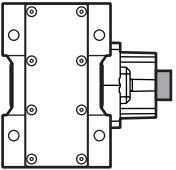
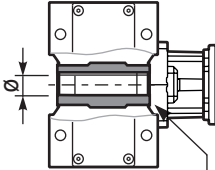
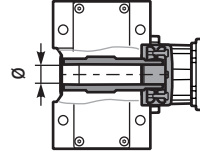
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Tipos

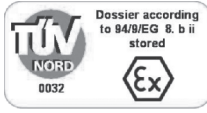
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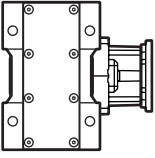
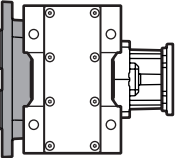
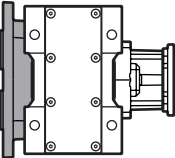







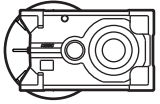

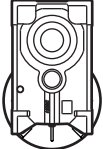
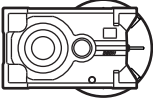
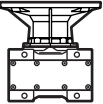
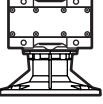
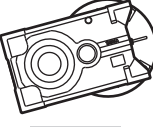
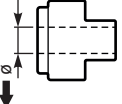
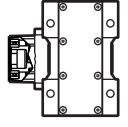
Types / Tipi /
Tipen / Types /
Tipos

| M-1 | | | | | | | | | | |
|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------------|-------------|---------------------|---------------------|---------------------|--|
| 56A 56B | 63A 63B | 71A 71B | 80A 80B | 90S 90L | 100LA 100LB | 112M | 132S 132M | 160M 160L | 180M 180L | |

| Type - Tipo - Typ Type - Tipo | Size - Grandezza - Grösse Taille - Tomaño | Mounting - Montaggio Montage - Fixation Tipo de montaje | Rapporto - Ratio Untersetzung Reduction - Relacion | Output shaft Albero uscita Abtriebswelle Arbre de sortie Eje en salida |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M | H62C | C | 12.39 | -E |
| <p>Parallel shaft helical Riduttori ad assi paralleli</p>  <p>With IEC motor M</p> | <p>1 Stage Riduzione Stufe Trains Etapas</p> <p>2 Stages Riduzioni Stufen Trains Etapas</p> <p>3 Stages Riduzioni Stufen Trains Etapas</p> <p>Cast Iron/Ghisa/Grauguss/Fonfe/Fundicion</p> |  <p>Hollow output shaft C</p> | <p>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Technisches Datenblatt beachten</p> <p>Voir Tableau données techniques</p> <p>Ver tabla datos técnicos</p> |  <p>STANDARD ⇒ Only on request for Q.ty A richiesta per quantità</p> |
|  <p>With motor flange P</p> | <p>H61C H71C H81C</p> <p>H62C H72C H82C</p> <p>H63C H73C H83C</p> |  <p>Single output shaft A</p> | | <p>H61C H62C H63C -E ⇒ $\varnothing 35$ -F ⇒ $\varnothing 40$</p> <p>H71C H72C H73C -F ⇒ $\varnothing 40$ -G ⇒ $\varnothing 45$</p> <p>H81C H82C H83C -H ⇒ $\varnothing 50$ -I ⇒ $\varnothing 55$</p> |
|  <p>With male input shaft R</p> | |  <p>Shrink Disk D</p> <p>Only on request for Q.ty A richiesta per quantità</p> | |  <p>Single output shaft</p> <p>-N H61/2/3C ⇒ $\varnothing 35$ -O H71/2/3C ⇒ $\varnothing 40$ -K H81/2/3C ⇒ $\varnothing 50$</p> |
|  <p>Modular base B</p> <p>Not available for: H61C, H71C, H81C, H82C</p> | |  <p>Stainless steel hub I</p> <p>On request for q.ty</p> <p>Stainless steel hub Mozzo in acciaio Inox Edelstahlhohlwelle Moyeu en acier Inox Nucleo corona de acero Inox</p> | |  <p>Shrink disk</p> <p>-T H62/3C ⇒ $\varnothing 35$ -U H72/3C ⇒ $\varnothing 40$ -V H82/3C ⇒ $\varnothing 50$</p> |



On request we can deliver our products according to the ATEX
 A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX
 Auf Anfrage können wir unsere Produkte den Richtlinien ATEX entsprechend liefern
 Sur demande nos produits peuvent se conformer à la réglementation ATEX
 A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

| Type - Tipo - Typ Types - Tipo | Output flange Flangia uscita Ausgangsflansch Bride de sortie Brida en salida | Motor size - Grandezza motore Motor Grösse Grandeur moteur - Tamaño motor | Terminal box position Posizione morsettiera Klemmkastenlage Position boîte à bornes Posición caja de bornes | Mounting position Posizione montaggio Einbaulage Position de montage Posición de montaje | Coupling Giunto Kupplung Joint Juntura | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -N | N | -C | B | B3 | C | |
|  <p>-N Senza flangia Without flange</p>  <p>-F Whit output flange con flangia uscita</p> |  <p>N Senza flangia Without flange</p> <p>H61C H62C H63C</p> <p>4 → ∅250</p> <p>H71C H72C H73C</p> <p>4 → ∅250</p> <p>5 → ∅300</p> <p>H81C H82C H83C</p> <p>5 → ∅300</p> <p>6 → ∅350</p> <p>7 → ∅400</p> | <p>Flange Flangia</p>  <p>B5</p> <p>-A=56 (∅120)</p> <p>-B=63 (∅140)</p> <p>-C=71 (∅160)</p> <p>-D=80 (∅200)</p> <p>-E=90 (∅200)</p> <p>-F=100+112 (∅250)</p> <p>-G=132 (∅300)</p> <p>-H=160 (∅350)</p> <p>-I=180 (∅350)</p> <p>B14</p> <p>-O=56 (∅80)</p> <p>-P=63 (∅90)</p> <p>-Q=71 (∅105)</p> <p>-R=80 (∅120)</p> <p>-T=90 (∅140)</p> <p>-U=100+112 (∅160)</p> <p>-V=132 (∅200)</p> | <p>Type R Tipo R</p>  <p>H63C H73C</p> <p>-2 → ∅19</p> <p>H62C H72C H83C</p> <p>-3 → ∅24</p> <p>H82C</p> <p>-4 → ∅28</p> <p>Without flange Senza flangia</p>  <p>H63C H73C</p> <p>-1 → ∅14 (71B5)</p> <p>-2 → ∅19 (80B5)</p> <p>-3 → ∅24 (90B5)</p> <p>-4 → ∅28 (100B5)</p> <p>H62C H72C H83C</p> <p>-2 → ∅19 (80B5)</p> <p>-3 → ∅24 (90B5)</p> <p>-4 → ∅28 (100B5)</p> |  <p>A</p>  <p>B STANDARD</p>  <p>C</p>  <p>D</p> |  <p>B3 STANDARD</p>  <p>B6</p>  <p>B7</p>  <p>B8</p>  <p>V5</p>  <p>V6</p>  <p>V8</p> | <p>-</p> <p>Nothing indication: standard bore</p> <p>Nessuna indicazione: foro standard</p> <p>COUPLING</p>  <p>A = 9mm B = 11mm C = 14mm D = 19mm E = 24mm F = 28mm</p> <p>0</p> <p>Without coupling Senza giunto</p>  |

POTENZA RICHIESTA / REQUIRED POWER / ERFORDERLICHE LEISTUNG / PUISSANCE NECESSAIRE / POTENCIA NECESARIA

Lifting / sollevamento / hubantriebe / levage / elevación

$$P [KW] = \frac{M [Kg] \cdot g [9.81] \cdot v [m / s]}{1000}$$

Rotation / rotazione / drehung / rotation / rotacion

$$P [KW] = \frac{M [Nm] \cdot n [rpm]}{9550}$$

Linear movement / traslazione / linearbewegung / translation / translacion

$$P [KW] = \frac{F [N] \cdot v [m / s]}{1000}$$

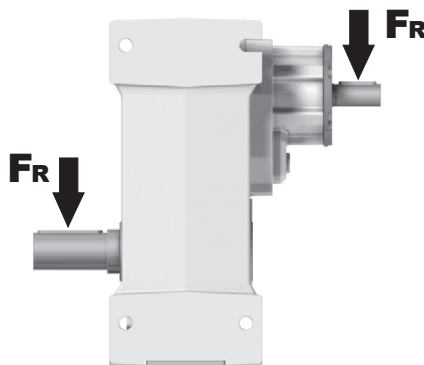
TORQUE / COPPIA / DREHMOMENT / COUPLE / PAR

$$M [Nm] = \frac{9550 \cdot P[KW]}{n [rpm]}$$

$$M [lb in] = \frac{63030 \cdot P[HP]}{n [rpm]}$$

RADIAL LOADS / CARICHI RADIALI / RADIALE - UND AXIALLASTEN / CHARGES RADIALES / CARGA RADIAL Y AXIAL

- Radial load generated by external transmissions keyed onto input and/or output shafts.
- Forza radiale generata da organi di trasmissione calettati sugli alberi di ingresso e/o uscita.
- Belastungen der Antriebs- bzw. Abtriebswellen durch von aussen eingebrachte Radiallasten.
- Charge radiale générée par la transmissions calés sur les entrées et / ou des arbres de sortie
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida



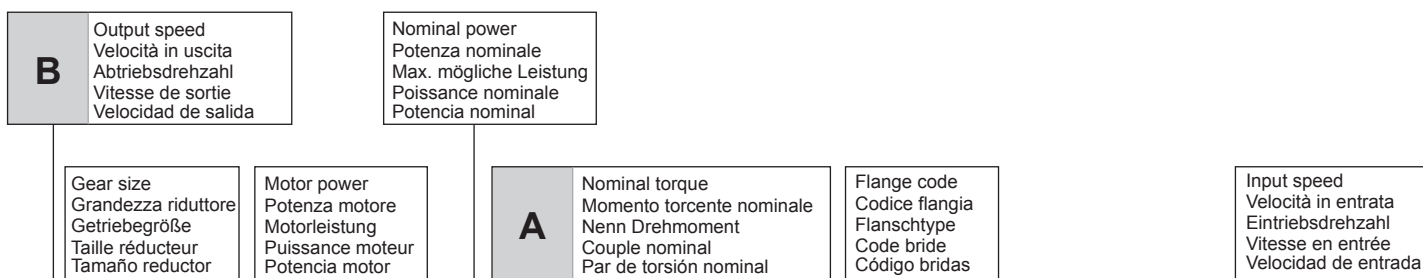
$$F_R [N] = \frac{M [Nm] \cdot 2000}{d [mm]} \cdot f_k$$

$$F_R [N] = \frac{M [lb in] \cdot 8.9}{d [in]} \cdot f_k$$

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M | Momento torcente / Output torque / Abtriebsdrehmoment / Couple / Par torsion |
| d | Diametro primitivo / Diam. of driving element / Durchmesser der Abtriebseinheit / Diamètre primitif / Diámetro primitivo |
| f_k | Coefficiente di trasformazione / Factor / Faktor / Coefficient de transmission / Coeficiente de transmisión 1.15 Ingranaggi / Gearwheels / Zahnrad / Engrenage / Engranaje 1.25 Catena / Chain sprockets / Antriebskette / Chaîne / Cadena 1.75 Cinghia Trapezoidale / Narrow v-belt pulley / Keilriemen / Courroie trap. / Correa trapezoidal 2.50 Cinghia piatta / Flat-belt pulley / Flachzahnriem. / Courroie crantée / Correa plana |

- If your application requires higher radial loads, contact our technical office. Higher load may be possible.
- Nel caso la vostra applicazione richieda carichi radiali superiori consultare il nostro ufficio tecnico, valori maggiori possono essere accettati.
- Wenn Ihre Anwendung höhere Radialbelastungen erfordert, so wenden Sie sich bitte an unser technischen Büro.
- Si votre application demande des charges radiales supérieures, s'adresser à notre bureau technique.
- En el caso en que una aplicación exija una carga radial superior a la especificada en el catálogo, consultar a nuestra oficinas técnica.

How to select a gearbox / Come selezionare un riduttore / Wie wählt man ein Getriebe
Comment sélectionner un réducteur / Cómo seleccionar un reductor

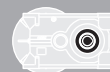


H62C

Cube gear 675Nm

Rating - Cast Iron

PARALLEL SHAFT GEARBOXES



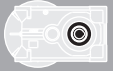
| QUICK SELECTION / Selezione veloce | | | | | | | input speed (n_1) = 1400 min ⁻¹ | | | | | | | | | | | | |
|-----------------------------------------------|--------------|---------------------------------|-----------------------------------|------------------------|-----------------------------------|------------------------------------|------------------------------------------------|----|----|----|----|-----------------------------|----|----|----|--------------|------|------------|----|
| Output Speed n_2 [min ⁻¹] | Ratio i | Motor power P_{1M} [kW] | Output torque M_{2M} [Nm] | Service factor f.s. | Nominal power P_{1R} [kW] | Nominal torque M_{2R} [Nm] | Available B5 motor flanges | | | | | Available B14 motor flanges | | | | Output Shaft | | | |
| | | | | | | | -C | -D | -E | -F | -G | -R | -T | -U | -V | | | Ratio code | |
| 213 | 6.57 | 7.5 | 312 | 1.2 | 8.8 | 380 | B | | | | | | | | | | 3018 | | 01 |
| 185 | 7.56 | 7.5 | 358 | 1.1 | 7.9 | 390 | B | | | | | | | | | | 3016 | | 02 |
| 159 | 8.82 | 7.5 | 419 | 1.0 | 7.1 | 410 | B | | | | | | | | | | 3014 | | 03 |
| 113 | 12.39 | 7.5 | 588 | 1.0 | 7.2 | 580 | B | | | | | | | | | | 2018 | | 04 |



| Type of load and starts per hour Tipo di carico e avviamenti per ora | | Oper. hours per day Ore di funz. giorn. | | |
|------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------|------|------|
| | | 3 h | 10 h | 24 h |
| Continuous or intermittent appl. with start / hour Applicazione cont. o interm. con n.ro operazioni/ora | Uniform / Uniforme | 0.8 | 1 | 1.25 |
| | Moderate / Moderato | 1 | 1.25 | 1.5 |
| | Heavy / Forte | 1.25 | 1.5 | 1.75 |
| Intermittent application with start / hour Applicazione intermittente con n.ro operazioni/ora | Uniform / Uniforme | 1 | 1.25 | 1.5 |
| | Moderate / Moderato | 1.25 | 1.5 | 1.75 |
| | Heavy / Forte | 1.5 | 1.75 | 2.15 |

| D | Motor flange available Flange disponibili Erhältliche Motorflansche Brides disponibles Bridas disponibles |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B) | Mounting with reduction ring Montaggio con boccia di riduzione Reduzierhülsen Montage avec douille de réduction Montaje con casquillo de reducción |
| C) | Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Bohrungsposition am Motorflansch/-socket Position trous bride/barrette à bornes moteur Posición agujeros brida / base motor |
| B) | Available without reduction bushes Disponibile anche senza boccia Auch ohne Reduzierbuchse verfügbar Disponible aussi sans douille de réduction Disponible también sin casquillo |

| | | | | | |
|----------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| A | Select required torque (according to service factor) | Seleziona la coppia desiderata (comprensiva del fattore di servizio) | Max. Drehmoment in Bezug zum Betriebsfaktor | Sélectionner le couple souhaité (comprenant le facteur de service) | Seleccionar el par deseado (incluyendo el factor de servicio) |
| B | Select output speed | Seleziona la velocità in uscita | Ausgewählte Abtriebsdrehzahl | Sélectionner la vitesse de sortie | Seleccionar la velocidad de salida |
| C | On the same line of selected geared motor, you can find the gear ratio | Sulla riga corrispondente alla motorizzazione prescelta si può rilevare il rapporto di riduzione | Auf der gleichen Linie wie die ausgewählte Motorleistung steht auch die Getriebeuntersetzung | Sur la ligne correspondante à la motorisation pré-choisie on peut relever le rapport de réduction | En la línea correspondiente al motor preseleccionado es posible encontrar la relación de reducción |
| D | Select motor flange available (if requested) | Scegli la flangia disponibile (se richiesta) | Erhältliche Motorflansche (auf Anfrage) | Choisir la bride disponible (si elle est demandée) | Seleccionar la brida disponible (sobre pedido) |



▪ **QUICK SELECTION** / Selezione veloce

input speed (n_1) = 1400 min⁻¹

| Output Speed n_2 [min ⁻¹] | Ratio i | Motor power P_{1M} [kW] | Output torque M_{2M} [Nm] | Service factor f.s. | Nominal power P_{1R} [kW] | Nominal torque M_{2R} [Nm] | Available B5 motor flanges | | B14 motor flanges | | | | Output Shaft | | |
|-----------------------------------------------|--------------|---------------------------------|-----------------------------------|------------------------|-----------------------------------|------------------------------------|----------------------------|-----|----------------------|---|---|---|--------------|-----------------|----|
| | | | | | | | -G | 132 | - | - | - | - | - | - | - |
| 507 | 2.76 | 9 | 166 | 1.6 | 14.4 | 265 | | | not available | | | | 2980 | standard | 01 |
| 395 | 3.54 | 9 | 213 | 1.3 | 11.6 | 275 | | | | | | | 2485 | ø35 | 02 |
| 277 | 5.06 | 9 | 304 | 1.0 | 8.6 | 290 | | | | | | | 1891 | | 03 |
| 241 | 5.81 | 7.5 | 281 | 1.2 | 8.5 | 330 | | | | | | | 1693 | ø40 | 04 |
| 206 | 6.79 | 7.5 | 329 | 1.2 | 8.4 | 380 | | | | | | | 1495 | On request | 05 |

The dynamic efficiency is **0.98** for all ratios

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **H61C** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore **H61C** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.

D Das Getriebe **H61C** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur **H61C** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

E El reductor tamaño **H61C** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

| Standard supplied | For these mounting position specify in the order or add oil | | | | | | | |
|---------------------|---------------------------------------------------------------------|---------|---------|-----------------------|---------|-----|-----|-----|
| | Per queste posizioni specificare in fase d'ordine o aggiungere olio | | | | | | | |
| | | | | | | | | |
| B3 | B6 | B7 | B8 | V5 | V6 | V8 | V8 | V8 |
| 2.25 LT | 3.20 LT | 3.00 LT | 2.25 LT | 4.35 LT | 2.35 LT | Ask | Ask | Ask |
| AGIP Telium VSF 320 | | | | SHELL Omala S4 WE 320 | | | | |

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{149.5}{X+119.5}$

| n_2 | FA | FR | n_2 | FA | FR | n_2 | FA | FR |
|-------|-----|------|-------|-----|------|-------|------|------|
| 300 | 600 | 3000 | 140 | 720 | 3600 | 70 | 940 | 4700 |
| 250 | 640 | 3200 | 120 | 740 | 3700 | 40 | 1220 | 6100 |
| 200 | 690 | 3460 | 85 | 860 | 4300 | 15 | 1300 | 6500 |

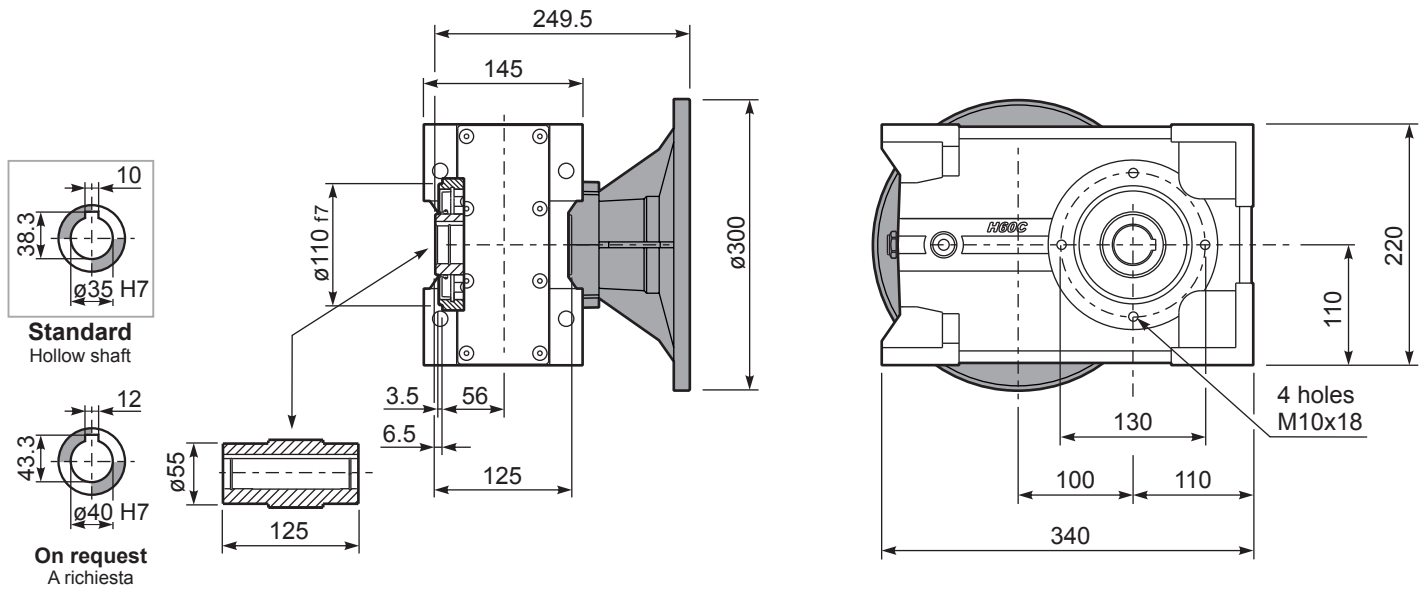
On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

tab. 2

PH61C...

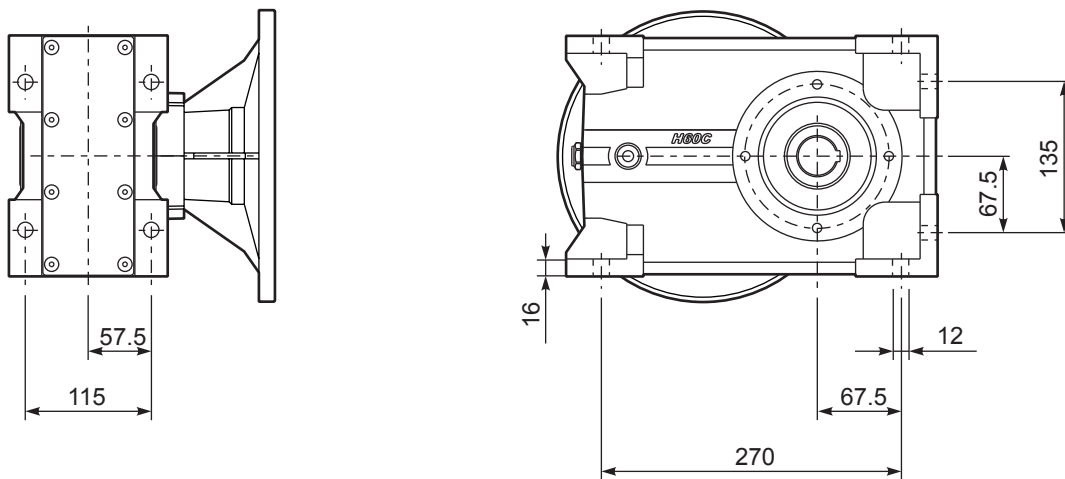
Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **40.0 kg**



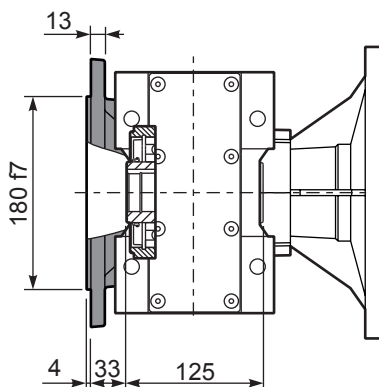
PH61C...-N

Feet
Piedini

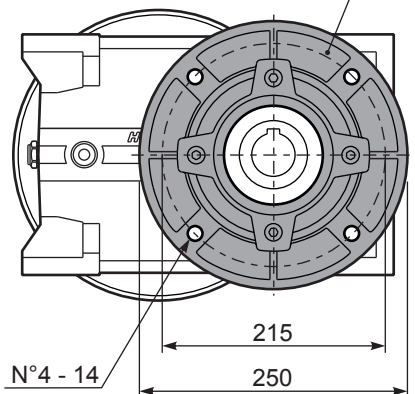


PH61C...-F

Output flange
Flangia uscita

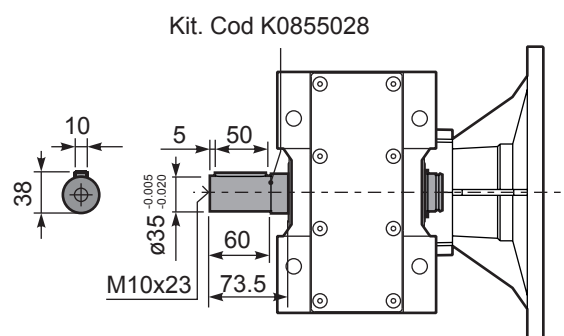


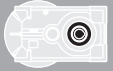
Kit. Cod KF609011



PH61C A...

Single output shaft
Albero uscita semplice





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

| Output Speed n_2 [min ⁻¹] | Ratio i | Motor power P_{1M} [kW] | Output torque M_{2M} [Nm] | Service factor f.s. | Nominal power P_{1R} [kW] | Nominal torque M_{2R} [Nm] | Available B5 motor flanges | | | | | Available B14 motor flanges | | | | Output Shaft | Ratios code | |
|-----------------------------------------------|--------------|---------------------------------|-----------------------------------|------------------------|-----------------------------------|------------------------------------|----------------------------|----|----|------------|-----|-----------------------------|----|------------|-----|------------------|-------------|----|
| | | | | | | | -C | -D | -E | -F | -G | -R | -T | -U | -V | | | |
| | | | | | | | 71 | 80 | 90 | 100 112 | 132 | 80 | 90 | 100 112 | 132 | | | |
| 213 | 6.57 | 7.5 | 312 | 1.2 | 8.8 | 380 | B | | | | | | | | | | 3018 | 01 |
| 185 | 7.56 | 7.5 | 358 | 1.1 | 7.9 | 390 | B | | | | | | | | | | 3016 | 02 |
| 159 | 8.82 | 7.5 | 419 | 1.0 | 7.1 | 410 | B | | | | | | | | | | 3014 | 03 |
| 113 | 12.39 | 7.5 | 588 | 1.0 | 7.2 | 580 | B | | | | | | | | | | 2018 | 04 |
| 98 | 14.24 | 5.5 | 499 | 1.2 | 6.4 | 600 | B | | | | | | | | | | 2016 | 05 |
| 84 | 16.75 | 5.5 | 587 | 1.1 | 6.1 | 665 | B | | | | | | | | | | 1618 | 06 |
| 73 | 19.25 | 5.5 | 675 | 1.0 | 5.4 | 675 | B | | | | | | | | | | 1616 | 07 |
| 64 | 21.78 | 4 | 558 | 1.2 | 4.7 | 675 | B | | | | | | | | | | 1318 | 08 |
| 56 | 25.04 | 4 | 642 | 1.1 | 4.1 | 675 | B | | | | | | | | | | 1316 | 09 |
| 47.9 | 29.23 | 4 | 750 | 0.9 | 3.5 | 675 | B | | | | | | | | | | 1314 | 10 |
| 45.7 | 30.65 | 3 | 592 | 1.1 | 3.4 | 675 | B | | | | | | | | | | 1116 | 11 |
| 39.1 | 35.78 | 3 | 691 | 1.0 | 2.9 | 675 | B | | | | | | | | | | 1114 | 12 |
| 36.3 | 38.55 | 2.2 | 548 | 1.1 | 2.3 | 580 | B | | | | | | | | | | 818 | 13 |
| 31.6 | 44.32 | 2.2 | 630 | 1.1 | 2.3 | 665 | B | | | | | | | | | | 816 | 14 |
| 27.1 | 51.74 | 2.2 | 735 | 0.9 | 2.0 | 675 | B | | | | | | | | | | 814 | 15 |
| 22.9 | 61.03 | 1.1 | 437 | 1.1 | 1.2 | 480 | B | | | | | | | | | | 616 | 16 |
| 19.6 | 71.25 | 1.1 | 510 | 1.1 | 1.2 | 560 | B | | | | | | | | | | 614 | 17 |

The dynamic efficiency is **0.96** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **H62C** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore **H62C** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.

D Das Getriebe **H62C** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur **H62C** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

E El reductor tamaño **H62C** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

| Standard supplied | For these mounting position specify in the order or add oil | | | | | |
|---------------------|---------------------------------------------------------------------|---------|-----------------------|---------|---------|-----|
| | Per queste posizioni specificare in fase d'ordine o aggiungere olio | | | | | |
| | | | | | | |
| B3 | B6 | B7 | B8 | V5 | V6 | V8 |
| 2.25 LT | 3.20 LT | 3.00 LT | 2.25 LT | 4.35 LT | 2.35 LT | Ask |
| AGIP Telium VSF 320 | | | SHELL Omala S4 WE 320 | | | |

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{149.5}{X+119.5}$

| n_2 | FA | FR | n_2 | FA | FR | n_2 | FA | FR |
|-------|-----|------|-------|-----|------|-------|------|------|
| 300 | 600 | 3000 | 140 | 720 | 3600 | 70 | 940 | 4700 |
| 250 | 640 | 3200 | 120 | 740 | 3700 | 40 | 1220 | 6100 |
| 200 | 690 | 3460 | 85 | 860 | 4300 | 15 | 1300 | 6500 |

On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

Input shaft
Albero in entrata

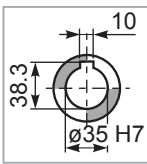
| n_1 | FA | FR |
|-------|-----|------|
| 1400 | 450 | 2250 |
| 900 | 500 | 2500 |
| 500 | 600 | 3000 |

tab. 2

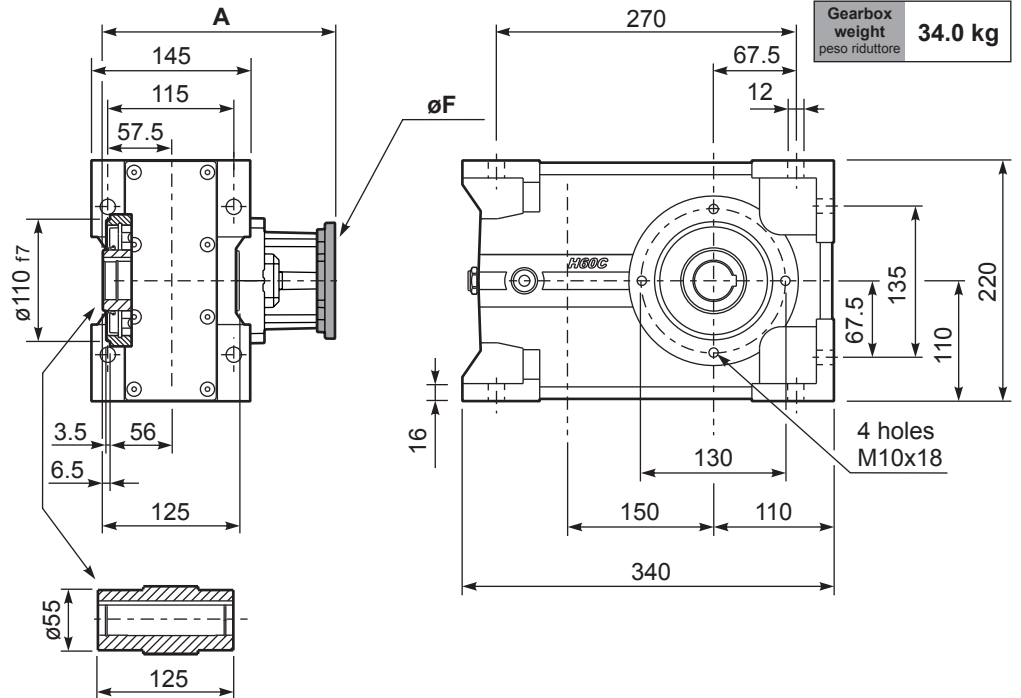
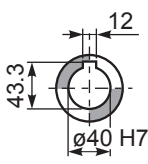
PH62C... Basic gearbox
Riduttore base

| M. flanges | Kit code | øF | A |
|-------------------|-------------|-----|-----|
| 71B5 | KC023.4.041 | 160 | 227 |
| 80/90B5 | KC023.4.042 | 200 | 229 |
| 100/112B5 | KC023.4.043 | 250 | 238 |
| 132B5 | KC50.4.043 | 300 | 256 |
| 80B14 | KC085.4.046 | 120 | 229 |
| 90B14 | KC085.4.045 | 140 | 229 |
| 100/112B14 | KC085.4.047 | 160 | 238 |
| 132B14 | KC50.4.041 | 200 | 256 |

Standard
Hollow shaft

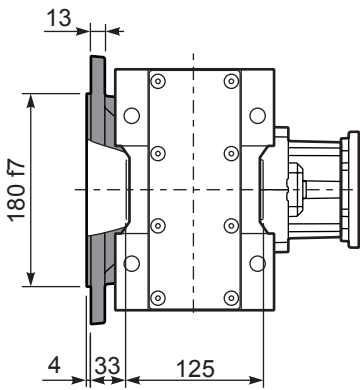


On request
A richiesta

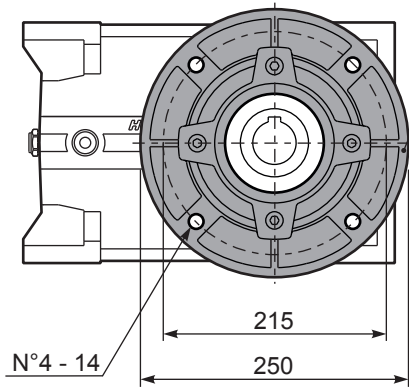


Gearbox weight
peso riduttore **34.0 kg**

PH62C...-F Output flange
Flangia uscita

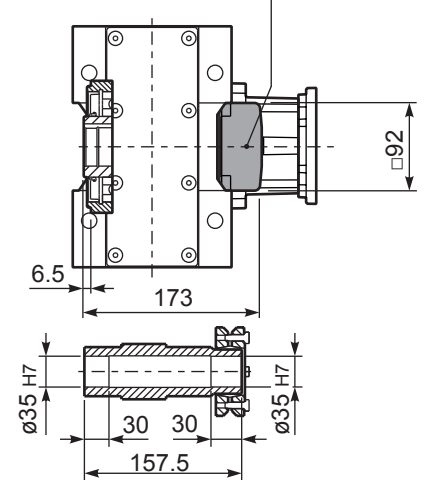


Kit. Cod KF609011

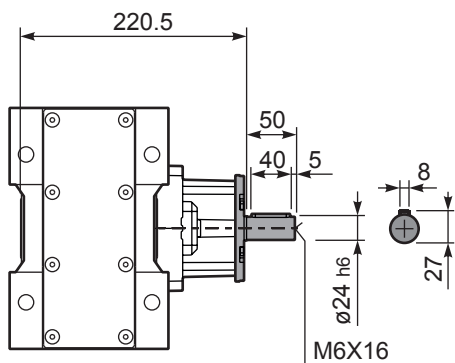


PH62C D... Shrink disk
Calettatore

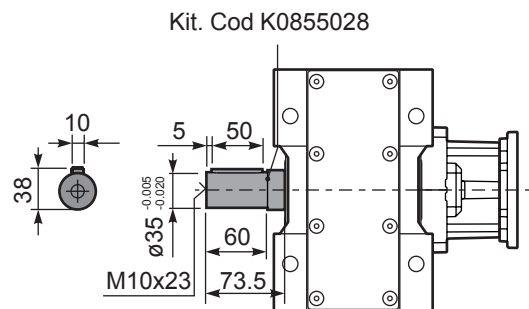
Kit. Cod KF600210LM

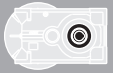


RH62C... Input Shaft
Albero in entrata



PH62C A... Single output shaft
Albero uscita semplice





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

| Output Speed n_2 [min ⁻¹] | Ratio i | Motor power P_{1M} [kW] | Output torque M_{2M} [Nm] | Service factor $f.s.$ | Nominal power P_{1R} [kW] | Nominal torque M_{2R} [Nm] | Available B5 motor flanges | | | | Available B14 motor flanges | | | Output Shaft | Ratios code |
|-----------------------------------------------|---------------|---------------------------------|-----------------------------------|--------------------------|-----------------------------------|------------------------------------|----------------------------|----|----|----|-----------------------------|----|----|------------------|-------------|
| | | | | | | | -B | -C | -D | -E | -Q | -R | -T | | |
| | | | | | | | 63 | 71 | 80 | 90 | 71 | 80 | 90 | | |
| 22.6 | 61.89 | 1.5 | 594 | 1.1 | 1.7 | 675 | B | | | | C | C | | 191318 | 01 |
| 19.7 | 71.16 | 1.5 | 683 | 1.0 | 1.5 | 675 | B | | | | C | C | | 191316 | 02 |
| 17.0 | 82.48 | 1.5 | 792 | 0.9 | 1.3 | 675 | B | | | | C | C | | 171316 | 03 |
| 14.5 | 96.29 | 1.1 | 675 | 1.0 | 1.1 | 675 | B | | | | C | C | | 171314 | 04 |
| 13.9 | 100.51 | 1.1 | 705 | 1.0 | 1.0 | 675 | B | | | | C | C | | 131318 | 05 |
| 12.1 | 115.56 | 0.75 | 556 | 1.2 | 0.91 | 675 | B | | | | C | C | | 131316 | 06 |
| 11.1 | 125.96 | 0.75 | 606 | 1.1 | 0.82 | 665 | B | | | | C | C | | 190816 | 07 |
| 10.4 | 134.91 | 0.75 | 649 | 1.0 | 0.78 | 675 | B | | | | C | C | | 131314 | 08 |
| 9.5 | 147.05 | 0.75 | 707 | 1.0 | 0.72 | 675 | B | | | | C | C | | 190814 | 09 |
| 8.2 | 170.44 | 0.55 | 605 | 1.1 | 0.62 | 675 | B | | | | C | C | | 170814 | 10 |
| 7.6 | 184.15 | 0.55 | 653 | 1.0 | 0.57 | 675 | B | | | | C | C | | 101314 | 11 |
| 6.8 | 205.87 | 0.55 | 730 | 0.9 | 0.51 | 675 | B | | | | C | C | | 91316 | 12 |
| 5.8 | 240.34 | 0.37 | 570 | 1.2 | 0.44 | 675 | B | | | | C | C | | 91314 | 13 |
| 5.0 | 279.22 | 0.37 | 662 | 1.0 | 0.37 | 665 | B | | | | C | C | | 100816 | 14 |
| 4.3 | 325.97 | 0.37 | 773 | 0.9 | 0.32 | 675 | B | | | | C | C | | 100814 | 15 |
| 3.8 | 364.41 | 0.25 | 583 | 1.1 | 0.28 | 665 | B | | | | C | C | | 90816 | 16 |
| 3.3 | 425.43 | 0.25 | 681 | 1.0 | 0.25 | 675 | B | | | | C | C | | 90814 | 17 |
| 2.9 | 481.19 | 0.18 | 589 | 1.1 | 0.22 | 665 | B | | | | C | C | | 70816 | 18 |
| 2.5 | 561.76 | 0.18 | 687 | 1.0 | 0.19 | 675 | B | | | | C | C | | 70814 | 19 |

The dynamic efficiency is **0.94** for all ratios

- Motor Flanges Available Flange Motore Disponibili
- Supplied with Reduction Bushing Fornito con Bussola di Riduzione
- Available on Request without reduction bushing Disponibile a Richiesta senza Bussola di Riduzione
- Motor Flange Holes Position Posizione Fori Flangia Motore

EN Unit **H63C** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore **H63C** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.

D Das Getriebe **H63C** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur **H63C** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

E El reductor tamaño **H63C** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

| Standard supplied | For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio | | | | | | | |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-----------------------|---------|-----|-----|-----|
| | | | | | | | | |
| B3 | B6 | B7 | B8 | V5 | V6 | V8 | V8 | V8 |
| 2.35 LT | 3.85 LT | 3.15 LT | 2.35 LT | 4.55 LT | 2.50 LT | Ask | Ask | Ask |
| AGIP Telium VSF 320 | | | | SHELL Omala S4 WE 320 | | | | |

For all details on lubrication and plugs check our website
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web **tab. 1**

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{149.5}{X+119.5}$

| n_2 | FA | FR | n_2 | FA | FR | n_2 | FA | FR |
|-------|-----|------|-------|-----|------|-------|------|------|
| 300 | 600 | 3000 | 140 | 720 | 3600 | 70 | 940 | 4700 |
| 250 | 640 | 3200 | 120 | 740 | 3700 | 40 | 1220 | 6100 |
| 200 | 690 | 3460 | 85 | 860 | 4300 | 15 | 1300 | 6500 |

On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

Input shaft
Albero in entrata

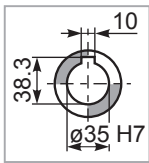
| n_1 | FA | FR |
|-------|-----|------|
| 1400 | 240 | 1200 |
| 900 | 280 | 1400 |
| 500 | 340 | 1700 |

tab. 2

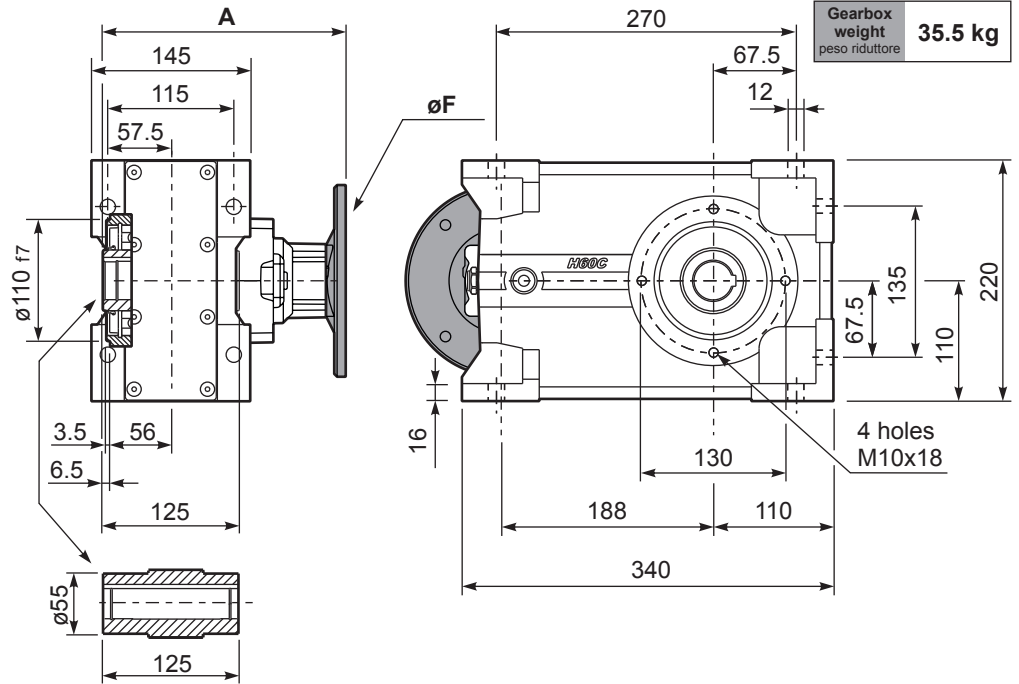
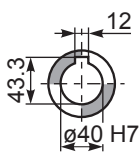
PH63C... Basic gearbox
Riduttore base

| M. flanges | Kit code | øF | A |
|----------------|------------|-----|-----|
| 63B5 | K063.4.041 | 140 | 239 |
| 71B5 | K063.4.042 | 160 | 237 |
| 80/90B5 | K063.4.043 | 200 | 239 |
| 71B14 | K063.4.047 | 105 | 237 |
| 80B14 | K063.4.046 | 120 | 239 |
| 90B14 | K063.4.041 | 140 | 239 |

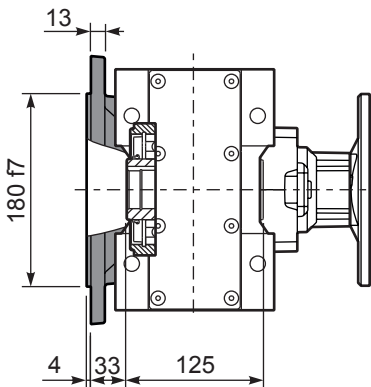
Standard
Hollow shaft



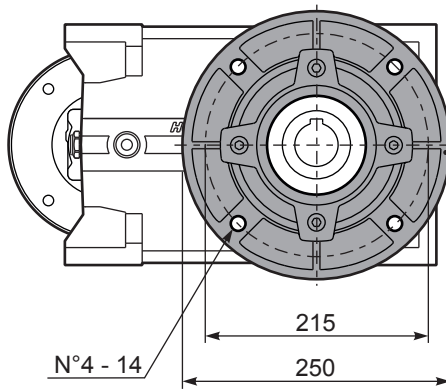
On request
A richiesta



PH63C...-F Output flange
Flangia uscita

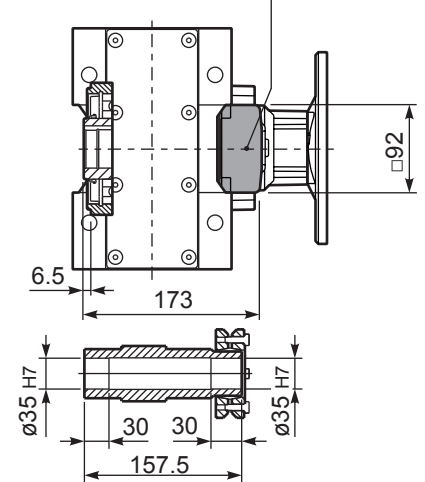


Kit. Cod KF609011

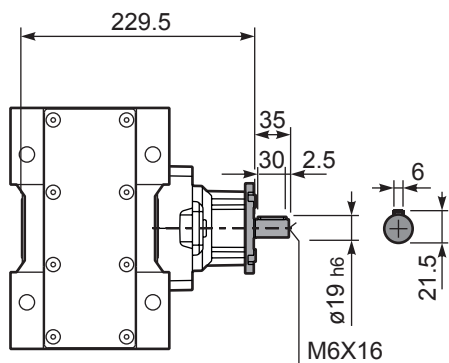


PH63C D... Shrink disk
Calettatore

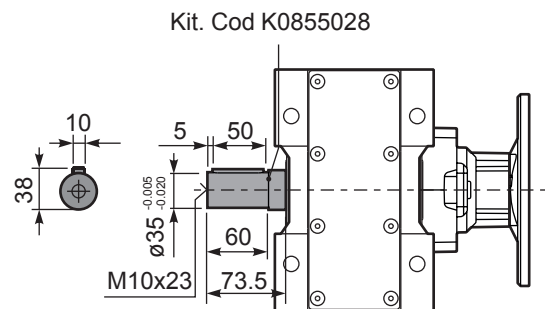
Kit. Cod KF600210LM



RH63C... Input Shaft
Albero in entrata



PH63C A... Single output shaft
Albero uscita semplice





▪ **QUICK SELECTION** / Selezione veloce

input speed (n_1) = 1400 min⁻¹

| Output Speed n_2 [min ⁻¹] | Ratio i | Motor power P_{1M} [kW] | Output torque M_{2M} [Nm] | Service factor f.s. | Nominal power P_{1R} [kW] | Nominal torque M_{2R} [Nm] | Available B5 motor flanges | | | | B14 motor flanges | | | | Output Shaft | | | | | | |
|------------------------------------------------------|--------------|---------------------------------|-----------------------------------|------------------------|-----------------------------------|------------------------------------|----------------------------|--|--|--|----------------------|--|------------|--|--------------|-----------------|----|---|-------|------------|----|
| | | | | | | | -G | | | | | | | | Ratios code | | | | | | |
| 227 | 6.17 | 9 | 371 | 1.2 | 10.9 | 450 | | | | | not available | | | | 18111 | standard | 01 | | | | |
| 198 | 7.06 | 9 | 425 | 1.4 | 12.7 | 600 | | | | | | | | | - | - | - | - | 16113 | ø40 | 02 |
| 170 | 8.21 | 9 | 494 | 1.4 | 12.2 | 670 | | | | | | | | | - | - | - | - | 14115 | ø55 | 03 |
| The dynamic efficiency is 0.98 for all ratios | | | | | | | | | | | | | On request | | | | | | | | |

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **H71C** is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug.
See table 1 for lubrication and recommended quantity.
In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo **H71C** è fornito privo di lubrificazione con tappi di sfiato, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso.
Tab.1 per oli e quantità consigliati.
Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße **H71C** wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen.
In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben
In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type **H71C** est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé.
Voir tableau 1 concernant les huiles et les quantités conseillées.
Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur

E El reductor tamaño **H71C** se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético.
Ver tabla 1, para cantidades y aceites recomendados.
En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

| | | | | | | |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | |
| B3 | B6 | B7 | B8 | V5 | V6 | V8 |
| 3.20 LT | 4.65 LT | 4.00 LT | 3.20 LT | 6.00 LT | 3.10 LT | Ask |
| AGIP Blasia 460 | | | | | | |

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{174.5}{X+134.5}$

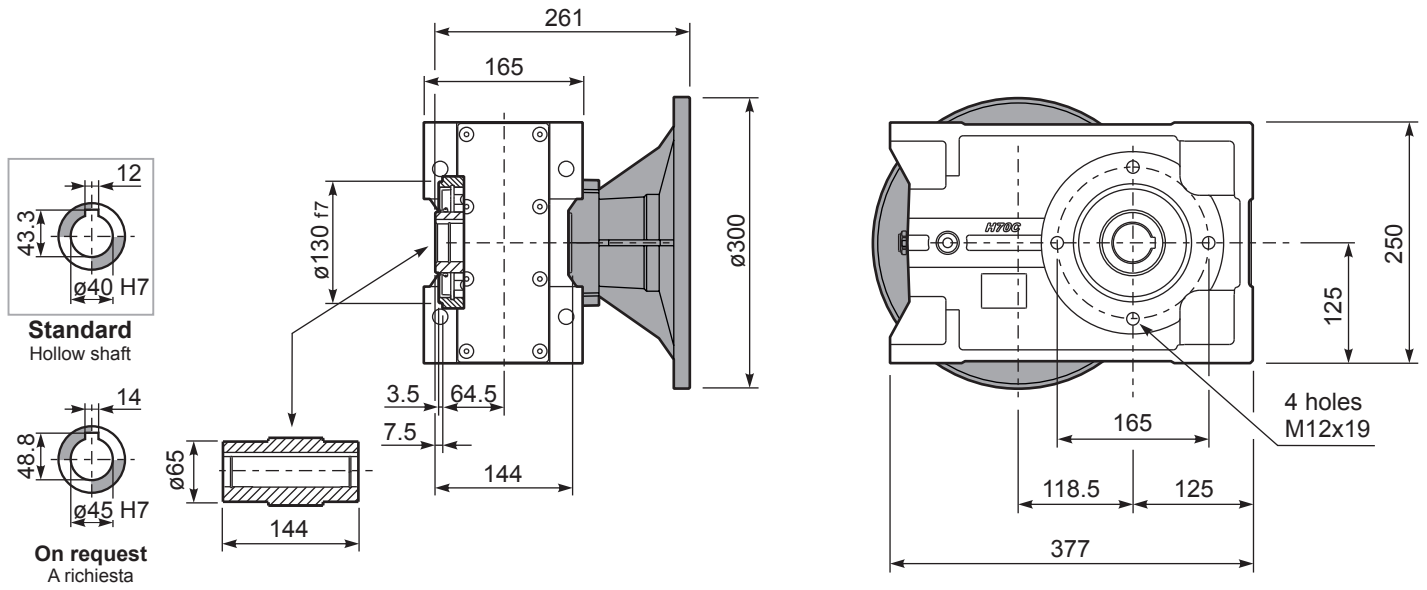
| n_2 | F_A | F_R | n_2 | F_A | F_R | n_2 | F_A | F_R |
|------------|-------|-------|------------|-------|-------|-----------|-------|-------|
| 300 | 740 | 3700 | 140 | 860 | 4300 | 70 | 1020 | 5100 |
| 250 | 800 | 4000 | 120 | 900 | 4500 | 40 | 1300 | 6500 |
| 200 | 830 | 4150 | 85 | 970 | 4850 | 15 | 1700 | 8500 |

On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

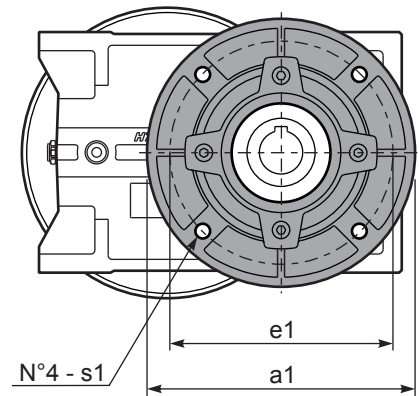
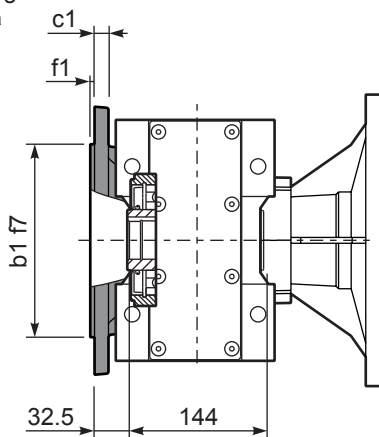
tab. 2

PH71C... Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **51.0 kg**



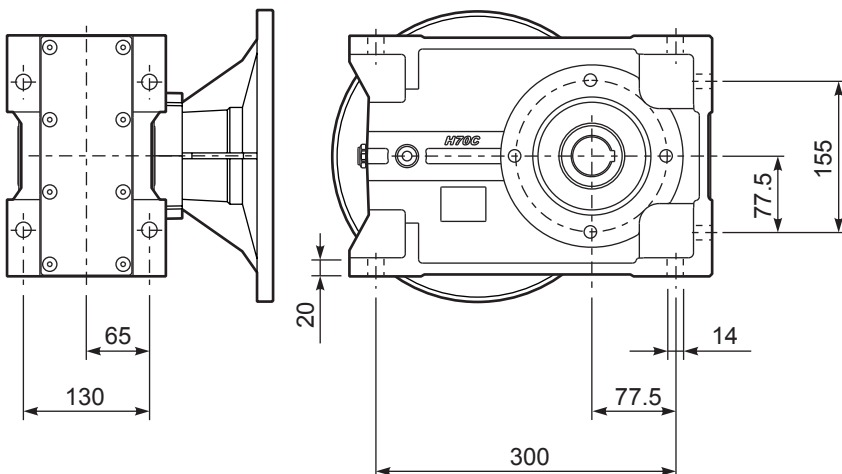
PH71C...-F Output flange
Flangia uscita



Available output flanges
Flange di uscita

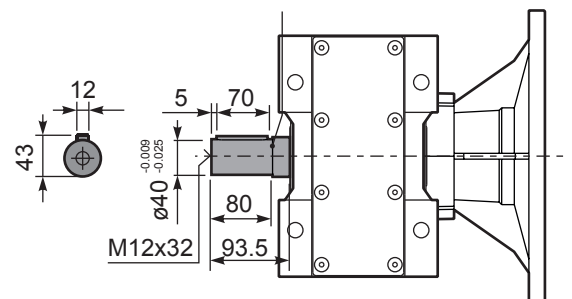
| a1 ø | b1 | c1 | e1 | f1 | s1 | Kit code |
|------|-----|----|-----|----|----|------------|
| 250 | 180 | 13 | 215 | 3 | 14 | KF70.9.011 |
| 300 | 230 | 16 | 265 | 4 | 14 | KF70.9.012 |

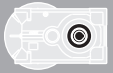
PH71C...-N Feet
Piedini



PH71C A... Single output shaft
Albero uscita semplice

Kit. Cod KF705028





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

| Output Speed n_2 [min ⁻¹] | Ratio i | Motor power P_{1M} [kW] | Output torque M_{2M} [Nm] | Service factor f.s. | Nominal power P_{1R} [kW] | Nominal torque M_{2R} [Nm] | Available B5 motor flanges | | | | | Available B14 motor flanges | | | | Output Shaft | Ratios code | |
|-----------------------------------------------|--------------|---------------------------------|-----------------------------------|------------------------|-----------------------------------|------------------------------------|----------------------------|----|----|------------|-----|-----------------------------|----|------------|-----|------------------|-------------|----|
| | | | | | | | -C | -D | -E | -F | -G | -R | -T | -U | -V | | | |
| | | | | | | | 71 | 80 | 90 | 100 112 | 132 | 80 | 90 | 100 112 | 132 | | | |
| 175 | 8.02 | 9 | 473 | 1.1 | 9.9 | 520 | B | | | | | | | | | | 3018 | 01 |
| 152 | 9.18 | 9 | 541 | 1.1 | 9.8 | 590 | B | | | | | | | | | | 3016 | 02 |
| 131 | 10.68 | 9 | 630 | 1.1 | 9.7 | 680 | B | | | | | | | | | | 3014 | 03 |
| 93 | 15.11 | 7.5 | 717 | 1.1 | 7.8 | 775 | B | | | | | | | | | | 2018 | 04 |
| 81 | 17.30 | 7.5 | 821 | 1.1 | 7.8 | 885 | B | | | | | | | | | | 2016 | 05 |
| 70 | 20.13 | 7.5 | 955 | 0.9 | 6.8 | 900 | B | | | | | | | | | | 2014 | 06 |
| 60 | 23.39 | 5.5 | 820 | 1.1 | 5.9 | 900 | B | | | | | | | | | | 1616 | 07 |
| 51 | 27.21 | 5.5 | 954 | 0.9 | 5.1 | 900 | B | | | | | | | | | | 1614 | 08 |
| 46.0 | 30.42 | 4 | 780 | 1.2 | 4.5 | 900 | B | | | | | | | | | | 1316 | 09 |
| 39.6 | 35.38 | 4 | 907 | 1.0 | 3.9 | 900 | B | | | | | | | | | | 1314 | 10 |
| 37.6 | 37.24 | 3 | 719 | 1.2 | 3.7 | 895 | B | | | | | | | | | | 1116 | 11 |
| 32.3 | 43.31 | 3 | 836 | 1.1 | 3.2 | 900 | B | | | | | | | | | | 1114 | 12 |
| 29.8 | 47.02 | 2.2 | 668 | 1.1 | 2.3 | 705 | B | | | | | | | | | | 818 | 13 |
| 26.0 | 53.85 | 2.2 | 765 | 1.1 | 2.3 | 810 | B | | | | | | | | | | 816 | 14 |
| 22.4 | 62.63 | 2.2 | 890 | 1.0 | 2.2 | 900 | B | | | | | | | | | | 814 | 15 |
| 18.9 | 74.16 | 1.1 | 531 | 1.1 | 1.2 | 585 | B | | | | | | | | | | 616 | 16 |
| 16.2 | 86.25 | 1.1 | 617 | 1.1 | 1.2 | 680 | B | | | | | | | | | | 614 | 17 |

The dynamic efficiency is **0.96** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **H72C** is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo **H72C** è fornito privo di lubrificazione con tappi di sfiato, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso. Tab.1 per oli e quantità consigliati. Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße **H72C** wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type **H72C** est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé. Voir tableau 1 concernant les huiles et les quantités conseillées. Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur.

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| B3 | B6 | B7 | B8 | V5 | V6 | V8 |
|---------|---------|---------|---------|---------|---------|-----|
| | | | | | | |
| 3.20 LT | 4.65 LT | 4.00 LT | 3.20 LT | 6.20 LT | 3.10 LT | Ask |

AGIP Blasias 460

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{174.5}{X+134.5}$

| n_2 | FA | FR | n_2 | FA | FR | n_2 | FA | FR |
|------------|-----|------|------------|-----|------|-----------|------|------|
| 300 | 740 | 3700 | 140 | 860 | 4300 | 70 | 1020 | 5100 |
| 250 | 800 | 4000 | 120 | 900 | 4500 | 40 | 1300 | 6500 |
| 200 | 830 | 4150 | 85 | 970 | 4850 | 15 | 1700 | 8500 |

On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

Input shaft
Albero in entrata

| n_1 | FA | FR |
|-------------|-----|------|
| 1400 | 450 | 2250 |
| 900 | 500 | 2500 |
| 500 | 600 | 3000 |

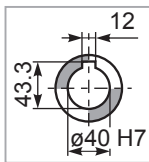
tab. 2

PH72C...

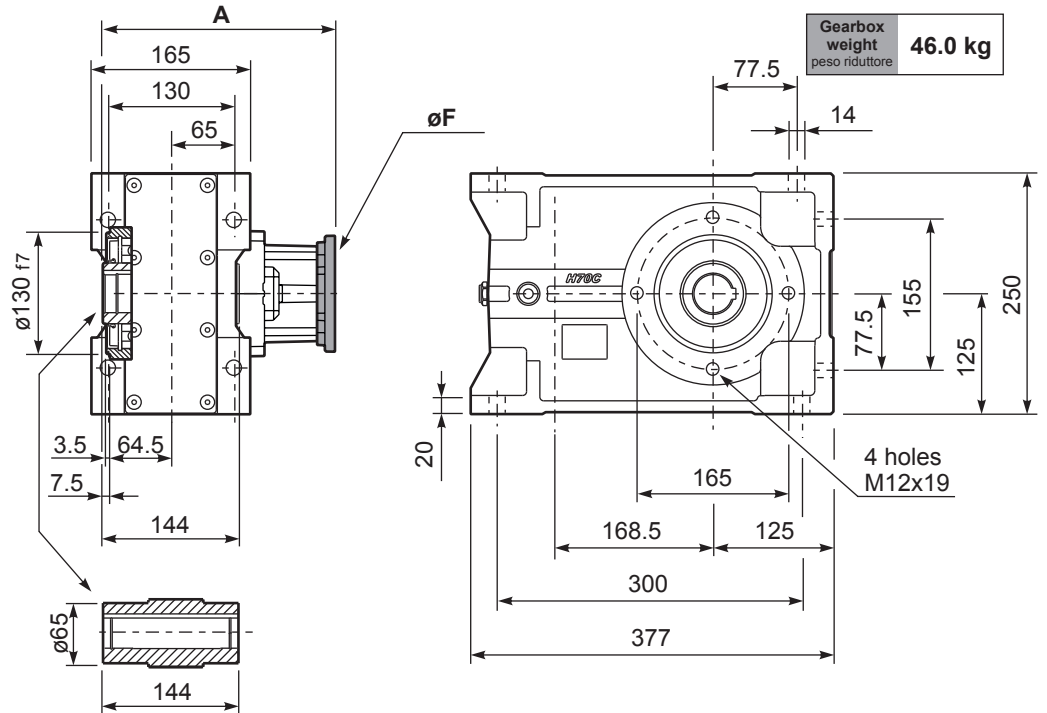
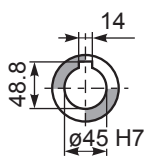
Basic gearbox
Riduttore base

| M. flanges | Kit code | øF | A |
|------------|-------------|-----|-------|
| 71B5 | KC023.4.041 | 160 | 238.5 |
| 80/90B5 | KC023.4.042 | 200 | 240.5 |
| 100/112B5 | KC023.4.043 | 250 | 249.5 |
| 132B5 | KC50.4.043 | 300 | 267.5 |
| 80B14 | KC085.4.046 | 120 | 240.5 |
| 90B14 | KC085.4.045 | 140 | 240.5 |
| 100/112B14 | KC085.4.047 | 160 | 249.5 |
| 132B14 | KC50.4.041 | 200 | 267.5 |

Standard
Hollow shaft

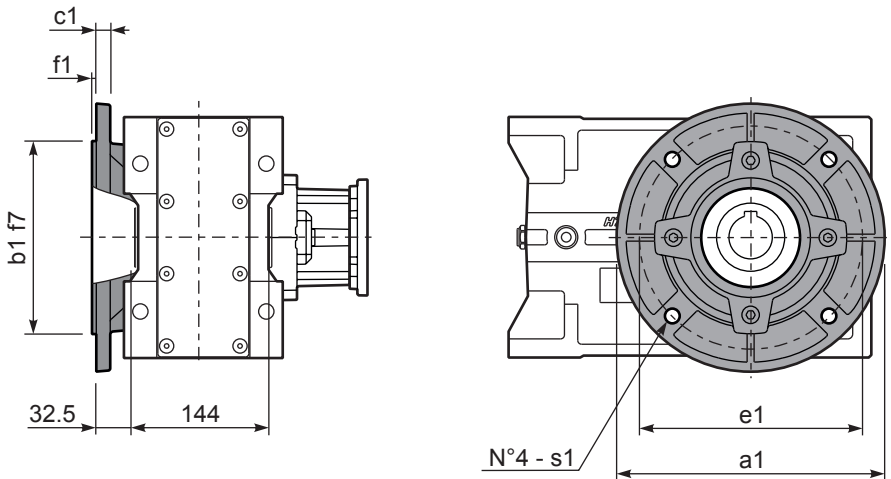


On request
A richiesta



PH72C...-F

Output flange
Flangia uscita



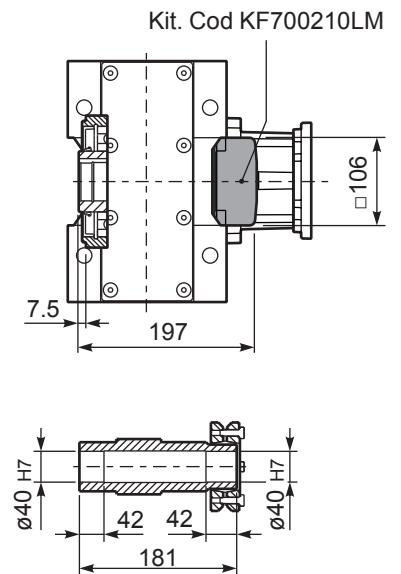
Available output flanges

Flange di uscita

| a1 ø | b1 | c1 | e1 | f1 | s1 | Kit code |
|------|-----|----|-----|----|----|------------|
| 250 | 180 | 13 | 215 | 3 | 14 | KF70.9.011 |
| 300 | 230 | 16 | 265 | 4 | 14 | KF70.9.012 |

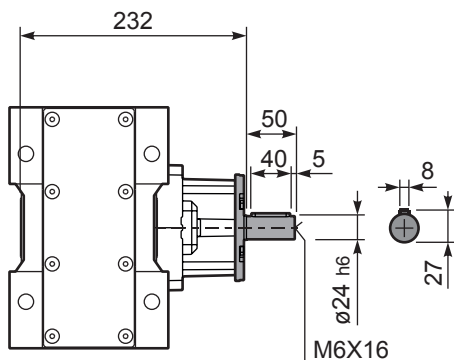
PH72C D...

Shrink disk
Calettatore



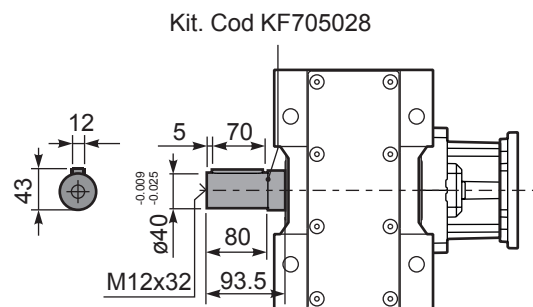
RH72C...

Input Shaft
Albero in entrata



PH72C A...

Single output shaft
Albero uscita semplice





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

| Output Speed n_2 [min ⁻¹] | Ratio i | Motor power P_{1M} [kW] | Output torque M_{2M} [Nm] | Service factor $f.s.$ | Nominal power P_{1R} [kW] | Nominal torque M_{2R} [Nm] | Available B5 motor flanges | | | | Available B14 motor flanges | | | Output Shaft \varnothing | Ratios code |
|-----------------------------------------------|---------------|---------------------------------|-----------------------------------|--------------------------|-----------------------------------|------------------------------------|----------------------------|----|----|----|-----------------------------|----|----|-----------------------------------|-----------------|
| | | | | | | | -B | -C | -D | -E | -Q | -R | -T | | |
| | | | | | | | 63 | 71 | 80 | 90 | 71 | 80 | 90 | | |
| 18.5 | 75.50 | 1.5 | 725 | 1.1 | 1.7 | 825 | B | | | | C | C | | 191318 | 01 |
| 16.2 | 86.47 | 1.5 | 830 | 1.1 | 1.6 | 900 | B | | | | C | C | | 191316 | 02 |
| 14.0 | 100.22 | 1.5 | 962 | 0.9 | 1.4 | 900 | B | | | | C | C | | 171316 | 03 |
| 12.0 | 116.56 | 1.1 | 817 | 1.1 | 1.2 | 900 | B | | | | C | C | | 171314 | 04 |
| 10.2 | 136.82 | 1.1 | 959 | 0.9 | 1.0 | 900 | B | | | | C | C | | 151314 | 05 |
| 9.1 | 153.05 | 0.75 | 736 | 1.1 | 0.83 | 810 | B | | | | C | C | | 190816 | 06 |
| 8.6 | 163.31 | 0.75 | 785 | 1.1 | 0.86 | 900 | B | | | | C | C | | 131314 | 07 |
| 7.9 | 178.01 | 0.75 | 856 | 1.1 | 0.79 | 900 | B | | | | C | C | | 190814 | 08 |
| 7.3 | 191.67 | 0.75 | 922 | 1.0 | 0.73 | 900 | B | | | | C | C | | 101316 | 09 |
| 6.8 | 206.32 | 0.75 | 992 | 0.9 | 0.68 | 900 | B | | | | C | C | | 170814 | 10 |
| 6.3 | 222.92 | 0.55 | 791 | 1.1 | 0.63 | 900 | B | | | | C | C | | 101314 | 11 |
| 5.8 | 242.18 | 0.55 | 859 | 1.0 | 0.58 | 900 | B | | | | C | C | | 150814 | 12 |
| 5.6 | 250.15 | 0.55 | 888 | 1.0 | 0.56 | 900 | B | | | | C | C | | 91316 | 13 |
| 4.8 | 289.08 | 0.55 | 1026 | 0.9 | 0.49 | 900 | B | | | | C | C | | 130814 | 14 |
| 4.2 | 330.31 | 0.37 | 783 | 1.1 | 0.42 | 890 | B | | | | C | C | | 71316 | 15 |
| 3.5 | 394.59 | 0.37 | 936 | 1.0 | 0.36 | 900 | B | | | | C | C | | 100814 | 16 |
| 2.7 | 514.99 | 0.25 | 824 | 1.1 | 0.27 | 900 | B | | | | C | C | | 90814 | 17 |
| 2.1 | 680.03 | 0.18 | 832 | 1.1 | 0.21 | 900 | B | | | | C | C | | 70814 | 18 |

The dynamic efficiency is **0.94** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **H73C** is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug.
See table 1 for lubrication and recommended quantity.
In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo **H73C** è fornito privo di lubrificazione con tappi di sfiato, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso.
Tab.1 per oli e quantità consigliati.
Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße **H73C** wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen.
In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben
In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type **H73C** est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé.
Voir tableau 1 concernant les huiles et les quantités conseillées.
Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur

E El reductor tamaño **H73C** se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético.
Ver tabla 1, para cantidades y aceites recomendados.
En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

| B3 | B6 | B7 | B8 | V5 | V6 | V8 |
|---------|---------|---------|---------|---------|---------|-----|
| 3.30 LT | 5.70 LT | 4.15 LT | 3.30 LT | 6.40 LT | 3.25 LT | Ask |

AGIP Blasias 460

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{174.5}{X+134.5}$

| n_2 | FA | FR | n_2 | FA | FR | n_2 | FA | FR |
|-------|-----|------|-------|-----|------|-------|------|------|
| 300 | 740 | 3700 | 140 | 860 | 4300 | 70 | 1020 | 5100 |
| 250 | 800 | 4000 | 120 | 900 | 4500 | 40 | 1300 | 6500 |
| 200 | 830 | 4150 | 85 | 970 | 4850 | 15 | 1700 | 8500 |

On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

Input shaft
Albero in entrata

| n_1 | FA | FR |
|-------|-----|------|
| 1400 | 400 | 2000 |
| 900 | 440 | 2200 |
| 500 | 440 | 2200 |

tab. 2



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

| Output Speed n_2 [min ⁻¹] | Ratio i | Motor power P_{1M} [kW] | Output torque M_{2M} [Nm] | Service factor f.s. | Nominal power P_{1R} [kW] | Nominal torque M_{2R} [Nm] | Available B5 motor flanges | | B14 motor flanges | | | | Output Shaft | Ratios code | |
|-----------------------------------------------|--------------|---------------------------------|-----------------------------------|------------------------|-----------------------------------|------------------------------------|----------------------------|-----|----------------------|---|---|---|------------------|-----------------|----|
| | | | | | | | -H | -I | - | - | - | - | | | |
| | | | | | | | 160 | 180 | - | - | - | - | | | |
| 528 | 2.65 | 22 | 374 | 1.7 | 36.7 | 650 | | | not available | | | | 2361 | standard | 01 |
| 409 | 3.42 | 22 | 483 | 1.6 | 32.8 | 750 | | | | | | | 1965 | ø50 | 02 |
| 304 | 4.60 | 22 | 649 | 1.5 | 30.9 | 950 | | | | | | | 1569 | | 03 |
| 256 | 5.46 | 22 | 771 | 1.3 | 27.4 | 1000 | | | | | | | 1371 | ø55 | 04 |
| 211 | 6.64 | 22 | 937 | 1.3 | 26.5 | 1175 | | | | | | | 1173 | On request | 05 |

The dynamic efficiency is **0.98** for all ratios

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **H81C** is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo **H81C** è fornito privo di lubrificazione con tappi di sfiato, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso. Tab.1 per oli e quantità consigliati. Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße **H81C** wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type **H81C** est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé. Voir tableau 1 concernant les huiles et les quantités conseillées. Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur

E El reductor tamaño **H81C** se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

| B3 | B6 | B7 | B8 | V5 | V6 | V8 |
|------------------|---------|---------|---------|----------|---------|-----|
| 5.70 LT | 7.00 LT | 7.90 LT | 5.70 LT | 10.20 LT | 5.60 LT | Ask |
| AGIP Blasias 460 | | | | | | |

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{227.5}{X+177.5}$

| n_2 | FA | FR | n_2 | FA | FR | n_2 | FA | FR |
|-------|------|------|-------|------|------|-------|------|-------|
| 300 | 920 | 4600 | 140 | 1120 | 5600 | 70 | 1400 | 7000 |
| 250 | 1000 | 5000 | 120 | 1140 | 5700 | 40 | 1800 | 9000 |
| 200 | 1060 | 5300 | 85 | 1300 | 6500 | 15 | 2400 | 12000 |

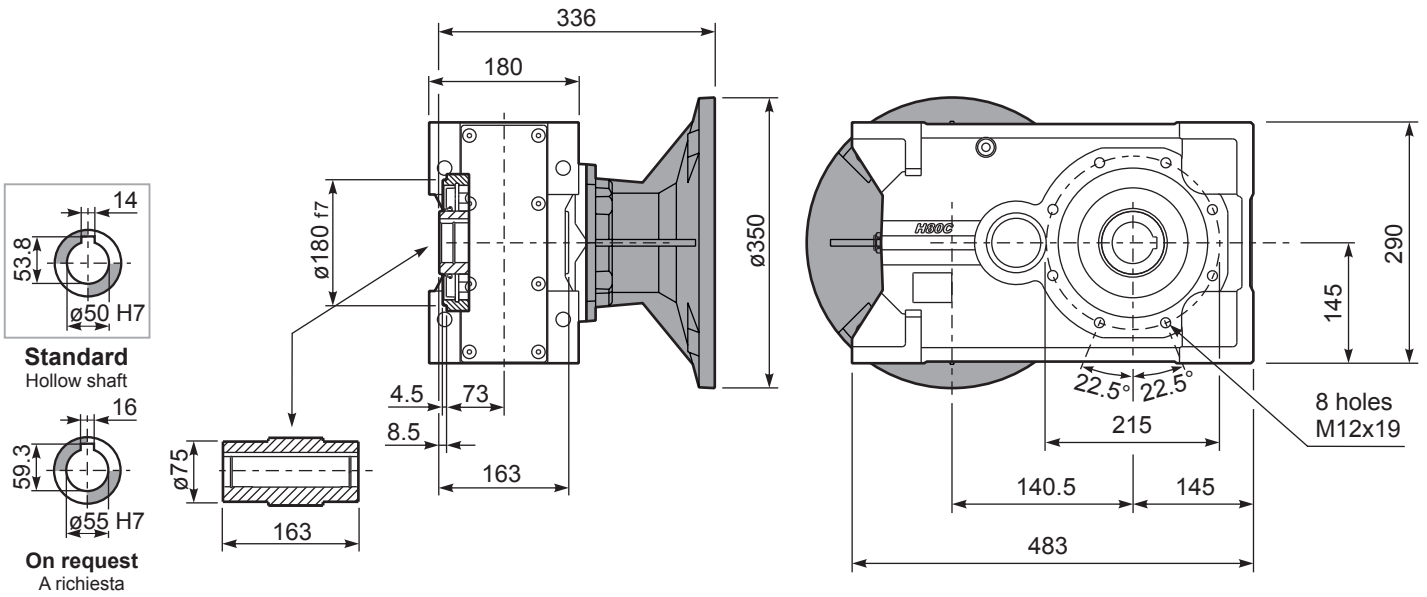
On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

tab. 2

PH81C...

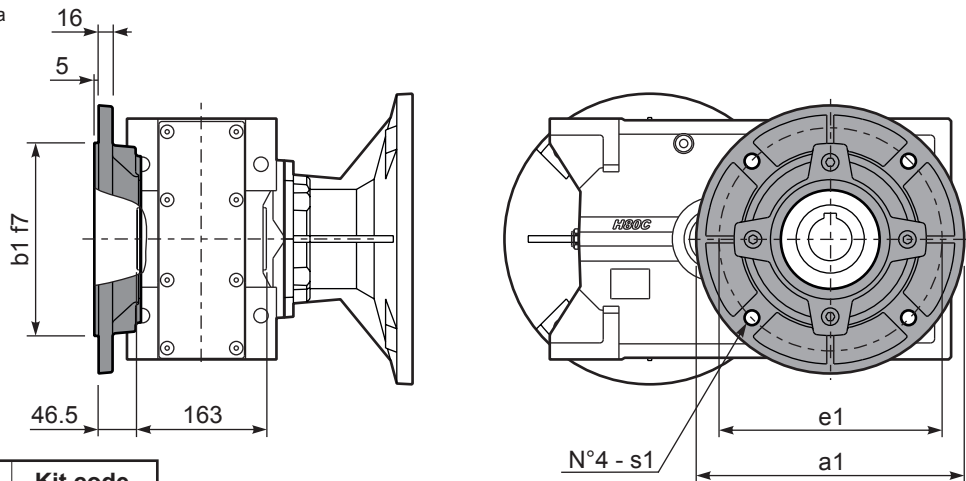
Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **89.0 kg**



PH81C...-F

Output flange
Flangia uscita

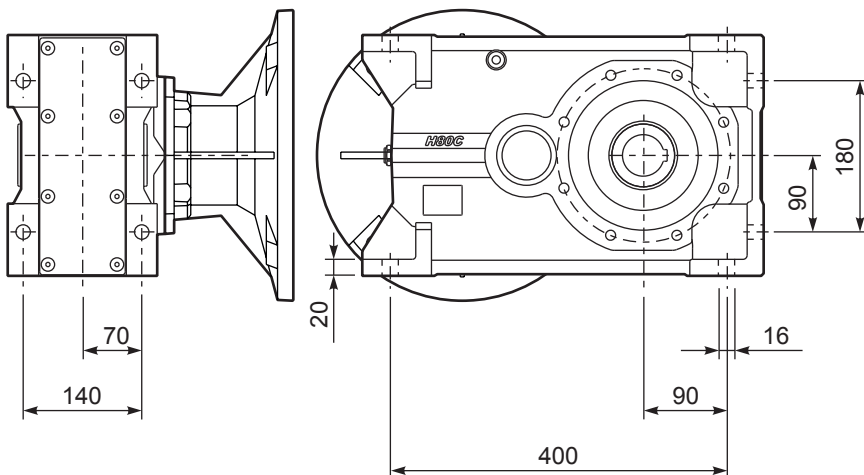


Available output flanges
Flange di uscita

| a1 ø | b1 | e1 | s1 | Kit code |
|------|-----|-----|----|------------|
| 300 | 230 | 265 | 14 | KF80.9.011 |
| 350 | 250 | 300 | 18 | KF80.9.012 |
| 400 | 300 | 350 | 18 | KF80.9.013 |

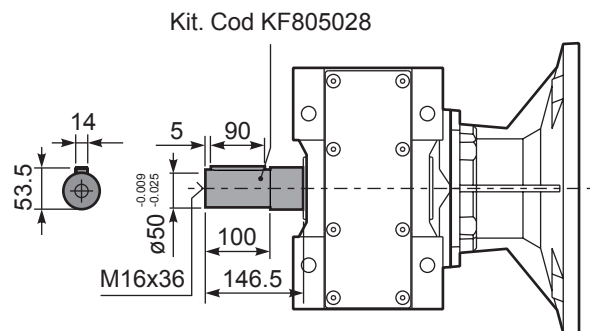
PH81C...-N

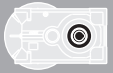
Feet
Piedini



PH81C A...

Single output shaft
Albero uscita semplice





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

| Output Speed n_2 [min ⁻¹] | Ratio i | Motor power P_{1M} [kW] | Output torque M_{2M} [Nm] | Service factor $f.s.$ | Nominal power P_{1R} [kW] | Nominal torque M_{2R} [Nm] | B5 motor flanges | | | | B14 motor flanges | | | | Output Shaft | Ratios code |
|-----------------------------------------------|--------------|---------------------------------|-----------------------------------|--------------------------|-----------------------------------|------------------------------------|---------------------|-----|-----|-----|----------------------|---|---|------|------------------------------------------|-----------------|
| | | | | | | | -F | -G | -H | -I | - | - | - | - | | |
| | | | | | | | 100 112 | 132 | 160 | 180 | - | - | - | - | | |
| 234 | 5.98 | 22 | 827 | 1.2 | 25.5 | 1000 | B | | | | | | | 3015 | standard ø50 ø55 On request | 01 |
| 197 | 7.10 | 22 | 982 | 1.2 | 25.3 | 1175 | B | | | | | | | 3013 | | 02 |
| 162 | 8.63 | 22 | 1193 | 1.1 | 23.9 | 1350 | B | | | | | | | 3011 | | 03 |
| 124 | 11.27 | 18.5 | 1310 | 1.1 | 20.3 | 1500 | B | | | | | | | 2015 | | 04 |
| 105 | 13.38 | 18.5 | 1555 | 1.1 | 19.4 | 1700 | B | | | | | | | 2013 | | 05 |
| 92 | 15.24 | 18.5 | 1771 | 1.1 | 19.0 | 1900 | B | | | | | | | 1615 | | 06 |
| 86 | 16.26 | 18.5 | 1889 | 1.1 | 19.7 | 2100 | B | | | | | | | 2011 | | 07 |
| 77 | 18.09 | 18.5 | 2102 | 1.0 | 17.7 | 2100 | B | | | | | | | 1613 | | 08 |
| 71 | 19.82 | 15 | 1865 | 1.1 | 15.9 | 2060 | B | | | | | | | 1315 | | 09 |
| 64 | 21.98 | 15 | 2069 | 1.0 | 14.6 | 2100 | B | | | | | | | 1611 | | 10 |
| 60 | 23.53 | 15 | 2214 | 0.9 | 13.6 | 2100 | B | | | | | | | 1313 | | 11 |
| 58 | 24.25 | 11 | 1677 | 1.2 | 12.2 | 1940 | B | | | | | | | 1115 | | 12 |
| 48.6 | 28.80 | 11 | 1991 | 1.1 | 11.1 | 2100 | B | | | | | | | 1113 | | 13 |
| 40.0 | 34.99 | 9 | 2063 | 1.0 | 9.2 | 2100 | B | | | | | | | 1111 | | 14 |
| 33.6 | 41.64 | 7.5 | 1976 | 1.0 | 7.2 | 1960 | B | | | | | | | 813 | | 15 |
| 27.7 | 50.60 | 5.5 | 1774 | 1.2 | 6.3 | 2100 | B | | | | | | | 811 | | 16 |

The dynamic efficiency is **0.96** for all ratios

- Motor Flanges Available
Flange Motore Disponibili
- Supplied with Reduction Bushing
Fornito con Bussola di Riduzione
- Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione
- Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **H82C** is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug.
See table 1 for lubrication and recommended quantity.
In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo **H82C** è fornito privo di lubrificazione con tappi di sfiatione, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso.
Tab.1 per oli e quantità consigliati.
Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße **H82C** wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen.
In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben
In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type **H82C** est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé.
Voir tableau 1 concernant les huiles et les quantités conseillées.
Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur

E El reductor tamaño **H82C** se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético.
Ver tabla 1, para cantidades y aceites recomendados.
En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

| | | | | | | |
|---------|---------|---------|---------|----------|---------|-----|
| | | | | | | |
| B3 | B6 | B7 | B8 | V5 | V6 | V8 |
| 5.60 LT | 6.80 LT | 7.80 LT | 5.60 LT | 10.00 LT | 5.50 LT | Ask |

AGIP Blasias 460

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{227.5}{X+177.5}$

| n_2 | FA | FR | n_2 | FA | FR | n_2 | FA | FR |
|-------|------|------|-------|------|------|-------|------|-------|
| 300 | 920 | 4600 | 140 | 1120 | 5600 | 70 | 1400 | 7000 |
| 250 | 1000 | 5000 | 120 | 1140 | 5700 | 40 | 1800 | 9000 |
| 200 | 1060 | 5300 | 85 | 1300 | 6500 | 15 | 2400 | 12000 |

On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

Input shaft
Albero in entrata

| n_1 | FA | FR |
|-------|-----|------|
| 1400 | 700 | 3500 |
| 900 | 840 | 4200 |
| 500 | 900 | 4500 |

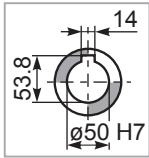
tab. 2

PH82C...

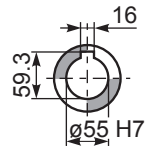
Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **86.0 kg**

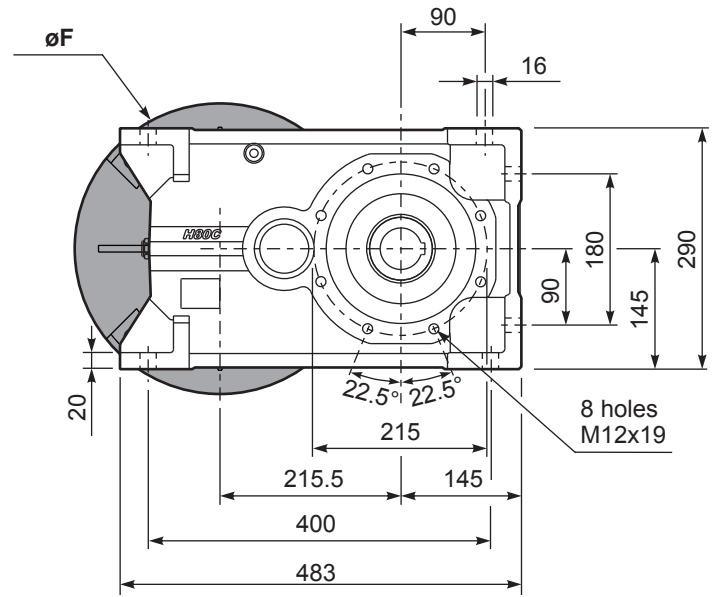
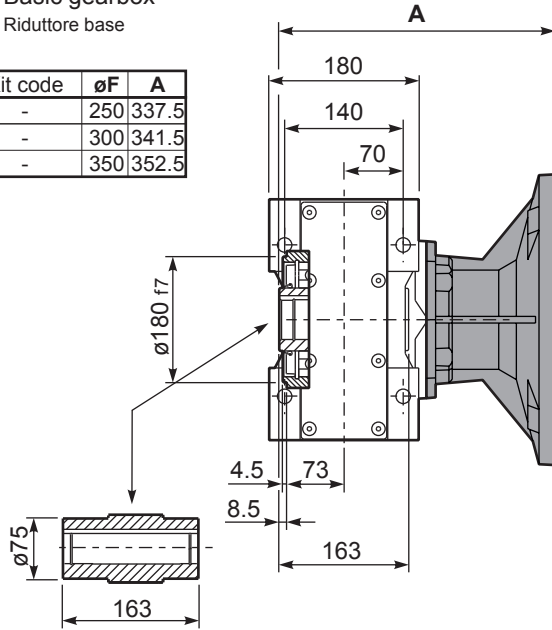
| M. flanges | Kit code | øF | A |
|------------|----------|-----|-------|
| 100/112B5 | - | 250 | 337.5 |
| 132B5 | - | 300 | 341.5 |
| 160/180B5 | - | 350 | 352.5 |



Standard
Hollow shaft

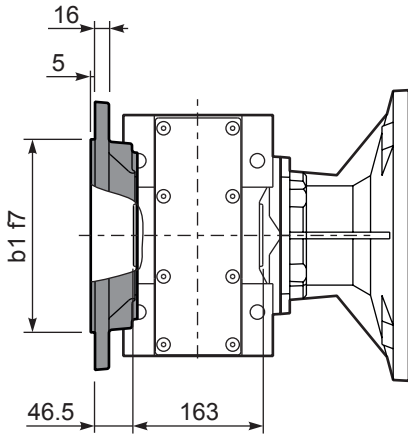


On request
A richiesta



PH82C...-F

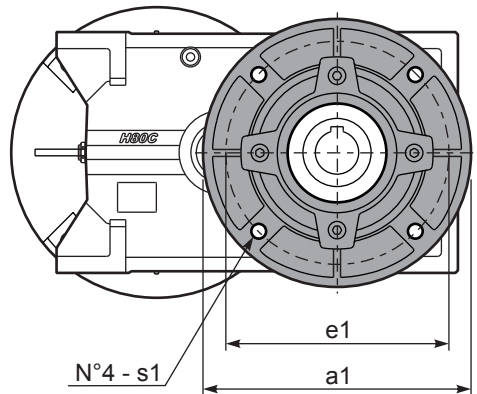
Output flange
Flangia uscita



Available output flanges

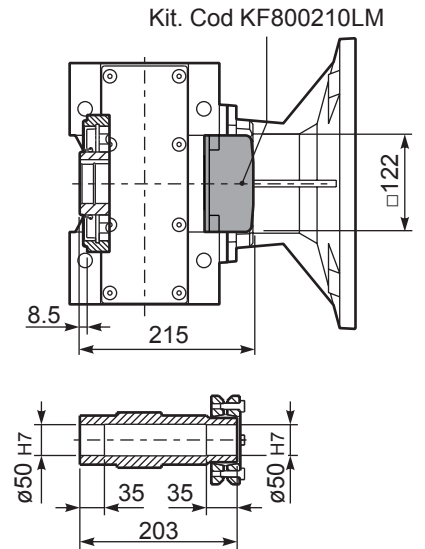
Flange di uscita

| a1 ø | b1 | e1 | s1 | Kit code |
|------|-----|-----|----|------------|
| 300 | 230 | 265 | 14 | KF80.9.011 |
| 350 | 250 | 300 | 18 | KF80.9.012 |
| 400 | 300 | 350 | 18 | KF80.9.013 |



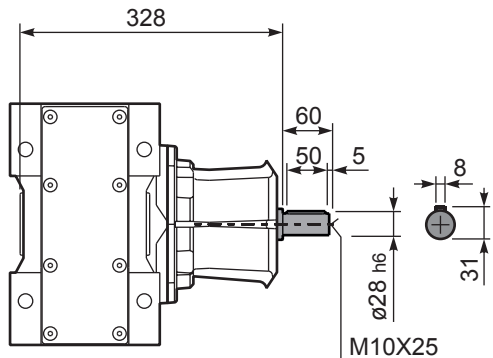
PH82C D...

Shrink disk
Calettatore



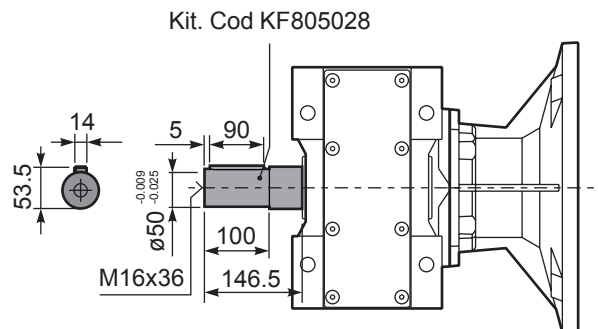
RH82C...

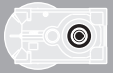
Input Shaft
Albero in entrata



PH82C A...

Single output shaft
Albero uscita semplice





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

| Output Speed n_2 [min ⁻¹] | Ratio i | Motor power P_{1M} [kW] | Output torque M_{2M} [Nm] | Service factor f.s. | Nominal power P_{1R} [kW] | Nominal torque M_{2R} [Nm] | Available B5 motor flanges | | | | | Available B14 motor flanges | | | | Output Shaft | Ratios code |
|-----------------------------------------------|---------------|---------------------------------|-----------------------------------|------------------------|-----------------------------------|------------------------------------|----------------------------|----|----|------------|-----|-----------------------------|----|------------|-----|------------------|-------------|
| | | | | | | | -C | -D | -E | -F | -G | -R | -T | -U | -V | | |
| | | | | | | | 71 | 80 | 90 | 100 112 | 132 | 80 | 90 | 100 112 | 132 | | |
| 28.8 | 48.55 | 7.5 | 2257 | 0.9 | 6.7 | 2100 | B | | | | | | | | | 201315 | 01 |
| 24.3 | 57.64 | 5.5 | 1980 | 1.1 | 5.7 | 2100 | B | | | | | | | | | 201313 | 02 |
| 21.3 | 65.64 | 5.5 | 2255 | 0.9 | 5.0 | 2100 | B | | | | | | | | | 161315 | 03 |
| 20.0 | 70.04 | 4 | 1760 | 1.2 | 4.7 | 2100 | B | | | | | | | | | 201311 | 04 |
| 18.0 | 77.93 | 4 | 1958 | 1.1 | 4.2 | 2100 | B | | | | | | | | | 161313 | 05 |
| 16.4 | 85.36 | 4 | 2145 | 1.0 | 3.8 | 2100 | B | | | | | | | | | 131315 | 06 |
| 14.8 | 94.70 | 4 | 2380 | 0.9 | 3.5 | 2100 | B | | | | | | | | | 161311 | 07 |
| 13.8 | 101.35 | 3 | 1917 | 1.1 | 3.2 | 2100 | B | | | | | | | | | 131313 | 08 |
| 11.4 | 123.15 | 3 | 2330 | 0.9 | 2.7 | 2100 | B | | | | | | | | | 131311 | 09 |
| 9.3 | 150.73 | 2.2 | 2100 | 1.0 | 2.2 | 2100 | B | | | | | | | | | 111311 | 10 |
| 7.8 | 179.39 | 1.5 | 1722 | 1.2 | 1.8 | 2100 | B | | | | | | | | | 81313 | 11 |
| 6.4 | 217.98 | 1.5 | 2093 | 1.0 | 1.5 | 2100 | B | | | | | | | | | 81311 | 12 |
| 5.7 | 247.03 | 1.1 | 1732 | 1.1 | 1.2 | 1950 | B | | | | | | | | | 61313 | 13 |
| 4.7 | 300.17 | 1.1 | 2105 | 1.0 | 1.1 | 2100 | B | | | | | | | | | 61311 | 14 |

The dynamic efficiency is **0.94** for all ratios

Motor Flanges Available Flange Motore Disponibili
 B) Supplied with Reduction Bushing Fornito con Bussola di Riduzione
 B) Available on Request without reduction bushing Disponibile a Richiesta senza Bussola di Riduzione
 C) Motor Flange Holes Position Posizione Fori Flangia Motore

EN Unit **H83C** is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo **H83C** è fornito privo di lubrificazione con tappi di sfiato, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso. Tab.1 per oli e quantità consigliati. Tab.2 carichi radiali e assiali applicabili al riduttore.

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F Le réducteur de type **H83C** est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé. Voir tableau 1 concernant les huiles et les quantités conseillées. Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur

E El reductor tamaño **H83C** se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

| B3 | B6 | B7 | B8 | V5 | V6 | V8 |
|---------|---------|---------|---------|----------|---------|-----|
| | | | | | | |
| 5.80 LT | 7.10 LT | 8.20 LT | 5.80 LT | 10.80 LT | 6.00 LT | Ask |

AGIP Blasia 460

For all details on lubrication and plugs check our website [tab. 1](#)
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{227.5}{X+177.5}$

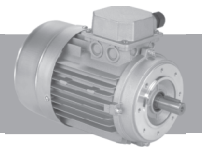
| n_2 | FA | FR | n_2 | FA | FR | n_2 | FA | FR |
|-------|------|------|-------|------|------|-------|------|-------|
| 300 | 920 | 4600 | 140 | 1120 | 5600 | 70 | 1400 | 7000 |
| 250 | 1000 | 5000 | 120 | 1140 | 5700 | 40 | 1800 | 9000 |
| 200 | 1060 | 5300 | 85 | 1300 | 6500 | 15 | 2400 | 12000 |

On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

Input shaft
Albero in entrata

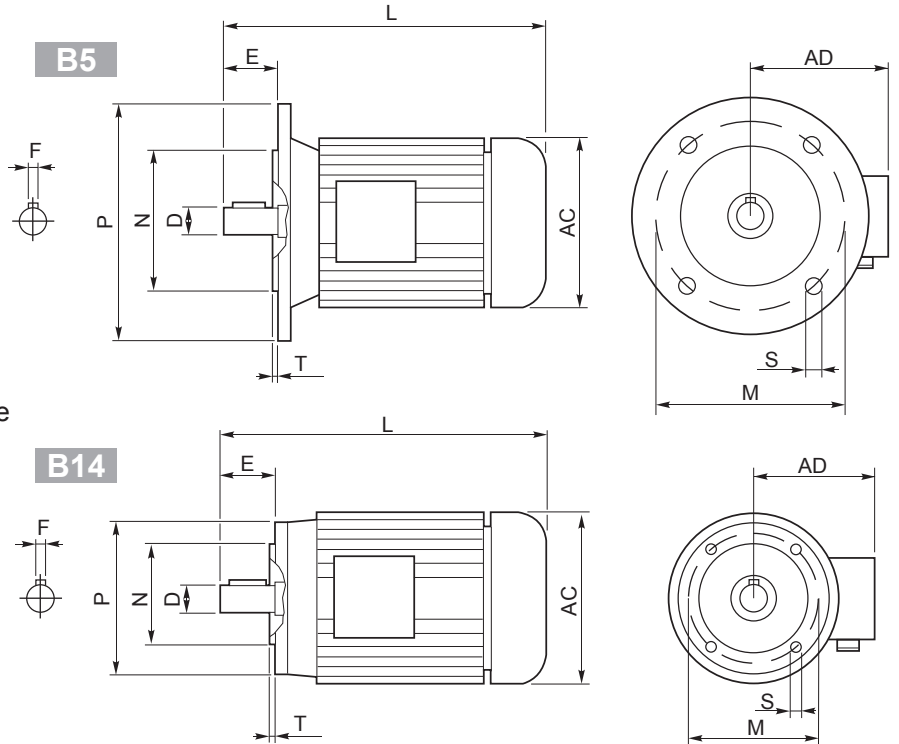
| n_1 | FA | FR |
|-------|-----|------|
| 1400 | 450 | 2250 |
| 900 | 500 | 2500 |
| 500 | 600 | 3000 |

tab. 2



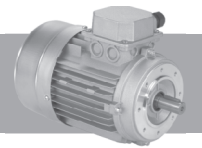
- 1) 230/400V - 50Hz three-phase asynchronous induction motor
- 2) Class F insulation
- 3) S1 duty
- 4) IP 55 protection
- 5) Not painted
- 6) Hard plastic sleeve to protect output shaft during the transportation

- 1) 230/400V - 50Hz motore trifase asincrono
- 2) Isolamento Classe F
- 3) S1 servizio continuo
- 4) Protezione IP 55
- 5) Non verniciato
- 6) Manicotto di protezione per l'albero motore



Outside dimensions and weight may be different according to manufacturers.
 Le dimensioni esterne e il peso sono indicative, possono variare tra i vari costruttori.

| | 2 poli / poles | | | 4 poli / poles | | | 6 poli / poles | | | B5-B14 | | | | | B5 | | | | | B14 | | | | | Kg | |
|---------------|----------------|------|---------------------|----------------|------|---------------------|----------------|------|---------------------|--------|----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|
| | kW | Nm | A _(400V) | kW | Nm | A _(400V) | kW | Nm | A _(400V) | D | F | E | L | AC | AD | N | M | P | S | T | N | M | P | S | | T |
| 56 A | 0.09 | 0.32 | 0.38 | 0.06 | 0.44 | 0.27 | — | — | — | 9 | 3 | 20 | 199 | 108 | 96 | 80 | 100 | 120 | 7 | 2.5 | 50 | 65 | 80 | M5 | 2.5 | 2.7 |
| 56 B | 0.12 | 0.42 | 0.46 | 0.09 | 0.67 | 0.37 | — | — | — | 9 | 3 | 20 | 199 | 108 | 96 | 80 | 100 | 120 | 7 | 2.5 | 50 | 65 | 80 | M5 | 2.5 | 2.9 |
| 63 A | 0.18 | 0.63 | 0.60 | 0.12 | 0.84 | 0.50 | 0.09 | 0.99 | 0.57 | 11 | 4 | 23 | 208 | 120 | 99 | 95 | 115 | 140 | 9.5 | 3 | 60 | 75 | 90 | M5 | 2.5 | 3.8 |
| 63 B | 0.25 | 0.87 | 0.76 | 0.18 | 1.30 | 0.69 | 0.12 | 1.32 | 0.74 | 11 | 4 | 23 | 208 | 120 | 99 | 95 | 115 | 140 | 9.5 | 3 | 60 | 75 | 90 | M5 | 2.5 | 4.2 |
| 71 A | 0.37 | 1.30 | 1.00 | 0.25 | 1.70 | 0.91 | 0.18 | 1.90 | 0.80 | 14 | 5 | 30 | - | 130 | 104 | 110 | 130 | 160 | 9.5 | 3.5 | 70 | 85 | 105 | M6 | 2.5 | 5.9 |
| 71 B | 0.55 | 1.90 | 1.54 | 0.37 | 2.52 | 1.14 | 0.25 | 2.72 | 1.10 | 14 | 5 | 30 | 255 | 141 | 107 | 110 | 130 | 160 | 9.5 | 3.5 | 70 | 85 | 105 | M6 | 2.5 | 6.5 |
| 80 A | 0.75 | 2.60 | 1.85 | 0.55 | 3.77 | 1.51 | 0.37 | 3.84 | 1.18 | 19 | 6 | 40 | 296 | 159 | 127 | 130 | 165 | 200 | 11.5 | 3.5 | 80 | 100 | 120 | M6 | 3 | 8.5 |
| 80 B | 1.1 | 3.90 | 2.64 | 0.75 | 5.11 | 2.57 | 0.55 | 5.84 | 1.80 | 19 | 6 | 40 | 296 | 159 | 127 | 130 | 165 | 200 | 11.5 | 3.5 | 80 | 100 | 120 | M6 | 3 | 10 |
| 90 S | 1.5 | 5.00 | 3.31 | 1.1 | 7.45 | 2.78 | 0.75 | 7.92 | 2.32 | 24 | 8 | 50 | - | 170 | 135 | 130 | 165 | 200 | 11.5 | 3.5 | 95 | 115 | 140 | M8 | 3 | 12.5 |
| 90 L | 2.2 | 7.50 | 4.46 | 1.5 | 10.2 | 3.61 | 1.1 | 11.6 | 3.45 | 24 | 8 | 50 | 330 | 170 | 135 | 130 | 165 | 200 | 11.5 | 3.5 | 95 | 115 | 140 | M8 | 3 | 15 |
| 100 LA | 3.0 | 10.0 | 6.28 | 2.2 | 14.8 | 5.07 | 1.5 | 15.4 | 3.88 | 28 | 8 | 60 | - | 190 | 148 | 180 | 215 | 250 | 13 | 4 | 110 | 130 | 160 | M8 | 3.5 | 20 |
| 100 LB | — | — | — | 3.0 | 20.1 | 6.66 | — | — | — | 28 | 8 | 60 | - | 190 | 148 | 180 | 215 | 250 | 13 | 4 | 110 | 130 | 160 | M8 | 3.5 | 22 |
| 112 M | 4.0 | 13.4 | 8.10 | 4.0 | 26.7 | 8.55 | 2.2 | 22.6 | 5.30 | 28 | 8 | 60 | 381 | 210 | 164 | 180 | 215 | 250 | 13 | 4 | 110 | 130 | 160 | M8 | 3.5 | 35 |
| 132 S | 5.5 | 18.3 | 11.2 | 5.5 | 36.5 | 11.4 | 3.0 | 30.2 | 7.20 | 38 | 10 | 80 | 455 | 244 | 180 | 230 | 265 | 300 | 14 | 4 | 130 | 165 | 200 | M10 | 4 | 41 |
| | 7.5 | 24.9 | 15.3 | 5.5 | 36.5 | 11.4 | 3.0 | 30.2 | 7.20 | 38 | 10 | 80 | 455 | 244 | 180 | 230 | 265 | 300 | 14 | 4 | 130 | 165 | 200 | M10 | 4 | 51 |
| 132 M | — | — | — | 7.5 | 49.4 | 15.0 | 4.0 | 40.0 | 9.13 | 38 | 10 | 80 | 500 | 244 | 180 | 230 | 265 | 300 | 14 | 4 | 130 | 165 | 200 | M10 | 4 | 51 |
| | — | — | — | 9 | 61.4 | 18.5 | — | — | — | 38 | 10 | 80 | 500 | 244 | 180 | 230 | 265 | 300 | 14 | 4 | 130 | 165 | 200 | M10 | 4 | 51 |
| 160 M | — | — | — | 11 | 72 | 21.5 | — | — | — | 42 | 12 | 110 | 613 | 335 | 246 | 250 | 300 | 350 | 18 | 5 | — | — | — | — | — | 79.2 |
| | — | — | — | 15 | 98 | 29 | — | — | — | 42 | 12 | 110 | 657 | 335 | 246 | 250 | 300 | 350 | 18 | 5 | — | — | — | — | — | 97.5 |
| 180 M | — | — | — | 18.5 | 121 | 35.5 | — | — | — | 48 | 14 | 110 | 712 | 366 | 266 | 250 | 300 | 350 | 19 | 5 | — | — | — | — | — | 170 |
| 180 L | — | — | — | 22 | 144 | 42 | — | — | — | 48 | 14 | 110 | 712 | 366 | 266 | 250 | 300 | 350 | 19 | 5 | — | — | — | — | — | 170 |
| 200 L | — | — | — | 30 | 196 | 53 | — | — | — | 55 | 16 | 110 | 780 | 405 | 341 | 300 | 350 | 400 | 19 | 5 | — | — | — | — | — | 240 |
| 225 S | — | — | — | 37 | 240 | 69 | — | — | — | 60 | 18 | 140 | 888 | 463 | 360 | 350 | 400 | 450 | 19 | 5 | — | — | — | — | — | 305 |
| 225 M | — | — | — | 45 | 292 | 84 | — | — | — | 60 | 18 | 140 | 888 | 463 | 360 | 350 | 400 | 450 | 19 | 5 | — | — | — | — | — | 310 |



Protection

Standard IP55
Please specify on purchase orders if you need a higher IP protection class.

Grado di protezione

IP55 Standard
Specificare in sede di ordinazione per IP superiore.

Schutzart

IP55 Standard.
Höheren IP Grad bitte im Auftrag angeben.

Degré de protection

IP55 standard.
Au moment de la commande, spécifiez si vous souhaitez IP supérieur.

Grado de protección
IP55 standard.
Especificar en el pedido cuando necesiten protección IP superior.

Insulation

Standard Cl.F
To be specified upon placing the order if different insulation is required.

Isolamento

Cl.F Standard
Specificare in sede di ordinazione classe di isolamento diversa.

Isolierung

Cl.F Standard.
Davon abweichende Isolierungsklasse im Auftrag angeben.

Isolement

Cl.F Standard.
Au moment de la commande, spécifiez si vous souhaitez une classe d'isolement différente.

Aislamiento

Cl.F standard.
Especificar al efectuar el pedido la clase diferente de aislamiento.

| Insulation / Isolamento Isolierung /Aislamiento | | E | B | F | H |
|----------------------------------------------------|----|------|------|------|------|
| Max. temp. | C° | 120° | 130° | 155° | 175° |
| | F* | 248° | 266° | 311° | 347° |

Connections

Collegamenti

Verbindungselemente

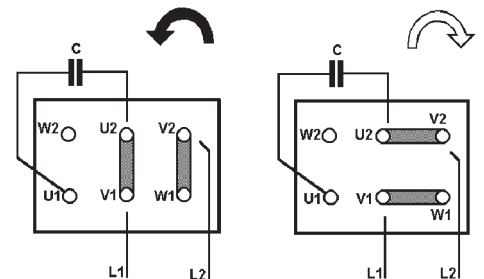
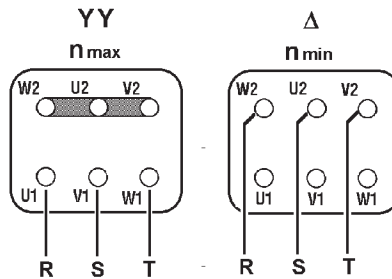
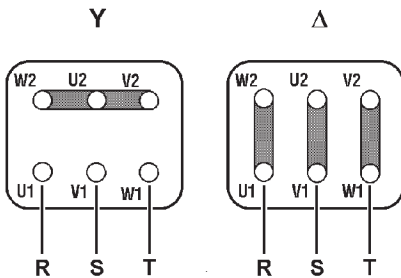
Branchements

Conexiones

Threephase asynchronous single polarity
Asincrono trifase singola polarità
Asynchronmotor 3-ph eine Drehzahl
Moteur triphasé à une vitesse
Asincrono trifasico de una velocidad

Threephase asynchronous double polarity
Asincrono trifase doppia polarità
Asynchronmotor 3-ph doppelte Drehzahl
Moteur triphasé à deux vitesses
Asincrono trifasico de dos velocidades

Single phase asynchronous
Asincrono monofase
Einphasen-Asynchronmotor
Moteur monophasé
Asincrono monofasico



Please Read Carefully

The following WARNING and CAUTION information is supplied to you for your protection and to provide you with many years of trouble free and safe operation of your product.

Read ALL instructions prior to operating reducer. Injury to personnel or reducer failure may be caused by improper installation, maintenance or operation.

WARNING:

- Written authorization is required to operate or use reducers in man lift or people moving devices.
- Check to make sure that certain applications do not exceed the allowable load capacities published in the current catalog.
- Buyer shall be solely responsible for determining the adequacy of the product for any and all uses to which Buyer shall apply the product. The application by Buyer shall not be subject to any implied warranty of fitness for a particular purpose.
- For safety, Buyer or User should provide protective guards over all shaft extensions and any moving apparatus mounted thereon. The User is responsible for checking all applicable safety codes in his area and providing suitable guards. Failure to do so may result in bodily injury and/or damage to equipment.
- Gearboxes operating in high position should have a protective shield for any possible parts falling down for casual accidents where people are moving under them.
- Hot oil and reducers can cause severe burns. Use extreme care when removing lubrication plugs and vents.
- Make certain that the power supply is disconnected before attempting to service or remove any components. Lock out the power supply and tag it to prevent unexpected application power.
- Reducers are not to be considered fail safe or self-locking devices. If these features are required, a properly sized, independent holding device should be utilized. Reducers should not be used as a brake.
- Any brakes that are used in conjunction with a reducer must be sized or positioned in such a way so as to not subject the reducer to loads beyond the catalog rating.
- Lifting supports including eyebolts are to be used for vertically lifting the gearbox only and not other associated attachments or motors.
- Use of an oil with an EP additive on units with backstops may prevent proper operation of the backstop. Injury to personnel, damage to the reducer or other equipment may result.
- Overhung loads subject shaft bearings and shafts to stress which may cause premature bearing failure and or shaft breakage from bending fatigue, if not sized properly.

SELLING CONDITIONS

Warranty for manufacturing defects will expire one-year the invoicing date. Hydro-Mec will replace or repair defective parts but will not accept any further changes for direct or indirect damages of any kind. The warranty will become null and void if repairs or changes are carried out without our prior written authorization.

Our company will not be responsible for any direct or indirect damages, caused by a wrong use of the products or for not observing the catalogue/web indication

Leggere attentamente

Le seguenti raccomandazioni sono fondamentali per la vostra protezione e per garantirvi molti anni di sicuro funzionamento del vostro prodotto senza alcun problema.

Leggere attentamente tutte le istruzioni prima di azionare il riduttore. L'inappropriata installazione, manutenzione o funzionamento del riduttore può causare incidenti al personale addetto e danni al riduttore stesso.

ATTENZIONE:

- E' richiesta autorizzazione scritta per azionare riduttori in ascensori o dispositivi per il movimento delle persone.
- Controllare che alcune applicazioni non eccedano la massima capacità di carico ammessa pubblicata in questo catalogo.
- L'acquirente è l'unico responsabile per la determinazione dell'adeguatezza del prodotto per qualcuna o tutte le utilizzazioni che l'acquirente stesso farà del riduttore. L'applicazione dell'acquirente non potrà essere soggetta ad alcuna implicita garanzia di montaggio per uno scopo particolare.
- Per ragioni di sicurezza l'acquirente dovrà provvedere a porre protezioni adeguate su tutta la lunghezza dell'albero a tutti gli organi in movimento. L'utilizzatore è responsabile del controllo di tutti i codici di sicurezza e la predisposizione di protezioni adeguate. In assenza di tali precauzioni si possono verificare incidenti alle persone e danni agli apparati.
- Su riduttori installati in posizioni elevate utilizzare protezioni adeguate per qualsiasi distacco accidentale di parti nel caso di passaggio di persone al di sotto.
- Olio e riduttori bollenti possono causare gravi ustioni. Usare estrema cautela nella rimozione dei tappi e delle ventole.
- Assicurarsi che la corrente di alimentazione sia scollegata prima di riparare o rimuovere alcun componente. Chiudere l'alimentazione e contrassegnare tale operazione per evitare accensioni accidentali.
- I riduttori non devono essere considerati esenti da guasti o a bloccaggio automatico. Se sono indispensabili queste caratteristiche, deve essere utilizzato un dispositivo indipendente della dimensione adatta. I riduttori non devono essere utilizzati come freni.
- Qualsiasi freno sia utilizzato insieme al riduttore deve essere della giusta grandezza e posizionato in modo da non causare carichi eccessivi non previsti dai dati forniti nel catalogo.
- I dispositivi di sollevamento come le golfare devono essere usati solo per sollevare verticalmente il riduttore e non altri dispositivi associati o motori.
- L'utilizzo di un olio con un additivo EP su gruppi provvisti di dispositivo di arresto possono inficiare l'uso corretto del freno e provocare danni alle persone, alle cose ed al riduttore stesso nonché ad altri apparecchi.
- I Carichi sospesi assoggettano i cuscinetti della vite e la vite stessa a sollecitazioni che possono causare, se non adeguatamente dimensionati, l'usura prematura dei cuscinetti e/o la rottura della vite a causa della resistenza alla flessione.

CONDIZIONI DI VENDITA

La garanzia relativa a difetti di costruzione ha la durata di un anno dalla data di fatturazione della merce. Tale garanzia comporta per Hydro-mec l'onere della sostituzione o riparazione delle parti difettose ma non ammette ulteriori addebiti per eventuali danni diretti o indiretti di qualsiasi natura.

La garanzia decade nel caso in cui siano state eseguite riparazioni o apportate modifiche senza nostro consenso scritto.

La nostra ditta non si ritiene responsabile per eventuali danni diretti o indiretti derivanti da un uso improprio dei prodotti e dalla mancata osservanza delle indicazioni riportate a catalogo o web..



producto relacionado



*sinfin-corona
serie modular*



*sinfin-corona
serie cuadrada*



*coaxial
aluminio 1e*



*coaxial
aluminio 2/3e*



*coaxial
fundición*



*pendular
serie SM*



*ortogonal
serie X*