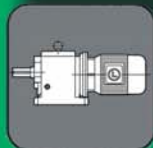




# LENTAX

## Motoreductores Compactos a Engranajes

CATALOGO N°  
**621**



# Programa de Fabricación - Manufacture Summary

CATALOGO N° / CATALOGUE N°

MOTOREDUCTORES A SINFIN Y CORONA "LINEA UNIVERSAL"  
REDUCTORES A SINFIN Y CORONA "LINEA UNIVERSAL"  
WORM GEARED MOTORS "UNIVERSAL LINE"  
WORM GEAR SPEED REDUCERS "UNIVERSAL LINE" **108**

MOTOREDUCTORES A ENGRANAJES COAXIALES  
REDUCTORES A ENGRANAJES COAXIALES  
IN LINE HELICAL GEARBOXES **221**

CONVERTIDORES DE FRECUENCIA , ARRANCADORES SUAVES, FRENOS  
ANTIQUIROS, VARIADORES Y MOTOVARIADORES DE VELOCIDAD  
FREQUENCY INVERTERS, SOFT-STARTERS , BRAKEMOTORS, BACKSTOPS .  
MECHANICALLY ADJUSTABLE SPEED VARIATORS AND MOTO-VARIATORS **320**

MOTOREDUCTORES A SINFIN Y CORONA "LINEA BLOC"  
REDUCTORES A SINFIN Y CORONA "LINEA BLOC"  
WORM GEARED MOTORS "BLOC LINE"  
WORM GEAR SPEED REDUCERS "BLOC LINE" **420**

REDUCTORES A ENGRANAJES  
TRENES PARALELOS - ENTRADA CONICA  
PARALLEL SHAFT SPEED REDUCERS  
BEVEL - HELICAL GEAR UNITS **520**

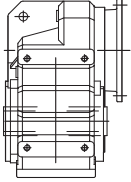
MOTOREDUCTORES COMPACTOS A ENGRANAJES  
MONTAJE CON EJE HUECO  
FLAT HELICAL GEARBOXES  
SHAFT MOUNTED **621**

# SERIES DE FABRICACION / STANDARD GEARDRIVES

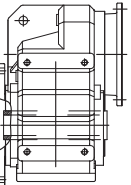
## FORMAS CONSTRUCTIVAS / BUILDING FORM

### REDUCTOR PRINCIPAL / MAIN REDUCER

EJE HUECO  
HOLLOW SHAFT

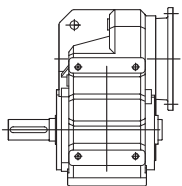


CON PATAS O CON  
BRAZO DE TORSIÓN  
FOOT MOUNTED OR  
SHAFT MOUNTED WITH  
TORQUE ARM

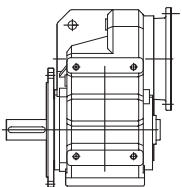


CON BRIDA  
FLANGE MOUNTED

EJE MACIZO  
SOLID SHAFT

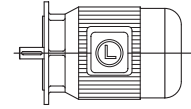


CON PATAS  
FOOT MOUNTED

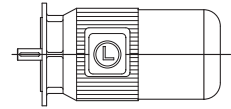


CON BRIDA  
FLANGE MOUNTED

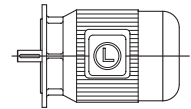
### ACCIONAMIENTO / DRIVE



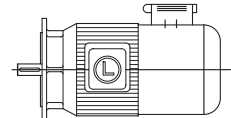
MOTOR NORMALIZADO  
TRIFASICO / MONOFASICO  
STANDARD IEC MOTOR



MOTOR CON FRENO  
O DISPOSITIVO ANTIRETOCESO  
BRAKEMOTOR OR BUILT-IN BACKSTOP

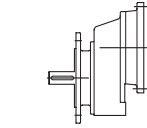


MOTOR ANTIEXPLOSIVO  
EX MOTORS

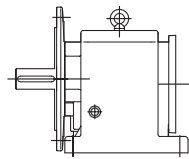


MOTOR DE  
CORRIENTE CONTINUA  
DC. MOTORS

### ANTECAJA / PRIMARY GEARBOX

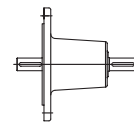


SIMPLE REDUCCION  
SINGLE REDUCTION

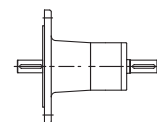


DOBLE O TRIPLE  
REDUCCION  
DOUBLE OR TRIPLE  
REDUCTION

### REDUCTOR / REDUCER



EJE DE ENTRADA  
REDUCTOR  
INPUT SHAFT



EJE DE ENTRADA  
CON DISP. ANTIRETOCESO  
INPUT SHAFT  
WITH BACKSTOP



Empresa líder en la fabricación de motoredutores y reductores de velocidad con más de 50 años de actividad en el país, basada como siempre en su firme convicción de producir la más alta calidad del mercado y habiendo comprobado que en el país hacía falta una renovación tecnológica en este ramo, presenta su línea de **reductores y motoredutores a engranajes y eje hueco** con Calidad Internacional.

### CARACTERÍSTICAS Y VENTAJAS DE ESTA SERIE

- Diseño modular con reducida cantidad de componentes y amplia gama de relaciones disponibles.
- Todos los engranajes y piñones cementados y templados y con **flancos rectificados** ó afeitados según corresponda.
- Estricto control de calidad con equipos de medición de alta precisión para el dentado de engranajes únicos en el ramo.
- Alto rendimiento y funcionamiento suave y silencioso.
- Elevada duración.
- Producción económica debido a la posibilidad de fabricar componentes en serie y para stock.
- Su **montaje con eje hueco** de diseño compacto con reducido peso y volúmen facilita el proyecto del usuario al requerir menos espacio y menos componentes, minimizando costos estructurales.
- Laboratorio metalográfico propio , para control de los materiales y su tratamiento térmico.

### CONSTRUCCIÓN MODULAR

Nuestra nueva línea de cajas de engranajes ha sido diseñada de acuerdo a series standard de números normalizados. Esto significa, que los tamaños de los engranajes, las relaciones de transmisión y las principales dimensiones siguen una determinada progresión que permite racionalizar la producción, minimizar stock, reducir costos y contar con plazos de entrega breves. El diseño de esta nueva línea es la culminación de muchos años de experiencia en la fabricación de diferentes series de elementos de transmisión.

### ENGRANAJES

Todos los piñones y engranajes de esta serie de reductores de doble o triple reducción son construídos con aceros especiales de cementación y temple, obteniéndose de esta forma un dentado con elevada dureza superficial y gran resistencia al desgaste en combinación con un núcleo dúctil de excelente tenacidad. Posteriormente se rectifican los flancos de los dientes lográndose así un dentado helicoidal con perfil corregido de

Lentax is a market leader in the design and manufacture of speed reducers and gearmotors with more than 50 years of experience servicing the toughest applications.

Our quality and dedication to our customers comes from the basic principle of creating the highest quality product using the latest technological advances in design and manufacturing.

This catalogue features our newly expanded line of helical gears speed reducers with hollow shaft and accessories.

### FEATURES AND BENEFITS

- Modular design using less components for greater reliability.
- All gears and pinions are machined from the highest quality materials and then heat treated and super finished to exacting tolerances for outstanding performance.
- Lentax maintains strict quality control of all gear tooth profiles using specialized equipment to ensure maximum meshing of each gear set.
- Lentax maintains a full metallurgic lab in house that constantly monitors metal quality and hardness.
- High performance, smooth and silent operation with exceptional durability.
- Large production runs ensure customers of quick deliveries and reduced production costs that make our speed reducers competitive on the world markets.
- Superior design techniques result in providing a more compact speed reducer design without sacrificing performance, allowing designers and users to scale down space and structural needs.
- Every speed reducer undergoes a strict multi point run-in test in our factory to ensure that you, the customer, can depend on a sure start each and every time.

### HELICAL GEAR SPEED REDUCER MODULAR CONSTRUCTION

This newly updated product line was carefully rationalized in order to provide the customer with an outstanding range of standard models to choose from. Lentax also integrated a new format of production scheduling that rationalizes production to ensure quick reaction times to all of our customer needs.

### GEARS

All of the gear components used in our hollow shaft speed reducers are manufactured from the highest quality case hardened alloy steel. The gear teeth are subsequently treated to obtain a perfect helicoidal profile that ensures the correct helical angle and concentricity of all the gear sets. This perfect matching of profiles allows for factory interchangeability of gear

elevada capacidad portante. Paralelamente, se realiza un estricto control de la evolvente de los dientes, el paso, el ángulo de hélice y la concentricidad de cada par de engranajes.

La concepción de modularidad aplicada al diseño de estas cajas, permite utilizar los pares de engranajes en diferentes tamaños de la serie.

Estos engranajes se caracterizan también por su elevado rendimiento, (98.5 % por cada etapa) funcionamiento suave y gran durabilidad.

## **CAJAS REDUCTORAS**

Todos los cuerpos reductores de esta serie son fabricados en fundición de hierro gris ampliamente dimensionados y provistos de nervios de refuerzo que aumentan su rigidez e indeformabilidad.

Las carcasas son monocasco, confiriéndole mayor rigidez y elevada precisión en el mecanizado en centros de mecanizado C.N.C. de última generación.

## **RODAMIENTOS**

Los reductores de esta línea están totalmente montados sobre rodamientos de rodillos ó bolas, según corresponda, de alta capacidad de carga.

## **EJES**

Los ejes de entrada y salida están contruidos con acero SAE 1045. Todos los asientos y puntas de ejes son rectificadas.

Ambos ejes van provistos de retenes de goma sintética que aseguran la estanqueidad del reductor y la consiguiente protección contra la entrada de polvo y salpicaduras de agua del exterior.

## **ACCESORIOS**

Bajo pedido, los reductores pueden ser entregados con un mecanismo anti-retroceso que permite el giro del reductor en un solo sentido impidiendo su retroceso por efecto de las cargas externas.

Sobre consulta, cuando sea necesario pueden ser provistos con otros accesorios según las necesidades.

## **LUBRICACIÓN**

El sistema de lubricación de estos reductores es por baño de aceite. La lubricación de los rodamientos es por salpicado o blindados según corresponda y queda asegurada debido al diseño especial del interior, que además permite la retención de parte del aceite en el rodamiento cuando el equipo está en reposo.

Las unidades pequeñas hasta los modelos F0 inclusive son entregadas con su carga inicial de aceite sintético con un grado de viscosidad ISO 320. Este es un lubricante de alta duración (20.000 hs).

Cumple las especificaciones de las Normas AGMA 250.04 y API GL-5/GL-6.

El resto de las unidades son entregadas con su carga inicial de aceite de base mineral aditivado.

sets that reduces lead times while always providing speed reducers unrivaled for performance, durability and smooth quiet operation.

Lentax helical gear speed reducers exceed 98.5% efficiency per stage.

## **CASING**

All of the casings in this series of speed reducers are designed and manufactured from close grained cast iron that includes integral ribs and reinforced sections to assure high physical strength and torsional stability to provide a long service life.

All of our speed reducers have matched covers and bases and are factory leak tested.

## **BEARINGS**

Lentax uses only the highest quality ball and roller bearings in the production of these speed reducers.

All bearings are chosen with very generous safety margins to allow for high load capacities.

## **SHAFTS**

All our shafts are made from high strength alloy steel, verified for trueness and diameter to exacting standards.

Highest quality oil seals render these units impervious to contamination from dust or water spray.

## **ACCESSORIES**

These speed reducers can be ordered with an anti-reversing mechanism (backstop) that will prevent the speed reducer from turning backwards once the driving motor has stopped.

In addition, if the application requires it, these speed reducers can be ordered with diferent accesories. Please consult us.

## **LUBRICATION**

Lentax helical gear speed reducers use a highly efficient oil bath lubrication system that reaches all of the critical areas within the gear casing and due to the special design of the parts, the bearings retain some of the oil even when the unit has not been running, to prevent the possibility of dry starts after a shutdown.

Lentax provide these gear boxes from models F00 to F0 with a full crankcase of synthetic oil (viscosity grade ISO - 320 ), wich has extreme long oil drains intervals (20,000 hrs.).

Its qualities exceed AGMA specifications 250.04 for EP gear oils, and API-GL5/GL6 for hipoid gears.

Lentax provide the rest of the gear boxes with a full crankcase of mineral oil.



## SELECCIÓN DEL REDUCTOR

Debido a la diversidad de aplicaciones y condiciones de trabajo, a las cuales puede ser sometido un reductor perteneciente a una línea standard, los fabricantes dan las potencias transmisibles para determinadas condiciones de servicio (Carga uniforme, 8/10 hs. de servicio y accionamiento con motor eléctrico).

Recomendamos seguir cuidadosamente los pasos que se detallan, para así poder lograr una correcta prestación del equipo seleccionado y ante cualquier duda consultar a la fábrica.

### PASOS A SEGUIR

- 1) Calcular la potencia absorbida (Nabs).
- 2) Calcular la potencia de entrada (Ne).
- 3) Determinar el factor de Servicio (fs).
- 4) Calcular la potencia de entrada equivalente  
 $Neq = Ne \cdot fs$
- 5) Calcular la relación ( $i = ne/ns$ ).
- 6) Preseleccionar un modelo.
- 7) Comprobar que  $N_{nominal} \geq Neq$ .
- 8) Controlar la potencia de arranque  
( $N_{arr} \geq 2,5 \cdot N_{nominal}$ )
- 9) Controlar las cargas radiales.

### POTENCIA ABSORBIDA

Es la potencia teórica necesaria para el accionamiento. Dicho valor calculado y suministrado por el cliente, no debe incluir adicionales por condiciones de servicio.

### POTENCIA DE ENTRADA

Esta potencia debe ser referida al eje de entrada afectando la Potencia Absorbida por el rendimiento del reductor. (98.5% por cada etapa).

### FACTOR DE SERVICIO

En las tablas adjuntas, (ver pags. 9 10 11 y 12) se detallan los factores de servicio correspondientes a la máquina accionada, tipo de motor de accionamiento y cantidad de arranques por hora.

### POTENCIA DE ARRANQUE

Los reductores de esta serie, están calculados para resistir potencias de arranque y sobrecargas instantáneas de hasta 2,5 veces la potencia nominal. Cuando este valor sea superado, será necesario consultar a nuestro departamento técnico.

### SELECCIÓN DEL MOTOREDUCTOR

La potencia del motor (Nm) multiplicada por el factor de seguridad del equipo (Fz) debe ser igual o mayor que la potencia equivalente. ( $Nabs \cdot fs / rend$ ).

## SPEED REDUCER SELECTION

Due to the diversity of applications and working conditions that a speed reducer can be subjected to, manufacturers of speed reducers generally state the transmissible capacity for specific conditions of service. As an example, 8-10 hours a day, uniform load, and coupled to an electric motor.

When choosing your speed reducer requirements, take into consideration the actual service conditions and compare them to the figures shown on the tables.

### HOW TO SELECT

- 1) Calculate the necessary Power (Nabs).
- 2) Calculate the Input Power (Ne).
- 3) Calculate the service factor (Fs).
- 4) Calculate the equivalent Input Power.  
( $Neq = Fs \cdot Ne$ ).
- 5) Calculate the ratio. ( $i = ne/ns$ ).
- 6) Preselect a model.
- 7) Verify that ( $N_{nominal} > Neq$ ).
- 8) Determine the required starting capacity.  
( $N_{str} < 2.5 \cdot N_{nom}$ ).
- 9) Determine the radial load

### NECESSARY POWER

This is the theoretical power required for proper operation not taking into account any additional service conditions, this should be calculated in relation to the input shaft.

### INPUT POWER

This is the necessary power increased by the reducer efficiency.  
 $Ne = Nabs / \text{efficiency}$

### SERVICE FACTOR

Refer to the following tables and select the type of example that is comparable to your specific application. (If unsure, contact your closest Lentax representative for assistance).

### STARTING CAPACITY

Lentax helical gear speed reducers have been designed to withstand up to 2.5 times normal load capacities on startup. Should your start up loads be greater, please check with the factory.

### GEARMOTOR SELECTION

Must verify that:  
 $N_{motor} \cdot Fz > Neq$   
 $N_{motor} = \text{Motor power}$   
 $Fz = \text{Safety factor of gearmotor.}$

## ENTREGA MANIPULEO MONTAJE

Todos los reductores se someten en fábrica a un período de marcha en vacío en el cual se verifica su correcto funcionamiento, estanqueidad y los datos de fabricación solicitados por el cliente.

Normalmente las unidades se entregan sin embalaje salvo que se lo solicite expresamente. El costo del mismo no está incluido en el precio de venta.

El equipo se debe levantar mediante lingas que lo rodeen totalmente, pasando por su base o mediante el cáncamo dispuesto para tal fin.

Para colocar acoplamientos, piñones de cadena o engranajes se debe utilizar el centro roscado de los ejes evitando hacerlo mediante golpes, aún cuando se haga sobre un taco de madera interpuesto.

Los ejes se entregan rectificadas con tolerancia ISO k6, recomendándose para las piezas a acoplar ISO H7, estas deberán ser fijadas axialmente mediante prisioneros. Los chaveteros se fabrican según DIN 6885 hoja 1.

El reductor deberá montarse sobre bases planas, niveladas y rígidas, esto es importante para asegurar la correcta lubricación y evitar tensiones adicionales sobre el cuerpo del mismo.

Es necesario verificar la correcta alineación de los ejes de entrada y salida con el motor de mando y con la máquina accionada (especialmente cuando se monta un par de engranajes o existe un apoyo externo).

Para una perfecta nivelación de la base, recomendamos usar suplementos de chapa, y solamente luego de verificada apretar firmemente los bulones de la base.

En los reductores que operan a la intemperie, es aconsejable proveer una cobertura protectora. Lo mismo es válido, cuando el ambiente es muy sucio o se está en presencia de salpicaduras de agua, radiación de calor, polvo, etc.

Cuando en el eje de salida se instale un mando a cadena o un par de engranajes, se deberá verificar que la dirección de la fuerza resultante este dirigida preferentemente hacia la base, en caso contrario rogamos consultarnos. En los reductores con antiretroceso incorporado, se verificará previamente que el sentido de giro del motor eléctrico sea el que corresponde al marcado en el reductor.

## PUESTA EN MARCHA

Se recomienda rodar el reductor en vacío durante un período de 2 / 3 hs., para luego proceder a aplicar la carga en forma gradual hasta la plena potencia. En ambas fases, controlar que el funcionamiento sea normal con ausencia de vibraciones, ruidos y temperaturas anormales. La temperatura del aceite puede llegar a 100°C en condiciones de temperatura del ambiente normal. Asimismo pueden aceptarse períodos breves con temperaturas de alrededor de 120°C. Se aconseja rodar con intervalos de 3/4 semanas, aquellos reductores que por razones de servicio, deban permanecer parados por largos periodos de tiempo (3 o más meses).

## DELIVERY, HANDLING, INSTALLATION AND FIELD ASSEMBLY.

All speed reducers are factory inspected prior to shipping and compared to the customer purchase order for verification of proper match. They are tested during a run-in period for smooth operation, output speed, noise and temperature.

Normally, this model of speed reducer is delivered in standard cardboard packaging .

These speed reducers must be properly supported when removed from their packaging and during installation. Care must be taken when installing couplings or sprockets onto the shafts avoiding blows that can displace internal components from their correct relationships to each other.

The keyways exceed DIN 6885 section 1.

The shafts are prepared to a tolerance of iso k6 with our recommendation to use coupling parts that are to iso H7, and these should be axially locked with bolts.

The speed reducers must be securely installed on a solid and level base to ensure proper lubrication and not to subject the casing and components to any undue lateral or torsional stress.

Alignment of the input and output shafts to the driving motor and driven machine are critical for the performance and service life of the speed reducer.

The use of steel shims or plates is recommended to level the unit out and once this is done, to securely fasten down the speed reducer with appropriately sized bolts.

If the speed reducer is to operate outdoors or in a very dusty area, exposed to water spray or a radiating heat source, we recommend that some protection be put around the speed reducer. If you are unsure of your application conditions, please check with the factory.

Always install the output connections such that the output force is directed towards the base of the speed reducer.

In speed reducers that incorporate anti-reverse features ( Backstop ) ensure that the motor turns in the same direction as indicated on the speed reducer.

## INITIAL START-UP

It is recommended to run-in the speed reducer without load for 2 or 3 hours during which time the unit should be checked for vibration and leaks. After this brief interval, the load should be gradually applied until the full load is on the speed reducer and the operation of the unit is confirmed to be smooth and quiet and that the operating temperature of the unit does not exceed recommended levels.

The operating temperature of the oil can reach 100 deg. C. in normal operating ambient and considered normal as well as brief operation up to 120 deg. C.

If the speed reducer needs to be out of operation for more than 3 months, Lentax recommends a brief period of operation every 3-4 weeks, with or without load, to keep a film of protective lubricant on the internal parts.

## **CAMBIO DE ACEITE**

El primer cambio de aceite se deberá efectuar a las 20000 hs. de marcha en el caso de aceite sintético y a las 5000 hs en el caso de aceite con base mineral.

El drenaje del aceite se efectuará inmediatamente, evitando que se enfríe.

Recomendamos reponer o agregar lubricantes del mismo tipo y marca. Cuando se lo desee cambiar, se deberá realizar previamente un correcto lavado del reductor, evitando así la mezcla de diferentes clases.

Vigilar que el nivel se encuentre dentro de los límites establecidos. Si es bajo, la lubricación será insuficiente. Si es alto se produce un calentamiento adicional por el batido, con pérdida de rendimiento y peligro de formación de espuma.

Verificar periódicamente el nivel de aceite, con el reductor parado y frío. Agregar si el nivel se encuentra por debajo de la marca inferior.

Los rodamientos no requieren lubricación adicional dado que la reciben por salpicado al escurrir el aceite hacia el cárter del reductor.

## **GARANTÍA**

Todos los reductores gozan de una garantía de 1 año contra todo defecto de material y/o fabricación, calculada a partir de su fecha de entrega.

Durante ese período, se repondrá o se reparará sin cargo cualquier pieza que según nuestro exámen resulte con defectos de fabricación.

Para formalizar cualquier reclamo de garantía, el usuario deberá remitirnos sin desarmar el equipo a nuestra fábrica, con indicación de las condiciones de servicio y de la falla detectada.

No estarán incluidos dentro de la garantía los siguientes casos:

- 1) Falta de lubricante, o de tipo y/o calidad inapropiado.
- 2) Condiciones de servicio diferentes a las especificadas en el pedido.
- 3) Montaje inadecuado.
- 4) Cualquier otra aplicación no contemplada en el presente catálogo o expresamente autorizada por nuestro departamento técnico.

## **CORROSIÓN**

Los reductores de velocidad Lentax no están garantizados contra daños producidos por corrosión .

## **RESPONSABILIDAD**

Los datos técnicos contenidos en este catálogo están sujetos a modificaciones dimensionales o de diseño sin previo aviso. Quedando a criterio de Lentax la provisión o nó de los equipos de acuerdo a las presentes especificaciones.

## **OIL CHANGE**

Lentax recommends the oil change every 20,000 hours of operation for units with synthetic oil and every 5,000 hours for units with mineral oil.

It is strongly reconmended that you verify your choice of lubricating oil with Lentax if deviating from the recommended type.

We recommend to always top up the oil reservoir using the same type and grade of oil. If switching between standard and synthetic oils, it may be advisable to wash the oil chamber clean prior to adding the new type of oil.

## **WARRANTY**

Lentax warrants to the purchaser of each new product that any part thereof which proves to be defective in material or workmanship under normal use within 18 months of the date of shipment, or 12 months from the date of start operation, (wichever occurs first) will be repaired or replaced without charge. Any such defect must be brought to the attention of the company's office from which the product was purchased, which is authorized to furnish repair or replacement within the terms of this warranty. The company will not be responsible for any expenses incurred in the installation, removal from service, transportation cost, or for damages of any type whatsoever, including incidental or consequential damages. Some states and provinces do not allow exclusion or limitation of incidental or consequential damages so the preceding exclusion or limitation may not apply to you.

Since Lentax cannot anticipate or control the conditions under which our products may be used, we accept no responsibility for the safety and suitability of our products when used alone or in combination with other products, tests for safety and suitability of the products should be done by the user.

This warranty will not apply, if in the judgement of the company, damage or failure has resulted from accident, alteration, misuse, abuse or operation in any way different than specified initially. The foregoing is in lieu of other warranties expressed or implied. Lentax neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with said product.

Since the paint finish may be damaged in use, no warranty applies to such paint finish except for manufacturing defects which become apparent in the first 30 days of operation.

## **CORROSION**

Speed reducers are not guaranteed against damage caused by corrosion.

## **LIABILITY**

Technical data contained in this catalog is subject to change without notice. The company will endeavor to supply the equipment as illustrated, but reserves the right to make dimensional and other design changes as required.



SELECCIÓN DEL REDUCTOR	SELECTION OF THE GEARBOX
<p><b>INFORMACIÓN NECESARIA PARA LA CORRECTA SELECCIÓN</b></p>	<p><b>FOR THE CORRECT SELECTION IT IS NECESSARY TO KNOW</b></p>
<p><b>REDUCTOR</b></p> <ul style="list-style-type: none"> <li>- Potencia de entrada</li> <li>- Velocidad de entrada</li> <li>- Momento útil necesario en el eje de salida</li> <li>- Velocidad de salida o relación de transmisión</li> <li>- Factor de servicio</li> <li>- Cargas externas sobre el eje de salida: RADIAL - AXIAL</li> <li>- Tipo de máquina a operar</li> </ul> <p>- Sobrecargas Indicar</p> <p style="padding-left: 40px;">Duración Frecuencia</p> <p>- Forma de acoplamiento</p> <p style="padding-left: 40px;">Con acople rígido Con manchón elástico Con engranaje Con cadena Con correas</p> <p>- Posición de montaje</p> <p><b>MOTOR</b></p> <ul style="list-style-type: none"> <li>- Potencia -Velocidad sincrónica</li> <li>- Voltaje - Frecuencia - Protección térmica Clase de aislación</li> <li>- Posición caja de conexiones</li> <li>- Temperatura ambiente (si es mayor de 40°C)</li> <li>- Altura sobre el nivel del mar (si es mayor de 1000 m).</li> <li>- Tiempo de funcionamiento</li> <li>- Arranque en vacío o bajo carga</li> <li>- Cantidad de arranques por hora</li> <li>- Tipo de arranque <ul style="list-style-type: none"> <li>- Arranque directo</li> <li>- Arranque Indirecto</li> <li>- Estrella - Triángulo</li> <li>- Arrancador Suave</li> <li>- Variador de frecuencia</li> </ul> </li> <li>- Si el motor es de 2 velocidades indicar</li> <li>- Velocidades de salida</li> <li>- Potencias necesarias en ambas velocidades</li> <li>- Si lleva freno especificar</li> <li>- Cupla de frenado</li> <li>- Ciclo de trabajo (arranques por hora)</li> <li>- Tiempo de funcionamiento</li> <li>- Inercias a frenar, trasladadas al eje del motor</li> </ul>	<p><b>GEARBOX</b></p> <ul style="list-style-type: none"> <li>- Input Power</li> <li>- Input Speed in R.P.M.</li> <li>- Output Torque</li> <li>- Output Speed in R.P.M., or Ratio</li> <li>- Service Factor</li> <li>- Overhung Loads: RADIAL - THRUST</li> <li>- Type of machine to operate</li> </ul> <p>- Overloads It is necessary to know</p> <p style="padding-left: 40px;">Running time Frequency</p> <p>- Type of transmission between drive motor and gearbox</p> <p style="padding-left: 40px;">Direct coupling Flexible coupling Pinion-Gear Sprocket-wheel chain Belt Drive</p> <p>- Mounting position</p> <p><b>DRIVE MOTOR</b></p> <ul style="list-style-type: none"> <li>- Power -Number of poles</li> <li>- Voltage - Frequency - Insulation class - Thermal protection</li> <li>- Position of the terminal box</li> <li>- Ambient Temperature (if higher than 40°C)</li> <li>- Altitude (if higher than 1000 m above sea level)</li> <li>- Running time</li> <li>- Mass to accelerate</li> <li>- Number of starts and stops/hour</li> <li>- Kind of start <ul style="list-style-type: none"> <li>- Direct start</li> <li>- Indirect Start</li> <li>- Star-Triangle</li> <li>- Soft Starter</li> <li>- Inverter ()</li> </ul> </li> <li>- For double speed motors :</li> <li>- Output speeds</li> <li>- Both necessary input powers</li> <li>- For Brakemotors</li> <li>- Braking Torque</li> <li>- Number of starts and stops/hour</li> <li>- Running time</li> <li>- Inertia of the driven machine</li> </ul>

## SELECCION DEL MOTOREDUCTOR

La selección se efectúa mediante el Listado de Potencias, velocidades y momentos útiles (pgs. 16...27) debiendo verificarse que el Factor de Seguridad del equipo sea mayor ó igual que el Factor de Servicio.

$$F_z > F_s$$

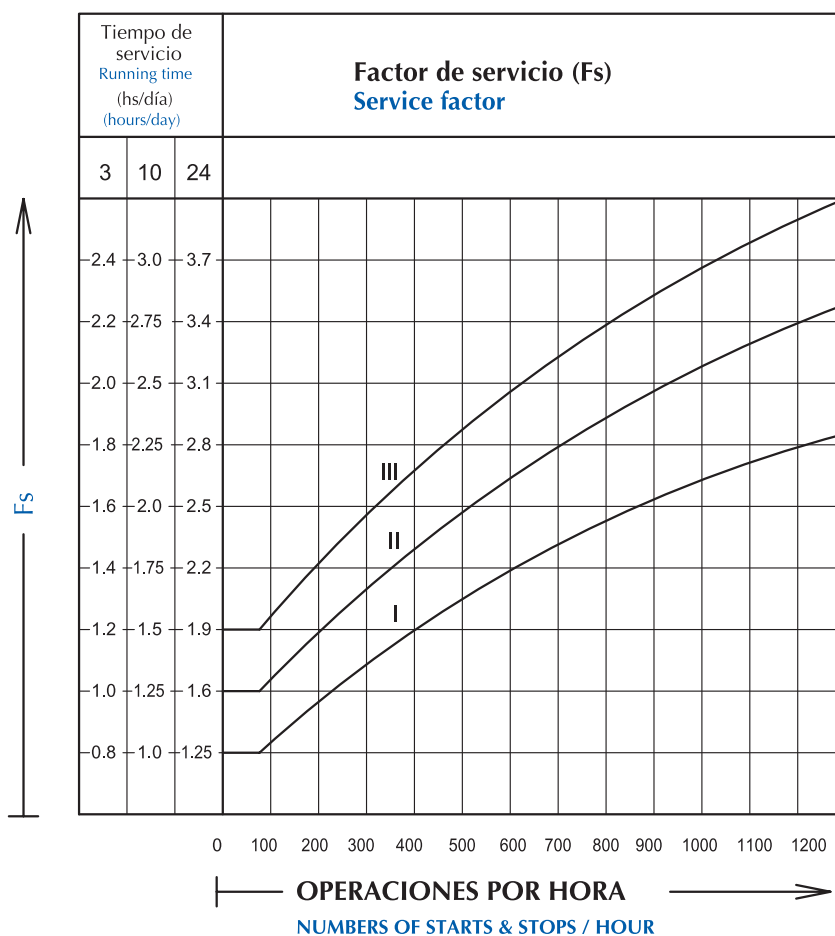
El Factor de servicio ( $F_s$ ) depende del tiempo de servicio y las características de la carga, pudiendo determinarse del siguiente gráfico:

## GEARMOTOR SELECTION

To select the appropriate gear unit consult the Selection Tables (pages 16...27), and must verify that the Safety Factor is equal or greater than the Service Factor.

$$F_z > F_s$$

Service Factor ( $F_s$ ) depends on the running time and the load classification. It can be determined from the diagram below:



## CARACTERISTICAS DE LA CARGA

### LOAD CLASSIFICATION

- I REGULAR: Pequeñas masas para acelerar sin sobrecargas  
I UNIFORM LOAD: Small mass to accelerate, without overloads.
- II IRREGULAR: Medianas masas para acelerar sobrecargas medianas  
II MODERATE SHOCK LOAD: Medium mass to accelerate, moderate overloads.
- III IRREGULAR: Grandes masas para acelerar fuertes sobrecargas  
III HEAVY SHOCK LOAD: Large mass to accelerate, heavy overloads.

En las pags. 9, 10, 11, y 12 se ofrecen ejemplos típicos de aplicaciones y sus respectivos factores de servicio orientativos.

Please see pages. 9, 10, 11, and 12 in order to help you to determinate the Service Factor.

<b>MAQUINA ACCIONADA</b> <b>TIPO DE MAQUINA</b>	<b>FACTOR fs</b> <b>fs FACTOR</b> <b>hs. de Servicio</b> <b>Service hrs.</b> <b>8      16      24</b>			<b>APPLICATIONS AND INDUSTRY</b> <b>DRIVEN MACHINE</b>
<b>EXCAVADORAS Y DRAGAS</b>  Excavadoras de cangilones (cadena fija) Excavadoras de cangilones (cadena suelta) Translación por orugas Translación por rieles Bombas de aspiración Apiladoras de cangilones Ruedas de cangilones Cabezales de corte Dispositivo de viraje	1,65    1,8    1,8 1,5    1,6    1,6 1,65    1,8    1,8 1,5    1,6    1,6 1,4    1,5    1,6 1,4    1,5    1,6 1,65    1,8    1,8 1,65    1,8    1,8 1,65    1,8    1,8	<b>DREDGERS</b>  Bucket excavator Trench machine Travelling gear (caterpillar) Travelling gear (rails) Suction pumps Bucket loader Bucket wheels Cutter heads Manoeuvring winches		
<b>TRITURACION Y MOLIENDA</b> <b>(cemento-cal-yeso)</b>  Trituradoras de mandíbulas Trituradoras de cono Trituradoras rotativas Quebrantadoras rotativas Hornos rotativos Sopladores Zarandas vibratorias Molinos de martillos Molinos de bolas Molinos de percusión Molinos tubulares Machacadoras	1,65    1,8    1,8 1,65    1,8    1,8 1,65    1,8    1,8 1,65    1,8    1,8 1,8    2    2 1,4    1,5    1,5 1,5    1,6    1,6 1,8    2    2 1,65    1,8    1,8 1,9    2,1    2,1 1,8    2    2 1,8    2    2	<b>STONE AND CLAY WORKING</b> <b>MACHINES</b>  Jaw crushers Cone crushers Gyratory crushers Rotary breakers Rotary ovens Blowers Vibrating screens Hammer mills Ball mills Beater mills Tube mills Breakers		
<b>MAQUINAS PARA EL CAUCHO</b>  Calandras Amasadoras Extrusoras Laminadoras Mezcladoras	1,5    1,6    1,6 1,65    1,8    1,8 1,65    1,8    1,8 1,65    1,8    1,8 1,5    1,6    1,6	<b>RUBBER MACHINERY</b>  Calenders Pugmills Extruders Rolling mills Mixers		
<b>TRANSPORTE Y ALMACENAJE</b>  Montacargas Elevadores de personas Elevadores inclinados Elevadores de cangilones (rocas) Elevadores de cangilones (granos) Transportadores a cadena (redlers) Transportadores de cangilones Transportadores circulares Roscas transportadoras Bandas transportadoras (granel) Transportadores de banda (articulados) Transportadores de cinta de acero Bandas transportadoras (bultos grandes) Transportadores de placas Tornos de elevación	1,5    1,6    1,6 1,8    2,0    2,0 1,65    1,8    1,8 1,65    1,8    1,8 1,5    1,6    1,6 1,5    1,6    1,6 1,5    1,6    1,6 1,5    1,6    1,6 1,5    1,6    1,6 1,15    1,4    1,5 1,15    1,4    1,5 1,3    1,5    1,7 1,5    1,6    1,6 1,3    1,5    1,7 1,5    1,6    1,6 1,5    1,6    1,6	<b>CONVEYORS</b>  Hoists Passenger lifts Inclined hoists Bucket elevators (piece goods) Bucket elevators (bulk material) Chain conveyors Bucket conveyors Circular conveyors Screw conveyors Belt conveyors (bulk material) Apron conveyors Steel belt conveyors Belt conveyors (piece goods) Band pocket conveyors Ballast elevators		

MAQUINA ACCIONADA TIPO DE MAQUINA	FACTOR fs fs FACTOR hs. de Servicio Service hrs.			APPLICATIONS AND INDUSTRY DRIVEN MACHINE
	8	16	24	
<b>VENTILADORES - SOPLADORES</b>				<b>BLOWERS - VENTILATORS</b>
Ventiladores (axiales y radiales)	1	1,2	1,4	Blowers (axial and radial)
Turboventiladores	1	1,2	1,4	Turbo blowers
Sopladores rotativos a pistón	1,2	1,4	1,5	Rotary piston blowers
Ventiladores de torres de enfriamiento	1,5	1,6	1,6	Cooling tower fans
Ventiladores de Aspiración	1	1,3	1,5	Induced draught fans
<b>ALIMENTACION Y AZUCAR</b>				<b>FOOD INDUSTRY MACHINERY</b>
Amasadoras	1,5	1,6	1,7	Kneading machines
Cortadoras de caña de azúcar	1,6	1,7	1,8	Cane knives
Desmenzadoras de remolacha	1,5	1,6	1,7	Sugar beet cutters
Lavadoras de remolacha	1,4	1,5	1,6	Sugar beet washing machines
Llenadoras de botellas	1,15	1,4	1,5	Bottling and container filling
Machacadoras de caña de azúcar	1,5	1,6	1,7	Cane crushers
Máquinas empaquetadoras	1,15	1,4	1,5	Packaging machines
Molinos para caña de azúcar	1,65	1,8	1,8	Cane mills
Recipientes para macerar	1,5	1,6	1,7	Mash tubes, crystallizers
<b>BOMBAS</b>				<b>PUMPS</b>
Bombas centrífugas (líquidos)	1,2	1,3	1,4	Centrifugal pumps (light-liquids)
Bombas centrífugas (semilíquidos)	1,3	1,4	1,5	Centrifugal pumps (semi-liquids)
Bombas de émbolo (U 1 : 100-200)	1,6	1,8	1,8	Piston pumps
Bombas de émbolo (U < 100)	1,8	1,8	2	Plunger pumps
Bombas de presión	1,6	1,8	1,8	Pressure pumps
<b>SIDERURGIA Y LAMINACION</b>				<b>METAL ROLLING MILLS</b>
Sopladores de Alto horno	1,4	1,4	1,4	Cooling beds
Mando de Convertidores basculantes	1,8	1,8	1,8	Continuous casting plant
Cargadores inclinados de alto horno	1,8	1,8	1,8	Manipulators
Rodillos de transporte (uso pesado)	1,65	1,8	1,8	Roller tables (heavy)
Rodillos de transporte (uso liviano)	1,5	1,6	1,6	Roller tables (light)
Ajuste de Cilindros	1,5	1,6	1,6	Roller adjustment drives
Arrastradores transversales	1,5	1,6	1,6	Cross transfers
Cizallas	1,65	1,8	1,8	Trimming shears
Empujadores de lingotes	1,65	1,8	1,8	Ingot pushers
Enderezadores de rodillos	1,5	1,6	1,6	Roller straighteners
Enrolladores (chapa o alambre)	1,5	1,6	1,6	Winding machines (strip and wire)
Laminadores (chapa fina o gruesa)	1,65	1,8	1,6	Heavy and medium plate mills
Laminadores de palanquilla	1,65	1,8	1,8	Ingot and blooming mills
Laminadores en frío	1,65	1,8	1,8	Cold rolling mills
Máquinas para soldar tubos	1,65	1,8	1,8	Tube welding machine
Tijeras de palanquilla	1,65	1,8	1,8	Billet shears
Tijeras de rebordear	1,5	1,6	1,6	Cropping shears
Mecanismos de desplazamiento	1,65	1,8	1,8	Chain transfers
Transportadores de palanquilla	1,65	1,8	1,8	Ingot handling machinery
Trefiladoras	1,5	1,6	1,6	Wire drawing benches
Trituradores de Escoria	1,65	1,8	1,8	Sheet mills, descaling machines
Volteadoras de chapa	1,5	1,6	1,6	Plate tilers
Enderezadora y Cortadora Continua	1,5	1,6	1,6	Plate shears

<b>MAQUINA ACCIONADA</b> <b>TIPO DE MAQUINA</b>	<b>FACTOR fs</b> <b>fs FACTOR</b> <b>hs. de Servicio</b> <b>Service hrs.</b> <b>8      16      24</b>			<b>APPLICATIONS AND INDUSTRY</b> <b>DRIVEN MACHINE</b>
<b>MAQUINAS PARA PLASTICOS</b>				<b>PLASTIC INDUSTRY MACHINERY</b>
Calandras	1,5	1,6	1,6	Calenders
Extrusoras	1,65	1,8	1,8	Extruders
Desmenuzadoras	1,5	1,6	1,6	Crushers
Mezcladoras	1,65	1,8	1,8	Mixers
<b>MAQUINAS PARA TRABAJAR METALES</b>				<b>METAL WORKING MACHINE</b>
Máquinas dobladoras	1,5	1,6	1,6	Sheet metal bending machines
Enderezadoras de chapas	1,65	1,8	1,8	Plate straightening machines
Balancines	1,65	1,8	1,8	Punch presses
Cizallas	1,5	1,6	1,6	Shears
Prensas de forja	1,65	1,8	1,8	Forging presses
Prensas de estampado	1,65	1,8	1,8	Stamping presses
Mandos principales de máquinas herramientas	1,5	1,6	1,6	Machine tools, main drives.
Mandos secundarios de máquinas herramientas	1,15	1,4	1,5	Machine tools, auxiliary drives.
Cepillos	1,65	1,8	1,8	Metal planing machines
<b>GRUAS</b>				<b>CRANES</b>
Mecanismo de elevación	1,3	1,5	1,6	Luffing gear
Mecanismo de Giro	1,5	1,6	1,6	Bull gear
Mecanismo de Traslación	1,65	1,8	1,8	Travelling gear
Mando de Pluma articulada	1,5	1,6	1,6	Derricking jib gear
<b>INDUSTRIA ACEITERA</b>				<b>OIL INDUSTRY</b>
Filtros Prensa	1,5	1,6	1,6	Filter press
Bombas de línea	1,5	1,6	1,6	Pipeline pumps
Bombas de barrido	1,5	1,6	1,6	Scavenge pump
<b>MAQUINAS PARA LA INDUSTRIA DEL PAPEL</b>				<b>PAPER MACHINES</b>
Calandras	1,4	1,5	1,6	Calenders
Cilindros laminadores	1,65	1,8	1,8	Glazing cylinders
Cilindros secadores	1,65	1,8	1,8	Drying cylinders
Desfibradores de madera	1,65	1,8	1,8	Shredders
Deshilachadoras	1,65	1,8	1,8	Pulpers
Lisas	1,65	1,8	1,8	Couches
Molinos de pasta	1,5	1,6	1,6	Pulp grinders
Prensas de deshidratación	1,65	1,8	1,8	Suction rolls
Prensas de vacio	1,65	1,8	1,8	Suction presses
Prensas húmedas	1,65	1,8	1,8	Wet presses
Encoladoras	1,8	2	2	Gluing machines
<b>PRENSAS</b>				<b>PRESESSES</b>
Prensas para plegado	1,65	1,8	1,8	Bending presses
Prensas para briquetas	1,65	1,8	1,8	Briqueting press
Prensas excéntricas	1,65	1,8	1,8	Cam presses
Prensas para forja	1,65	1,8	1,8	Forge presses
Prensas para ladrillos	1,65	1,8	1,8	Brick presses



<b>MAQUINA ACCIONADA</b> <b>TIPO DE MAQUINA</b>	<b>FACTOR fs</b> <b>fs FACTOR</b> <b>hs. de Servicio</b> <b>Service hrs.</b> <b>8      16      24</b>			<b>APPLICATIONS AND INDUSTRY</b> <b>DRIVEN MACHINE</b>
<b>MAQUINAS PARA INDUSTRIA TEXTIL</b>				<b>TEXTILE MACHINES</b>
<b>Máquinas bobinadoras</b>	<b>1,15</b>	<b>1,4</b>	<b>1,5</b>	<b>Batchers</b>
<b>Máquinas de tinte y estampado</b>	<b>1,3</b>	<b>1,4</b>	<b>1,5</b>	<b>Printing and dyeing machines</b>
<b>Máquinas secadoras</b>	<b>1,3</b>	<b>1,4</b>	<b>1,5</b>	<b>Willows</b>
<b>Tinas para curtido</b>	<b>1,3</b>	<b>1,4</b>	<b>1,6</b>	<b>Tanning vats</b>
<b>Máquinas cortadoras</b>	<b>1,3</b>	<b>1,4</b>	<b>1,5</b>	<b>Cutters</b>
<b>Telares</b>	<b>1,15</b>	<b>1,4</b>	<b>1,5</b>	<b>Looms</b>
<b>COMPRESORES</b>				<b>COMPRESSORS</b>
<b>Compresores de émbolo (U 1 : 100-200)</b>	<b>1,6</b>	<b>1,7</b>	<b>1,8</b>	<b>Piston compressors (U1 : 100-200)</b>
<b>Compresores de émbolo (U &lt; 100)</b>	<b>1,7</b>	<b>1,8</b>	<b>2</b>	<b>Piston compressors (U &lt; 100)</b>
<b>Turbo compresores</b>	<b>1,6</b>	<b>1,7</b>	<b>1,8</b>	<b>Turbo compressors</b>
<b>TRATAMIENTO DE AGUAS</b>				<b>WATER TREATMENT</b>
<b>Aireadores</b>	<b>1,5</b>	<b>1,5</b>	<b>1,5</b>	<b>Aerators</b>
<b>Tornillo de Arquímedes</b>	<b>1,15</b>	<b>1,4</b>	<b>1,5</b>	<b>Screw pumps</b>
<b>PETROLEO (EXPLOTACION Y TRANSPORTE)</b>				<b>PETROLEUM INDUSTRY</b>
<b>Bombas de oleoductos</b>	<b>1,4</b>	<b>1,5</b>	<b>1,6</b>	<b>Pipeline pumps</b>
<b>Instalaciones de perforación</b>	<b>1,65</b>	<b>1,8</b>	<b>1,8</b>	<b>Rotary drilling equipment</b>
<b>MAQUINARIA PARA LA CONSTRUCCION</b>				<b>BUILDING MACHINERY</b>
<b>Elevadores de carga</b>	<b>1,5</b>	<b>1,6</b>	<b>1,7</b>	<b>Hoists</b>
<b>Mezcladoras de hormigón</b>	<b>1,6</b>	<b>1,7</b>	<b>1,8</b>	<b>Concrete mixers</b>
<b>Transportadores</b>	<b>1,4</b>	<b>1,5</b>	<b>1,6</b>	<b>Road construction machinery</b>
<b>INDUSTRIA QUIMICA</b>				<b>CHEMICAL INDUSTRY</b>
<b>Agitadores (livianos - baja densidad)</b>	<b>1,15</b>	<b>1,4</b>	<b>1,5</b>	<b>Agitators (liquid material)</b>
<b>Agitadores (pesados - alta densidad)</b>	<b>1,3</b>	<b>1,5</b>	<b>1,7</b>	<b>Agitators (semi-liquid material)</b>
<b>Centrífugas (uso liviano)</b>	<b>1,15</b>	<b>1,4</b>	<b>1,5</b>	<b>Centrifuges (heavy)</b>
<b>Centrífugas (uso pensado)</b>	<b>1,3</b>	<b>1,5</b>	<b>1,7</b>	<b>Centrifuges (light)</b>
<b>Mezcladoras</b>	<b>1,5</b>	<b>1,6</b>	<b>1,6</b>	<b>Mixers</b>
<b>Tambores de refrigeración</b>	<b>1,5</b>	<b>1,6</b>	<b>1,6</b>	<b>Cooling drums</b>
<b>Tambores secadores</b>	<b>1,5</b>	<b>1,6</b>	<b>1,6</b>	<b>Drying drums</b>
<b>MAQUINAS PARA LA INDUSTRIA MADERERA</b>				<b>WOOD WORKING MACHINES</b>
<b>Cepillos</b>	<b>1,5</b>	<b>1,6</b>	<b>1,6</b>	<b>Planing machines</b>
<b>Descortezadores</b>	<b>1,65</b>	<b>1,8</b>	<b>1,8</b>	<b>Barkers</b>
<b>Sierras Alternativas</b>	<b>1,65</b>	<b>1,8</b>	<b>1,8</b>	<b>Saw frames</b>
<b>Ensambladoras</b>	<b>1,2</b>	<b>1,3</b>	<b>1,4</b>	<b>Wood working machine</b>
<b>GENERADORES -CONVERTIDORES</b>				<b>GENERATORS - TRANSFORMERS</b>
<b>Convertidores de frecuencia</b>	<b>1,65</b>	<b>1,8</b>	<b>1,8</b>	<b>Frequency transformers</b>
<b>Generadores</b>	<b>1,15</b>	<b>1,4</b>	<b>1,5</b>	<b>Generators</b>
<b>Generadores para soldaduras</b>	<b>1,6</b>	<b>1,7</b>	<b>1,8</b>	<b>Welding generators</b>

## CARGAS RADIALES

Normalmente se recomienda acoplar los reductores de potencias medias y grandes, directamente con manchones elásticos. Cuando ello no sea posible, solicitamos consultarnos, indicándonos el valor, punto de aplicación y orientación de dichas cargas.

## CALCULO DE LA CARGA RADIAL

La carga radial provocada por un elemento de transmisión puede calcularse con:

$$Pr = \frac{M \cdot k \cdot k1 \cdot f}{10 Dp/2} \quad [ \text{da N} ]$$

M= Momento torsor necesario en el eje de salida (Nm)

Dp= Diametro primitivo del elemento de reduccion aplicado en el eje de salida (m).

k= Constante según el tipo de reducción.

- k= 1.0 engranajes
- k= 1.4 piñón y cadena
- k= 1.8 correas en V
- k= 2.2 correas planas

k1= Constante según el tipo de construcción.

- k1= 1.0 en equipo standard
- k1= 0.7 en equipo con trompa para agitador.(RU)

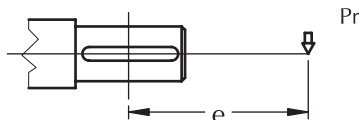
f = factor de corrección para el caso de carga aplicada fuera del centro del extremo de eje standard.

Siendo  $f = 1 + \frac{e}{L}$

**Donde:**

e = distancia del punto de aplicación al centro del eje (m).

L = ver tabla en pag. 14



En todo caso debera verificarse que:

$$Pr < P \text{ adm}$$

Caso contrario, deberá incrementarse el diámetro del elemento de transmisión o adoptarse una caja reductora de mayor capacidad.

En casos de servicios severos rogamus consultarnos.

## RADIAL LOADS

We normally recommend that medium to high H.P. speed reducers be connected to the driven machine by means of flexible coupling. When the use of couplings is not possible, please consult the factory providing us with details of the application and the orientation that the shafts will have to each other.

## CALCULATION OF RADIAL LOADS

The radial load can be calculated using the following formula:

$$Pr = \frac{M \cdot k \cdot k1 \cdot f}{Dp/2} \quad [ \text{lb} ]$$

M= Output torque (lb-inch).

Dp= Pitch diameter of driven pulley, gear, pinion. (inch)

k= Load connection factor.

- k= 1.0 gear
- k= 1.4 sprocket-wheel chain.
- k= 1.8 V-belt
- k= 2.2 Flat belt

k1= building factor

- k1= 1.0 in standard unit
- k1= 0.7 in agitator unit (RU)

f = load location factor

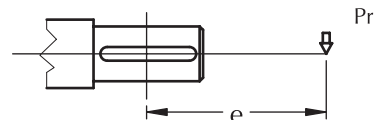
To determinate the load location factor apply the following formula.

$$f = 1 + \frac{e}{L}$$

**Where:**

e = distance from center line of load to midpoint of output shaft.

L = see table on page 14



Each case must verify that:

$$Pr < P \text{ adm}$$

Otherwise, the pitch diameter of driven pulley should be increased, or choose the next size up speed reducer. Anyway, on heavy duty service, check with our technical support.

## CARGAS RADIALES Y AXIALES ADMISIBLES EN EL EJE DE SALIDA\* OUTPUT SHAFT OVERHUNG LOAD RATING\*

### CARGAS ADMISIBLES PARA EJE DE SALIDA HUECO HOLLOW SHAFT OVERHUNG LOAD RATING

MODELO MODEL		VELOCIDAD EN EL EJE DE SALIDA (r.p.m.) / OUTPUT SPEED ( r.p.m. )							
		...<5	5...20	21...40	41...60	61...80	81...120	121...150	151<...
<b>F00T</b>	Carga radial (daN)	720	690	620	550	420	350	320	280
	Radial load (lb)	1655	1586	1425	1264	966	805	736	644
	Carga axial (daN)	360	345	310	275	210	175	160	140
	Thrust (lb)	828	793	713	632	483	402	368	322
<b>F0T</b>	Carga radial (daN)	1050	910	820	730	580	480	425	370
	Radial load (lb)	2414	2092	1885	1678	1333	1103	977	851
	Carga axial (daN)	525	455	410	365	290	240	212.5	185
	Thrust (lb)	1207	1046	943	839	667	552	489	425
<b>F1T</b>	Carga radial (daN)	1300	1250	1120	910	760	640	580	520
	Radial load (lb)	2989	2874	2575	2092	1747	1471	1333	1195
	Carga axial (daN)	650	625	560	455	380	320	290	260
	Thrust (lb)	1494	1437	1287	1046	874	736	667	598
<b>F2T</b>	Carga radial (daN)	2100	1950	1580	1460	1200	940	780	690
	Radial load (lb)	4828	4483	3632	3356	2759	2161	1793	1586
	Carga axial (daN)	1050	975	790	730	600	470	390	345
	Thrust (lb)	2414	2241	1816	1678	1379	1080	897	793
<b>F3T</b>	Carga radial (daN)	3100	2680	2500	2200	1800	1450	1200	1100
	Radial load (lb)	7126	6161	5747	5057	4138	3333	2759	2529
	Carga axial (daN)	1550	1340	1250	1100	900	725	600	550
	Thrust (lb)	3563	3080	2874	2529	2069	1667	1379	1264
<b>F4T</b>	Carga radial (daN)	4200	4000	3800	3600	3100	2700	2100	1950
	Radial load (lb)	9655	9195	8736	8276	7126	6207	4828	4483
	Carga axial (daN)	2100	2000	1900	1800	1550	1350	1050	975
	Thrust (lb)	4828	4598	4368	4138	3563	3103	2414	2241
<b>F45T</b>	Carga radial (daN)	7000	6600	6200	5900	5100	4400	3400	3200
	Radial load (lb)	16092	15172	14253	13563	11724	10115	7816	7356
	Carga axial (daN)	3500	3300	3100	2950	2550	2200	1700	1600
	Thrust (lb)	8046	7586	7126	6782	5862	5057	3908	3678

Nota 1: Validas para cargas aplicadas en el centro de la punta de eje (Considerando eje de salida macizo standard).

Note 1: For loads applied on the middle of the end shaft (Considering standard solid shaft).

Nota 2: Validas para reductor sometido a Potencia Nominal, otros casos rogamos consultarnos.

Note 2: For gearbox working at full Nominal Power, otherwise check with the factory.

Nota 3: Para solicitudes mayores rogamos consultarnos.

Note 3: Please consult LENTAX regarding larger overhung load requirements.

### CARGAS ADMISIBLES PARA EJE DE SALIDA MACIZO STANDARD\* OUTPUT SHAFT OVERHUNG LOAD RATING\*

\* ADOPTAR EL MENOR VALOR DE LOS OBTENIDOS EN LAS DOS TABLAS.

\* SELECT THE LOWER VALUE FROM THE TWO TABLES.

MODELO MODEL	<b>F00T</b>	<b>F0T</b>	<b>F1T</b>	<b>F2T</b>	<b>F3T</b>	<b>F4T</b>	<b>F45T</b>
Carga radial (daN)	650	870	1400	2100	3200	4000	5400
Radial load (lb)	1494	2000	3218	4828	7356	9195	12414

Nota 1: Validas para cargas aplicadas en el centro de la punta de eje.

Note 1: For loads applied on the middle of the end shaft.

Nota 2: Validas para reductor sometido a Potencia Nominal, y material del eje standard, otros casos rogamos consultarnos.

Note 2: For gearbox working at full Nominal Power, and factory standard material, otherwise check with the factory.

Nota 3: Para solicitudes mayores rogamos consultarnos.

Note 3: Please consult LENTAX regarding larger overhung load requirements.

### TABLA PARA DETERMINAR L TO DETERMINATE L SEE THE FOLLOWING TABLE

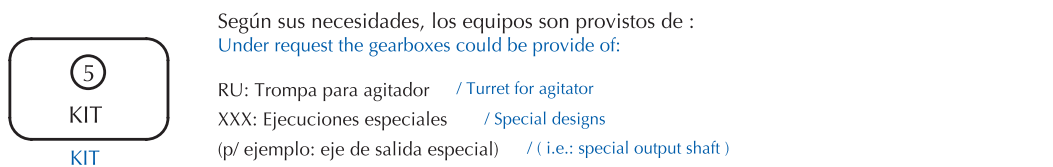
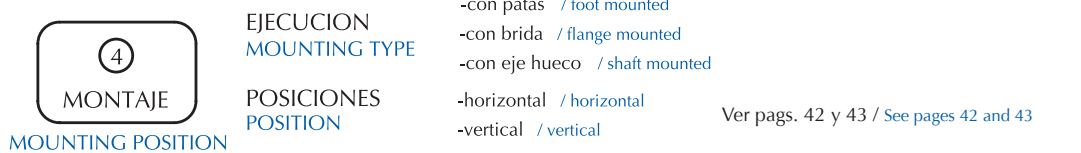
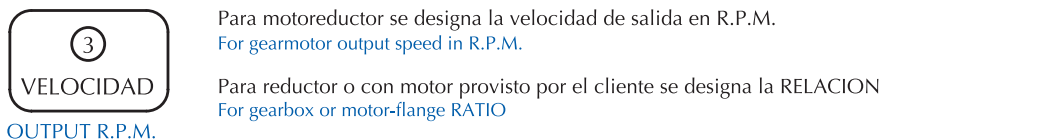
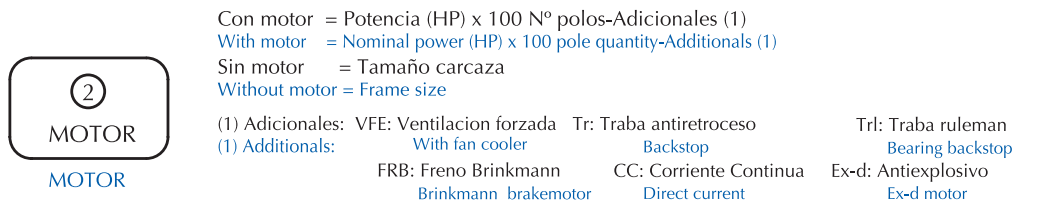
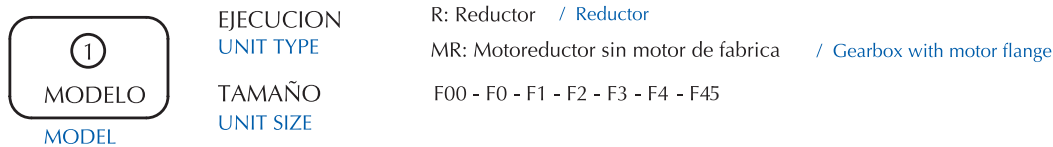
MODELO MODEL	<b>F00T</b>	<b>F0T</b>	<b>F1T</b>	<b>F2T</b>	<b>F3T</b>	<b>F4T</b>	<b>F45T</b>
<b>L</b> mm	100	128	140	160	190	240	288
inch	3,937	5,039	5,512	6,299	7,480	9,449	11,339

# CODIGO DE DESIGNACION / UNIT DESIGNATIONS

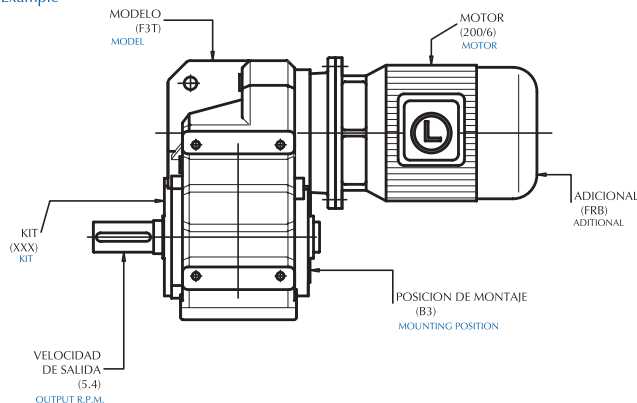
Cada unidad se subdivide en 5 campos con sus correspondientes siglas o números. Juntando éstos se obtiene el código de designación del equipo.

Every unit contains 5 fields composed by characters or numbers. Joining these items we obtain the unit designation code.

Ejemplo: F3T - 200/6 FRB - 5.4 - B3 - XXX  
In example



Ejemplo: F3T - 200/6 FRB - 5.4 - B3 - XXX  
Example







Potencia Entrada		Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)			Potencia Entrada kW	Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)															
		650	3.40	188.91	F1T3	0.17 / 8	3.00	332																							
			3.80	172.14	F1T3	0.17 / 8	3.30	302																							
			4.20	153.95	F1T3	0.17 / 8	3.45	271																							
			4.6	140.28	F1T3	0.17 / 8	3.75	247																							
		910		4.8	188.91	F1T3	0.17 / 6	4.00	237																						
					1.7	792.48	FOFR	0.17	1.00											646											
		1380			2.2	639.15	FOFR	0.17	1.20	521																					
					2.6	527.64	FOFR	0.17	1.50	430																					
					3.0	462.19	FOFR	0.17	1.70	377																					
					3.7	372.77	FOFR	0.17	2.10	304																					
4.5	307.73				FOFR	0.17	2.55	251																							
5.3	258.31				FOFR	0.17	3.05	210																							
6.3	219.47				FOFR	0.17	3.60	179																							
650			3.6	178.59	FOT3	0.17 / 8	2.15	314																							
			3.9	164.57	FOT3	0.17 / 8	2.40	289																							
			4.7	139.66	FOT3	0.17 / 8	2.75	245																							
			5.1	128.70	FOT3	0.17 / 8	3.05	226																							
			5.8	113.03	FOT3	0.17 / 8	3.40	199																							
			6.2	104.16	FOT3	0.17 / 8	3.75	183																							
			6.4	101.02	FOT3	0.17 / 8	3.85	178																							
			910			5.1	178.59	FOT3											0.17 / 6	2.85	224										
5.5	164.57	FOT3				0.17 / 6	3.20	207																							
6.5	139.66	FOT3				0.17 / 6	3.65	175																							
1380			3.8	360.35	FOOFR	0.17	1.00	294																							
			4.1	336.11	FOOFR	0.17	1.10	274																							
			4.7	290.63	FOOFR	0.17	1.25	237																							
			5.8	239.93	FOOFR	0.17	1.50	195																							
			6.9	201.39	FOOFR	0.17	1.80	164																							
			8.1	171.11	FOOFR	0.17	2.10	139																							
			9.4	146.69	FOOFR	0.17	2.45	120																							
650			4.1	159.51	FOOT3	0.17 / 8	1.00	280																							
			4.9	132.81	FOOT3	0.17 / 8	1.15	233																							
			5.3	123.62	FOOT3	0.17 / 8	1.30	217																							
			6.6	99.06	FOOT3	0.17 / 8	1.60	174																							
			7.0	92.78	FOOT3	0.17 / 8	1.75	163																							
			8.0	81.21	FOOT3	0.17 / 8	2.00	143																							
			9.0	71.91	FOOT3	0.17 / 8	2.20	126																							
			910			5.2	175.46	FOOT3											0.17 / 6	1.20	220										
						5.7	159.51	FOOT3											0.17 / 6	1.35	200										
						6.9	132.81	FOOT3											0.17 / 6	1.55	167										
7.4	123.62	FOOT3				0.17 / 6	1.70	155																							
9.2	99.06	FOOT3				0.17 / 6	2.15	124																							
9.8	92.78	FOOT3				0.17 / 6	2.30	116																							
1380						7.9	175.46	FOOT3	0.17	1.80	145																				
						8.7	159.51	FOOT3	0.17	2.05	132																				
			10.4	132.81	FOOT3	0.17	2.35	110																							
			11.2	123.62	FOOT3	0.17	2.55	102																							
			13.9	99.06	FOOT3	0.17	3.25	82																							
			14.9	92.78	FOOT3	0.17	3.45	77																							
			17.0	81.21	FOOT3	0.17	3.95	67																							
			19.2	71.91	FOOT3	0.17	4.45	60																							
			22.5	61.47	FOOT3	0.17	4.95	51																							
			24.2	56.97	FOOT3	0.17	5.65	47																							
			27.0	51.19	FOOT3	0.17	6.00	42																							
			32.0	43.62	FOOT3	0.17	7.45	36																							
			35.0	39.34	FOOT3	0.17	8.15	33																							
			42.0	33.14	FOOT3	0.17	9.65	27																							
			46.0	29.78	FOOT3	0.17	10.90	25																							
			49.0	28.13	FOOT3	0.17	11.40	23																							
			55.0			25.08	FOOT3	0.17	12.75	21																					
						65.0	21.30	FOOT3	0.17	14.30																					18
			61.0			22.64	FOOT2	0.17	13.85	19																					
						75.0	18.29	FOOT2	0.17	17.30																					
91.0	15.13	FOOT2				0.17	20.70	13																							
95.0	14.46	FOOT2				0.17	18.20	12																							
108.0	12.73	FOOT2				0.17	23.45	11																							
115.0	11.96	FOOT2				0.17	21.15	10																							
127.0	10.84	FOOT2				0.17	25.75	9																							
137.0	10.06	FOOT2				0.17	23.45	8																							
148.0	9.32	FOOT2				0.17	28.80	8																							
161.0	8.57	FOOT2				0.17	25.75	7																							
187.0	7.36	FOOT2	0.17	28.80	6																										
0.18 0.25	1380	0.80	1713.27	F4TR	0.25	2.20	2090																								
			1.00	1345.11	F4TR	0.25	2.80											1641													
			1.30	1093.21	F4TR	0.25	3.45											1333													
			1.20	1185.35	F3TR	0.25	2.10											1446													
			1.50	930.63	F3TR	0.25	2.70											1135													
			1.80	0.25	1380	7.9	175.46											FOOT3	0.25	1.20	217										
						8.7	159.51											FOOT3	0.25	1.35	198										
						10.4	132.81											FOOT3	0.25	1.55	165										
						11.2	123.62											FOOT3	0.25	1.70	153										
						13.9	99.06											FOOT3	0.25	2.15	123										
						14.9	92.78											FOOT3	0.25	2.30	115										
						17.0	81.21											FOOT3	0.25	2.65	101										
						19.2	71.91											FOOT3	0.25	2.95	89										
						22.5	61.47											FOOT3	0.25	3.30	76										
						1.80	0.25											1380	7.9	175.46	FOOT3										0.25
8.7	159.51	FOOT3						0.25	1.35	198																					
10.4	132.81	FOOT3						0.25	1.55	165																					
11.2	123.62	FOOT3						0.25	1.70	153																					
13.9	99.06	FOOT3						0.25	2.15	123																					
14.9	92.78	FOOT3						0.25	2.30	115																					
17.0	81.21	FOOT3	0.25	2.65	101																										
19.2	71.91	FOOT3	0.25	2.95	89																										
22.5	61.47	FOOT3	0.25	3.30	76																										

Potencia Entrada		Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)	Potencia Entrada		Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)		
kW	HP							kW	HP								
			24.2	56.97	F00T3	0.25	3.75					4.9	139.66	F0T3	0.33 / 8	1.40	464
			27.0	51.19	F00T3	0.25	4.00					5.3	128.70	F0T3	0.33 / 8	1.55	427
			32.0	43.62	F00T3	0.25	4.95					6.0	113.03	F0T3	0.33 / 8	1.75	375
			35.0	39.34	F00T3	0.25	5.45					6.5	104.16	F0T3	0.33 / 8	1.90	346
			42.0	33.14	F00T3	0.25	6.45					6.7	101.02	F0T3	0.33 / 8	1.95	335
			46.0	29.78	F00T3	0.25	7.30					7.3	93.66	F0T3	0.33 / 8	2.10	311
			49.0	28.13	F00T3	0.25	7.60					7.9	86.31	F0T3	0.33 / 8	2.30	286
			55.0	25.08	F00T3	0.25	8.50										
			65.0	21.30	F00T3	0.25	9.55			880		4.9	178.59	F0T3	0.33 / 6	1.45	458
			61.0	22.64	F00T2	0.25	9.25					5.3	164.57	F0T3	0.33 / 6	1.60	422
			75.0	18.29	F00T2	0.25	11.55					6.3	139.66	F0T3	0.33 / 6	1.85	358
			91.0	15.13	F00T2	0.25	13.85					6.8	128.70	F0T3	0.33 / 6	2.05	330
			95.0	14.46	F00T2	0.25	12.15					7.8	113.03	F0T3	0.33 / 6	2.30	290
			108.0	12.73	F00T2	0.25	15.70			1380		7.7	178.59	F0T3	0.33	2.20	292
			115.0	11.96	F00T2	0.25	14.10					8.4	164.57	F0T3	0.33	2.40	269
			127.0	10.84	F00T2	0.25	17.20					9.9	139.66	F0T3	0.33	2.80	228
			137.0	10.06	F00T2	0.25	15.70					10.7	128.70	F0T3	0.33	3.10	210
			148.0	9.32	F00T2	0.25	19.25					12.2	113.03	F0T3	0.33	3.45	185
			161.0	8.57	F00T2	0.25	17.20					13.2	104.16	F0T3	0.33	3.80	170
			187.0	7.36	F00T2	0.25	19.25					13.7	101.02	F0T3	0.33	3.90	165
0.24	0.33	1380	0.80	1713.27	F4TR	0.33	1.65	2758				8.1	171.11	F00FR	0.33	1.05	275
			1.00	1345.11	F4TR	0.33	2.10	2165				9.4	146.69	F00FR	0.33	1.25	236
			1.30	1093.21	F4TR	0.33	2.60	1760									
			1.50	910.01	F4TR	0.33	3.10	1465	680			8.4	81.21	F00T3	0.33 / 8	1.00	270
			1.80	769.42	F4TR	0.33	3.70	1239				9.5	71.91	F00T3	0.33 / 8	1.10	239
			1.20	1185.35	F3TR	0.33	1.60	1908				8.9	99.06	F00T3	0.33 / 6	1.10	254
			1.50	930.63	F3TR	0.33	2.05	1498				9.5	92.78	F00T3	0.33 / 6	1.15	238
			1.80	756.35	F3TR	0.33	2.50	1218	1380			8.7	159.51	F00T3	0.33	1.05	261
			2.20	629.60	F3TR	0.33	3.00	1014				10.4	132.81	F00T3	0.33	1.20	217
			2.60	533.27	F3TR	0.33	3.55	859				11.2	123.62	F00T3	0.33	1.30	202
			2.90	482.12	F3TR	0.33	3.95	776				13.9	99.06	F00T3	0.33	1.65	162
		680	2.80	240.06	F3T3	0.33 / 8	4.00	797				14.9	92.78	F00T3	0.33	1.75	152
		1380	1.30	1059.15	F2FR	0.33	1.00	1705				17.0	81.21	F00T3	0.33	2.00	133
			1.70	825.67	F2FR	0.33	1.25	1329				19.2	71.91	F00T3	0.33	2.25	118
			2.10	665.92	F2FR	0.33	1.60	1072				22.5	61.47	F00T3	0.33	2.50	101
			2.50	549.74	F2FR	0.33	1.90	885				24.2	56.97	F00T3	0.33	2.85	93
			2.90	473.90	F2FR	0.33	2.20	763				27.0	51.19	F00T3	0.33	3.05	84
			3.50	392.07	F2FR	0.33	2.70	631				32.0	43.62	F00T3	0.33	3.75	71
			3.70	369.43	F2FR	0.33	2.85	595				35.0	39.34	F00T3	0.33	4.10	64
			4.10	336.12	F2FR	0.33	3.15	541				42.0	33.14	F00T3	0.33	4.90	54
			4.6	297.96	F2FR	0.33	3.55	480				46.0	29.78	F00T3	0.33	5.50	49
		680	3.7	186.07	F2T3	0.33 / 8	2.75	618				49.0	28.13	F00T3	0.33	5.75	46
			4.7	145.51	F2T3	0.33 / 8	3.50	483				55.0	25.08	F00T3	0.33	6.45	41
			5.4	126.75	F2T3	0.33 / 8	3.65	421				65.0	21.30	F00T3	0.33	7.25	35
		880	4.7	186.07	F2T3	0.33 / 6	3.65	477				61.0	22.64	F00T2	0.33	7.00	38
		1380	2.4	569.92	F1FR	0.33	1.05	918				75.0	18.29	F00T2	0.33	8.75	30
			2.9	468.49	F1FR	0.33	1.25	754				91.0	15.13	F00T2	0.33	10.50	25
			3.1	444.28	F1FR	0.33	1.35	715				95.0	14.46	F00T2	0.33	9.20	24
			3.5	398.05	F1FR	0.33	1.50	641				108.0	12.73	F00T2	0.33	11.90	21
			3.9	358.33	F1FR	0.33	1.65	577				115.0	11.96	F00T2	0.33	10.70	20
			4.7	295.81	F1FR	0.33	2.00	476				127.0	10.84	F00T2	0.33	13.05	18
			5.6	248.30	F1FR	0.33	2.40	400				137.0	10.06	F00T2	0.33	11.90	17
			6.5	210.97	F1FR	0.33	2.80	340				148.0	9.32	F00T2	0.33	14.60	15
			7.6	180.86	F1FR	0.33	3.25	291				161.0	8.57	F00T2	0.33	13.05	14
		680	3.6	188.91	F1T3	0.33 / 8	1.50	627	0.37	0.50	1405	0.80	1713.27	F4TR	0.50	1.10	4105
			4.0	172.14	F1T3	0.33 / 8	1.65	571				1.00	1345.11	F4TR	0.50	1.40	3223
			4.4	153.95	F1T3	0.33 / 8	1.75	511				1.30	1093.21	F4TR	0.50	1.70	2619
			4.8	140.28	F1T3	0.33 / 8	1.90	466				1.50	910.01	F4TR	0.50	2.05	2180
			5.1	134.41	F1T3	0.33 / 8	2.15	446				1.80	769.42	F4TR	0.50	2.45	1843
			6.3	108.60	F1T3	0.33 / 8	2.65	360				2.10	661.38	F4TR	0.50	2.80	1585
											2.90	490.95	F4TR	0.50	3.80	1176	
		880	4.7	188.91	F1T3	0.33 / 6	2.00	485			690	2.80	250.25	F4T3	0.50 / 8	3.75	1240
			5.1	172.14	F1T3	0.33 / 6	2.20	442			1405	1.20	1185.35	F3TR	0.50	1.05	2840
			5.7	153.95	F1T3	0.33 / 6	2.35	395				1.50	930.63	F3TR	0.50	1.35	2230
			6.3	140.28	F1T3	0.33 / 6	2.55	360				1.90	756.35	F3TR	0.50	1.65	1812
			6.5	134.41	F1T3	0.33 / 6	2.85	345				2.20	629.60	F3TR	0.50	2.00	1508
		1380	7.3	188.91	F1T3	0.33	3.05	309				2.60	533.27	F3TR	0.50	2.35	1278
			8.0	172.14	F1T3	0.33	3.35	282				2.90	482.12	F3TR	0.50	2.60	1155
			9.0	153.95	F1T3	0.33	3.50	252				3.10	457.59	F3TR	0.50	2.75	1096
			9.8	140.28	F1T3	0.33	3.80	229				3.60	391.83	F3TR	0.50	3.20	939
											4.30	326.17	F3TR	0.50	3.85	781	
			3.7	372.77	F0FR	0.33	1.05	600				2.90	240.06	F3T3	0.50 / 8	2.65	1190
			4.5	307.73	F0FR	0.33	1.30	495				4.00	173.14	F3T3	0.50 / 8	3.65	858
			5.3	258.31	F0FR	0.33	1.55	416									
			6.3	219.47	F0FR	0.33	1.80	353									
			7.3	188.15	F0FR	0.33	2.10	303									
		680	3.8	178.59	F0T3	0.33 / 8	1.10	593			1405	2.1	665.92	F2FR	0.50	1.05	1595
			4.1	164.57	F0T3	0.33 / 8	1.20	546				2.6	549.74	F2FR	0.50	1.2	

Potencia Entrada		Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Útil (Nm)									
kW	HP							Potencia Entrada kW	Velocidad Entrada HP	Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Útil (Nm)	
			3.6	392.07	F2FR	0.50	1.80				56.0	25.08	F00T3	0.50	4.25	61
			3.8	369.43	F2FR	0.50	1.90				66.0	21.30	F00T3	0.50	4.80	52
			4.2	336.12	F2FR	0.50	2.10									
			4.7	297.96	F2FR	0.50	2.35				62.0	22.64	F00T2	0.50	4.60	56
			5.7	245.97	F2FR	0.50	2.80				77.0	18.29	F00T2	0.50	5.80	45
			6.8	206.47	F2FR	0.50	3.40				93.0	15.13	F00T2	0.50	6.90	37
			8.0	175.42	F2FR	0.50	3.95				97.0	14.46	F00T2	0.50	6.10	36
											110.0	12.73	F00T2	0.50	7.85	31
		690	3.7	186.07	F2T3	0.50 / 8	1.80				117.0	11.96	F00T2	0.50	7.05	30
			4.7	145.51	F2T3	0.50 / 8	2.30				130.0	10.84	F00T2	0.50	8.60	27
			5.4	126.75	F2T3	0.50 / 8	2.40				140.0	10.06	F00T2	0.50	7.85	25
			5.9	117.76	F2T3	0.50 / 8	2.85				151.0	9.32	F00T2	0.50	9.60	23
			6.5	106.46	F2T3	0.50 / 8	3.15				164.0	8.57	F00T2	0.50	8.60	21
			7.1	97.58	F2T3	0.50 / 8	3.45				191.0	7.36	F00T2	0.50	9.60	18
		910	4.9	186.07	F2T3	0.50 / 6	2.40	0.55	0.75	1420	1.30	1086.83	F45HR	0.75	1.85	3865
			6.3	145.51	F2T3	0.50 / 6	3.10				1.70	849.52	F45HR	0.75	2.40	3021
			7.2	126.75	F2T3	0.50 / 6	3.20				2.10	687.15	F45HR	0.75	2.95	2443
			7.7	117.76	F2T3	0.50 / 6	3.80									
		1405	8.0	186.07	F2T3	0.50	3.60				1.10	1345.11	F4TR	0.75	0.95	4783
											1.30	1093.21	F4TR	0.75	1.15	3887
			3.5	398.05	F1FR	0.50	1.00				1.60	910.01	F4TR	0.75	1.35	3236
			3.9	358.33	F1FR	0.50	1.10				1.80	769.42	F4TR	0.75	1.65	2736
			4.7	295.81	F1FR	0.50	1.30				2.10	661.38	F4TR	0.75	1.90	2352
			5.7	248.30	F1FR	0.50	1.60				2.50	573.16	F4TR	0.75	2.15	2038
			6.7	210.97	F1FR	0.50	1.85				2.90	490.95	F4TR	0.75	2.55	1746
			7.8	180.86	F1FR	0.50	2.15				3.50	408.68	F4TR	0.75	3.05	1453
											4.10	346.15	F4TR	0.75	3.60	1231
		690	4.0	172.14	F1T3	0.50 / 8	1.10									
			4.9	140.28	F1T3	0.50 / 8	1.25			680	2.70	250.25	F4T3	0.75 / 8	2.50	1888
			5.1	134.41	F1T3	0.50 / 8	1.40				3.00	229.77	F4T3	0.75 / 8	2.75	1733
			6.4	108.60	F1T3	0.50 / 8	1.75				3.50	196.40	F4T3	0.75 / 8	3.20	1482
											3.80	180.32	F4T3	0.75 / 8	3.50	1360
											4.30	159.55	F4T3	0.75 / 8	3.90	1204
		910	4.8	188.91	F1T3	0.50 / 6	1.35									
			5.3	172.14	F1T3	0.50 / 6	1.45									
			5.9	153.95	F1T3	0.50 / 6	1.55			920	3.70	250.25	F4T3	0.75 / 6	3.35	1395
			6.5	140.28	F1T3	0.50 / 6	1.70				4.00	229.77	F4T3	0.75 / 6	3.65	1281
			6.8	134.41	F1T3	0.50 / 6	1.90									
		1405	7.4	188.91	F1T3	0.50	2.00			1420	1.9	756.35	F3TR	0.75	1.10	2689
			8.2	172.14	F1T3	0.50	2.20				2.3	629.60	F3TR	0.75	1.30	2239
			9.1	153.95	F1T3	0.50	2.30				2.7	533.27	F3TR	0.75	1.55	1896
			10.0	140.28	F1T3	0.50	2.50				2.9	482.12	F3TR	0.75	1.75	1714
			10.5	134.41	F1T3	0.50	2.80				3.1	457.59	F3TR	0.75	1.85	1627
			12.9	108.60	F1T3	0.50	3.50				3.6	391.83	F3TR	0.75	2.15	1393
			14.0	100.12	F1T3	0.50	3.80				4.4	326.17	F3TR	0.75	2.55	1160
											5.1	276.27	F3TR	0.75	3.05	982
											6.0	237.06	F3TR	0.75	3.50	843
			5.4	258.31	F0FR	0.50	1.00									
			6.4	219.47	F0FR	0.50	1.20			680	2.8	240.06	F3T3	0.75 / 8	1.75	1811
			7.5	188.15	F0FR	0.50	1.40				3.9	173.14	F3T3	0.75 / 8	2.45	1306
											4.9	139.23	F3T3	0.75 / 8	3.00	1050
		690	5.4	128.70	F0T3	0.50 / 8	1.00				5.0	134.90	F3T3	0.75 / 8	3.10	1018
			6.1	113.03	F0T3	0.50 / 8	1.15				5.5	122.84	F3T3	0.75 / 8	3.35	927
			6.6	104.16	F0T3	0.50 / 8	1.25				6.3	108.73	F3T3	0.75 / 8	3.85	820
			6.8	101.02	F0T3	0.50 / 8	1.30									
			7.4	93.66	F0T3	0.50 / 8	1.40			920	3.8	240.06	F3T3	0.75 / 6	2.35	1339
			8.0	86.31	F0T3	0.50 / 8	1.50				5.3	173.14	F3T3	0.75 / 6	3.25	965
		910	5.1	178.59	F0T3	0.50 / 6	0.95			1420	6.0	240.06	F3T3	0.75	3.55	867
			5.5	164.57	F0T3	0.50 / 6	1.05									
			6.5	139.66	F0T3	0.50 / 6	1.25				3.0	473.90	F2FR	0.75	0.95	1685
			7.1	128.70	F0T3	0.50 / 6	1.35				3.6	392.07	F2FR	0.75	1.20	1394
			8.1	113.03	F0T3	0.50 / 6	1.50				3.8	369.43	F2FR	0.75	1.25	1314
											4.2	336.12	F2FR	0.75	1.40	1195
		1405	7.9	178.59	F0T3	0.50	1.45				4.8	297.96	F2FR	0.75	1.55	1059
			8.5	164.57	F0T3	0.50	1.60				5.8	245.97	F2FR	0.75	1.90	875
			10.1	139.66	F0T3	0.50	1.85				6.9	206.47	F2FR	0.75	2.25	734
			10.9	128.70	F0T3	0.50	2.05				8.1	175.42	F2FR	0.75	2.65	624
			12.4	113.03	F0T3	0.50	2.30				9.4	150.39	F2FR	0.75	3.10	535
			13.5	104.16	F0T3	0.50	2.50									
			13.9	101.02	F0T3	0.50	2.55			680	3.7	186.07	F2T3	0.75 / 8	1.20	1404
			15.0	93.66	F0T3	0.50	2.75				4.7	145.51	F2T3	0.75 / 8	1.55	1098
			16.3	86.31	F0T3	0.50	3.05				5.4	126.75	F2T3	0.75 / 8	1.60	956
			17.8	78.94	F0T3	0.50	3.25				5.8	117.76	F2T3	0.75 / 8	1.90	888
			19.3	72.74	F0T3	0.50	3.60				6.4	106.46	F2T3	0.75 / 8	2.10	803
											7.0	97.58	F2T3	0.75 / 8	2.30	736
											8.2	83.25	F2T3	0.75 / 8	2.70	628
			14.2	99.06	F00T3	0.50	1.10									
			15.1	92.78	F00T3	0.50	1.15									
			17.3	81.21	F00T3	0.50	1.30			920	4.9	186.07	F2T3	0.75 / 6	1.60	1037
			19.5	71.91	F00T3	0.50	1.50				6.3	145.51	F2T3	0.75 / 6	2.05	811
			22.9	61.47	F00T3	0.50	1.65				7.3	126.75	F2T3	0.75 / 6	2.15	707
			24.7	56.97	F00T3	0.50	1.90				7.8	117.76	F2T3	0.75 / 6	2.55	657
			27.4	51.19	F00T3	0.50	2.00				8.6	106.46	F2T3	0.75 / 6	2.80	594
			32.0	43.62	F00T3	0.50	2.50				9.4	97.58	F2T3	0.75 / 6	3.10	544
			36.0	39.34	F00T3	0.50	2.70									
			42.0	33.14	F00T3	0.50	3.20			1420	8.0	186.07	F2T3	0.75	2.40	672
			47.0	29.78	F00T3	0.50	3.65				10.0	145.51	F2T3	0.75	3.10	526
			50.0	28.13	F00T3	0.50	3.80				11.0	126.75	F2T3	0.75	3.20	458









Potencia Entrada		Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)	Potencia Entrada		Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)		
KW	HP							KW	HP								
			86.0	16.02	FOT2	1.50	3.45					7.7	122.84	F3T3	2.00 /6	1.70	1788
			93.0	14.91	FOT2	1.50	3.55					8.6	108.73	F3T3	2.00 /6	1.95	1582
			101.0	13.74	FOT2	1.50	3.65					9.4	100.42	F3T3	2.00 /6	2.10	1461
			107.0	12.92	FOT2	1.50	3.85					9.8	95.70	F3T3	2.00 /6	2.15	1393
			116.0	11.91	FOT2	1.50	4.00					10.5	89.70	F3T3	2.00 /6	2.35	1305
			42.0	33.14	FOOT3	1.50	1.05	245		1400	6.0	240.06	F3T3	2.00	1.35	2346	
			47.0	29.78	FOOT3	1.50	1.20	221			8.0	173.14	F3T3	2.00	1.80	1692	
			49.0	28.13	FOOT3	1.50	1.25	208			10.0	139.23	F3T3	2.00	2.25	1360	
			55.0	25.08	FOOT3	1.50	1.40	186			10.0	134.90	F3T3	2.00	2.35	1318	
			65.0	21.30	FOOT3	1.50	1.60	158			11.0	122.84	F3T3	2.00	2.50	1200	
											13.0	108.73	F3T3	2.00	2.90	1062	
			61.0	22.64	FOOT2	1.50	1.55	170			14.0	100.42	F3T3	2.00	3.15	981	
			76.0	18.29	FOOT2	1.50	1.95	138			15.0	95.70	F3T3	2.00	3.25	935	
			92.0	15.13	FOOT2	1.50	2.30	114			16.0	89.70	F3T3	2.00	3.50	876	
			96.0	14.46	FOOT2	1.50	2.05	109									
			109.0	12.73	FOOT2	1.50	2.60	96			8.0	175.42	F2FR	2.00	1.00	1687	
			116.0	11.96	FOOT2	1.50	2.35	90			9.3	150.39	F2FR	2.00	1.15	1446	
			128.0	10.84	FOOT2	1.50	2.85	82									
			138.0	10.06	FOOT2	1.50	2.60	76		700	8.4	83.25	F2T3	2.00 /8	1.00	1627	
			149.0	9.32	FOOT2	1.50	3.20	70									
			162.0	8.57	FOOT2	1.50	2.85	64		940	8.0	117.76	F2T3	2.00 /6	0.95	1714	
			188.0	7.36	FOOT2	1.50	3.20	55			8.8	106.46	F2T3	2.00 /6	1.05	1549	
											9.6	97.58	F2T3	2.00 /6	1.15	1420	
1.50	2.00	1400	2.00	687.15	F45HR	2.00	1.10	6609		1400	10.0	145.51	F2T3	2.00	1.15	1422	
			2.50	569.06	F45HR	2.00	1.30	5473			11.0	126.75	F2T3	2.00	1.20	1238	
			3.30	430.76	F45HR	2.00	1.75	4143			12.0	117.76	F2T3	2.00	1.45	1151	
			4.20	336.70	F45HR	2.00	2.20	3238			13.0	106.46	F2T3	2.00	1.60	1040	
			5.10	272.35	F45HR	2.00	2.75	2619			14.0	97.58	F2T3	2.00	1.75	953	
			6.20	225.54	F45HR	2.00	3.30	2169			17.0	83.25	F2T3	2.00	2.05	813	
			7.40	189.97	F45HR	2.00	3.95	1827			20.0	70.19	F2T3	2.00	2.40	686	
		700	3.90	178.85	F45T3	2.00 /8	2.30	3495			21.0	67.38	F2T3	2.00	2.50	658	
			4.70	149.82	F45T3	2.00 /8	2.75	2928			23.0	60.47	F2T3	2.00	2.80	591	
			5.50	127.77	F45T3	2.00 /8	3.25	2497			25.0	55.83	F2T3	2.00	3.00	546	
			5.80	120.67	F45T3	2.00 /8	3.20	2358			30.0	47.05	F2T3	2.00	3.60	460	
			6.30	110.44	F45T3	2.00 /8	3.75	2158			31.0	45.90	F2T3	2.00	3.65	448	
			6.90	101.09	F45T3	2.00 /8	3.65	1975			15.3	91.23	F1T3	2.00	1.05	891	
		940	5.30	178.85	F45T3	2.00 /6	3.05	2603			18.5	75.56	F1T3	2.00	1.25	738	
			6.30	149.82	F45T3	2.00 /6	3.65	2180			19.7	71.24	F1T3	2.00	1.35	696	
		1400	2.90	490.95	F4TR	2.00	0.95	4722			21.8	64.35	F1T3	2.00	1.45	629	
			3.40	408.68	F4TR	2.00	1.15	3930			24.0	57.56	F1T3	2.00	1.65	562	
			4.00	346.15	F4TR	2.00	1.35	3329			27.0	52.44	F1T3	2.00	1.70	512	
			4.70	297.02	F4TR	2.00	1.60	2857			30.0	46.91	F1T3	2.00	2.00	458	
			5.40	257.40	F4TR	2.00	1.80	2476			35.0	40.05	F1T3	2.00	2.35	391	
		700	2.8	250.25	F4T3	2.00 /8	0.95	4890			36.0	38.80	F1T3	2.00	2.45	379	
			3.0	229.77	F4T3	2.00 /8	1.05	4490			43.0	32.64	F1T3	2.00	2.90	319	
			3.6	196.40	F4T3	2.00 /8	1.20	3838			50.0	27.80	F1T3	2.00	3.40	272	
			3.9	180.32	F4T3	2.00 /8	1.30	3524			59.0	23.89	F1T3	2.00	3.95	233	
			4.4	159.55	F4T3	2.00 /8	1.45	3118			55.0	25.39	F1T2	2.00	3.65	252	
			4.8	146.49	F4T3	2.00 /8	1.60	2863			22.0	63.93	FOT3	2.00	1.00	625	
			5.3	132.75	F4T3	2.00 /8	1.75	2594			24.0	58.04	FOT3	2.00	1.10	567	
			5.6	125.32	F4T3	2.00 /8	1.80	2449			26.0	52.98	FOT3	2.00	1.20	518	
			6.2	112.39	F4T3	2.00 /8	2.10	2196			29.0	48.82	FOT3	2.00	1.30	477	
			6.8	103.29	F4T3	2.00 /8	2.25	2019			31.0	44.65	FOT3	2.00	1.40	436	
		940	3.8	250.25	F4T3	2.00 /6	1.25	3642			34.0	41.15	FOT3	2.00	1.50	402	
			4.1	229.77	F4T3	2.00 /6	1.35	3344			40.0	35.12	FOT3	2.00	1.75	343	
			4.8	196.40	F4T3	2.00 /6	1.60	2858			43.0	32.83	FOT3	2.00	1.85	321	
			5.2	180.32	F4T3	2.00 /6	1.75	2624			46.0	30.25	FOT3	2.00	2.00	296	
			5.9	159.55	F4T3	2.00 /6	1.95	2322			53.0	26.66	FOT2	2.00	1.55	265	
			6.4	146.49	F4T3	2.00 /6	2.15	2132			57.0	24.65	FOT2	2.00	1.75	245	
		1400	5.6	250.25	F4T3	2.00	1.90	2445			68.0	20.52	FOT2	2.00	2.10	204	
			6.1	229.77	F4T3	2.00	2.05	2245			74.0	18.91	FOT2	2.00	2.25	188	
			7.1	196.40	F4T3	2.00	2.40	1919			81.0	17.38	FOT2	2.00	2.40	172	
			7.8	180.32	F4T3	2.00	2.60	1762			87.0	16.02	FOT2	2.00	2.60	159	
			8.8	159.55	F4T3	2.00	2.95	1559			94.0	14.91	FOT2	2.00	2.70	148	
			9.6	146.49	F4T3	2.00	3.20	1431			102.0	13.74	FOT2	2.00	2.75	136	
			11.0	132.75	F4T3	2.00	3.55	1297			108.0	12.92	FOT2	2.00	2.90	128	
			11.0	125.32	F4T3	2.00	3.60	1224			118.0	11.91	FOT2	2.00	3.00	118	
			4.3	326.17	F3TR	2.00	0.95	3137			136.0	10.29	FOT2	2.00	3.30	102	
			5.1	276.27	F3TR	2.00	1.15	2657			157.0	8.92	FOT2	2.00	3.65	89	
			5.9	237.06	F3TR	2.00	1.30	2280			50.0	28.13	F00T3	2.00	0.95	275	
			6.8	205.43	F3TR	2.00	1.55	1976			56.0	25.08	F00T3	2.00	1.05	245	
			8.6	163.17	F3TR	2.00	1.90	1569			66.0	21.30	F00T3	2.00	1.20	208	
		700	5.2	134.90	F3T3	2.00 /8	1.15	2636			62.0	22.64	F00T2	2.00	1.15	225	
			5.7	122.84	F3T3	2.00 /8	1.25	2400			77.0	18.29	F00T2	2.00	1.45	182	
			6.4	108.73	F3T3	2.00 /8	1.45	2125			93.0	15.13	F00T2	2.00	1.75	150	
			7.0	100.42	F3T3	2.00 /8	1.55	1962			97.0	14.46	F00T2	2.00	1.50	144	
			7.3	95.70	F3T3	2.00 /8	1.60	1870			110.0	12.73	F00T2	2.00	1.95	126	
											117.0	11.96	F00T2	2.00	1.75	119	
											129.0	10.84	F00T2	2.00	2.15	108	
											139.0	10.06	F00T2	2.00	1.95	100	
		940	5.4	173.14	F3T3	2.											

Potencia Entrada		Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)	Potencia Entrada		Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)								
kW	HP							kW	HP														
2.20	3.00	1415	190.0	7.36	F00T2	2.00	2.40	73	3.00	4.00	1405	43.0	32.64	F1T3	3.00	1.95	473						
			3.30	430.76	F45HR	3.00	1.15	6148				51.0	27.80	F1T3	3.00	2.25	403						
			4.20	336.70	F45HR	3.00	1.50	4806				59.0	23.89	F1T3	3.00	2.65	346						
			5.20	272.35	F45HR	3.00	1.85	3887				106.0	25.39	F1T2	3.00	2.45	374						
			6.30	225.54	F45HR	3.00	2.25	3219					67.0	21.14	F1T2	3.00	2.75	311					
			7.40	189.97	F45HR	3.00	2.65	2712					68.0	20.69	F1T2	3.00	2.80	305					
			8.70	162.02	F45HR	3.00	3.10	2313					79.0	17.90	F1T2	3.00	3.15	264					
			10.10	139.48	F45HR	3.00	3.60	1991					92.0	15.36	F1T2	3.00	3.65	226					
			940	1415	5.30	178.85	F45T3	3.00 /6					2.05	3904	97.0	14.59	F1T2	3.00	3.85	215			
					6.30	149.82	F45T3	3.00 /6					2.45	3270	106.0	13.31	F1T2	3.00	3.95	196			
7.40	127.77	F45T3			3.00 /6	2.85	2789	159.0	32.0	44.65	F0T3		3.00	0.95	647								
7.80	120.67	F45T3			3.00 /6	2.80	2634		34.0	41.15	F0T3		3.00	1.00	597								
8.50	110.44	F45T3			3.00 /6	3.35	2411		40.0	35.12	F0T3		3.00	1.15	509								
9.30	101.09	F45T3			3.00 /6	3.25	2207		43.0	32.83	F0T3	3.00	1.25	476									
9.70	96.46	F45T3			3.00 /6	3.80	2106		47.0	30.25	F0T3	3.00	1.35	439									
1415	1415	7.90			178.85	F45T3	3.00		3.05	2593	57.0	24.65	F0T2	3.00	1.15	363							
		9.40			149.82	F45T3	3.00		3.65	2173	69.0	20.52	F0T2	3.00	1.40	302							
		4.80			297.02	F4TR	3.00		1.05	4239	75.0	18.91	F0T2	3.00	1.50	279							
			257.40	F4TR	3.00	1.20	3674		81.0	17.38	F0T2	3.00	1.60	256									
		940	1415	4.80	196.40	F4T3	3.00 /6		1.05	4287	88.0	16.02	F0T2	3.00	1.75	236							
				5.2	180.32	F4T3	3.00 /6	1.15	3936	95.0	14.91	F0T2	3.00	1.80	220								
				5.9	159.55	F4T3	3.00 /6	1.30	3483	103.0	13.74	F0T2	3.00	1.80	202								
				6.4	146.49	F4T3	3.00 /6	1.45	3198	109.0	12.92	F0T2	3.00	1.90	190								
				1415	1415	5.7	250.25	F4T3	3.00	1.25	3629	119.0	11.91	F0T2	3.00	2.00	175						
						6.2	229.77	F4T3	3.00	1.35	3332	137.0	10.29	F0T2	3.00	2.20	152						
7.2	196.40					F4T3	3.00	1.60	2848	159.0	8.92	F0T2	3.00	2.45	131								
7.8	180.32					F4T3	3.00	1.75	2615	159.0	77.0	18.29	F00T2	3.00	0.95	269							
8.9	159.55					F4T3	3.00	1.95	2314		94.0	15.13	F00T2	3.00	1.15	223							
9.7	146.49					F4T3	3.00	2.15	2124		98.0	14.46	F00T2	3.00	1.00	213							
11.0	132.75	F4T3	3.00			2.35	1925	111.0	12.73		F00T2	3.00	1.30	187									
11.0	125.32	F4T3	3.00			2.40	1817	118.0	11.96		F00T2	3.00	1.20	176									
13.0	112.39	F4T3	3.00			2.80	1630	131.0	10.84		F00T2	3.00	1.45	160									
14.0	103.29	F4T3	3.00			3.05	1498	141.0	10.06		F00T2	3.00	1.30	148									
15.0	96.38	F4T3	3.00	3.30	1398	152.0	9.32	F00T2	3.00		1.60	137											
16.0	88.49	F4T3	3.00	3.55	1283	165.0	8.57	F00T2	3.00		1.45	126											
17.0	83.91	F4T3	3.00	3.75	1217	192.0	7.36	F00T2	3.00		1.60	108											
1415	1415	6.9	205.43	F3TR	3.00	1.00	2932	159.0	8.92	F0T2	3.00	2.45	131										
		8.7	163.17	F3TR	3.00	1.30	2329																
		940	1415	7.0	134.90	F3T3	3.00 /6							1.05	2945	77.0	18.29	F00T2	3.00	0.95	269		
				7.7	122.84	F3T3	3.00 /6							1.10	2681	94.0	15.13	F00T2	3.00	1.15	223		
				8.6	108.73	F3T3	3.00 /6							1.30	2373	98.0	14.46	F00T2	3.00	1.00	213		
				9.4	100.42	F3T3	3.00 /6							1.40	2192	111.0	12.73	F00T2	3.00	1.30	187		
				9.8	95.70	F3T3	3.00 /6							1.45	2089	118.0	11.96	F00T2	3.00	1.20	176		
				10.5	89.70	F3T3	3.00 /6							1.55	1958	131.0	10.84	F00T2	3.00	1.45	160		
				1415	1415	8.0	173.14							F3T3	3.00	1.20	2511	141.0	10.06	F00T2	3.00	1.30	148
						10.0	134.90							F3T3	3.00	1.55	1956	152.0	9.32	F00T2	3.00	1.60	137
12.0	122.84					F3T3	3.00	1.70	1781	165.0	8.57	F00T2	3.00	1.45	126								
13.0	108.73					F3T3	3.00	1.95	1577	192.0	7.36	F00T2	3.00	1.60	108								
14.0	100.42	F3T3	3.00			2.10	1456	159.0	77.0	18.29	F00T2	3.00	0.95	269									
15.0	95.70	F3T3	3.00			2.15	1388		94.0	15.13	F00T2	3.00	1.15	223									
16.0	89.70	F3T3	3.00			2.35	1301		98.0	14.46	F00T2	3.00	1.00	213									
18.0	78.24	F3T3	3.00			2.70	1135		111.0	12.73	F00T2	3.00	1.30	187									
20.0	71.25	F3T3	3.00			3.00	1033		118.0	11.96	F00T2	3.00	1.20	176									
22.0	63.06	F3T3	3.00			3.35	914		131.0	10.84	F00T2	3.00	1.45	160									
26.0	54.70	F3T3	3.00	3.85	793	141.0	10.06		F00T2	3.00	1.30	148											
1415	1415	12.0	117.76	F2T3	3.00	0.95	1708		152.0	9.32	F00T2	3.00	1.60	137									
		13.0	106.46	F2T3	3.00	1.05	1544		165.0	8.57	F00T2	3.00	1.45	126									
		15.0	97.58	F2T3	3.00	1.15	1415		192.0	7.36	F00T2	3.00	1.60	108									
		17.0	83.25	F2T3	3.00	1.35	1207	159.0	77.0	18.29	F00T2	3.00	0.95	269									
		20.0	70.19	F2T3	3.00	1.60	1018		94.0	15.13	F00T2	3.00	1.15	223									
		21.0	67.38	F2T3	3.00	1.65	977		98.0	14.46	F00T2	3.00	1.00	213									
		23.0	60.47	F2T3	3.00	1.85	877		111.0	12.73	F00T2	3.00	1.30	187									
		25.0	55.83	F2T3	3.00	2.00	810		118.0	11.96	F00T2	3.00	1.20	176									
		30.0	47.05	F2T3	3.00	2.40	682		131.0	10.84	F00T2	3.00	1.45	160									
		31.0	45.90	F2T3	3.00	2.45	666		141.0	10.06	F00T2	3.00	1.30	148									
35.0	40.16	F2T3	3.00	2.80	582	152.0	9.32		F00T2	3.00	1.60	137											
37.0	38.03	F2T3	3.00	2.95	551	165.0	8.57		F00T2	3.00	1.45	126											
41.0	34.60	F2T3	3.00	3.25	502	192.0	7.36		F00T2	3.00	1.60	108											
44.0	32.05	F2T3	3.00	3.30	465	159.0	77.0	18.29	F00T2	3.00	0.95	269											
52.0	27.36	F2T3	3.00	3.45	397		94.0	15.13	F00T2	3.00	1.15	223											
60.0	23.57	F2T3	3.00	3.95	342		98.0	14.46	F00T2	3.00	1.00	213											
1415	1415	61.0	23.29	F2T2	3.00		3.65	343	111.0	12.73	F00T2	3.00	1.30	187									
		22.0	64.35	F1T3	3.00		1.00	933	118.0	11.96	F00T2	3.00	1.20	176									
		25.0	57.56	F1T3	3.00		1.10	835	131.0	10.84	F00T2	3.00	1.45	160									
		27.0	52.44	F1T3	3.00		1.10	760	141.0	10.06	F00T2	3.00	1.30	148									
		30.0	46.91	F1T3	3.00		1.35	680	152.0	9.32	F00T2	3.00	1.60	137									
		35.0	40.05	F1T3	3.00		1.60	581	165.0	8.57	F00T2	3.00	1.45	126									
		36.0	38.80	F1T3	3.00		1.65	563	192.0	7.36	F00T2	3.00	1.60	108									
		1415	1415	22.0	64.35	F1T3	3.00	1.00	933	77.0	18.29	F00T2	3.00	0.95	269								
				25.0	57.56	F1T3	3.00	1.10	835	94.0	15.13	F00T2	3.00	1.15	223								
				27.0	52.44	F1T3	3.00	1.10	760	98.0	14.46	F00T2	3.00	1.00	213								
30.0	46.91			F1T3	3.00	1.35	680	111.0	12.73	F00T2	3.00	1.30	187										
35.0	40.05			F1T3	3.00	1.60	581	118.0	11.96	F00T2	3.00	1.20	176										
36.0	38.80			F1T3	3.00	1.65	563	131.0	10.84	F00T2	3.00	1.45	160										
1415	1415			22.0	64.35	F1T3	3.00	1.00	933	141.0	10.06	F00T2	3.00	1.30	148								
				25.0	57.56	F1T3	3.00	1.10	835	152.0	9.32	F00T2	3.00	1.60	137								
				27.0	52.44	F1T3	3.00	1.10	760	165.0	8.57	F00T2	3.00	1.45	126								
				30.0	46.91	F1T3	3.00	1.35	680	192.0	7.36	F00T2	3.00	1.60	108								
		35.0	40.05	F1T3	3.00	1.60	581	159.0	77.0	18.29	F00T2	3.00	0.95	269									
		36.0	38.80	F1T3	3.00	1.65	563		94.0	15.13	F00T2	3.00	1.15	223									
		1415	1415	22.0	64.35	F1T3	3.00		1.00	933	98.0	14.46	F00T2	3.00	1.00	213							
				25.0																			

Potencia Entrada		Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)	Potencia Entrada		Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)	
KW	HP							KW	HP							
			10.7	89.70	F3T3	4.00 /6	1.15 2556			1425	8.00	178.85	F45T3	5.50	1.65 4721	
		1405	10.0	134.90	F3T3	4.00	1.15 2627				9.50	149.82	F45T3	5.50	2.00 3955	
			11.0	122.84	F3T3	4.00	1.25 2392				11.20	127.77	F45T3	5.50	2.35 3373	
			13.0	108.73	F3T3	4.00	1.45 2117				11.80	120.67	F45T3	5.50	2.30 3186	
			14.0	100.42	F3T3	4.00	1.55 1955				12.90	110.44	F45T3	5.50	2.75 2915	
			15.0	95.70	F3T3	4.00	1.60 1864				14.10	101.09	F45T3	5.50	2.65 2669	
			16.0	89.70	F3T3	4.00	1.75 1747				14.80	96.46	F45T3	5.50	3.10 2546	
			18.0	78.24	F3T3	4.00	2.00 1524				16.8	84.95	F45T3	5.50	3.55 2243	
			20.0	71.25	F3T3	4.00	2.25 1387				7.9	180.32	F4T3	5.50	0.95 4760	
			22.0	63.06	F3T3	4.00	2.50 1228				8.9	159.55	F4T3	5.50	1.05 4212	
			26.0	54.70	F3T3	4.00	2.90 1065				9.7	146.49	F4T3	5.50	1.15 3867	
			27.0	52.02	F3T3	4.00	3.05 1013				11.0	132.75	F4T3	5.50	1.30 3505	
			31.0	45.31	F3T3	4.00	3.40 882				11.0	125.32	F4T3	5.50	1.30 3308	
			32.0	43.64	F3T3	4.00	3.60 850				13.0	112.39	F4T3	5.50	1.50 2967	
			36.0	38.81	F3T3	4.00	4.00 756				14.0	103.29	F4T3	5.50	1.65 2727	
											15.0	96.38	F4T3	5.50	1.80 2544	
			17.0	83.25	F2T3	4.00	1.00 1621				16.0	88.49	F4T3	5.50	1.95 2336	
			20.0	70.19	F2T3	4.00	1.20 1367				17.0	83.91	F4T3	5.50	2.05 2215	
			21.0	67.38	F2T3	4.00	1.25 1312				20.0	72.85	F4T3	5.50	2.35 1923	
			23.0	60.47	F2T3	4.00	1.40 1178				24.0	59.11	F4T3	5.50	2.90 1560	
			25.0	55.83	F2T3	4.00	1.50 1087				28.0	50.69	F4T3	5.50	3.40 1338	
			30.0	47.05	F2T3	4.00	1.80 916				31.0	46.49	F4T3	5.50	3.60 1227	
			31.0	45.90	F2T3	4.00	1.85 894									
			35.0	40.16	F2T3	4.00	2.10 782				13.0	108.73	F3T3	5.50	1.05 2870	
			37.0	38.03	F2T3	4.00	2.20 741				14.0	100.42	F3T3	5.50	1.15 2651	
			41.0	34.60	F2T3	4.00	2.45 674				15.0	95.70	F3T3	5.50	1.15 2526	
			44.0	32.05	F2T3	4.00	2.45 624				16.0	89.70	F3T3	5.50	1.30 2368	
			51.0	27.36	F2T3	4.00	2.60 533				18.0	78.24	F3T3	5.50	1.45 2065	
			60.0	23.57	F2T3	4.00	2.95 459				20.0	71.25	F3T3	5.50	1.65 1881	
											23.0	63.06	F3T3	5.50	1.80 1665	
			60.0	23.29	F2T2	4.00	2.75 461				26.0	54.70	F3T3	5.50	2.10 1444	
			70.0	20.07	F2T2	4.00	3.35 397				27.0	52.02	F3T3	5.50	2.20 1373	
			80.0	17.47	F2T2	4.00	3.75 346				31.0	45.31	F3T3	5.50	2.50 1196	
			86.0	16.38	F2T2	4.00	3.85 324				33.0	43.64	F3T3	5.50	2.65 1152	
											37.0	38.81	F3T3	5.50	2.90 1025	
			30.0	46.91	F1T3	4.00	1.00 913				38.0	37.04	F3T3	5.50	3.10 978	
			35.0	40.05	F1T3	4.00	1.20 780				45.0	31.73	F3T3	5.50	3.60 838	
			36.0	38.80	F1T3	4.00	1.20 756									
			43.0	32.64	F1T3	4.00	1.45 636				50.0	28.61	F3T2	5.50	3.45 767	
			51.0	27.80	F1T3	4.00	1.70 541									
			59.0	23.89	F1T3	4.00	2.00 465									
											24.0	60.47	F2T3	5.50	1.00 1596	
											26.0	55.83	F2T3	5.50	1.10 1474	
			55.0	25.39	F1T2	4.00	1.85 502				30.0	47.05	F2T3	5.50	1.30 1242	
			66.0	21.14	F1T2	4.00	2.10 418				31.0	45.90	F2T3	5.50	1.35 1212	
			68.0	20.69	F1T2	4.00	2.10 409				35.0	40.16	F2T3	5.50	1.55 1060	
			78.0	17.90	F1T2	4.00	2.35 354				37.0	38.03	F2T3	5.50	1.60 1004	
			91.0	15.36	F1T2	4.00	2.75 304				41.0	34.60	F2T3	5.50	1.75 913	
			96.0	14.59	F1T2	4.00	2.90 289				44.0	32.05	F2T3	5.50	1.80 846	
			106.0	13.31	F1T2	4.00	2.95 263				52.0	27.36	F2T3	5.50	1.85 722	
			112.0	12.52	F1T2	4.00	3.05 248				60.0	23.57	F2T3	5.50	2.15 622	
			130.0	10.85	F1T2	4.00	3.50 215									
											61.0	23.29	F2T2	5.50	2.00 624	
			43.0	32.83	F0T3	4.00	0.95 639				71.0	20.07	F2T2	5.50	2.45 538	
			46.0	30.25	F0T3	4.00	1.00 589				82.0	17.47	F2T2	5.50	2.75 468	
											87.0	16.38	F2T2	5.50	2.80 439	
			68.0	20.52	F0T2	4.00	1.05 406				102.0	13.93	F2T2	5.50	3.15 374	
			74.0	18.91	F0T2	4.00	1.15 374				119.0	12.01	F2T2	5.50	3.50 322	
			81.0	17.38	F0T2	4.00	1.20 344				136.0	10.45	F2T2	5.50	4.00 280	
			88.0	16.02	F0T2	4.00	1.30 317									
			94.0	14.91	F0T2	4.00	1.35 295				44.0	32.64	F1T3	5.50	1.05 862	
			102.0	13.74	F0T2	4.00	1.35 272				51.0	27.80	F1T3	5.50	1.25 734	
			109.0	12.92	F0T2	4.00	1.45 256				60.0	23.89	F1T3	5.50	1.45 631	
			118.0	11.91	F0T2	4.00	1.50 236									
			136.0	10.29	F0T2	4.00	1.65 204				56.0	25.39	F1T2	5.50	1.35 681	
			158.0	8.92	F0T2	4.00	1.85 176				67.0	21.14	F1T2	5.50	1.50 567	
											69.0	20.69	F1T2	5.50	1.50 555	
			110.0	12.73	F00T2	4.00	1.00 252				80.0	17.90	F1T2	5.50	1.70 480	
			130.0	10.84	F00T2	4.00	1.10 214				93.0	15.36	F1T2	5.50	2.00 412	
			140.0	10.06	F00T2	4.00	1.00 199				98.0	14.59	F1T2	5.50	2.10 391	
			151.0	9.32	F00T2	4.00	1.20 184				107.0	13.31	F1T2	5.50	2.15 357	
			164.0	8.57	F00T2	4.00	1.10 169				114.0	12.52	F1T2	5.50	2.20 336	
			191.0	7.36	F00T2	4.00	1.20 146				131.0	10.85	F1T2	5.50	2.55 291	
											89.0	16.02	F0T2	5.50	0.95 429	
4.00	5.50	1425	5.20	272.35	F45HR	5.50	1.00 7077				96.0	14.91	F0T2	5.50	0.95 400	
			6.30	225.54	F45HR	5.50	1.25 5860				104.0	13.74	F0T2	5.50	1.00 368	
			7.50	189.97	F45HR	5.50	1.45 4936				110.0	12.92	F0T2	5.50	1.05 347	
			8.80	162.02	F45HR	5.50	1.70 4210				120.0	11.91	F0T2	5.50	1.10 319	
			10.20	139.48	F45HR	5.50	2.00 3624				138.0	10.29	F0T2	5.50	1.20 276	
			11.80	120.92	F45HR	5.50	2.30 3142				160.0	8.92	F0T2	5.50	1.35 239	
			970	5.40	178.85	F45T3	5.50 /6	1.10 6936								
				6.50	149.82	F45T3	5.50 /6	1.35 5810	5.50	7.50	1470	6.50	225.54	F45HR	7.50	0.95 7747
				7.60	127.77	F45T3	5.50 /6	1.55 4955				7.70	189.97	F45HR	7.50	1.10 6525
				8.00	120.67	F45T3	5.50 /6	1.55 4680				9.10	162.02	F45HR	7.50	1.30 5565
				8.80	110.44	F45T3	5.50 /6	1.80 4283								

Potencia Entrada	Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)	Potencia Entrada kW	Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)		
		7.60	127.77	F45T3	7.50 /6	1.15			11.40	84.95	F45T3	10.00 /6	1.30	6021	
		8.00	120.67	F45T3	7.50 /6	1.15		1470	9.80	149.82	F45T3	10.00	1.10	6971	
		8.80	110.44	F45T3	7.50 /6	1.35			11.50	127.77	F45T3	10.00	1.30	5945	
		9.60	101.09	F45T3	7.50 /6	1.30			12.20	120.67	F45T3	10.00	1.25	5615	
		10.10	96.46	F45T3	7.50 /6	1.50			13.30	110.44	F45T3	10.00	1.50	5139	
		11.40	84.95	F45T3	7.50 /6	1.75			14.50	101.09	F45T3	10.00	1.45	4703	
	1470	8.20	178.85	F45T3	7.50	1.25			15.20	96.46	F45T3	10.00	1.70	4488	
		9.80	149.82	F45T3	7.50	1.45			17.30	84.95	F45T3	10.00	1.95	3953	
		11.50	127.77	F45T3	7.50	1.70			21.00	70.88	F45T3	10.00	2.35	3298	
		12.20	120.67	F45T3	7.50	1.70			24.00	60.45	F45T3	10.00	2.75	2813	
		13.30	110.44	F45T3	7.50	2.00			26.00	57.32	F45T3	10.00	2.25	2667	
		14.50	101.09	F45T3	7.50	1.95			28.00	52.25	F45T3	10.00	3.15	2431	
		15.20	96.46	F45T3	7.50	2.30			32.00	45.64	F45T3	10.00	3.60	2123	
		17.30	84.95	F45T3	7.50	2.60			42.00	35.25	F45T3	10.00	3.60	1640	
		21.00	70.88	F45T3	7.50	3.10			48.00	30.79	F45T3	10.00	4.00	1433	
		24.0	60.45	F45T3	7.50	3.65									
		26.0	57.32	F45T3	7.50	3.05									
		11.0	132.75	F4T3	7.50	0.95			15.0	96.38	F4T3	10.00	1.00	4485	
		12.0	125.32	F4T3	7.50	0.95			17.0	88.49	F4T3	10.00	1.05	4117	
		13.0	112.39	F4T3	7.50	1.10			18.0	83.91	F4T3	10.00	1.10	3904	
		14.0	103.29	F4T3	7.50	1.20			20.0	72.85	F4T3	10.00	1.30	3390	
		15.0	96.38	F4T3	7.50	1.30			25.0	59.11	F4T3	10.00	1.60	2750	
		17.0	88.49	F4T3	7.50	1.45			29.0	50.69	F4T3	10.00	1.85	2359	
		18.0	83.91	F4T3	7.50	1.50			32.0	46.49	F4T3	10.00	1.95	2163	
		20.0	72.85	F4T3	7.50	1.75			36.0	40.31	F4T3	10.00	2.35	1876	
		25.0	59.11	F4T3	7.50	2.15			42.0	35.18	F4T3	10.00	2.70	1637	
		29.0	50.69	F4T3	7.50	2.50			45.0	32.35	F4T3	10.00	2.85	1505	
		32.0	46.49	F4T3	7.50	2.65			52.0	28.01	F4T3	10.00	3.25	1303	
		36.0	40.31	F4T3	7.50	3.10									
		42.0	35.18	F4T3	7.50	3.55			57.0	26.00	F4T2	10.00	2.90	1229	
		45.0	32.35	F4T3	7.50	3.75			66.0	22.13	F4T2	10.00	3.35	1046	
									77.0	19.08	F4T2	10.00	3.85	902	
		57.0	26.00	F4T2	7.50	3.85									
		16.0	89.70	F3T3	7.50	0.95			23.0	63.06	F3T3	10.00	1.00	2934	
		19.0	78.24	F3T3	7.50	1.05			27.0	54.70	F3T3	10.00	1.15	2545	
		21.0	71.25	F3T3	7.50	1.20			28.0	52.02	F3T3	10.00	1.20	2421	
		23.0	63.06	F3T3	7.50	1.35			32.0	45.31	F3T3	10.00	1.35	2108	
		27.0	54.70	F3T3	7.50	1.55			34.0	43.64	F3T3	10.00	1.45	2030	
		28.0	52.02	F3T3	7.50	1.60			38.0	38.81	F3T3	10.00	1.60	1806	
		32.0	45.31	F3T3	7.50	1.80			40.0	37.04	F3T3	10.00	1.70	1724	
		34.0	43.64	F3T3	7.50	1.95			46.0	31.73	F3T3	10.00	2.00	1476	
		38.0	38.81	F3T3	7.50	2.10			56.0	26.28	F3T3	10.00	2.50	1223	
		40.0	37.04	F3T3	7.50	2.25			65.0	22.51	F3T3	10.00	2.80	1047	
		46.0	31.73	F3T3	7.50	2.65									
		56.0	26.28	F3T3	7.50	3.30			51.0	28.61	F3T2	10.00	1.90	1352	
		65.0	22.51	F3T3	7.50	3.70			57.0	25.64	F3T2	10.00	2.30	1212	
									69.0	21.30	F3T2	10.00	2.75	1007	
		51.0	28.61	F3T2	7.50	2.55			82.0	18.01	F3T2	10.00	3.10	851	
		57.0	25.64	F3T2	7.50	3.05			95.0	15.42	F3T2	10.00	3.50	729	
		69.0	21.30	F3T2	7.50	3.65			110.0	13.33	F3T2	10.00	3.95	630	
									127.0	11.61	F3T2	10.00	4.00	549	
		31.0	47.05	F2T3	7.50	0.95									
		32.0	45.90	F2T3	7.50	0.95			42.0	34.60	F2T3	10.00	0.95	1610	
		37.0	40.16	F2T3	7.50	1.10			46.0	32.05	F2T3	10.00	1.00	1491	
		39.0	38.03	F2T3	7.50	1.20			54.0	27.36	F2T3	10.00	1.05	1273	
		42.0	34.60	F2T3	7.50	1.30			62.0	23.57	F2T3	10.00	1.20	1097	
		46.0	32.05	F2T3	7.50	1.30									
		54.0	27.36	F2T3	7.50	1.35			63.0	23.29	F2T2	10.00	1.10	1100	
		62.0	23.57	F2T3	7.50	1.55			73.0	20.07	F2T2	10.00	1.35	948	
									84.0	17.47	F2T2	10.00	1.50	826	
		63.0	23.29	F2T2	7.50	1.45			90.0	16.38	F2T2	10.00	1.55	774	
		73.0	20.07	F2T2	7.50	1.80			106.0	13.93	F2T2	10.00	1.75	658	
		84.0	17.47	F2T2	7.50	2.00			122.0	12.01	F2T2	10.00	1.90	567	
		90.0	16.38	F2T2	7.50	2.05			141.0	10.45	F2T2	10.00	2.20	494	
		106.0	13.93	F2T2	7.50	2.30									
		122.0	12.01	F2T2	7.50	2.55			82.0	17.90	F1T2	10.00	0.95	846	
		141.0	10.45	F2T2	7.50	2.95			96.0	15.36	F1T2	10.00	1.10	726	
									101.0	14.59	F1T2	10.00	1.15	689	
		62.0	23.89	F1T3	7.50	1.05			110.0	13.31	F1T2	10.00	1.20	629	
									117.0	12.52	F1T2	10.00	1.20	592	
									135.0	10.85	F1T2	10.00	1.40	513	
		58.0	25.39	F1T2	7.50	1.00									
		70.0	21.14	F1T2	7.50	1.10			9.00	12.50	F45HR	12.50	1.05	6970	
		71.0	20.69	F1T2	7.50	1.10			970	11.40	84.95	F45T3	12.50 /6	1.05	7488
		82.0	17.90	F1T2	7.50	1.25									
		96.0	15.36	F1T2	7.50	1.45			1460	11.40	127.77	F45T3	12.50	1.05	7482
		101.0	14.59	F1T2	7.50	1.55				12.10	120.67	F45T3	12.50	1.00	7066
		110.0	13.31	F1T2	7.50	1.55				13.20	110.44	F45T3	12.50	1.20	6467
		117.0	12.52	F1T2	7.50	1.65				14.40	101.09	F45T3	12.50	1.15	5920
		135.0	10.85	F1T2	7.50	1.85				15.10	96.46	F45T3	12.50	1.35	5649
									17.20	84.95	F45T3	12.50	1.55	4975	
									21.00	70.88	F45T3	12.50	1.85	4151	
									24.00	60.45	F45T3	12.50	2.20	3540	
									25.00	57.32	F45T3	12.50	1.80	3356	
									28.00	52.25	F45T3	12.50	2.55	3060	
									32.00	45.64	F45T3	12.50	2.90	2673	
									36.00	40.19	F45T3	12.50	3.30	2354	
									41.00	35.25	F45T3	12.50	2.85	2064	
									47.00	30.79	F45T3	12.50	3.20	1803	
									54.00	27.12	F45T3	12.50	3.55	1588	
7.50	10.00	1470	9.10	162.02	F45HR	10.00	0.95	7420							
			10.50	139.48	F45HR	10.00	1.15	6388							



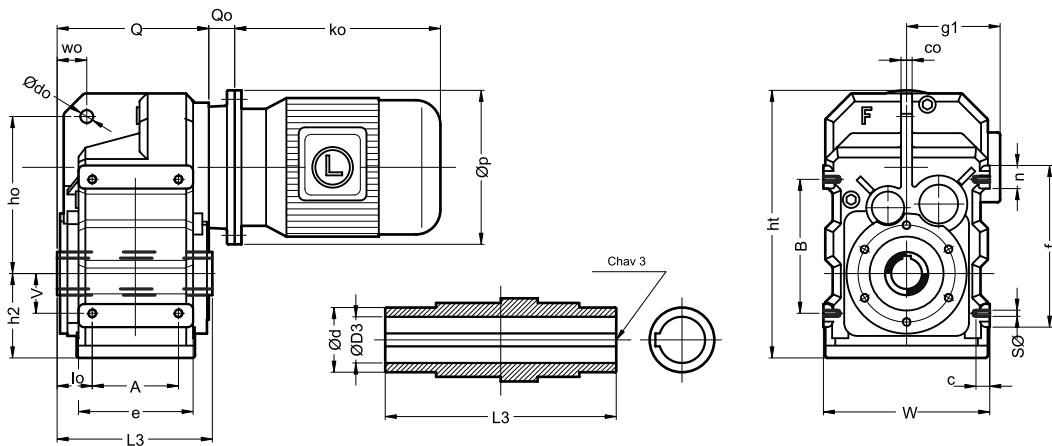




Potencia Entrada		Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)	Potencia Entrada		Velocidad Entrada aprox. (RPM)	Velocidad Salida aprox. (RPM)	Relación (i)	MODELO	Factor de Seguridad (fz)	Momento Util (Nm)
kW	HP							kW	HP						
			114.0	12.78	F3T2	25.00	1.60	1520							
			126.0	11.61	F3T2	25.00	1.75	1381							
			133.0	10.94	F3T2	25.00	1.85	1301							
			154.0	9.46	F3T2	25.00	2.00	1125							
			177.0	8.24	F3T2	25.00	2.10	980							
22.00	30.00	1470	28.00	52.25	F45T3	30.00	1.05	7293							
			32.00	45.64	F45T3	30.00	1.20	6370							
			37.00	40.19	F45T3	30.00	1.35	5610							
			42.00	35.25	F45T3	30.00	1.20	4921							
			48.00	30.79	F45T3	30.00	1.35	4298							
			54.00	27.12	F45T3	30.00	1.45	3785							
			72.00	20.31	F45T2	30.00	2.55	2879							
			88.00	16.74	F45T2	30.00	3.10	2374							
			105.00	14.03	F45T2	30.00	3.55	1989							
			124.00	11.90	F45T2	30.00	4.00	1687							
			155.00	9.47	F45T2	30.00	3.55	1342							
			183.00	8.03	F45T2	30.00	4.00	1138							
			45.00	32.35	F4T3	30.00	0.95	4515							
			52.00	28.01	F4T3	30.00	1.10	3910							
			66.00	22.13	F4T2	30.00	1.10	3137							
			77.00	19.08	F4T2	30.00	1.30	2705							
			88.00	16.63	F4T2	30.00	1.45	2357							
			96.00	15.38	F4T2	30.00	1.55	2180							
			101.00	14.61	F4T2	30.00	1.55	2071							
			111.00	13.26	F4T2	30.00	1.75	1880							
			127.0	11.56	F4T2	30.00	1.95	1638							
			145.0	10.15	F4T2	30.00	2.10	1439							
			65.0	22.51	F3T3	30.00	0.95	3142							
			82.0	18.01	F3T2	30.00	1.05	2553							
			95.0	15.42	F3T2	30.00	1.15	2186							
			110.0	13.33	F3T2	30.00	1.30	1890							
			115.0	12.78	F3T2	30.00	1.35	1812							
			127.0	11.61	F3T2	30.00	1.45	1646							
			134.0	10.94	F3T2	30.00	1.55	1551							
			155.0	9.46	F3T2	30.00	1.65	1341							
			179.0	8.24	F3T2	30.00	1.75	1168							
30.00	40.00	1470	72.00	20.31	F45T2	40.00	1.90	3839							
			88.00	16.74	F45T2	40.00	2.30	3165							
			105.00	14.03	F45T2	40.00	2.65	2652							
			124.00	11.90	F45T2	40.00	3.00	2250							
			144.00	10.18	F45T2	40.00	3.35	1925							
			155.00	9.47	F45T2	40.00	2.65	1790							
			183.00	8.03	F45T2	40.00	3.00	1518							
			214.00	6.87	F45T2	40.00	3.35	1299							
37.00	50.00	1460	87.00	16.74	F45T2	50.00	1.85	3983							
			104.00	14.03	F45T2	50.00	2.10	3338							
			123.00	11.90	F45T2	50.00	2.40	2831							
			143.00	10.18	F45T2	50.00	2.65	2423							
			154.00	9.47	F45T2	50.00	2.10	2252							
			182.00	8.03	F45T2	50.00	2.40	1910							
			212.00	6.87	F45T2	50.00	2.65	1635							
45.00	60.00	1480	88.00	16.74	F45T2	60.00	1.55	4715							
			105.00	14.03	F45T2	60.00	1.75	3952							
			124.00	11.90	F45T2	60.00	2.00	3352							
			145.00	10.18	F45T2	60.00	2.20	2868							
			156.00	9.47	F45T2	60.00	1.75	2666							
			184.00	8.03	F45T2	60.00	2.00	2262							
			215.00	6.87	F45T2	60.00	2.20	1935							

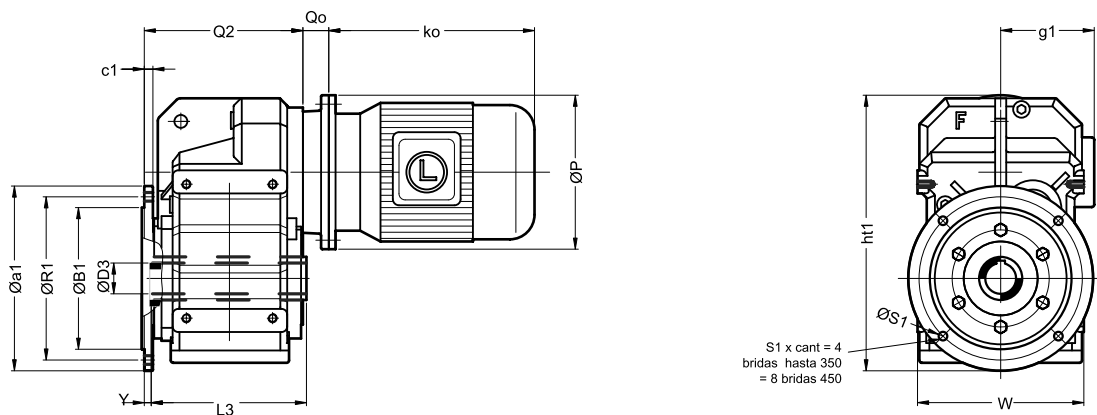
**TABLA DE MEDIDAS - SERIE "F-HU" (CON EJE DE SALIDA HUECO)**

**OVERALL DIMENSIONS - TYPE "F-HU" (WITH OUTPUT HOLLOW SHAFT)**



Modelo Model	D3Ø	L3	chav 3 keyway 3	A	B	SØ	V	lo	Q	Q0					Q2	W	B1Ø	R1Ø	
										EC71	EC80-90	EC100-112	EC132	EC160-180					
F00T	mm	30	135	8x7	77	115	M8	31	25.5	134	20	35	42	---	---	148	165	130	165
	inch	1.188	5 5/16	1/4 x 1/8	3 1/16	4 1/2	UNC 5/16"	1 1/4	1	5 1/4	25/32	1 3/8	1 21/32	---	---	5 13/16	6.496	5.118	6 1/2
F0T	mm	35	175	10x8	93	145	M10	43	43	169	20	35	42	---	---	176	180	180	215
	inch	1.375	6 7/8	5/16 x 5/32	3 11/16	5 11/16	UNC 3/8"	1 11/16	1 11/16	6 5/8	25/32	1 3/8	1 21/32	---	---	6 15/16	7.087	7.087	8 15/32
F1T	mm	40	200	12x8	112	190	M12	60	41.5	194	20	35	42	64	---	206	212	230	265
	inch	1.625	7 7/8	3/8 x 3/16	4 7/16	7 1/2	UNC 1/2"	2 3/8	1 5/8	7 5/8	25/32	1 3/8	1 21/32	2 17/32	---	8 1/8	8.346	9.055	10 7/16
F2T	mm	50	225	14x9	140	240	M16	70	40.5	220	20	35	42	64	---	236	270	250	300
	inch	2.000	8 7/8	1/2 x 1/4	5 1/2	9 7/16	UNC 5/8"	2 3/4	1 5/8	8 11/16	25/32	1 3/8	1 21/32	2 17/32	---	9 5/16	10.630	9.843	11 13/16
F3T	mm	60	265	18x11	165	310	M16	100	50.5	253	---	32	32	52	82	264	330	350	400
	inch	2.375	10 7/16	5/8 x 5/16	6 1/2	12 3/16	UNC 5/8"	3 15/16	2	9 15/16	---	1 1/4	1 1/4	2 1/16	3 7/32	10 3/8	12.992	13.780	15 3/4
F4T	mm	70	330	20x12	205	350	M20	120	59.5	312	---	32	32	52	82	330	400	350	400
	inch	2.750	13	5/8 x 5/16	8 1/16	13 13/16	UNC 3/4"	4 3/4	2 5/16	12 5/16	---	1 1/4	1 1/4	2 1/16	3 7/32	13	15.748	13.780	15 3/4
F45T	mm	90	390	25 x 14	220	400	M24	125	85	372	---	---	45	45	75	398	450	350	400
	inch	3.625	15 3/8	7/8 x 7/16	8 21/32	15 3/4	UNC 1"	4 15/16	3 3/8	14 5/8	---	---	1 3/4	1 3/4	2 31/32	15 11/16	17.717	13.780	15 3/4

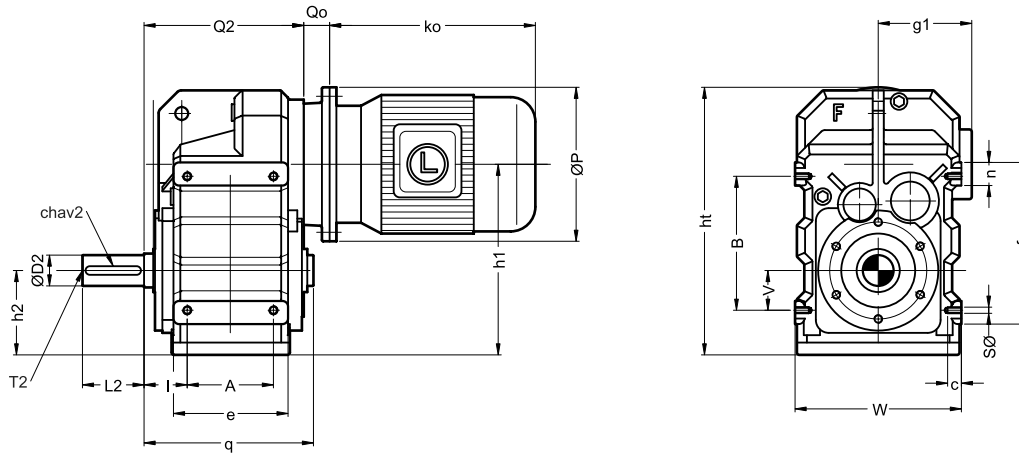
Modelo Model	a1Ø	S1Ø	c1	Y	c	co	d0Ø	dØ	e	f	ho	h2	ht	ht1	n	wo	Peso kg Weight lb	aceite lts oil fl.oz	
																			F00T
F0T	mm	250	14	14	7.5	14	12	14	50	124	175	170	96	291	320	25	32	25	1.8
	inch	9 7/8	9/16	9/16	5/16	9/16	1/2	9/16	2	4 7/8	6 7/8	6 11/16	3 3/4	11 7/16	12 5/8	1	1 1/4	55	62
F1T	mm	300	14	16	12	17	16	14	60	138	215	218	102	343	391	25	44	36	2.5
	inch	11 7/8	9/16	5/8	1/2	11/16	5/8	9/16	2 3/8	5 7/16	8 7/16	8 9/16	4	13 1/2	15 3/8	1	1 3/4	79	86
F2T	mm	350	18	16	16	26	20	22	70	172	278	278	131	430	474	38	53	55	6
	inch	13 13/16	11/16	5/8	5/8	1 3/4	7/8	2 3/4	6 3/4	10 15/16	10 15/16	5 3/16	16 15/16	18 11/16	1 1/2	2 1/16	121	207	
F3T	mm	450	18	18	11	26	26	22	85	195	350	346	163	535	597	50	70	95	9
	inch	17 3/4	11/16	11/16	7/16	1	1	7/8	3 3/8	7 11/16	13 3/4	13 5/8	6 7/16	21 1/16	23 1/2	1 15/16	2 3/4	209	310
F4T	mm	450	18	18	18	28	30	26	95	245	400	395	198	630	657	50	79	155	15.0
	inch	17 3/4	11/16	11/16	11/16	1 1/8	1 1/4	1	3 3/4	9 5/8	15 3/4	15 9/16	7 13/16	24 13/16	25 7/8	1 15/16	3 1/8	342	517
F45T	mm	450	18	22	26	36	36	26	140	270	460	485	213	730	742	60	103.5	225	22.0
	inch	17 3/4	11/16	7/8	1	1 7/16	1 7/16	1	5 1/2	10 5/8	18 1/8	19 1/8	8 3/8	28 3/4	29 1/4	2 3/8	4 1/16	496	759



NOTA 1: Las dimensiones son aproximadas pudiendo modificarse sin previo aviso.  
 NOTE 1: Dimensions are for reference only, unless certified.  
 NOTA 2: Las capacidades de lubricante son para posición B3.  
 NOTE 2: Oil capacity valid only for mounting position B3.

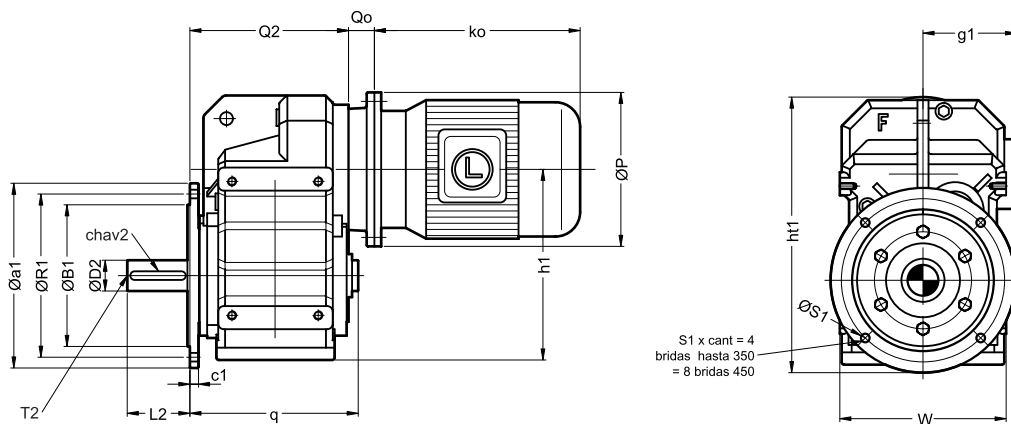
NOTA 3: Para dimensiones ko, P y g1 ver pag. 32 ó catálogo de motores (I.E.C.).  
 NOTE 3: To determinate ko, P and g1 see page 32, or electrical motors catalogue (I.E.C.).  
 NOTA 4: Los pesos no incluyen peso del motor.  
 NOTE 4: Motor weight is not included.

**TABLA DE MEDIDAS - SERIE "F" (CON EJE DE SALIDA MACIZO)**  
**OVERALL DIMENSIONS - TYPE "F" (WITH OUTPUT SOLID SHAFT)**



Modelo Model	D2 $\varnothing$	L2	chav 2 keyway 2	T2	A	B	S $\varnothing$	V	I	Q2	Q0				W		
											IEC 71	IEC 80-90/IEC 100-112	IEC 132	IEC 160-180			
F00T	mm	25	50	8x7	M10	77	115	M8	31	39.5	148	20	35	42	----	----	165
	inch	1.000	2	1/4 x 1/8	UNC 3/8"	3 1/16	4 1/2	UNC 5/16"	1 1/4	1 1/2	5 13/16	25/32	1 3/8	1 21/32	----	----	6.496
F0T	mm	30	60	8x7	M10	93	145	M10	43	50.5	176	20	35	42	----	----	180
	inch	1.188	2 3/8	1/4 x 1/8	UNC 3/8"	3 11/16	5 11/16	UNC 3/8"	1 11/16	2	6 15/16	25/32	1 3/8	1 21/32	----	----	7.087
F1T	mm	40	80	12x8	M16	112	190	M12	60	53.5	206	20	35	42	64	----	212
	inch	1.625	3 1/8	3/8 x 3/16	UNC 5/8"	4 7/16	7 1/2	UNC 1/2"	2 3/8	2 1/8	8 1/8	25/32	1 3/8	1 21/32	2 17/32	----	8.346
F2T	mm	50	100	14x9	M16	140	240	M16	70	56.5	236	20	35	42	64	----	270
	inch	2.000	4	1/2 x 1/4	UNC 5/8"	5 1/2	9 7/16	UNC 5/8"	2 3/4	2 1/4	9 5/16	25/32	1 3/8	1 21/32	2 17/32	----	10.630
F3T	mm	60	120	18x11	M20	165	310	M16	100	62	264	----	32	32	52	82	330
	inch	2.375	4 3/4	5/8 x 5/16	UNC 3/4"	6 1/2	12 3/16	UNC 5/8"	3 15/16	2 7/16	10 3/8	----	1 1/4	1 1/4	2 1/16	3 7/32	12.992
F4T	mm	70	140	20x12	M20	205	350	M20	120	77.5	330	----	32	32	52	82	400
	inch	2.750	5 1/2	5/8 x 5/16	UNC 3/4"	8 1/16	13 13/16	UNC 3/4"	4 3/4	3	13	----	1 1/4	1 1/4	2 1/16	3 7/32	15.748
F45T	mm	90	170	25 x 14	M24	220	400	M24	125	111	398	----	----	45	45	75	450
	inch	3.500	6 3/4	7/8 x 7/16	UNC 1"	8 21/32	15 3/4	UNC 1"	4 15/16	4 3/8	15 11/16	----	----	1 3/4	1 3/4	2 31/32	17.717

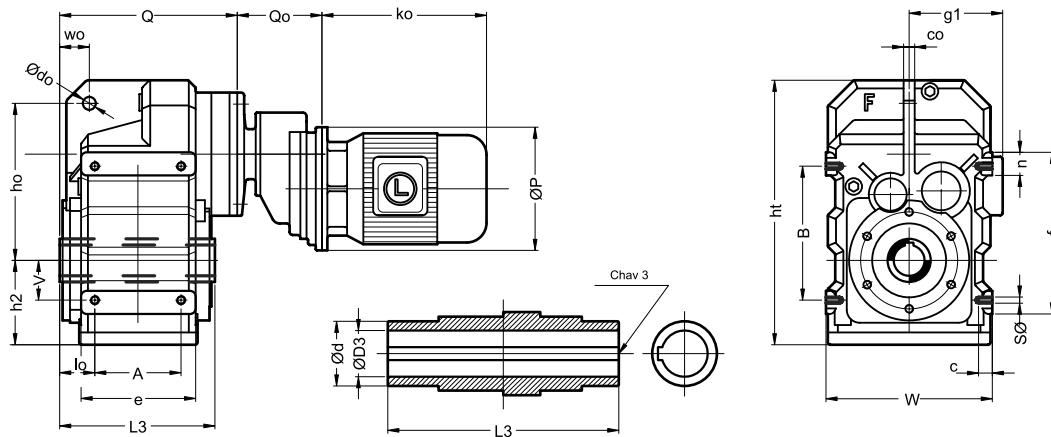
Modelo Model	B1 $\varnothing$	R1 $\varnothing$	a1 $\varnothing$	S1 $\varnothing$	c1	c	e	f	h1	h2	ht	ht1	n	q	Peso kg Weight lb	aceite lts oil fl.oz	
																	F00T
	inch	5.118	6 1/2	7 7/8	7/16	1/2	7/16	3 3/4	5 5/16	7 3/16	2 7/8	10 1/8	11 1/4	13/16	6 1/16	40	43
	mm	180	215	250	14	14	14	124	175	211	96	291	320	25	188	27	1.8
F0T	inch	7.087	8 15/32	9 7/8	9/16	9/16	9/16	4 7/8	6 7/8	8 5/16	3 3/4	11 7/16	12 5/8	1	7 3/8	60	62
	mm	230	265	300	14	16	17	138	215	243	102	343	391	25	218	39	2.5
F1T	inch	9.055	10 7/16	11 7/8	9/16	5/8	11/16	5 7/16	8 7/16	9 9/16	4	13 1/2	15 3/8	1	8 9/16	86	86
	mm	250	300	350	18	16	26	172	278	290	131	430	474	38	245	60	6
F2T	inch	9.843	11 13/16	13 13/16	11/16	5/8	1	6 3/4	10 15/16	11 7/16	5 3/16	16 15/16	18 11/16	1 1/2	9 5/8	132	207
	mm	350	400	450	18	18	26	195	350	370	163	535	597	50	278	102	9
F3T	inch	13.780	15 3/4	17 3/4	11/16	11/16	1	7 11/16	13 3/4	14 9/16	6 7/16	21 1/16	23 1/2	1 15/16	10 15/16	225	310
	mm	350	400	450	18	18	28	245	400	440	198	630	657	50	355	170	15.0
F4T	inch	13.780	15 3/4	17 3/4	11/16	11/16	1 1/8	9 5/8	15 3/4	17 5/16	7 13/16	24 13/16	25 7/8	1 15/16	14	375	517
	mm	350	400	450	18	22	36	270	460	497	213	730	742	60	430	253	22.0
F45T	inch	13.780	15 3/4	17 3/4	11/16	7/8	1 7/16	10 5/8	18 1/8	19 9/16	8 3/8	28 3/4	29 1/4	2 3/8	16 15/16	558	759



NOTA 1: Las dimensiones son aproximadas pudiendo modificarse sin previo aviso.  
 NOTE 1: Dimensions are for reference only, unless certified.  
 NOTA 2: Las capacidades de lubricante son para posición B3.  
 NOTE 2: Oil capacity valid only for mounting position B3.

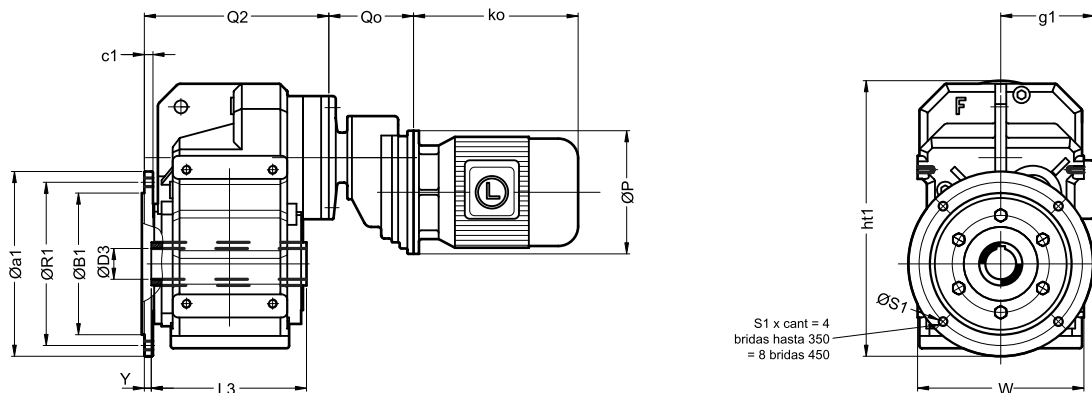
NOTA 3: Para dimensiones ko, P y g1 ver pag. 32 ó catálogo de motores (I.E.C.).  
 NOTE 3: To determinate ko, P and g1 see page 32, or electrical motors catalogue (I.E.C.).  
 NOTA 4: Los pesos no incluyen peso del motor.  
 NOTE 4: Motor weight is not included.

**TABLA DE MEDIDAS - SERIE "F-HU" (CON EJE DE SALIDA HUECO Y ANTECAJA SE SIMPLE REDUCCI3N)**  
**OVERALL DIMENSIONS - TYPE "F-HU" (WITH OUTPUT HOLLOW SHAFT AND PRIMARY ONE-STEP GEARBOX)**



Modelo Model	D3Ø	L3	chav 3 keway 3	A	B	SØ	V	lo	Q	Qo	Q2	W	B1Ø	R1Ø	a1Ø		
										IEC 71	IEC 80-90	IEC 100-112					
F00FR	mm 30	135	8x7	77	115	M8	31	25.5	154	110	125	---	168	165	130	165	200
	inch 1.188	5 5/16	1/4 x 1/8	3 1/16	4 1/2	UNC 5/16"	1 1/4	1	6 1/16	4 11/32	4 15/16	---	6 5/8	6.496	5.118	6 1/2	7 7/8
F0FR	mm 35	175	10x8	93	145	M10	43	43	189	110	125	---	196	180	180	215	250
	inch 1.375	6 7/8	5/16 x 5/32	3 11/16	5 11/16	UNC 3/8"	1 11/16	1 11/16	7 7/16	4 11/32	4 15/16	---	7 11/16	7.087	7.087	8 15/32	9 7/8
F1FR	mm 40	200	12x8	112	190	M12	60	41.5	214	110	125	---	226	212	230	265	300
	inch 1.625	7 7/8	3/8 x 3/16	4 7/16	7 1/2	UNC 1/2"	2 3/8	1 5/8	8 7/16	4 11/32	4 15/16	---	8 7/8	8.346	9.055	10 7/16	11 7/8
F2FR	mm 50	225	14x9	140	240	M16	70	40.5	240	110	125	---	256	270	250	300	350
	inch 2.000	8 7/8	1/2 x 1/4	5 1/2	9 7/16	UNC 5/8"	2 3/4	1 5/8	9 7/16	4 11/32	4 15/16	---	10 1/16	10.630	9.843	11 13/16	13 13/16
F3TR	mm 60	260	18x11	165	310	M16	100	50.5	285	130	145	152	296	330	350	400	450
	inch 2.375	10 1/4	5/8 x 5/16	6 1/2	12 3/16	UNC 5/8"	3 15/16	2	11 1/4	5 1/8	5 23/32	6	11 5/8	12.992	13.780	15 3/4	17 3/4
F4TR	mm 70	330	20x12	205	350	M20	120	59.5	345	130	145	152	362	400	350	400	450
	inch 2.750	13	5/8 x 5/16	8 1/16	13 13/16	UNC 3/4"	4 3/4	2 5/16	13 9/16	5 1/8	5 23/32	6	14 1/4	15.748	13.780	15 3/4	17 3/4
F45HR	mm 90	390	25 x 14	220	400	M24	125	85	417	---	172	172	443	450	350	400	450
	inch 3.625	15 3/8	7/8 x 7/16	8 21/32	15 3/4	UNC 1"	4 15/16	3 3/8	16 7/16	---	6 3/4	6 3/4	17 7/16	17.717	13.780	15 3/4	17 3/4

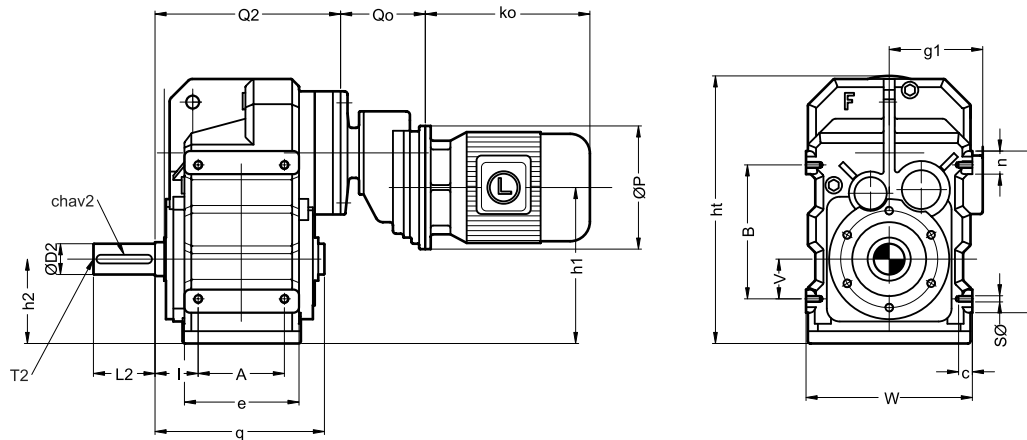
Modelo Model	S1Ø	c1	Y	c	co	doØ	dØ	e	f	ho	h2	ht	ht1	n	wo	Peso kg Weight lb	aceite lbs oil fl.oz
F00FR	mm 11	12	14	11	12	14	45	95	135	158	73	257	285	20	35.5	24	1.75
	inch 7/16	1/2	9/16	7/16	1/2	9/16	1 3/4	3 3/4	5 5/16	6 1/4	2 7/8	10 1/8	11 1/4	13/16	1 3/8	53	60
F0FR	mm 14	14	7.5	14	12	14	50	124	175	170	96	291	320	25	32	32	2.3
	inch 9/16	9/16	5/16	9/16	1/2	9/16	2	4 7/8	6 7/8	6 11/16	3 3/4	11 7/16	12 5/8	1	1 1/4	71	79
F1FR	mm 14	16	12	17	16	14	60	138	215	218	102	343	391	25	44	43	3
	inch 9/16	5/8	1/2	11/16	5/8	9/16	2 3/8	5 7/16	8 7/16	8 9/16	4	13 1/2	15 3/8	1	1 3/4	95	103
F2FR	mm 18	16	16	26	20	22	70	172	278	278	131	430	474	38	53	62	6.5
	inch 11/16	5/8	5/8	1	3/4	7/8	2 3/4	6 3/4	10 15/16	10 15/16	5 3/16	16 15/16	18 11/16	1 1/2	2 1/16	137	224
F3TR	mm 18	18	11	26	26	22	85	195	350	346	163	535	597	50	70	110	10
	inch 11/16	11/16	7/16	1	1	7/8	3 3/8	7 11/16	13 3/4	13 5/8	6 7/16	21 1/16	23 1/2	1 15/16	2 3/4	243	345
F4TR	mm 18	18	18	28	30	26	95	245	400	395	198	630	657	50	79	170	16.0
	inch 11/16	11/16	11/16	1 1/8	1 1/4	1	3 3/4	9 5/8	15 3/4	15 9/16	7 13/16	24 13/16	25 7/8	1 15/16	3 1/8	375	552
F45HR	mm 18	22	26	36	36	26	140	270	460	485	213	730	742	60	103.5	245	23.5
	inch 11/16	7/8	1	1 7/16	1 7/16	1	5 1/2	10 5/8	18 1/8	19 1/8	8 3/8	28 3/4	29 1/4	2 3/8	4 1/16	540	810



NOTA 1: Las dimensiones son aproximadas pudiendo modificarse sin previo aviso.  
 NOTE 1: Dimensions are for reference only, unless certified.  
 NOTA 2: Las capacidades de lubricante son para posición B3.  
 NOTE 2: Oil capacity valid only for mounting position B3.

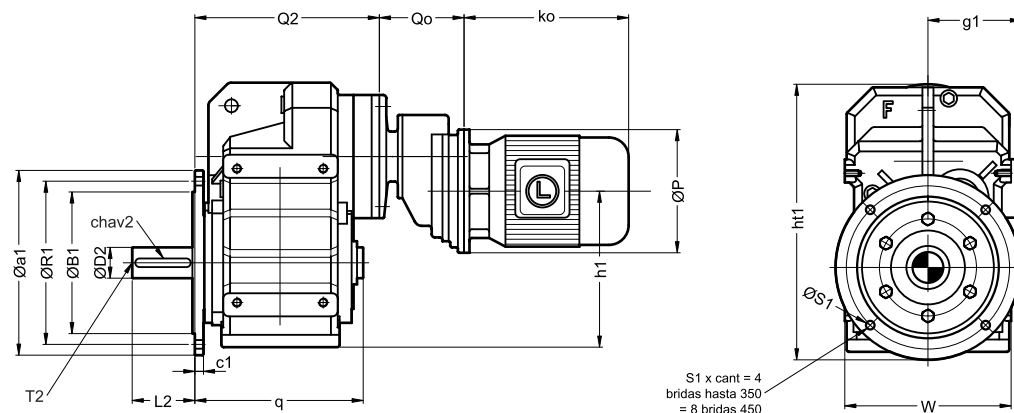
NOTA 3: Para dimensiones ko, P y g1 ver pag. 32 ó catálogo de motores (I.E.C.).  
 NOTE 3: To determinate ko, P and g1 see page 32, or electrical motors catalogue (I.E.C.).  
 NOTA 4: Los pesos no incluyen peso del motor.  
 NOTE 4: Motor weight is not included.

**TABLA DE MEDIDAS - SERIE "F" (CON EJE DE SALIDA MACIZO Y ANTECAJA DE SIMPLE REDUCCIÓN)**  
**OVERALL DIMENSIONS - TYPE "F" (WITH OUTPUT SOLID SHAFT AND PRIMARY ONE-STEP GEARBOX)**



Modelo Model	D2Ø	L2	chav 2 keyway 2	T2	A	B	SØ	V	I	Q2	Q0			W	B1Ø	
											IEC 71	IEC 80-90	IEC 100-112			
FO0FR	mm	25	50	8x7	M10	77	115	M8	31	39.5	168	110	125	----	165	130
	inch	1.000	2	1/4 x 1/8	UNC 3/8"	3 1/16	4 1/2	UNC 5/16"	1 1/4	1 1/2	6 5/8	4 11/32	4 15/16	----	6.496	5.118
FOFR	mm	30	60	8x7	M10	93	145	M10	43	50.5	196	110	125	----	180	180
	inch	1.188	2 3/8	1/4 x 1/8	UNC 3/8"	3 11/16	5 11/16	UNC 3/8"	1 11/16	2	7 11/16	4 11/32	4 15/16	----	7.087	7.087
F1FR	mm	40	80	12x8	M16	112	190	M12	60	53.5	226	110	125	----	212	230
	inch	1.625	3 1/8	3/8 x 3/16	UNC 5/8"	4 7/16	7 1/2	UNC 1/2"	2 3/8	2 1/8	8 7/8	4 11/32	4 15/16	----	8.346	9.055
F2FR	mm	50	100	14x9	M16	140	240	M16	70	56.5	256	110	125	----	270	250
	inch	2.000	4	1/2 x 1/4	UNC 5/8"	5 1/2	9 7/16	UNC 5/8"	2 3/4	2 1/4	10 1/16	4 11/32	4 15/16	----	10.630	9.843
F3TR	mm	60	120	18x11	M20	165	310	M16	100	62	296	130	145	152	330	350
	inch	2.375	4 3/4	5/8 x 5/16	UNC 3/4"	6 1/2	12 3/16	UNC 5/8"	3 15/16	2 7/16	11 5/8	5 1/8	5 23/32	6	12.992	13.780
F4TR	mm	70	140	20x12	M20	205	350	M20	120	77.5	362	130	145	152	400	350
	inch	2.750	5 1/2	5/8 x 5/16	UNC 3/4"	8 1/16	13 13/16	UNC 3/4"	4 3/4	3	14 1/4	5 1/8	5 23/32	6	15.748	13.780
F45HR	mm	90	170	25 x 14	M24	220	400	M24	125	111	443	----	172	172	450	350
	inch	3.500	6 3/4	7/8 x 7/16	UNC 1"	8 21/32	15 3/4	UNC 1"	4 15/16	4 3/8	17 7/16	----	6 3/4	6 3/4	17.717	13.780

Modelo Model	R1Ø	a1Ø	S1Ø	c1	c	e	f	h1	h2	ht	ht1	n	q	Peso kg Weight lb	aceite lts oil fl.oz	
																FO0FR
	inch	6 1/2	7 7/8	7/16	1/2	7/16	3 3/4	5 5/16	5 3/8	2 7/8	10 1/8	11 1/4	13/16	6 1/16	55	60
FOFR	mm	215	250	14	14	14	124	175	166	96	291	320	25	188	34	2.3
	inch	8 15/32	9 7/8	9/16	9/16	9/16	4 7/8	6 7/8	6 9/16	3 3/4	11 7/16	12 5/8	1	7 3/8	75	79
F1FR	mm	265	300	14	16	17	138	215	198	102	343	391	25	218	46	3
	inch	10 7/16	11 7/8	9/16	5/8	11/16	5 7/16	8 7/16	7 13/16	4	13 1/2	15 3/8	1	8 9/16	101	103
F2FR	mm	300	350	18	16	26	172	278	245	131	430	474	38	245	67	6.5
	inch	11 13/16	13 13/16	11/16	5/8	1	6 3/4	10 15/16	9 5/8	5 3/16	16 15/16	18 11/16	1 1/2	9 5/8	148	224
F3TR	mm	400	450	18	18	26	195	350	303	163	535	597	50	278	117	10
	inch	15 3/4	17 3/4	11/16	11/16	1	7 11/16	13 3/4	11 15/16	6 7/16	21 1/16	23 1/2	1 15/16	10 15/16	258	345
F4TR	mm	400	450	18	18	28	245	400	373	198	630	657	50	355	185	16.0
	inch	15 3/4	17 3/4	11/16	11/16	1 1/8	9 5/8	15 3/4	14 11/16	7 13/16	24 13/16	25 7/8	1 15/16	14	408	552
F45HR	mm	400	450	18	22	36	270	460	411	213	730	742	60	430	273	23.5
	inch	15 3/4	17 3/4	11/16	7/8	1 7/16	10 5/8	18 1/8	16 3/16	8 3/8	28 3/4	29 1/4	2 3/8	16 15/16	602	810

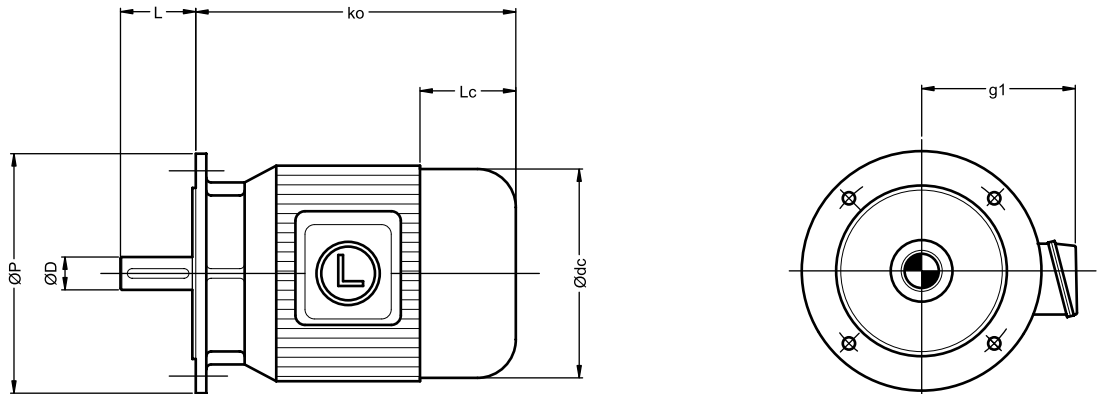


NOTA 1: Las dimensiones son aproximadas pudiendo modificarse sin previo aviso.  
 NOTE 1: Dimensions are for reference only, unless certified.  
 NOTA 2: Las capacidades de lubricante son para posición B3.  
 NOTE 2: Oil capacity valid only for mounting position B3.

NOTA 3: Para dimensiones ko, P y g1 ver pag. 32 ó catálogo de motores (I.E.C.).  
 NOTE 3: To determinate ko, P and g1 see page 32, or electrical motors catalogue (I.E.C.).  
 NOTA 4: Los pesos no incluyen peso del motor.  
 NOTE 4: Motor weight is not included.



**TABLA DE MEDIDAS DE MOTORES ELECTRICOS**  
**OVERALL DIMENSIONS - I.E.C. MOTORS**



Tamaño Motor IEC.	IEC Motor Size	Dø	L	Pø	g1	dcø	Motor Standard Standard Motor			Motor con Freno Brake Motor			Motor con Antigiro Motor with Backstop		
							ko	Lc	Peso kg Weight lb	ko	Lc	Peso kg Weight lb	ko	Lc	Peso kg Weight lb
71	mm	14	30	160	136	138	218	70	10	275	125	12	218	70	10
	inch	0,551	1,181	6 5/16	5 3/8	5 7/16	8 9/16	2 3/4	22	10 13/16	4 15/16	26	8 9/16	2 3/4	22
80	mm	19	40	200	145	158	236	75	14	288	125	16	236	75	14
	inch	0,748	1,575	7 7/8	5 11/16	6 1/4	9 5/16	2 15/16	31	11 5/16	4 15/16	35	9 5/16	2 15/16	31
90 S	mm	24	50	200	155	178	254	80	17,5	314	140	20,5	254	80	17,5
	inch	0,945	1,969	7 7/8	6 1/8	7	10	3 1/8	39	12 3/8	5 1/2	45	10	3 1/8	39
90 L	mm	24	50	200	155	178	279	80	20,5	339	140	23,5	279	80	20,5
	inch	0,945	1,969	7 7/8	6 1/8	7	11	3 1/8	45	13 3/8	5 1/2	52	11	3 1/8	45
100 L	mm	28	60	250	165	198	316	90	30	390	165	35	316	90	30
	inch	1,102	2,362	9 13/16	6 1/2	7 13/16	12 7/16	3 9/16	66	15 3/8	6 1/2	77	12 7/16	3 9/16	66
112 M	mm	28	60	250	190	223	333	100	44,5	413	180	53,5	333	100	44,5
	inch	1,102	2,362	9 13/16	7 1/2	8 3/4	13 1/8	3 15/16	98	16 1/4	7 1/16	118	13 1/8	3 15/16	98
132 S	mm	38	80	300	218	262	372	116	63	487	216	79	432	175	65
	inch	1,496	3,150	11 13/16	8 9/16	10 5/16	14 5/8	4 9/16	139	19 3/16	8 1/2	174	17	6 7/8	143
132 M	mm	38	80	300	218	262	410	116	73	525	216	89	470	175	75
	inch	1,496	3,150	11 13/16	8 9/16	10 5/16	16 1/8	4 9/16	161	20 11/16	8 1/2	196	18 1/2	6 7/8	165
160 M	mm	42	110	350	256	314	488	140	110	603	240	143	548	200	113
	inch	1,654	4,331	13 3/4	10 1/16	12 3/8	19 3/16	5 1/2	243	23 3/4	9 7/16	315	21 9/16	7 7/8	249
160 L	mm	42	110	350	256	314	532	140	121	647	240	154	592	200	124
	inch	1,654	4,331	13 3/4	10 1/16	12 3/8	20 15/16	5 1/2	267	25 1/2	9 7/16	340	23 5/16	7 7/8	273
180 M	mm	48	110	350	276	358	554	160	165	689	260	198	624	230	168
	inch	1,890	4,331	13 3/4	10 7/8	14 1/8	21 13/16	6 5/16	364	27 1/8	10 1/4	437	24 9/16	9 1/16	370
180 L	mm	48	110	350	276	358	592	160	185	727	260	218	662	230	188
	inch	1,890	4,331	13 3/4	10 7/8	14 1/8	23 5/16	6 5/16	408	28 5/8	10 1/4	481	26 1/16	9 1/16	414

NOTA: Las medidas son orientativas dependiendo de la marca del motor y están sujetas a futuros cambios en el diseño.  
 NOTE: Dimensions are for reference only, unless certified.

## CUADRO DE COMPATIBILIDAD GEOMETRICA CON MOTORES IEC PERMISSIBLE IEC FRAME MOTOR SIZES

### LINEA "F" - TYPE "F"

MODELO MODEL	TAMAÑO MOTOR IEC / IEC MOTOR SIZE									
	71	80	90	100	112	132	160	180	200	225
F00	■	■	■	■						
F0	■	■	■	■	■					
F1	■	■	■	■	■	■				
F2	■	■	■	■	■	■				
F3		■	■	■	■	■	■	■		
F4		■	■	■	■	■	■	■		
F45				■	■	■	■	■	■	■

NOTA 1: Para más detalles ver catalogo de motores ( I.E.C.) y Tabla de Potencias.

NOTE 1: For more details see electrical motors catalogue ( I.E.C.)and Power Rating Table.

NOTA 2: Para cada tamaño de motor no todas las relaciones son posibles ver tabla de potencias.

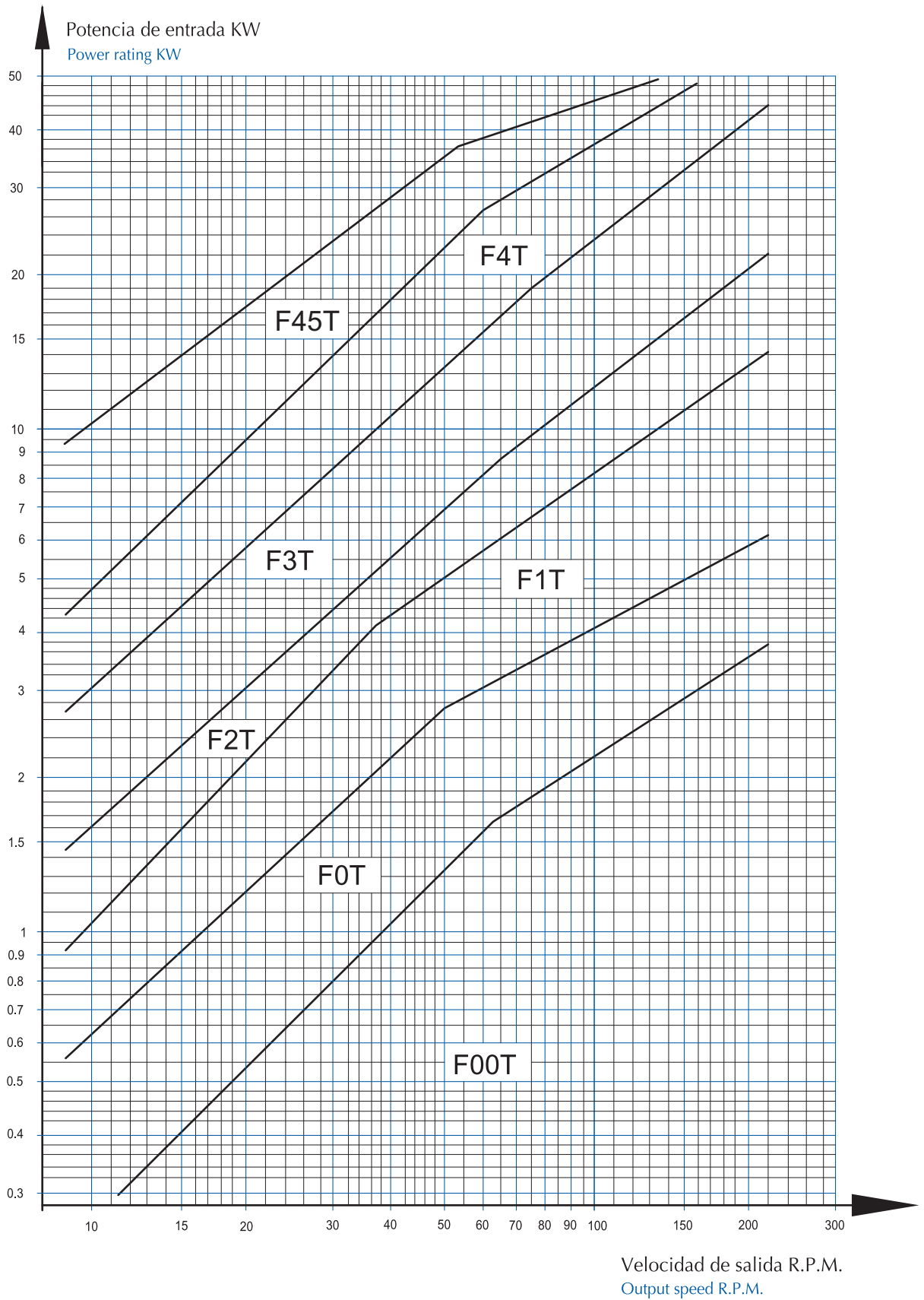
NOTE 2: For every motor size see Power Rating Table for permissible ratios.

■ NOTA 3: Es necesario modificar punta de eje motor, rogamos consultarnos.

■ NOTE 3: Only available modifying end shaft of motor, please consult us.

# DIAGRAMA DE SELECCION RAPIDA

## QUICK SELECTION DIAGRAM



**SELECCIÓN DE REDUCTORES**  
**SELECTION TABLE FOR GEARBOXES**

**Ne : Potencia de Entrada en kW**  
**Ne : Power Rating in kW**

**i : Relación Real**  
**i : Exact Ratio**

**TABLA DE SELECCIÓN PARA RELACIONES NOMINALES ENTRE 8 /1 y 25 /1**  
**SELECTION TABLE FOR NOMINAL RATIO BETWEEN 8 /1 and 25 /1**

Relación Nominal Nominal Ratio	Velocidad de entrada Input R.P.M.	RF00T2		RF0T2		RF1T2		RF2T2		RF3T2		RF4T2		RF45T2	
		i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)
8	1500		3,54		---		---		---		38,97		---		88,24
	1000		2,36		---		---		---		25,98		---		58,82
	750	7,36	1,77	---	---	---	---	---	---	8,24	19,49	---	---	8,03	44,12
	500		1,18		---		---		---		12,99		---		29,41
	300		0,71		---		---		---		7,79		---		17,65
9	1500		3,05		5,37		---		---		36,40		---		77,94
	1000		2,03		3,58		---		---		24,26		---		51,96
	750	9,32	1,53	8,92	2,68	---	---	---	---	9,46	18,20	---	---	9,47	38,87
	500		1,02		1,79		---		---		12,13		---		25,98
	300		0,61		1,07		---		---		7,28		---		15,59
10	1500		2,94		4,82		10,29		16,25		33,79		46,62		97,79
	1000		1,96		3,21		6,86		10,83		22,52		31,08		65,20
	750	10,06	1,47	10,29	2,41	10,85	5,15	10,45	8,13	10,94	16,89	10,15	23,31	10,18	48,90
	500		0,98		1,61		3,43		5,42		11,26		15,54		32,60
	300		0,59		0,96		2,06		3,25		6,76		9,32		19,56
11,2	1500		2,83		4,41		8,97		---		31,84		43,26		---
	1000		1,89		2,94		5,98		---		21,23		28,84		---
	750	10,84	1,42	11,91	2,21	12,52	4,49	---	---	11,61	15,92	11,56	21,63	---	---
	500		0,94		1,47		2,99		---		10,61		14,42		---
	300		0,57		0,88		1,79		---		6,37		8,65		---
12,5	1500		2,57		4,23		8,68		14,11		29,53		38,46		88,24
	1000		1,72		2,82		5,78		9,41		19,69		25,64		58,82
	750	12,73	1,29	12,92	2,11	13,31	4,34	12,01	7,06	12,78	14,76	13,26	19,23	11,90	44,12
	500		0,86		1,41		2,89		4,70		9,84		12,82		29,41
	300		0,51		0,85		1,74		2,82		5,91		7,69		17,65
14	1500		2,38		4,01		8,46		12,71		28,86		34,41		77,94
	1000		1,58		2,67		5,64		8,48		19,24		22,94		51,96
	750	14,46	1,19	13,74	2,00	14,59	4,23	13,93	6,36	13,33	14,43	14,61	17,21	14,03	38,97
	500		0,79		1,34		2,82		4,24		9,62		11,47		25,98
	300		0,48		0,80		1,69		2,54		5,77		6,88		15,59
16	1500		2,32		3,82		8,09		11,28		25,74		34,26		68,01
	1000		1,55		2,55		5,39		7,52		17,16		22,84		45,34
	750	15,13	1,16	16,02	1,91	15,36	4,04	16,38	5,64	15,42	12,87	15,38	17,13	16,74	34,01
	500		0,77		1,27		2,70		3,76		8,58		11,42		22,67
	300		0,46		0,76		1,62		2,26		5,15		6,85		13,60
18	1500		1,96		3,31		6,95		11,03		22,61		31,76		---
	1000		1,31		2,21		4,63		7,35		15,07		21,18		---
	750	18,29	0,98	18,91	1,65	17,90	3,47	17,47	5,51	18,01	11,31	16,63	15,88	---	---
	500		0,65		1,10		2,32		3,68		7,54		10,59		---
	300		0,39		0,66		1,39		2,21		4,52		6,35		---
20	1500		---		3,07		6,16		9,85		20,15		26,16		55,88
	1000		---		2,04		4,11		6,57		13,43		18,77		37,25
	750	---	---	20,52	1,53	20,69	3,08	20,07	4,93	21,30	10,07	19,08	14,08	20,31	27,94
	500		---		1,02		2,05		3,28		6,72		9,39		18,63
	300		---		0,61		1,23		1,97		4,03		5,63		11,18
22,5	1500		1,62		2,57		6,10		8,09		16,91		24,63		---
	1000		1,08		1,72		4,07		5,39		11,27		16,42		---
	750	22,64	0,81	24,65	1,29	21,14	3,05	23,29	4,04	25,64	8,46	22,13	12,32	---	---
	500		0,54		0,86		2,03		2,70		5,64		8,21		---
	300		0,32		0,51		1,22		1,62		3,38		4,93		---
25	1500		---		2,50		5,38		---		13,97		21,25		46,69
	1000		---		1,67		3,59		---		9,31		14,17		31,13
	750	---	---	26,66	1,25	25,39	2,69	---	---	28,61	6,99	26,00	10,63	25,21	23,35
	500		---		0,83		1,79		---		4,66		7,08		15,56
	300		---		0,50		1,08		---		2,79		4,25		9,34

**TABLA DE SELECCIÓN PARA RELACIONES NOMINALES ENTRE 25 /1 y 80 /1**  
**SELECTION TABLE FOR NOMINAL RATIO BETWEEN 25 /1 and 80 /1**

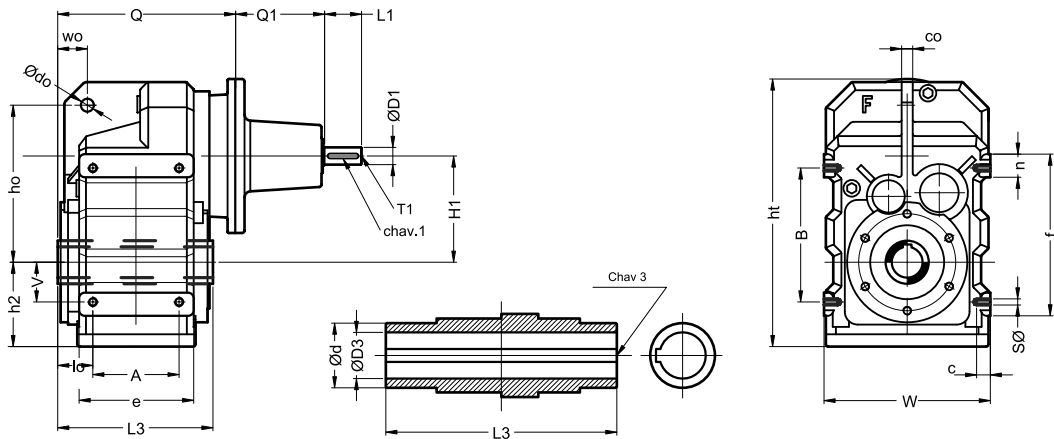
Relación Nominal Nominal Ratio	Velocidad de entrada Input R.P.M.	RF00T3		RF0T3		RF1T3		RF2T3		RF3T3		RF4T3		RF45T3	
		i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)
25	1500		1,57		---		5,81		8,68		20,46		26,84		---
	1000		1,04		---		3,87		5,78		13,64		17,89		---
	750	25,08	0,78	---	---	23,89	2,90	23,57	4,34	22,51	10,23	24,45	13,42	---	---
	500		0,52		---		1,94		2,89		6,82		8,95		---
	300		0,31		---		1,16		1,74		4,09		5,37		---
28	1500		1,40		2,76		5,01		7,57		18,21		24,04		32,72
	1000		0,93		1,84		3,34		5,05		12,14		16,03		21,81
	750	28,13	0,70	30,25	1,38	27,8	2,50	27,36	3,79	26,28	9,11	28,01	12,02	27,12	16,36
	500		0,47		0,92		1,67		2,52		6,07		8,01		10,91
	300		0,28		0,55		1,00		1,51		3,64		4,81		6,54
31,5	1500		1,34		2,66		4,26		7,24		14,61		20,81		29,41
	1000		0,89		1,77		2,84		4,83		9,74		13,87		19,61
	750	29,78	0,67	32,83	1,33	32,64	2,13	32,05	3,62	31,73	7,31	32,35	10,40	30,79	14,71
	500		0,45		0,89		1,42		2,41		4,87		6,94		9,80
	300		0,27		0,53		0,85		1,45		2,92		4,16		5,88
35,5	1500		1,18		2,52		3,59		7,15		12,51		19,71		26,32
	1000		0,79		1,58		2,39		4,77		8,34		13,14		17,55
	750	33,14	0,59	35,12	1,26	38,8	1,79	34,6	3,58	37,04	6,26	35,18	9,85	35,25	13,16
	500		0,39		0,84		1,20		2,38		4,17		6,57		8,77
	300		0,24		0,50		0,72		1,43		2,50		3,94		5,26
40	1500		1,00		2,17		3,48		6,18		10,63		17,20		30,22
	1000		0,67		1,45		2,32		4,12		7,08		11,47		20,15
	750	39,34	0,50	41,15	1,08	40,05	1,74	40,16	3,09	43,64	5,31	40,31	8,60	40,19	15,11
	500		0,33		0,72		1,16		2,06		3,54		5,73		8,77
	300		0,20		0,43		0,70		1,24		2,13		3,44		6,04
45	1500		0,91		2,06		2,97		5,37		10,03		14,49		26,62
	1000		0,61		1,37		1,98		3,58		6,69		9,66		17,75
	750	43,62	0,46	44,65	1,03	46,91	1,49	45,9	2,68	45,31	5,01	46,49	7,24	45,64	13,31
	500		0,30		0,69		0,99		1,79		3,34		4,83		8,87
	300		0,18		0,41		0,59		1,07		2,01		2,90		5,32
50	1500		0,74		1,92		2,47		5,27		8,91		13,71		23,24
	1000		0,49		1,28		1,65		3,51		5,94		9,14		15,49
	750	51,19	0,37	48,82	0,96	52,44	1,24	47,05	2,64	52,02	4,46	50,69	6,85	52,25	11,62
	500		0,25		0,64		0,82		1,76		2,97		4,57		7,75
	300		0,15		0,38		0,49		1,05		1,78		2,74		4,65
56	1500		0,69		1,63		2,42		4,44		8,47		---		16,69
	1000		0,46		1,09		1,61		2,96		5,65		---		11,13
	750	56,97	0,35	58,04	0,82	57,56	1,21	55,83	2,22	54,7	4,24	---	---	57,32	8,35
	500		0,23		0,54		0,81		1,48		2,82		---		5,56
	300		0,14		0,33		0,48		0,89		1,69		---		3,34
63	1500		0,61		1,49		2,16		4,10		7,35		11,75		20,07
	1000		0,41		0,99		1,44		2,74		4,90		7,83		13,38
	750	61,47	0,31	63,93	0,74	64,35	1,08	60,47	2,05	63,06	3,68	59,11	5,88	60,4	10,04
	500		0,20		0,50		0,72		1,37		2,45		3,92		6,69
	300		0,12		0,30		0,43		0,82		1,47		2,35		4,01
71	1500		0,54		1,32		1,96		3,53		6,66		9,52		17,13
	1000		0,36		0,88		1,30		2,35		4,44		6,35		11,42
	750	71,91	0,27	72,74	0,66	71,24	0,98	70,19	1,76	71,25	3,33	72,85	4,76	70,9	8,57
	500		0,18		0,44		0,65		1,18		2,22		3,17		5,71
	300		0,11		0,26		0,39		0,71		1,33		1,90		3,43
80	1500		0,49		1,20		1,71		2,98		5,93		8,24		14,34
	1000		0,32		0,80		1,14		1,99		3,95		5,49		9,56
	750	81,21	0,24	78,94	0,60	81,59	0,85	83,25	1,49	78,24	2,96	83,91	4,12	85	7,17
	500		0,16		0,40		0,57		0,99		1,98		2,75		4,78
	300		0,10		0,24		0,34		0,60		1,19		1,65		2,87
90	1500		0,43		1,12		1,53		---		5,17		7,87		---
	1000		0,28		0,75		1,02		---		3,45		5,25		---
	750	92,78	0,21	86,31	0,56	91,23	0,76	---	---	89,7	2,58	88,49	3,93	---	---
	500		0,14		0,37		0,51		---		1,72		2,62		---
	300		0,09		0,22		0,31		---		1,03		1,57		---



**TABLA DE SELECCIÓN PARA RELACIONES NOMINALES ENTRE 90 /1 y 250 /1**  
**SELECTION TABLE FOR NOMINAL RATIO BETWEEN 90 /1 and 250 /1**

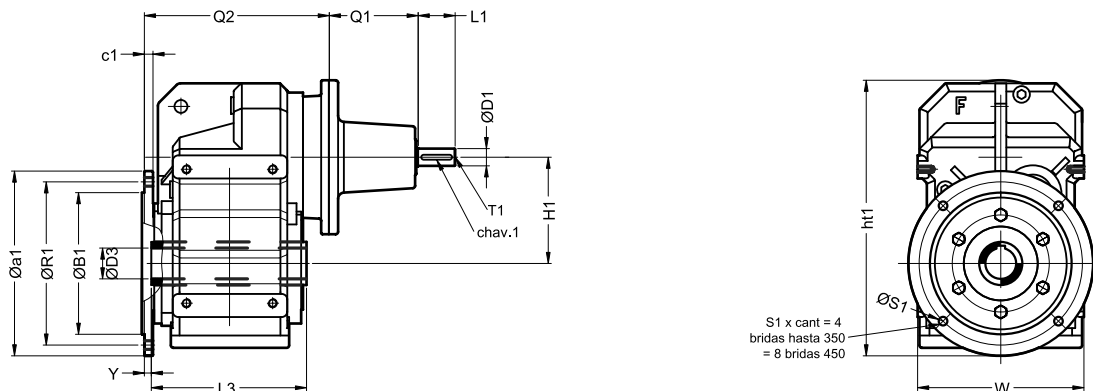
Relación Nominal Nominal Ratio	Velocidad de entrada Input R.P.M.	RF00T3		RF0T3		RF1T3		RF2T3		RF3T3		RF4T3		RF45T3	
		i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)	i	Ne (Kw)
90	1500		0,43		1,12		1,53		---		5,17		7,87		---
	1000		0,28		0,75		1,02		---		3,45		5,25		---
	750	92,78	0,21	86,31	0,56	91,23	0,76	---	---	89,70	2,58	88,49	3,93	---	---
	500		0,14		0,37		0,51		---		1,72		2,62		---
	300		0,09		0,22		0,31		---		1,03		1,57		---
95	1500		---		1,01		---		2,54		4,75		7,23		12,57
	1000		---		0,68		---		1,70		3,17		4,82		8,38
	750	---	---	93,7	0,51	---	---	97,6	1,27	95,7	2,38	96,38	3,61	96,50	6,29
	500		---		0,34		---		0,85		1,58		2,41		4,19
	300		---		0,20		---		0,51		0,95		1,45		2,51
100	1500		0,40		0,94		1,39		2,33		4,62		6,68		10,74
	1000		0,26		0,63		0,93		1,55		3,08		4,46		7,16
	750	99,1	0,20	101,0	0,47	100,1	0,69	106,5	1,17	100,4	2,31	103,3	3,34	101,1	5,37
	500		0,13		0,31		0,46		0,78		1,54		2,23		3,58
	300		0,08		0,19		0,28		0,47		0,92		1,34		2,15
112	1500		---		0,93		1,28		2,10		4,26		6,15		11,03
	1000		---		0,62		0,85		1,40		2,84		4,10		7,35
	750	---	---	104,2	0,46	108,6	0,64	117,8	1,05	108,7	2,13	112,4	3,07	110,4	5,37
	500		---		0,31		0,43		0,70		1,42		2,05		3,68
	300		---		0,19		0,26		0,42		0,85		1,23		2,21
125	1500		0,32		0,84		---		1,76		3,70		5,26		9,34
	1000		0,21		0,56		---		1,18		2,47		3,50		6,23
	750	123,6	0,16	113,0	0,42	---	---	126,8	0,88	122,8	1,85	125,3	2,63	120,7	4,67
	500		0,11		0,28		---		0,59		1,23		1,75		3,11
	300		0,06		0,17		---		0,35		0,74		1,05		1,87
132	1500		0,29		0,75		1,04		---		3,43		5,20		9,49
	1000		0,19		0,50		0,69		---		2,29		3,47		6,32
	750	132,8	0,14	128,7	0,38	134,4	0,52	---	---	134,9	1,72	132,8	2,60	127,8	4,74
	500		0,10		0,25		0,35		---		1,14		1,73		3,16
	300		0,06		0,15		0,21		---		0,69		1,04		1,90
140	1500		---		0,68		0,93		1,71		3,33		4,74		8,09
	1000		---		0,45		0,62		1,14		2,22		3,16		5,39
	750	---	---	139,7	0,34	140,3	0,46	145,5	0,85	139,2	1,67	146,5	2,37	149,8	4,04
	500		---		0,23		0,31		0,57		1,11		1,58		2,70
	300		---		0,14		0,19		0,34		0,67		0,95		1,62
160	1500		0,25		0,59		0,85		---		---		4,32		---
	1000		0,17		0,39		0,57		---		---		2,88		---
	750	159,5	0,13	164,6	0,29	154,0	0,43	---	---	---	---	159,6	2,16	---	---
	500		0,08		0,20		0,28		---		---		1,44		---
	300		0,05		0,12		0,17		---		---		0,86		---
180	1500		0,22		0,53		0,81		1,33		2,68		3,85		6,76
	1000		0,15		0,35		0,54		0,89		1,78		2,56		4,51
	750	175,5	0,11	178,6	0,26	172,1	0,40	186,1	0,67	173,1	1,34	180,3	1,92	178,8	3,38
	500		0,07		0,18		0,27		0,44		0,89		1,28		2,25
	300		0,04		0,11		0,16		0,27		0,54		0,77		1,35
200	1500		---		---		0,74		---		---		3,51		---
	1000		---		---		0,49		---		---		2,34		---
	750	---	---	---	---	188,9	0,37	---	---	---	---	196,4	1,76	---	---
	500		---		---		0,25		---		---		1,17		---
	300		---		---		0,15		---		---		0,70		---
250	1500		---		---		---		---		1,95		2,77		---
	1000		---		---		---		---		1,30		1,85		---
	750	---	---	---	---	---	---	---	---	240,1	0,97	250,3	1,39	---	---
	500		---		---		---		---		0,65		0,92		---
	300		---		---		---		---		0,39		0,55		---

**TABLA DE MEDIDAS - SERIE "RF-Hu" (CON EJE DE SALIDA HUECO)**  
**OVERALL DIMENSIONS - TYPE "RF-Hu" (WITH OUTPUT HOLLOW SHAFT)**



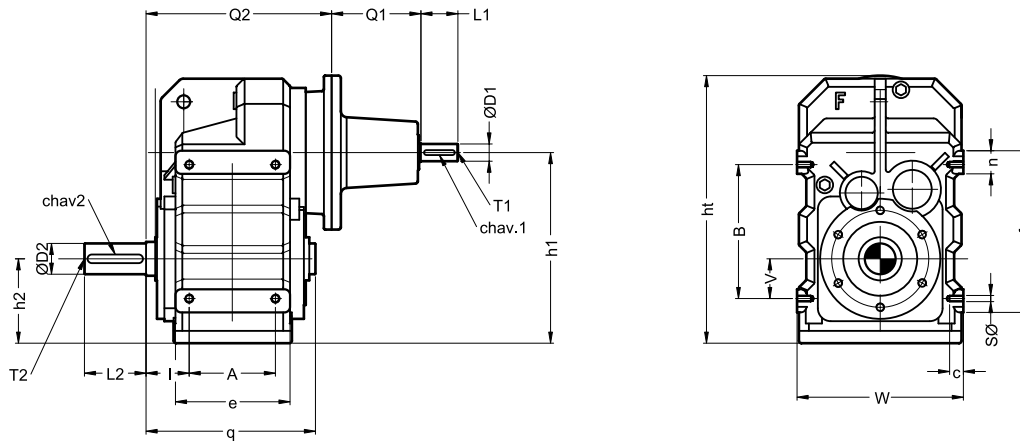
Modelo Model	D1Ø	L1	chav 1 keyway 1	T1	D3Ø	L3	chav 3 keyway 3	A	B	SØ	V	lo	Q	Q1	Q2	W	B1Ø	R1Ø	
RF00T	mm	14	30	5x5	M5	30	135	8x7	77	115	M8	31	25.5	154	70	168	165	130	165
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	1.188	5 5/16	1/4 x 1/8	3 1/16	4 1/2	UNC 5/16"	1 1/4	1	6 1/16	2 3/4	6 5/8	6.496	5.118	6 1/2
RF0T	mm	14	30	5x5	M5	35	175	10x8	93	145	M10	43	43	189	70	196	180	180	215
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	1.375	6 7/8	5/16 x 5/32	3 11/16	5 11/16	UNC 3/8"	1 11/16	1 11/16	7 1/2	2 3/4	7 11/16	7.087	7.087	8 15/32
RF1T	mm	19	40	6x6	M6	40	200	12x8	112	190	M12	60	41.5	229	95	241	212	230	265
	inch	0.750	1 5/8	3/16x3/32	UNC 1/4"	1.625	7 7/8	3/8 x 3/16	4 7/16	7 1/2	UNC 1/2"	2 3/8	1 5/8	9	3 3/4	9 1/2	8.346	9.055	10 7/16
RF2T	mm	24	50	8x7	M8	50	225	14x9	140	240	M16	70	40.5	255	95	271	270	250	300
	inch	0.875	2	3/16x3/32	UNC 5/16"	2.000	8 7/8	1/2 x 1/4	5 1/2	9 7/16	UNC 5/8"	2 3/4	1 5/8	10 1/16	3 3/4	10 11/16	10.630	9.843	11 13/16
RF3T	mm	28	60	8x7	M10	60	260	18x11	165	310	M16	100	50.5	285	145	296	330	350	400
	inch	1.125	2 3/8	1/4 x 1/8	UNC 3/8"	2.375	10 1/4	5/8 x 5/16	6 1/2	12 3/16	UNC 5/8"	3 15/16	2	11 1/4	5 23/32	11 5/8	12.992	13.780	15 3/4
RF4T	mm	32	80	10x8	M12	70	330	20x12	205	350	M20	120	59.5	364	165	382	400	350	400
	inch	1.250	3 1/8	1/4 x 1/8	UNC 1/2"	2.750	13	5/8 x 5/16	8 1/16	13 13/16	UNC 3/4"	4 3/4	2 5/16	14 5/16	6 1/2	15 1/16	15.748	13.780	15 3/4
RF45T	mm	38	80	10 x 8	M12	90	390	25 x 14	220	400	M24	125	85	417	165	443	450	350	400
	inch	1.500	3 1/8	5/16 x 5/32	UNC 1/2"	3.625	15 3/8	7/8 x 7/16	8 21/32	15 3/4	UNC 1"	4 15/16	3 3/8	16 7/16	6 1/2	17 7/16	17.717	13.780	15 3/4

Modelo Model	a1Ø	S1Ø	c1	Y	c	co	doØ	dØ	e	f	ho	H1	h2	ht	ht1	n	wo	Peso aceite kg Weight oil lb fl.oz		
RF00T	mm	200	11	12	14	11	12	14	45	95	135	158	109.38	73	257	285	20	35.5	20	1.25
	inch	7 7/8	7/16	1/2	9/16	7/16	1/2	9/16	1 3/4	3 3/4	5 5/16	6 1/4	4.306	2 7/8	10 1/8	11 1/4	13/16	1 3/8	44	43
RF0T	mm	250	14	14	7.5	14	12	14	50	124	175	170	115	96	291	320	25	32	28	1.8
	inch	9 7/8	9/16	9/16	5/16	9/16	1/2	9/16	2	4 7/8	6 7/8	6 11/16	4.528	3 3/4	11 7/16	12 5/8	1	1 1/4	62	62
RF1T	mm	300	14	16	12	17	16	14	60	138	215	218	141.45	102	343	391	25	44	40	2.5
	inch	11 7/8	9/16	5/8	1/2	11/16	5/8	9/16	2 3/8	5 7/16	8 7/16	8 9/16	5.569	4	13 1/2	15 3/8	1	1 3/4	88	86
RF2T	mm	350	18	16	16	26	20	22	70	172	278	278	159.44	131	430	474	38	53	59	6
	inch	13 13/16	11/16	5/8	5/8	1	3/4	7/8	2 3/4	6 3/4	10 15/16	10 15/16	6.277	5 3/16	16 15/16	18 11/16	1 1/2	2 1/16	130	207
RF3T	mm	450	18	18	11	26	26	22	85	195	350	346	207	163	535	597	50	70	107	9
	inch	17 3/4	11/16	11/16	7/16	1	1	7/8	3 3/8	7 11/16	13 3/4	13 5/8	8.150	6 7/16	21 1/16	23 1/2	1 15/16	2 3/4	236	310
RF4T	mm	450	18	18	18	28	30	26	95	245	400	395	242	198	630	657	50	79	175	15.0
	inch	17 3/4	11/16	11/16	1 1/8	1 1/4	1	3 3/4	9 5/8	15 3/4	15 9/16	9.528	7 13/16	24 13/16	25 7/8	1 15/16	3 1/8	386	517	
RF45T	mm	450	18	22	26	36	36	26	140	270	460	485	284	213	730	742	60	103.5	247	22.0
	inch	17 3/4	11/16	7/8	1	1 7/16	1 7/16	1	5 1/2	10 5/8	18 1/8	19 1/8	11.181	8 3/8	28 3/4	29 1/4	2 3/8	4 1/16	545	759



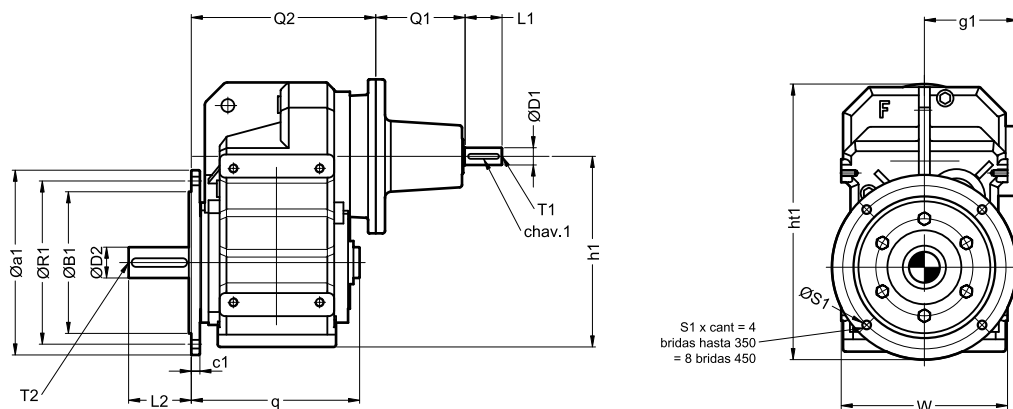
NOTA 1: Las dimensiones son aproximadas pudiendo modificarse sin previo aviso.  
 NOTE 1: Dimensions are for reference only, unless certified.  
 NOTA 2: Las capacidades de lubricante son para posición B3.  
 NOTE 2: Oil capacity valid only for mounting position B3.

**TABLA DE MEDIDAS - SERIE "RF" (CON EJE DE SALIDA MACIZO)**  
**OVERALL DIMENSIONS - TYPE "RF" (WITH OUTPUT SOLID SHAFT)**



Modelo Model	D1Ø	L1	chav 1 keyway 1	T1	D2Ø	L2	chav 2 keyway 2	T2	A	B	SØ	V	I	Q1	Q2	W	
RF00T	mm	14	30	5x5	M5	25	50	8x7	M10	77	115	M8	31	39.5	70	168	165
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	1.000	2	1/4 x 1/8	UNC 3/8"	3 1/16	4 1/2	UNC 5/16"	1 1/4	1 1/2	2 3/4	6 5/8	6.496
RF0T	mm	14	30	5x5	M5	30	60	8x7	M10	93	145	M10	43	50.5	70	196	180
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	1.188	2 3/8	1/4 x 1/8	UNC 3/8"	3 11/16	5 11/16	UNC 3/8"	1 11/16	2	2 3/4	7 11/16	7.087
RF1T	mm	19	40	6x6	M6	40	80	12x8	M16	112	190	M12	60	53.5	95	241	212
	inch	0.750	1 5/8	3/16x3/32	UNC 1/4"	1.625	3 1/8	3/8 x 3/16	UNC 5/8"	4 7/16	7 1/2	UNC 1/2"	2 3/8	2 1/8	3 3/4	9 1/2	8.346
RF2T	mm	24	50	8x7	M8	50	100	14x9	M16	140	240	M16	70	56.5	95	271	270
	inch	0.875	2	3/16x3/32	UNC 5/16"	2.000	4	1/2 x 1/4	UNC 5/8"	5 1/2	9 7/16	UNC 5/8"	2 3/4	2 1/4	3 3/4	10 11/16	10.630
RF3T	mm	28	60	8x7	M10	60	120	18x11	M20	165	310	M16	100	62	145	296	330
	inch	1.125	2 3/8	1/4 x 1/8	UNC 3/8"	2.375	4 3/4	5/8 x 5/16	UNC 3/4"	6 1/2	12 3/16	UNC 5/8"	3 15/16	2 7/16	5 23/32	11 5/8	12.992
RF4T	mm	32	80	10x8	M12	70	140	20x12	M20	205	350	M20	120	77.5	165	382	400
	inch	1.250	3 1/8	1/4 x 1/8	UNC 1/2"	2.750	5 1/2	5/8 x 5/16	UNC 3/4"	8 1/16	13 13/16	UNC 3/4"	4 3/4	3	6 1/2	15 1/16	15.748
RF45T	mm	38	80	10 x 8	M12	90	170	25 x 14	M24	220	400	M24	125	111	165	443	450
	inch	1.500	3 1/8	5/16 x 5/32	UNC 1/2"	3.500	6 3/4	7/8 x 7/16	UNC 1"	8 21/32	15 3/4	UNC 1"	4 15/16	4 3/8	6 1/2	17 7/16	17.717

Modelo Model	B1Ø	R1Ø	a1Ø	S1Ø	c1	c	e	f	h1	h2	ht	ht1	n	q	Peso kg Weight lb	aceite lts oil fl.oz	
RF00T	mm	130	165	200	11	12	11	95	135	182	73	257	285	20	154	21	1.25
	inch	5.118	6 1/2	7 7/8	7/16	1/2	7/16	3 3/4	5 5/16	7 3/16	2 7/8	10 1/8	11 1/4	13/16	6 1/16	46	43
RF0T	mm	180	215	250	14	14	14	124	175	211	96	291	320	25	188	30	1.8
	inch	7.087	8 15/32	9 7/8	9/16	9/16	9/16	4 7/8	6 7/8	8 5/16	3 3/4	11 7/16	12 5/8	1	7 3/8	66	62
RF1T	mm	230	265	300	14	16	17	138	215	243	102	343	391	25	218	43	2.5
	inch	9.055	10 7/16	11 7/8	9/16	5/8	11/16	5 7/16	8 7/16	9 9/16	4	13 1/2	15 3/8	1	8 9/16	95	86
RF2T	mm	250	300	350	18	16	26	172	278	290	131	430	474	38	245	64	6
	inch	9.843	11 13/16	13 13/16	11/16	5/8	1	6 3/4	10 15/16	11 7/16	5 3/16	16 15/16	18 11/16	1 1/2	9 5/8	141	207
RF3T	mm	350	400	450	18	18	26	195	350	370	163	535	597	50	278	114	9
	inch	13.780	15 3/4	17 3/4	11/16	11/16	1	7 11/16	13 3/4	14 9/16	6 7/16	21 1/16	23 1/2	1 15/16	10 15/16	251	310
RF4T	mm	350	400	450	18	18	28	245	400	440	198	630	657	50	355	190	15.0
	inch	13.780	15 3/4	17 3/4	11/16	11/16	1 1/8	9 5/8	15 3/4	17 5/16	7 13/16	24 13/16	25 7/8	1 15/16	14	419	517
RF45T	mm	350	400	450	18	22	36	270	460	497	213	730	742	60	430	275	22.0
	inch	13.780	15 3/4	17 3/4	11/16	7/8	1 7/16	10 5/8	18 1/8	19 9/16	8 3/8	28 3/4	29 1/4	2 3/8	16 15/16	606	759



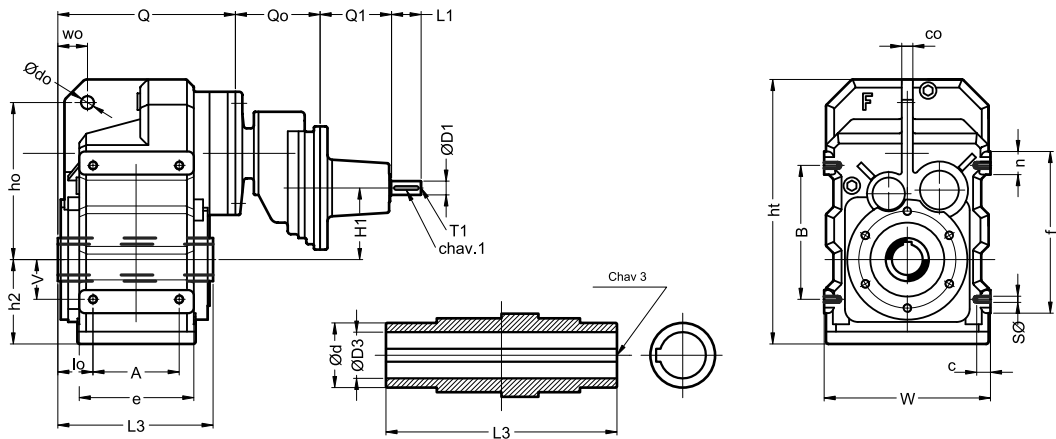
NOTA 1: Las dimensiones son aproximadas pudiendo modificarse sin previo aviso.

NOTE 1: Dimensions are for reference only, unless certified.

NOTA 2: Las capacidades de lubricante son para posición B3.

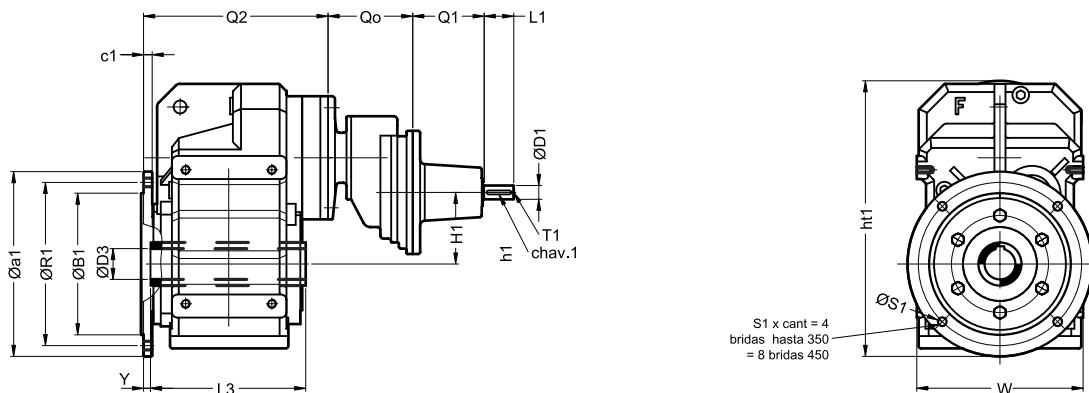
NOTE 2: Oil capacity valid only for mounting position B3.

**TABLA DE MEDIDAS - SERIE "RF-Hu" (CON EJE DE SALIDA HUECO Y ANTECAJA DE SIMPLE REDUCCIÓN)**  
**OVERALL DIMENSIONS - TYPE "RF-Hu" (WITH OUTPUT HOLLOW SHAFT AND PRIMARY ONE-STEP GEARBOX)**



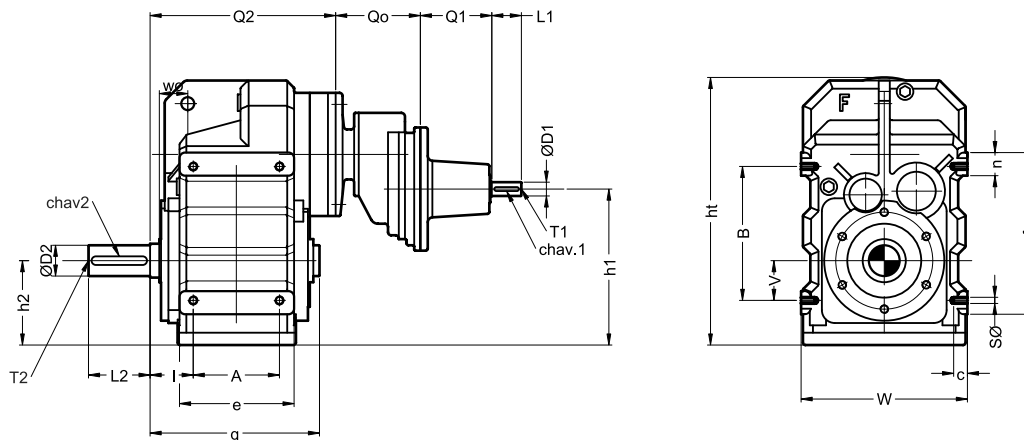
Modelo Model	D1Ø	L1	chav 1 keyway 1	T1	D3Ø	L3	chav 3 keyway 3	A	B	SØ	V	lo	Q	Qo	Q1	Q2	W	B1Ø	R1Ø	
RF00FR	mm	14	30	5x5	M5	30	135	8x7	77	115	M8	31	25.5	154	110	70	168	165	130	165
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	1.188	5 5/16	1/4 x 1/8	3 1/16	4 1/2	UNC 5/16"	1 1/4	1	6 1/16	4 11/32	2 3/4	6 5/8	6.496	5.118	6 1/2
RF0FR	mm	14	30	5x5	M5	35	175	10x8	93	145	M10	43	43	189	110	70	196	180	180	215
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	1.375	6 7/8	5/16 x 5/32	3 11/16	5 11/16	UNC 3/8"	1 11/16	1 11/16	7 7/16	4 11/32	2 3/4	7 11/16	7.087	7.087	8 15/32
RF1FR	mm	14	30	5x5	M5	40	200	12x8	112	190	M12	60	41.5	214	110	70	226	212	230	265
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	1.625	7 7/8	3/8 x 3/16	4 7/16	7 1/2	UNC 1/2"	2 3/8	1 5/8	8 7/16	4 11/32	2 3/4	8 7/8	8.346	9.055	10 7/16
RF2FR	mm	14	30	5x5	M5	50	225	14x9	140	240	M16	70	40.5	240	110	70	256	270	250	300
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	2.000	8 7/8	1/2 x 1/4	5 1/2	9 7/16	UNC 5/8"	2 3/4	1 5/8	9 7/16	4 11/32	2 3/4	10 1/16	10.630	9.843	11 13/16
RF3TR	mm	19	40	6x6	M6	60	260	18x11	165	310	M16	100	50.5	285	145	95	296	330	350	400
	inch	0.750	1 5/8	3/16x3/32	UNC 1/4"	2.375	10 1/4	5/8 x 5/16	6 1/2	12 3/16	UNC 5/8"	3 15/16	2	11 1/4	5 23/32	3 3/4	11 5/8	12.992	13.780	15 3/4
RF4TR	mm	19	40	6x6	M6	70	330	20x14	205	350	M20	120	59.5	344	145	95	362	400	350	400
	inch	0.750	1 5/8	3/16x3/32	UNC 1/4"	2.750	13	5/8 x 5/16	8 1/16	13 13/16	UNC 3/4"	4 3/4	2 5/16	13 9/16	5 23/32	3 3/4	14 1/4	15.748	13.780	15 3/4
RF45HR	mm	28	60	8 x 7	M10	90	390	25 x 14	220	400	M24	125	85	417	172	145	443	450	350	400
	inch	1.125	2 3/8	1/4 x 1/8	UNC 3/8"	3.625	15 3/8	7/8 x 7/16	8 21/32	15 3/4	UNC 1"	4 15/16	3 3/8	16 7/16	6 3/4	5 23/32	17 7/16	17.717	13.780	15 3/4

Modelo Model	a1Ø	S1Ø	c1	Y	c	co	doØ	dØ	e	f	ho	H1	h2	ht	ht1	n	wo	Peso kg Weight lb	accite lts oil fl.oz	
RF00FR	mm	200	11	12	14	11	12	14	45	95	135	64.4	73	257	285	20	35.5	27	1.75	
	inch	7 7/8	7/16	1/2	9/16	7/16	1/2	9/16	1 3/4	3 3/4	5 5/16	6 1/4	2.535	2 7/8	10 1/8	11 1/4	13/16	1 3/8	60	
RF0FR	mm	250	14	14	7.5	14	12	14	50	124	175	70	96	291	320	25	32	35	2.3	
	inch	9 7/8	9/16	9/16	5/16	9/16	1/2	9/16	2	4 7/8	6 7/8	6 11/16	2.756	3 3/4	11 7/16	12 5/8	1	1 1/4	77	
RF1FR	mm	300	14	16	12	17	16	14	60	138	215	218	96.45	102	343	391	25	44	46	3
	inch	11 7/8	9/16	5/8	1/2	11/16	5/8	9/16	2 3/8	5 7/16	8 7/16	8 9/16	3.797	4	13 1/2	15 3/8	1	1 3/4	101	
RF2FR	mm	350	18	16	16	26	20	22	70	172	278	278	114.54	131	430	474	38	53	65	6.5
	inch	13 13/16	11/16	5/8	5/8	1	3/4	7/8	2 3/4	6 3/4	10 15/16	10 15/16	4.509	5 3/16	16 15/16	18 11/16	1 1/2	2 1/16	143	
RF3TR	mm	450	18	18	11	26	26	22	85	195	350	346	140	163	535	597	50	70	114	10
	inch	17 3/4	11/16	11/16	7/16	1	1	7/8	3 3/8	7 11/16	13 3/4	13 5/8	5.512	6 7/16	21 1/16	23 1/2	1 15/16	2 3/4	251	
RF4TR	mm	450	18	18	18	28	30	26	95	245	400	395	175	198	630	657	50	79	174	16.0
	inch	17 3/4	11/16	11/16	11/16	1 1/8	1 1/4	1	3 3/4	9 5/8	15 3/4	15 9/16	6.890	7 13/16	24 13/16	25 7/8	1 15/16	3 1/8	384	
RF45HR	mm	450	18	22	26	36	36	26	140	270	460	485	197.63	213	730	742	60	103.5	285	23.5
	inch	17 3/4	11/16	7/8	1	1 7/16	1 7/16	1	5 1/2	10 5/8	18 1/8	19 1/8	7.781	8 3/8	28 3/4	29 1/4	2 3/8	4 1/16	628	



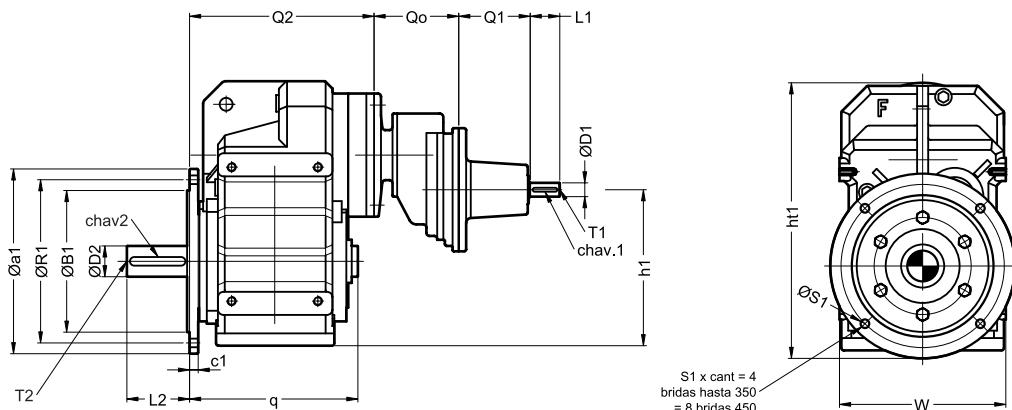
NOTA 1: Las dimensiones son aproximadas pudiendo modificarse sin previo aviso.  
 NOTE 1: Dimensions are for reference only, unless certified.  
 NOTA 2: Las capacidades de lubricante son para posición B3.  
 NOTE 2: Oil capacity valid only for mounting position B3.

**TABLA DE MEDIDAS - SERIE "RF" (CON EJE DE SALIDA MACIZO Y ANTECAJA DE SIMPLE REDUCCIÓN)**  
**OVERALL DIMENSIONS - TYPE "RF" (WITH OUTPUT SOLID SHAFT AND PRIMARY ONE-STEP GEARBOX)**



Modelo Model	D1Ø	L1	chav 1 keyway 1	T1	D2Ø	L2	chav 2 keyway 2	T2	A	B	SØ	V	I	Qo	Q1	Q2	
RF00FR	mm	14	30	5x5	M5	25	50	8x7	M10	77	115	M8	31	39.5	110	70	168
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	1.000	2	1/4 x 1/8	UNC 3/8"	3 1/16	4 1/2	UNC 5/16"	1 1/4	1 1/2	4 11/32	2 3/4	6 5/8
RF0FR	mm	14	30	5x5	M5	30	60	8x7	M10	93	145	M10	43	50.5	110	70	196
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	1.188	2 3/8	1/4 x 1/8	UNC 3/8"	3 11/16	5 11/16	UNC 3/8"	1 11/16	2	4 11/32	2 3/4	7 11/16
RF1FR	mm	14	30	5x5	M5	40	80	12x8	M16	112	190	M12	60	53.5	110	70	226
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	1.625	3 1/8	3/8 x 3/16	UNC 5/8"	4 7/16	7 1/2	UNC 1/2"	2 3/8	2 1/8	4 11/32	2 3/4	8 7/8
RF2FR	mm	14	30	5x5	M5	50	100	14x9	M16	140	240	M16	70	56.5	110	70	256
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	2.000	4	1/2 x 1/4	UNC 5/8"	5 1/2	9 7/16	UNC 5/8"	2 3/4	2 1/4	4 11/32	2 3/4	10 1/16
RF3TR	mm	19	40	6x6	M6	60	120	18x11	M20	165	310	M16	100	62	145	95	296
	inch	0.750	1 5/8	3/16x3/32	UNC 1/4"	2.375	4 3/4	5/8 x 5/16	UNC 3/4"	6 1/2	12 3/16	UNC 5/8"	3 15/16	2 7/16	5 23/32	3 3/4	11 5/8
RF4TR	mm	19	40	6x6	M6	70	140	20x12	M20	205	350	M20	120	77.5	145	95	362
	inch	0.750	1 5/8	3/16x3/32	UNC 1/4"	2.750	5 1/2	5/8 x 5/16	UNC 3/4"	8 1/16	13 13/16	UNC 3/4"	4 3/4	3	5 23/32	3 3/4	14 1/4
RF45HR	mm	28	60	8 x 7	M10	90	170	25 x 14	M24	220	400	M24	125	111	172	145	443
	inch	1.125	2 3/8	1/4 x 1/8	UNC 3/8"	3.500	6 3/4	7/8 x 7/16	UNC 1"	8 21/32	15 3/4	UNC 1"	4 15/16	4 3/8	6 3/4	5 23/32	17 7/16

Modelo Model	W	B1Ø	R1Ø	a1Ø	S1Ø	c1	c	e	f	h1	h2	ht	ht1	n	q	Peso kg Weight lb	aceite lts oil fl.oz.	
RF00FR	mm	165	130	165	200	11	12	11	95	135	137	73	257	285	20	154	28	1.75
	inch	6.496	5.118	6 1/2	7 7/8	7/16	1/2	7/16	3 3/4	5 5/16	5 3/8	2 7/8	10 1/8	11 1/4	13/16	6 1/16	62	60
RF0FR	mm	180	180	215	250	14	14	14	124	175	166	96	291	320	25	188	37	2.3
	inch	7.087	7.087	8 15/32	9 7/8	9/16	9/16	9/16	4 7/8	6 7/8	6 9/16	3 3/4	11 7/16	12 5/8	1	7 3/8	82	79
RF1FR	mm	212	230	265	300	14	16	17	138	215	198	102	343	391	25	218	49	3
	inch	8.346	9.055	10 7/16	11 7/8	9/16	5/8	11/16	5 7/16	8 7/16	7 13/16	4	13 1/2	15 3/8	1	8 9/16	108	103
RF2FR	mm	270	250	300	350	18	16	26	172	278	245	131	430	474	38	245	70	6.5
	inch	10.630	9.843	11 13/16	13 13/16	11/16	5/8	1	6 3/4	10 15/16	9 5/8	5 3/16	16 15/16	18 11/16	1 1/2	9 5/8	154	224
RF3TR	mm	330	350	400	450	18	18	26	195	350	303	163	535	597	50	278	121	10
	inch	12.992	13.780	15 3/4	17 3/4	11/16	1 1/16	1	7 11/16	13 3/4	11 15/16	6 7/16	21 1/16	23 1/2	1 15/16	10 15/16	267	345
RF4TR	mm	400	350	400	450	18	18	28	245	400	373	198	630	657	50	355	189	16.0
	inch	15.748	13.780	15 3/4	17 3/4	11/16	1 1/16	1 1/8	9 5/8	15 3/4	14 11/16	7 13/16	24 13/16	25 7/8	1 15/16	14	417	552
RF45HR	mm	450	350	400	450	18	22	36	270	460	411	213	730	742	60	430	313	23.5
	inch	17.717	13.780	15 3/4	17 3/4	11/16	7/8	1 7/16	10 5/8	18 1/8	16 3/16	8 3/8	28 3/4	29 1/4	2 3/8	16 15/16	690	810



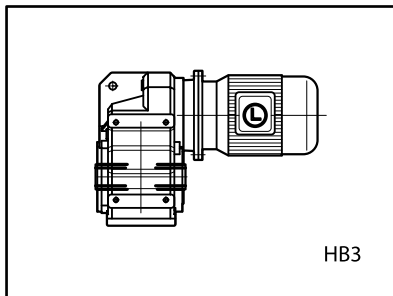
NOTA 1: Las dimensiones son aproximadas pudiendo modificarse sin previo aviso.  
 NOTE 1: Dimensions are for reference only, unless certified.  
 NOTA 2: Las capacidades de lubricante son para posición B3.  
 NOTE 2: Oil capacity valid only for mounting position B3.



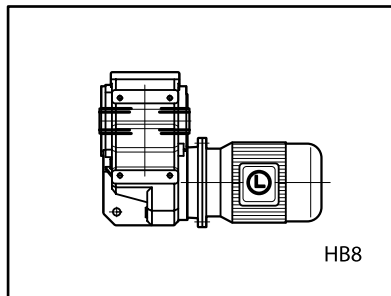
# POSICIONES DE MONTAJE MOUNTING POSITIONS

**SERIE "F"** (CON EJE HUECO)

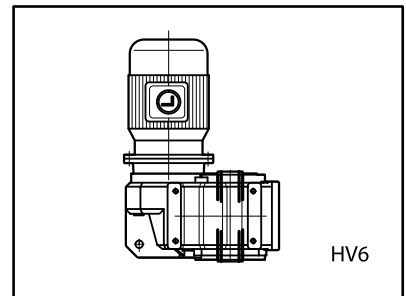
**TYPE "F"** (WITH HOLLOW SHAFT)



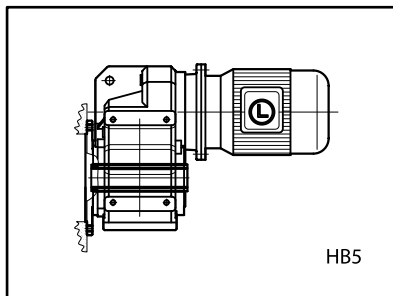
HB3



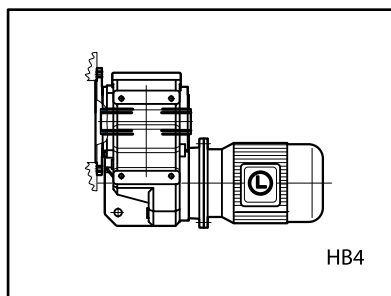
HB8



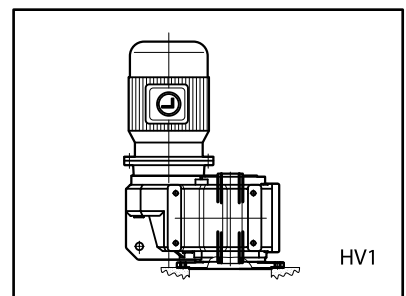
HV6



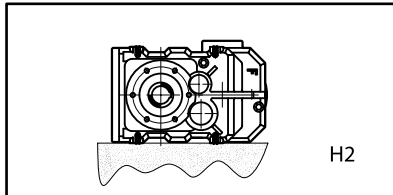
HB5



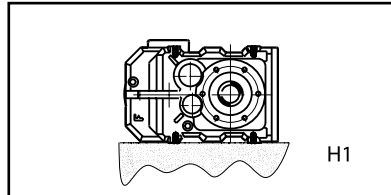
HB4



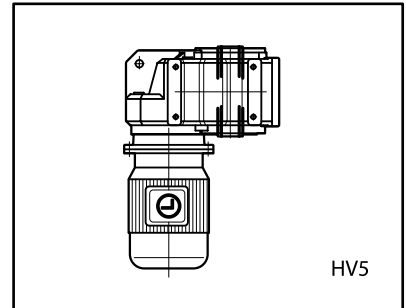
HV1



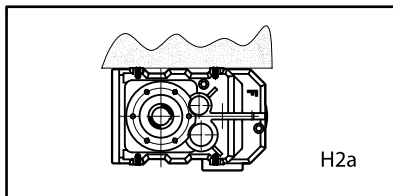
H2



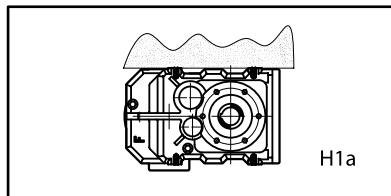
H1



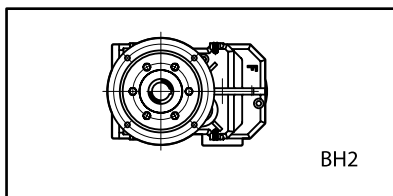
HV5



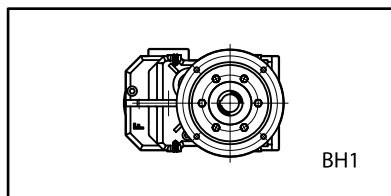
H2a



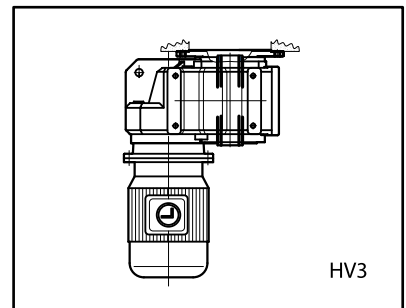
H1a



BH2



BH1



HV3

NOTA 1: Estas posiciones son válidas para línea F y sus combinados.

NOTE 1: These mounting positions are valid for type F units and its combinations.

NOTA 2: Las capacidades de lubricante son para posición HB3 ó HB5, otros casos rogamos consultarnos.

NOTE 2: Oil capacity valid only for mounting position HB3 or HB5, otherwise please consult us.

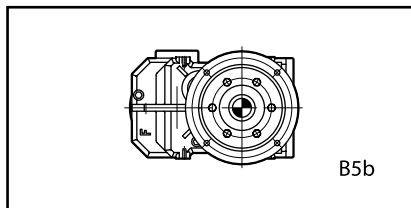
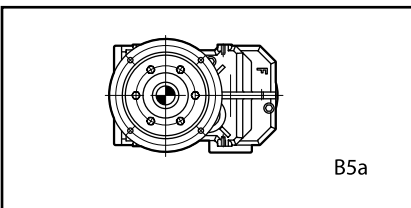
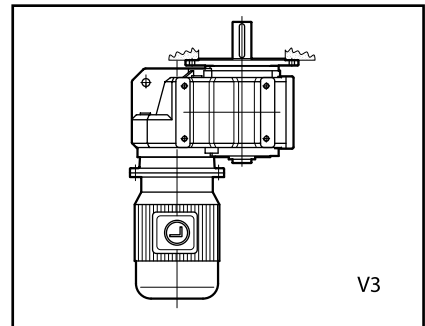
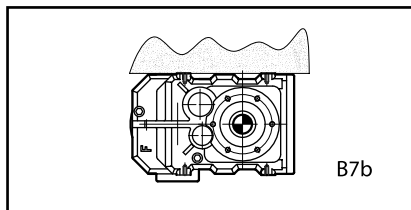
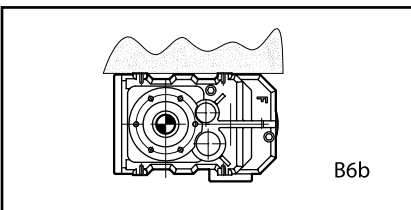
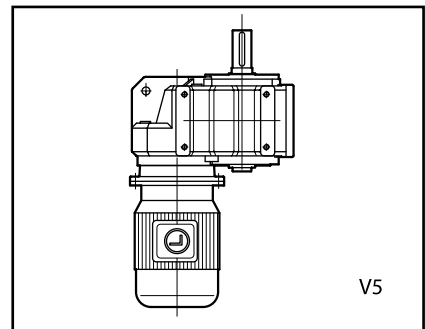
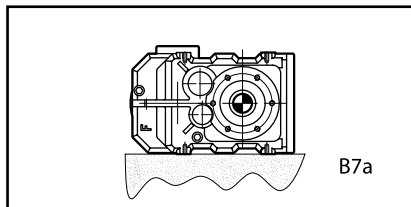
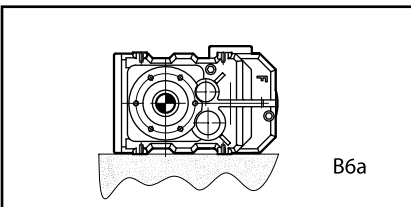
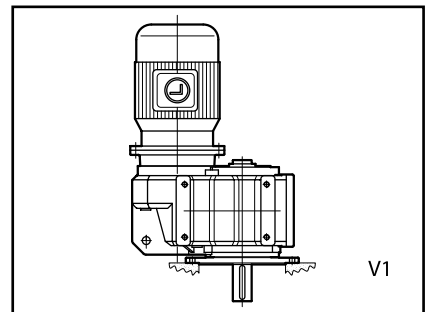
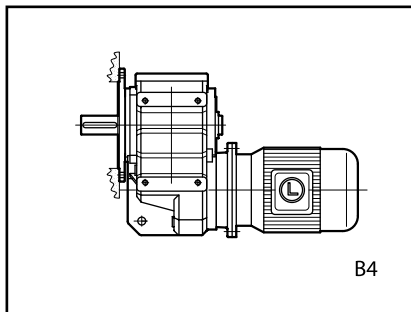
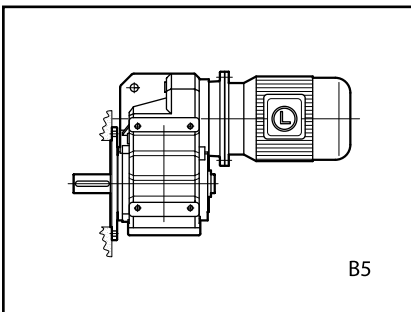
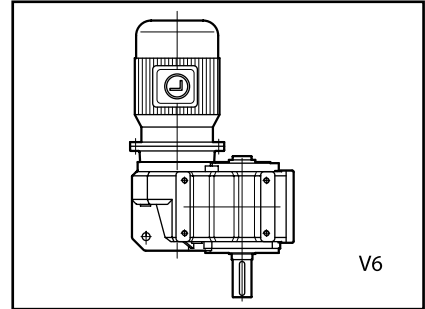
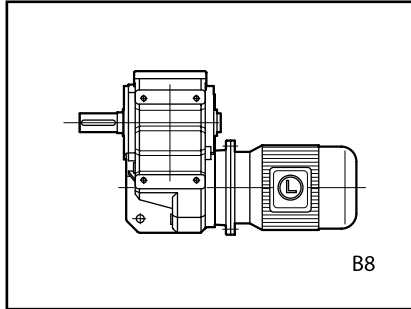
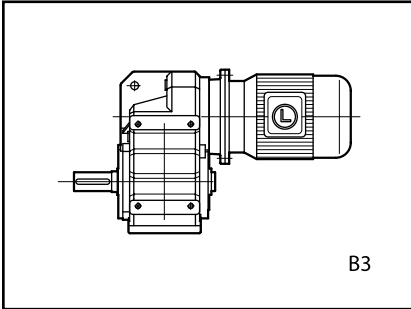
NOTA 3: Para equipos montados con inclinación superior a 10° rogamos consultarnos.

NOTE 3: For slanted positions greater than 10° please consult us.

# POSICIONES DE MONTAJE MOUNTING POSITIONS

**SERIE "F"** (CON EJE MACIZO)

**TYPE "F"** (WITH SOLID SHAFT)



NOTA 1: Estas posiciones son válidas para línea F y sus combinados.

NOTE 1: These mounting positions are valid for type F units and its combinations.

NOTA 2: Las capacidades de lubricante son para posición B3 ó B5, otros casos rogamos consultarnos.

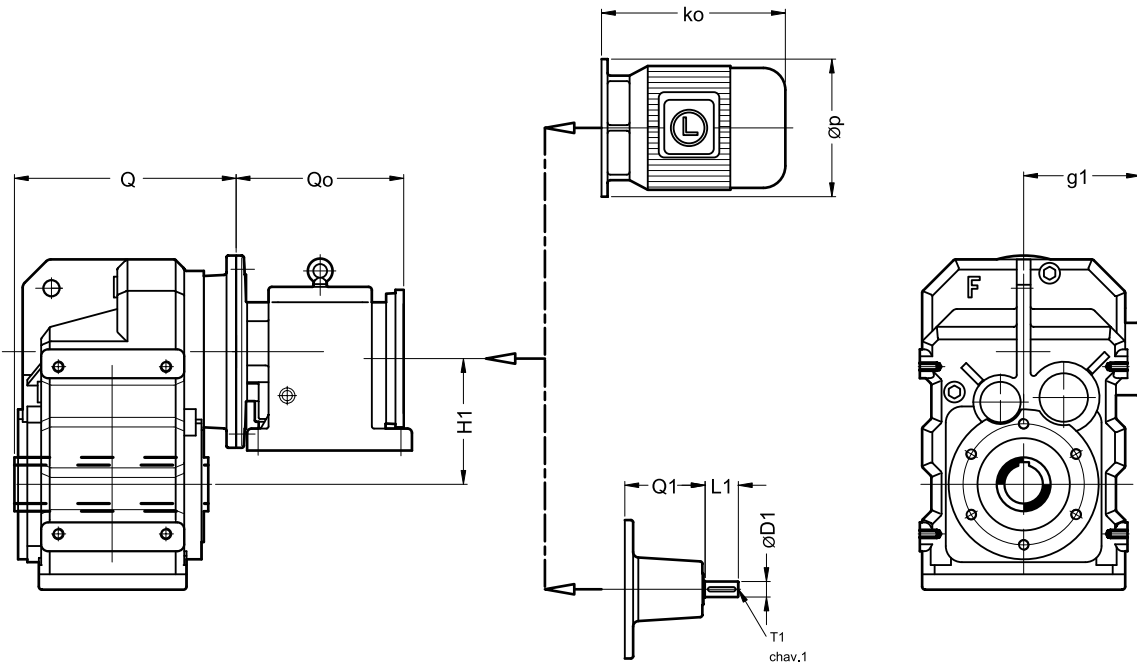
NOTE 2: Oil capacity valid only for mounting position B3 or B5, otherwise please consult us.

NOTA 3: Para equipos montados con inclinación superior a 10° rogamos consultarnos.

NOTE 3: For slanted positions greater than 10° please consult us.

## OTRAS EJECUCIONES ANOTHER AVAILABLE BUILDING FORMS

**PARA GRANDES RELACIONES DE TRANSMISIÓN** (VELOCIDADES INFERIORES A 1RPM)  
**FOR HIGHER RATIOS** (OUTPUT SPEED LOWER THAN 1 RPM)



Modelo	D1Ø	L1	chav 1	T1	Q	Qo	Q1	H1	Peso kg Weight lb	aceite lts oil fl.oz		
Model			keyway 1			IEC 71 IEC 80-90						
RF00C00 - F00C00	mm	14	30	5x5	M5	154	171	186	70	103.58	30	1.25
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	6 1/16	6 3/4	7 5/16	2 3/4	4.078	66	43
RF0C00 - F0C00	mm	14	30	5x5	M5	189	171	186	70	109.2	38	1.8
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	7 7/16	6 3/4	7 5/16	2 3/4	4.299	84	62
RF1C00 - F1C00	mm	14	30	5x5	M5	214	171	186	70	135.65	49	2.5
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	8 7/16	6 3/4	7 5/16	2 3/4	5.341	108	86
RF2C00 - F2C00	mm	14	30	5x5	M5	240	171	186	70	153.64	68	6
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	9 7/16	6 3/4	7 5/16	2 3/4	6.049	150	207
RF2C0 - F2C0	mm	14	30	5x5	M5	255	206	221	70	145.44	78	6
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	10 1/16	8 1/8	8 11/16	2 3/4	5.726	172	207
RF3C0 - F3C0	mm	14	30	5x5	M5	285	206	221	70	193	118	9
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	11 1/4	8 1/8	8 11/16	2 3/4	7.598	260	310
RF3C1 - F3C1	mm	19	40	6x6	M6	285	230.5	245.5	95	197.9	128	9
	inch	0.750	1 5/8	3/16x3/32	UNC 1/4"	11 1/4	9 1/16	9 11/16	3 3/4	7.791	282	310
RF4C0 - F4C0	mm	14	30	5x5	M5	344	206	221	70	228	178	15
	inch	0.625	1 3/16	3/16x3/32	UNC 3/16"	13 9/16	8 1/8	8 11/16	2 3/4	8.976	392	517
RF4C1 - F4C1	mm	19	40	6x6	M6	344	230.5	245.5	95	232.9	188	15.0
	inch	0.750	1 5/8	3/16x3/32	UNC 1/4"	13 9/16	9 1/16	9 11/16	3 3/4	9.169	414	517
RF45C1 - F45C1	mm	19	40	6 x 6	M6	417	230.5	245.5	95	274.9	258	22.0
	inch	0.750	1 5/8	3/16x3/32	UNC 1/4"	16 7/16	9 1/16	9 11/16	3 3/4	10.823	569	759

Más detalles ver páginas 28, 29, 30 o 31 según forma constructiva deseada. Cualquier duda consultenos.  
For more details see pages 28, 29, 30 or 31 depends on required building form. Anyway please consult us.

NOTA 1: Las dimensiones son aproximadas pudiendo modificarse sin aviso previo.

NOTE 1: Dimensions are for reference only, unless certified.

NOTA 2: Para dimensiones ko, P y g1 ver pag. 32 ó catálogo de motores (I.E.C.).

NOTE 2: To determinate ko, P and g1 see page 32, or electrical motors catalogue (I.E.C.).

NOTA 3: Los pesos no incluyen peso del motor.

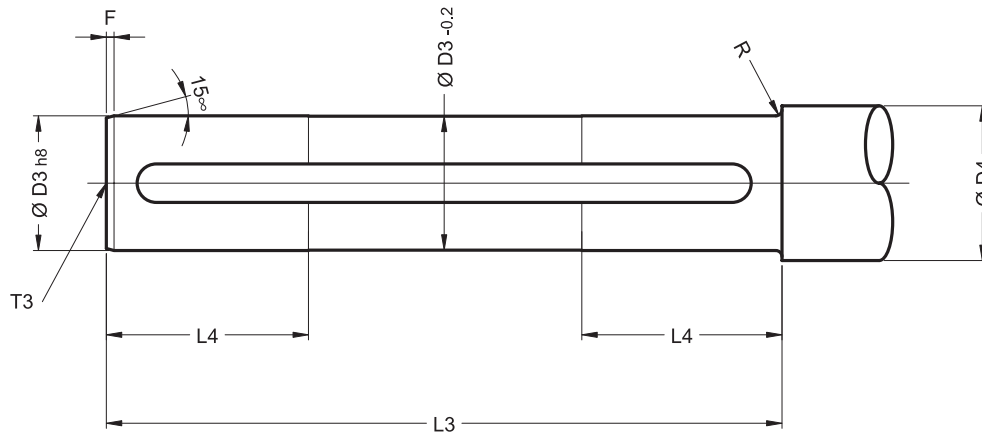
NOTE 3: Motor weight is not included.

NOTA 4: Las capacidades de lubricante son para el reductor principal en posición B3 ó B5, otros casos rogamos consultarnos.

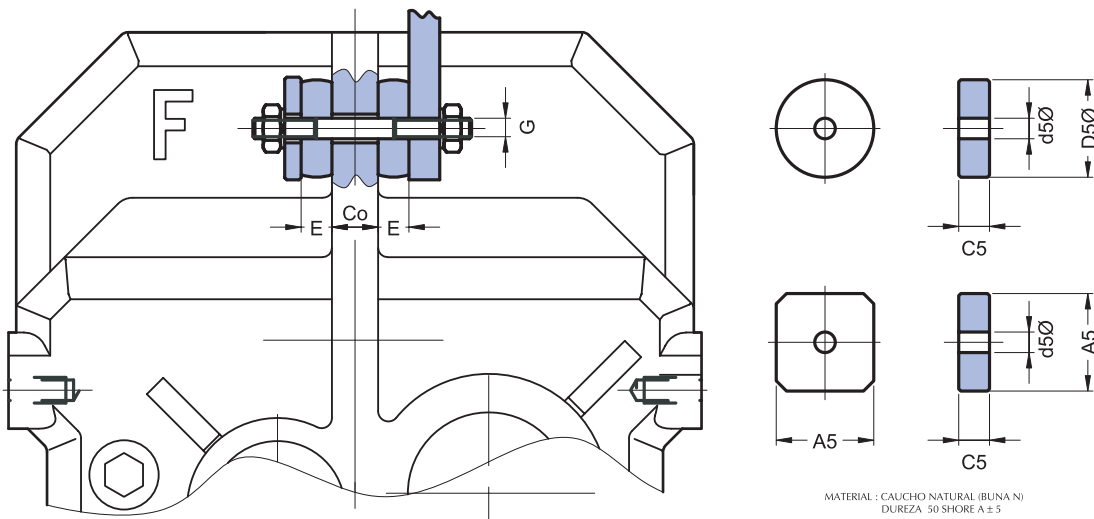
NOTE 4: Oil capacity valid only for the main gearbox and mounting position B3 or B5, otherwise please consult us.

# FIJACIÓN DE LOS REDUCTORES CON EJE HUECO

## FITTING OF SHAFT MOUNTED UNITS



TACOS DE GOMA SOPORTAR EL PAR TORSOR  
RUBBER BUFFER FOR TORQUE SUPPORTING



MATERIAL : CALUCHO NATURAL (IBUNA N)  
DUREZA 50 SHORE A ± 5  
MATERIAL : NATURAL RUBBER (IBUNA N)  
HARDNESS 50 SHORE A ± 5

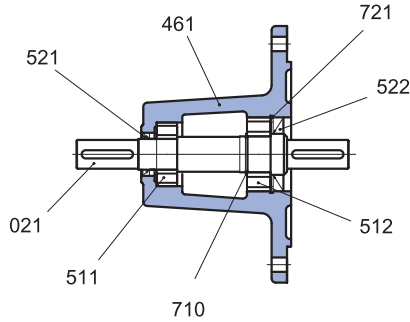
Modelo Model	D3Ø	L3	chav 3 keyway 3	T3	Co	A	C5	D4Ø	D5Ø	d5Ø	L4	E	F	G	R	
F00	mm	30	130	8x7	M10	12	40	15	35	40	10	40	13	3	M10	1
	inch	1,188	5 1/8	1/4 x 1/8	UNC 3/8"	1/2	1 9/16	9/16	1 3/8	1 9/16	3/8	1 9/16	1/2	1/8	UNC 3/8"	0,04
F0	mm	35	170	10x8	M12	12	52	20	40	52	10	50	17	3	M10	1
	inch	1,375	6 11/16	5/16 x 5/32	UNC 1/2"	1/2	2 1/16	13/16	1 9/16	2 1/16	3/8	2	11/16	1/8	UNC 3/8"	0,04
F1	mm	40	195	12x8	M16	16	52	20	45	52	10	60	16,5	4	M10	1,6
	inch	1,625	7 11/16	3/8 x 3/16	UNC 5/8"	5/8	2 1/16	13/16	1 3/4	2 1/16	3/8	2 3/8	5/8	3/16	UNC 3/8"	0,06
F2	mm	50	220	14x9	M16	20	73	25	55	73	18	65	21,5	5	M18	1,6
	inch	2,000	8 11/16	1/2 x 1/4	UNC 5/8"	3/4	2 7/8	1	2 3/16	2 7/8	5/8	2 1/2	7/8	3/16	UNC 5/8"	0,06
F3	mm	60	255	18x11	M20	26	73	25	65	73	18	75	21	6	M18	2
	inch	2,375	10 1/16	5/8 x 5/16	UNC 3/4"	1	2 7/8	1	2 9/16	2 7/8	3/4	3	13/16	1/4	UNC 3/4"	0,08
F4	mm	70	325	20x12	M20	30	104	30	75	104	20	95	25,5	6	M20	2
	inch	2,750	12 13/16	5/8 x 5/16	UNC 3/4"	1 1/4	4 1/8	1 3/16	2 15/16	4 1/8	3/4	3 3/4	1	1/4	UNC 3/4"	0,08
F45	mm	90	390	25 x 14	M24	36	104	30	75	104	20	110	25,5	6	M20	2
	inch	3,625	15 3/8	7/8 x 7/16	UNC 1"	1 7/6	4 1/8	1 3/16	2 15/16	4 1/8	3/4	4/14	1	1/4	UNC 3/4"	0,08

Más detalles ver páginas 28, 29, 30 o 31 según forma constructiva deseada. Cualquier duda consultenos.  
For more details see pages 28, 29, 30 or 31 depends on required building form. Anyway please consult us.  
NOTA 1: Las dimensiones son aproximadas pudiendo modificarse sin aviso previo.  
NOTE 1: Dimensions are for reference only, unless certified.

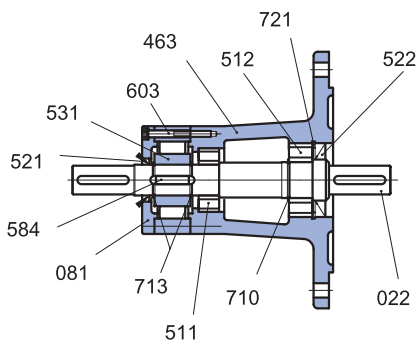
# GUIA PARA SOLICITUD DE PARTES

## PART LIST GUIDES

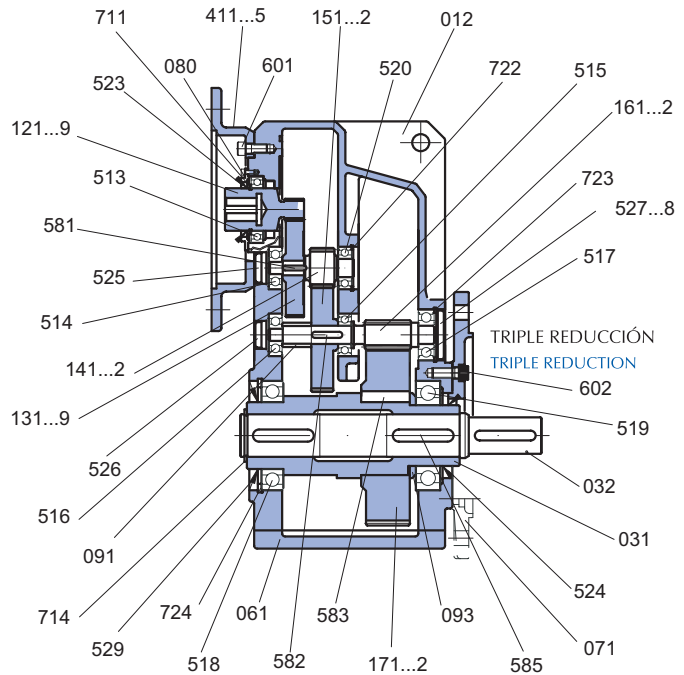
LINEA " F " DOBLE Y TRIPLE REDUCCION  
TYPE " F " DOUBLE AND TRIPLE REDUCTION



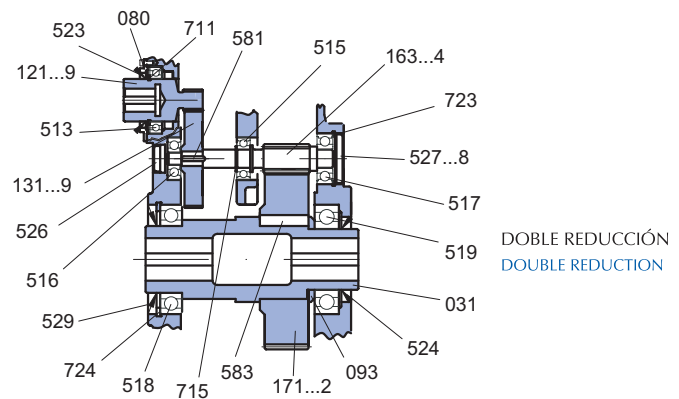
TROMPA DE ENTRADA  
INPUT TURRET



TROMPA DE ENTRADA CON TRABA  
INPUT TURRET WITH BACKSTOP



TRIPLE REDUCCION  
TRIPLE REDUCTION



DOBLE REDUCCION  
DOUBLE REDUCTION

### LISTA DE PARTES PART LIST

012	Cuerpo reductor con patas	012	Gearbox case	518	Rodamiento de salida	518	Bearing
021...2	Eje de entrada reductor	021...2	Input shaft	519	Rodamiento de salida	519	Bearing
031	Eje de salida Hueco	031	Hollow shaft	520	Rodamiento piñon salida	520	Bearing
032	Eje de salida	032	Output shaft	521	Reten de entrada	521	Oil seal
061	Tapa de inspeccion	061	Gearbox cover	522	Reten de trompa de entrada	522	Oil seal
071	Brida de salida I	071	Output flange I	523	Reten piñon de entrada	523	Oil seal
072	Brida de salida II	072	Output flange II	524	Reten de salida	524	Oil seal
080	Contratapa porta-retén de entrada	080	Oil Seal input cover	525.8	Tapon de cierre	525.8	End cover
081	Tapa de entrada trava	081	Cover	529	Reten de salida lado motor	529	Oil seal
091	Distanciador engranaje intermedia	091	Spacer	531	Traba antiretroceso	531	Backstop
093	Distanciador engranaje salida	093	Spacer	581	Chaveta engranaje de entrada	581	Key
121...9	Piñon de entrada	121...9	Input pinion	582	Chaveta engranaje intermedio	582	Key
131...9	Engranaje de entrada	131...9	Input gear	583	Chaveta engranaje de salida	583	Key
141...2	Piñon de intermedia	141...2	Intermediate pinion	584	Chaveta de entrada con trava	584	Key
151...2	Engranaje de intermedia	151...2	Intermediate gear	585	Chaveta de eje de salida macizo	585	Key
161...2	Piñon de salida 3 etapas	161...2	Three step output pinion	601	Tornillo aro motor	601	Screw
163...4	Piñon de salida 2 etapas	163...4	Two step output pinion	602	Tornillo brida salida	602	Screw
171...2	Engranaje de salida	171...2	Output gear	603	Tornillo trava antiretroceso	603	Screw
411...5	Aro IEC	411...5	I.E.C. Input flange	710	Seeger eje de entrada	710	Snap ring
461	Trompa de entrada	461	Input turret	711	Seeger piñon de entrada	711	Snap ring
463	Trompa entrada trava	463	Input turret for backstop	713	Seeger trava	713	Snap ring
511	Rodamiento trompa lado entrada	511	Bearing	714	Seeger eje de salida macizo	714	Snap ring
512	Rodamiento trompa lado salida	512	Bearing	715	Seeger piñon salida 2 etapas	715	Snap ring
513	Rodamiento piñon de entrada	513	Bearing	721	Seeger trompa de entrada	721	Snap ring
514	Rodamiento piñon de intermedia	514	Bearing	722	Seeger piñon intermedio	722	Snap ring
515	Rodamiento piñon de intermedia	515	Bearing	723	Seeger piñon salida	723	Snap ring
516	Rodamiento piñon de salida	516	Bearing	724	Seeger salida	724	Snap ring
517	Rodamiento piñon de salida	517	Bearing				





PRODUCTOS RESPALDADOS POR CINCUENTA AÑOS DE EXPERIENCIA Y EVOLUCION

Edison 1191/99 Martínez - B1640HQW - Buenos Aires - Argentina.  
Tel. (054-11) 4733-3900 L. Rotativas.  
Fax. (054-11) 4733-4400 • E-mail: [ventas@lentax.com](mailto:ventas@lentax.com)  
web [HTTP://www.lentax.com](http://www.lentax.com)