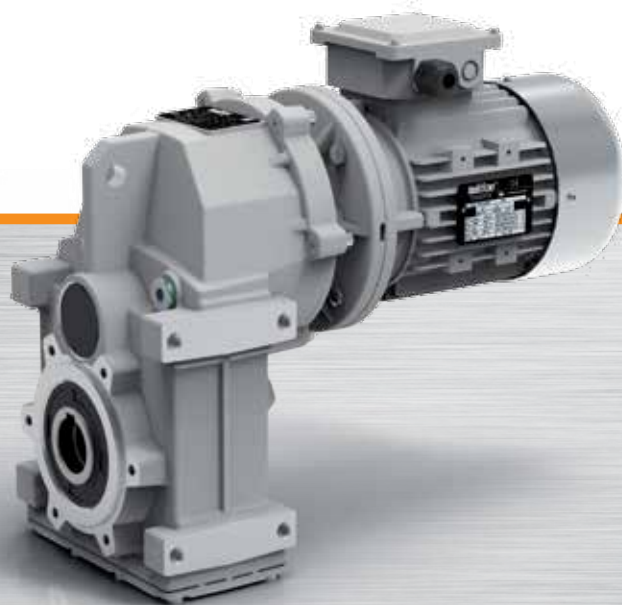
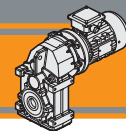


Motorreductores pendulares  
**Motoredutores de eixos paralelos**  
Helical parallel gearmotors





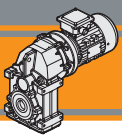


Índice	Índice	Index	Pag. Pág. Page
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Clasificación	<i>Designação</i>	Classification	<b>F2</b>
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**ATS****Motorreductores pendulares**  
**Motoredutores de eixos paralelos**  
**Helical parallel gearmotors****60 Hz****Características técnicas**

El alto grado de modularidad es una característica del diseño de la línea ATS motoredutores pendulares. Es posible configurar la versión requerida usando los kits de entrada y salida.

Las principales características de gama ATS son:

- Carcasas y bridas de entrada de aluminio fundido a presión
- Aceite de lubricación sintética de larga duración.
- Bridas de salida de hierro fundido.

**Características técnicas**

Os motoredutores da série ATS são caracterizados por um elevado grau de modularidade: a partir de um corpo base, é possível configurar de acordo com os requisitos de diferentes kits de entrada e de saída.

Características comuns a toda a série:

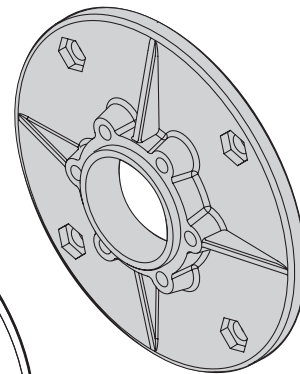
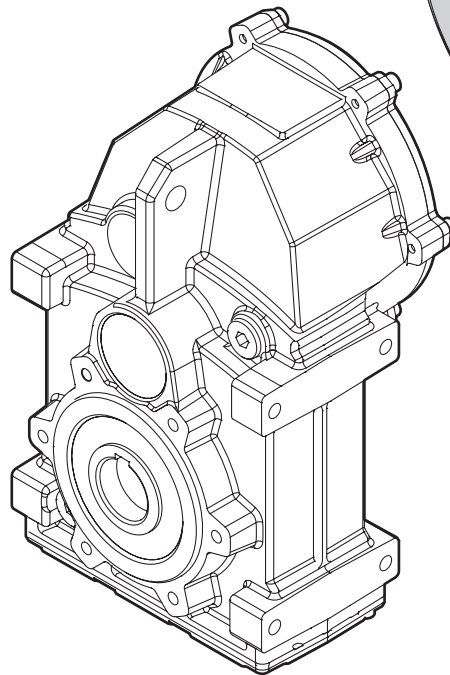
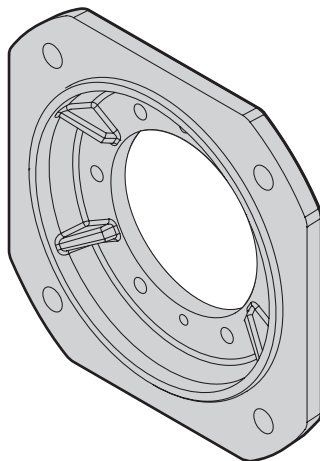
- Carcaça e Flange de alumínio fundido
- Lubrificação permanente com óleo sintético.
- Flanges de saída de ferro fundido.

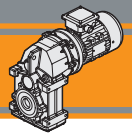
**Technical features**

The high degree of modularity is a design feature of ATS helical parallel range. It is possible to set up the version required by using input and output kits.

The main features of ATS range are:

- Die-cast aluminum housings and input flanges
- Permanent synthetic oil long-life lubrication.
- Cast iron output flanges.





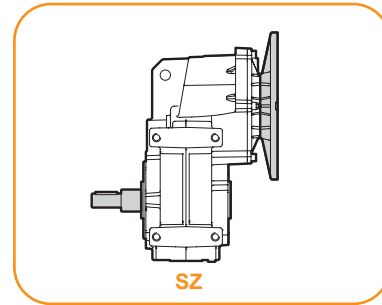
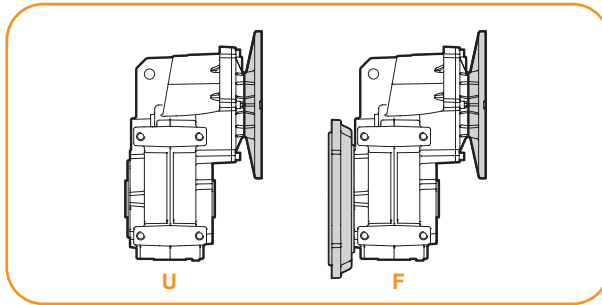
Clasificación

Designação

Classification

Relación de reducción  
Versão Redutor  
Gearbox Version

Eje de salida  
Eixo de saída  
Output shaft

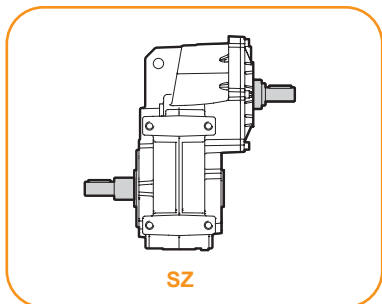
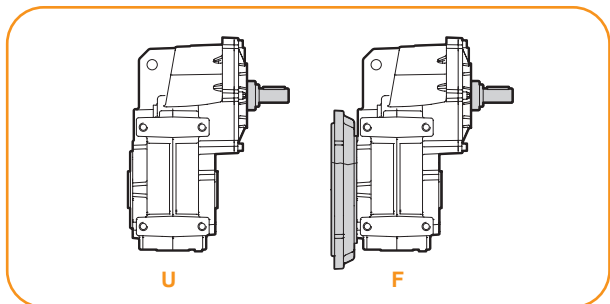


REDUCTOR / REDUTOR / GEARBOX

ATS	90	2	U	29.65	D35	90	B5	SZ
Tipo Tipo Type	Tamaño Tamanho Size	Etapas Estágios Stages	Versión Versão Version	Relación de reducción Rapporto Ratio	Eje de salida hueco Eixo saída vazado Hollow output shaft	IEC 	Forma constructiva Forma construtiva Version	Eje de salida Eixo de saída Output shaft
<b>ATS</b> 	<b>90</b> <b>91</b>	<b>2</b> <b>3</b>	<b>U...</b> <b>F...</b>	Véase tablas Veja tabelas see tables	Véase tablas Veja tabelas see tables	<b>63..</b> — <b>112..</b>	<b>B5</b> <b>B14</b>	<b>SZ</b>

Relación de reducción  
Versão Redutor  
Gearbox Version

Eje de salida  
Eixo de saída  
Output shaft



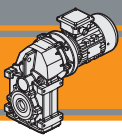
REDUCTOR / REDUTOR / GEARBOX

ATSIS	90	2	U	29.65	D35	SZ
Tipo Tipo Type	Tamaño Tamanho Size	Etapas Estágios Stages	Versión Versão Version	Relación de reducción Rapporto Ratio	Eje de salida hueco Eixo saída vazado Hollow output shaft	Eje de salida Eixo de saída Output shaft
<b>ATSIS</b> 	<b>90</b> <b>91</b>	<b>2</b> <b>3</b>	<b>U...</b> <b>F...</b>	Véase tablas Veja tabelas see tables	Véase tablas Veja tabelas see tables	<b>SZ</b>

MOTOR / MOTOR / MOTOR

0.75kW	4p	3ph	230/400V	60Hz	T1
Potencia Potência Power	Polos Pólos Poles	Fases Fases Phases	Tensión Tensão Voltage	Frecuencia Frequência Frequency	Posición caja de bornes Pos. Conexão Terminal box pos.
Véase tablas Veja tabelas see tables	<b>2p</b> <b>4p</b> <b>6p</b> <b>8p</b>	<b>1ph</b> <b>3ph</b>	<b>230V</b> <b>230/400V</b>	<b>60Hz</b>	<b>T1 (Std)</b> 

ATS

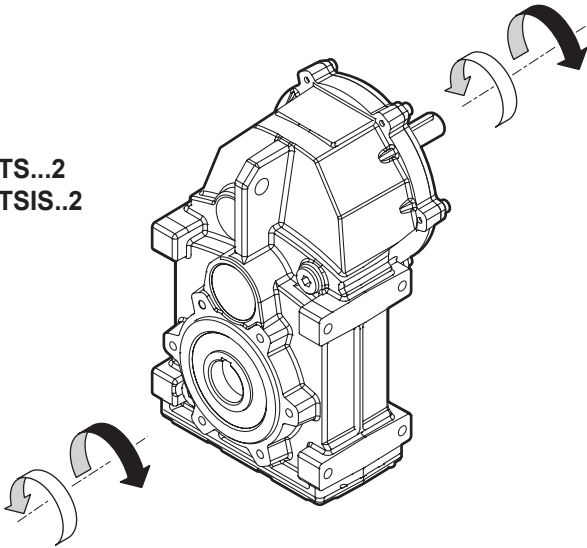


Sentidos de rotación

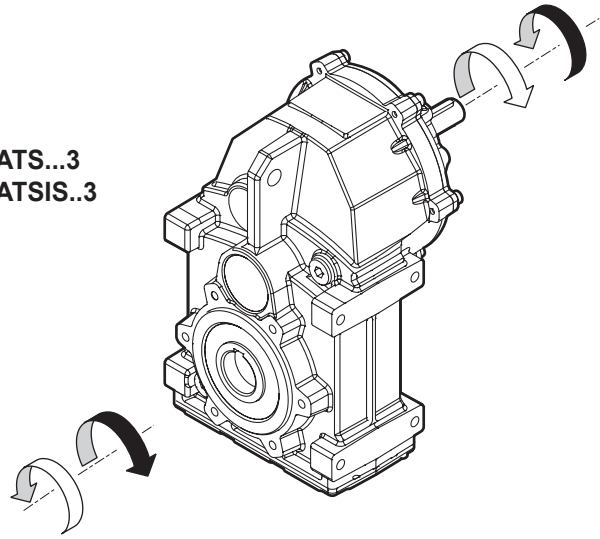
Sentidos de rotação

Direction of rotation

ATS...2  
 AT SIS..2



ATS...3  
 AT SIS..3



Nomenclatura

Simbologia

Legend

$n_1$	[rpm]	Velocidad de entrada / <i>Velocidade na entrada</i> / Input speed
$n_2$	[rpm]	Velocidad de salida / <i>Velocidade na saída</i> / Output speed
$i$		Relación de reducción / <i>Relação de redução</i> / Ratio
$P_1$	[kW]	Potencia en la entrada / <i>Potência da entrada</i> / Input power
$M_2$	[Nm]	Par en la salida en función de $P_1$ / <i>Torque na saída em função de <math>P_1</math></i> / Output torque referred to $P_1$
$P_{n1}$	[kW]	Potencia nominal en la entrada / <i>Potência nominal na entrada</i> / Nominal input power
$M_{n2}$	[Nm]	Par nominal en la salida en función de $P_{n1}$ / <i>Torque nominal na saída em função de <math>P_{n1}</math></i> / Nominal output torque referred to $P_{n1}$
$sf$		Factor de servicio / <i>Fator de serviço</i> / Service factor
$R_2$	[N]	Carga radial admisible en la salida / <i>Carga radial admissível na saída</i> / Maximum output radial load
$A_2$	[N]	Carga axial admisible en la salida / <i>Carga axial admissível na saída</i> / Maximum output axial load

Lubricación

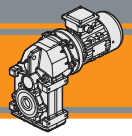
Lubrificação

Lubrication

Todos los motoreductores pendulares son previamente lubricados con aceite sintético con grado de viscosidad 320, por lo tanto, pueden ser instalados en cualquier posición de montaje y no requieren mantenimiento.

*Todos os motoredutores são fornecidos completos de lubrificante sintético de viscosidade 320, portanto, podem ser instalados em qualquer posição de montagem e não necessitam de manutenção.*

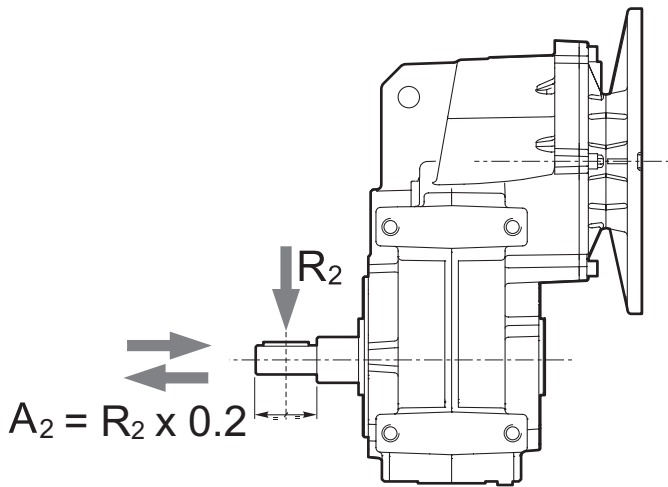
Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.



Cargas radiales

Cargas radiais

Radial loads

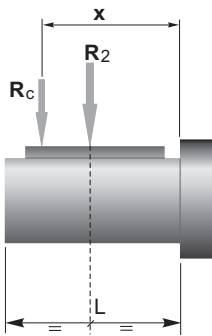


n <sub>2</sub> [min <sup>-1</sup> ]	R <sub>2</sub> [N]	
	ATS 902 ATS 903	ATS 912 ATS 913
240	2400	3600
180	2400	4200
150	2400	4200
120	2500	4600
100	2800	4800
85	3090	5100
70	3150	5250
55	3630	6000
40	4440	6900
30	5100	7800
20	6000	9500
15	6000	10000
10	6000	10000
5	6000	10000

Cuando la carga radial no se aplica en el punto medio del eje, es necesario calcular la carga efectiva a través la siguiente fórmula:

Quando a carga radial resultante não é aplicada na linha mediana da eixo, é preciso calcular aquela efetiva com a seguinte fórmula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:



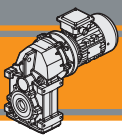
	ATS 902 ATS 903	ATS 912 ATS 913
a	152	174.5
b	97	114.5
R <sub>2MAX</sub>	6000	10000

$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valores dados en la tabla  
a, b = valores referidos na tabela  
a, b = values given in the table

ATS




**Datos técnicos**

**Dados técnicos**

**Technical data**

**$n_1$  1750 [min<sup>-1</sup>]**

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$
<b>ATSIS 902</b>				
	298	200	6.51	5.87
	222	250	6.06	7.87
	185	300	6.05	9.47
	152	350	5.79	11.53
	132	350	5.04	13.26
	112	350	4.26	15.68
	105	350	4.01	16.68
	92	400	4.00	19.09
	80	400	3.48	21.96
	66	400	2.88	26.50
	63	400	2.77	27.61
	59	400	2.58	29.65
	52	400	2.28	33.49
	49	400	2.13	35.87
	46	400	2.04	38.29
	40	400	1.78	43.88
	36	400	1.59	49.09
	33	350	1.29	52.71
	32	400	1.41	55.45
	28	400	1.23	63.41
	24	400	1.06	73.64
	20	400	0.89	87.27

IEC Motori applicabili IEC Motor adapters				
71 B5	80 B5/B14	90 B5/B14	100 B5/B14	112 B5/B14
B				
B				
B				
B				
B				
B				
B				
B				*
B				*
B				*
B			*	*
B			*	*
B			*	*
B			*	*
B			*	*
B			*	*
B			*	*
B			*	*
B		*	*	*
B		*	*	*
B		*	*	*


<b>ATSIS 903</b>				
	17	400	0.78	100.33
	14	400	0.62	125.89
	13	400	0.59	131.65
	13	400	0.56	139.88
	12	400	0.52	151.07
	11	400	0.47	166.13
	10	400	0.45	172.40
	8.4	400	0.37	208.45
	7.8	400	0.35	223.41
	7.0	400	0.31	250.14
	5.4	400	0.24	323.65
	5.1	400	0.23	345.59
	4.7	400	0.21	376.15
	4.1	400	0.18	424.21


63 B5	71 B5/B14	80 B5/B14	90 B5/B14
			*
		*	*
		*	*
		*	*
		*	*
		*	*
		*	*
		*	*
		*	*
	*	*	*
	*	*	*
	*	*	*
	*	*	*
	*	*	*


**NOTA**  
 Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.

**N.B.**  
 As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.

**N.B.**  
 Highlighted areas indicate motor inputs available on each size of unit.

 \* = El Factor de servicio (sf) se deberá seleccionar con respecto a la aplicación: Favor de contactar con nuestro Servicio Técnico

 \* = O fator de serviço (sf) deve ser escolhido em função da aplicação: entre em contato com o nosso Serviço Técnico.

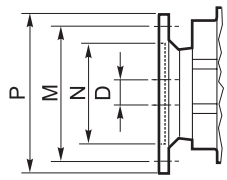
 \* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

Antes de seleccionar cualquier reductor, favor de revisar los valores de desempeño en las páginas F8 a la F11.

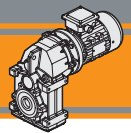
Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas F8 a pag. F11.


Before selecting any gearbox, please read the performance values shown in the tables on page on page F8 to F11.

Dimensioni IEC / IEC Dimensions									
	63 B5	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14	100/112 B5	100/112 B14
<b>N</b>	95	110	70	130	80	130	95	180	110
<b>M</b>	115	130	85	165	100	165	115	215	130
<b>P</b>	140	160	105	200	120	200	140	250	160
<b>D</b>	11	14		19		24		28	






**Datos técnicos**
**Dados técnicos**
**Technical data**
 **$n_1$  1750 [min<sup>-1</sup>]**

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$
<b>ATSIS 912</b>				
	306	350	11.69	5.71
	228	350	8.72	7.66
	198	400	8.63	8.85
	190	400	8.28	9.22
	156	400	6.80	11.23
	147	400	6.43	11.87
	135	500	7.39	12.92
	122	500	6.68	14.29
	108	500	5.88	16.24
	101	500	5.49	17.39
	87	600	5.72	20.01
	83	600	5.43	21.10
	70	600	4.55	25.16
	68	600	4.44	25.81
	61	600	4.05	28.88
	54	600	3.58	32.69
	47	520	2.72	37.30
	44	600	2.93	39.98
	39	600	2.62	44.73
	35	600	2.31	50.53
	30	600	2.02	57.77
	26	600	1.74	67.09
	22	520	1.27	79.52

IEC Motores aplicables IEC Motores aplicáveis IEC Motor adapters				
71 B5	80 B5/B14	90 B5/B14	100 B5/B14	112 B5/B14
B				
B				
B				
B				
B				
B				
B				
B				
B				
B				
B				
B				
B				
B				
B				*
B				*
B				*
B				*
B			*	*
B			*	*
B			*	*
B			*	*

**ATSIS913**

21	600	1.42	82.28
19	600	1.24	93.96
17	600	1.15	101.41
14	600	0.95	122.61
13	600	0.89	131.41
12	600	0.79	147.13
11	600	0.74	157.08
9.2	600	0.62	189.92
8.6	600	0.57	203.55
7.7	600	0.51	227.91
5.9	600	0.40	294.88
5.6	600	0.37	314.87
5.1	600	0.34	342.72
4.5	600	0.30	386.51

63 B5	71 B5/B14	80 B5/B14	90 B5/B14
			*
			*
			*
			*
			*
			*
		*	*
		*	*
		*	*
		*	*
		*	*
		*	*
		*	*

**NOTA**

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.



\* = El Factor de servicio (sf) se deberá seleccionar con respecto a la aplicación: Favor de contactar con nuestro Servicio Técnico

Antes de seleccionar cualquier reductor, favor de revisar los valores de desempeño en las páginas F8 a la F11.

**N.B.**

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.



\* = O fator de serviço (sf) deve ser escolhido em função da aplicação: entre em contato com o nosso Serviço Técnico.

Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas F8 a pag. F11.

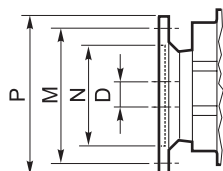
**N.B.**

Highlighted areas indicate motor inputs available on each size of unit.

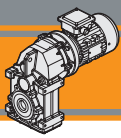


\* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

Before selecting any gearbox, please read the performance values shown in the tables on page on page F8 to F11.







Dimensioni IEC / IEC Dimensions									
	63 B5	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14	100/112 B5	100/112 B14
<b>N</b>	95	110	70	130	80	130	95	180	110
<b>M</b>	115	130	85	165	100	165	115	215	130
<b>P</b>	140	160	105	200	120	200	140	250	160
<b>D</b>	11	14		19		24		28	



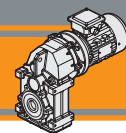
**Datos técnicos**

**Dados técnicos**

**Technical data**

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i				
<b>0.12</b>							<b>0.25</b>								
(0.16 hp)	17	62	6.5	100.33	ATS903	B5	(0.33 hp)	17	129	3.1	100.33	ATS903	B5		
	14	77	5.2	125.89			B5		14	161	2.5			125.89	B5
63A4	13	81	4.9	131.65			B5	63C4	13	169	2.4			131.65	B5
(1750 min <sup>-1</sup> )	13	86	4.6	139.88			B5	(1750 min <sup>-1</sup> )	13	179	2.2			139.88	B5
	12	93	4.3	151.07			B5		12	194	2.1			151.07	B5
	11	102	3.9	166.13			B5		11	213	1.9			166.13	B5
	10	106	3.8	172.40			B5		10	221	1.8			172.40	B5
	8.4	128	3.1	208.45			B5		8.4	267	1.5			208.45	B5
	7.8	138	2.9	223.41			B5		7.8	287	1.4			223.41	B5
	7.0	154	2.6	250.14			B5		7.0	321	1.2			250.14	B5
	5.4	199	2.0	323.65			B5		5.4	415	1.0			323.65	B5
	5.1	213	1.9	345.59			B5		5.1	443	0.9			345.59	B5
	4.7	232	1.7	376.15			B5								
	4.1	261	1.5	424.21			B5								
	7.7	140	4.3	227.91	ATS913	B5		11	201	3.0	157.08	ATS913	B5/B14		
	5.9	182	3.3	294.88			B5		9.2	244	2.5			189.92	B5/B14
	5.6	194	3.1	314.87			B5		8.6	261	2.3			203.55	B5/B14
	5.1	211	2.8	342.72			B5		7.7	292	2.1			227.91	B5/B14
	4.5	238	2.5	386.51			B5		5.9	378	1.6			294.88	B5/B14
							B5		5.6	404	1.5			314.87	B5/B14
							B5		5.1	440	1.4			342.72	B5/B14
							B5		4.5	496	1.2			386.51	B5/B14





<b>0.18</b>							<b>0.37</b>								
(0.25 hp)	17	93	4.3	100.33	ATS903	B5	(0.50 hp)	298	11	17.6	5.87	ATS902	B5		
	14	116	3.4	125.89			B5		222	15	16.4			7.87	B5
63B4	13	122	3.3	131.65			B5	71A4	185	18	16.3			9.47	B5
(1750 min <sup>-1</sup> )	13	129	3.1	139.88			B5	(1750 min <sup>-1</sup> )	152	22	15.7			11.53	B5
	12	139	2.9	151.07			B5		132	26	13.6			13.26	B5
	11	153	2.6	166.13			B5		112	30	11.5			15.68	B5
	10	159	2.5	172.40			B5		105	32	10.8			16.68	B5
	8.4	192	2.1	208.45			B5		92	37	10.8			19.09	B5
	7.8	206	1.9	223.41			B5		80	43	9.4			21.96	B5
	7.0	231	1.7	250.14			B5		66	51	7.8			26.50	B5
	5.4	299	1.3	323.65			B5		63	54	7.5			27.61	B5
	5.1	319	1.3	345.59			B5		59	57	7.0			29.65	B5
	4.7	347	1.2	376.15			B5		52	65	6.2			33.49	B5
	4.1	392	1.0	424.21			B5		49	70	5.8			35.87	B5
	9.2	175	3.4	189.92	ATS913	B5		46	73	5.5	38.29	B5			
	8.6	188	3.2	203.55			B5		40	83	4.8	43.88	B5		
	7.7	210	2.9	227.91			B5		36	93	4.3	49.09	B5		
	5.9	272	2.2	294.88			B5		33	100	3.5	52.71	B5		
	5.6	291	2.1	314.87			B5		32	105	3.8	55.45	B5		
	5.1	316	1.9	342.72			B5		28	120	3.3	63.41	B5		
	4.5	357	1.7	386.51			B5		24	140	2.9	73.64	B5		
							B5		20	166	2.4	87.27	B5		

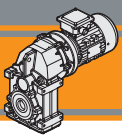






## Datos técnicos

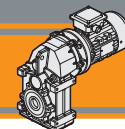
## Dados técnicos





## Technical data

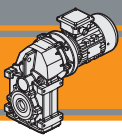
P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i				
<b>0.37</b>							<b>0.55</b>								
(0.50 hp)	<b>17</b>	190	2.1	100.33	<b>ATS903</b>	<b>B5/B14</b>	(0.75 hp)	<b>21</b>	232	2.6	82.28	<b>ATS913</b>	<b>B5/B14</b>		
	<b>14</b>	239	1.7	125.89				<b>19</b>	265	2.3	93.96				<b>B5/B14</b>
71A4	<b>13</b>	250	1.6	131.65				<b>17</b>	286	2.1	101.41				<b>B5/B14</b>
(1750 min <sup>-1</sup> )	<b>13</b>	265	1.5	139.88				<b>14</b>	346	1.7	122.61				<b>B5/B14</b>
	<b>12</b>	287	1.4	151.07				<b>13</b>	371	1.6	131.41				<b>B5/B14</b>
	<b>11</b>	315	1.3	166.13				<b>12</b>	415	1.4	147.13				<b>B5/B14</b>
	<b>10</b>	327	1.2	172.40				<b>11</b>	443	1.4	157.08				<b>B5/B14</b>
	<b>8.4</b>	396	1.0	208.45				<b>9.2</b>	536	1.1	189.92				<b>B5/B14</b>
	<b>7.8</b>	424	0.9	223.41				<b>8.6</b>	574	1.0	203.55				<b>B5/B14</b>
	<b>21</b>	156	3.8	82.28			<b>ATS913</b>	<b>B5/B14</b>		<b>7.7</b>	643			0.9	227.91
	<b>19</b>	178	3.4	93.96		<b>298</b>			23	8.7	5.87	<b>ATS902</b>	<b>B5/B14</b>		
	<b>17</b>	192	3.1	101.41		<b>222</b>			31	8.1	7.87				<b>B5/B14</b>
	<b>14</b>	233	2.6	122.61		<b>185</b>			37	8.1	9.47				<b>B5/B14</b>
	<b>13</b>	249	2.4	131.41		<b>152</b>			45	7.7	11.53				<b>B5/B14</b>
	<b>12</b>	279	2.1	147.13		<b>132</b>			52	6.7	13.26				<b>B5/B14</b>
	<b>11</b>	298	2.0	157.08		<b>112</b>			62	5.7	15.68				<b>B5/B14</b>
	<b>9.2</b>	360	1.7	189.92		<b>105</b>			66	5.3	16.68				<b>B5/B14</b>
	<b>8.6</b>	386	1.6	203.55		<b>92</b>			75	5.3	19.09				<b>B5/B14</b>
	<b>7.7</b>	433	1.4	227.91		<b>80</b>			86	4.6	21.96				<b>B5/B14</b>
	<b>5.9</b>	560	1.1	294.88		<b>66</b>	104	3.8	26.50		<b>B5/B14</b>				
	<b>5.6</b>	598	1.0	314.87		<b>63</b>	108	3.7	27.61		<b>B5/B14</b>				
	<b>5.1</b>	650	0.9	342.72		<b>59</b>	116	3.4	29.65		<b>B5/B14</b>				
						<b>52</b>	132	3.0	33.49		<b>B5/B14</b>				
						<b>49</b>	141	2.8	35.87		<b>B5/B14</b>				
						<b>46</b>	147	2.7	38.29		<b>B5/B14</b>				
						<b>40</b>	169	2.4	43.88		<b>B5/B14</b>				
						<b>36</b>	189	2.1	49.09		<b>B5/B14</b>				
						<b>33</b>	203	1.7	52.71		<b>B5/B14</b>				
						<b>32</b>	213	1.9	55.45		<b>B5/B14</b>				
						<b>28</b>	244	1.6	63.41		<b>B5/B14</b>				
						<b>24</b>	283	1.4	73.64		<b>B5/B14</b>				
						<b>20</b>	336	1.2	87.27		<b>B5/B14</b>				
						<b>17</b>	386	1.0	100.33	<b>ATS903</b>	<b>B5/B14</b>				
						<b>47</b>	143	3.6	37.30	<b>ATS912</b>	<b>B5/B14</b>				
						<b>44</b>	154	3.9	39.98				<b>B5/B14</b>		
						<b>39</b>	172	3.5	44.73				<b>B5/B14</b>		
						<b>35</b>	194	3.1	50.53				<b>B5/B14</b>		
						<b>30</b>	222	2.7	57.77				<b>B5/B14</b>		
						<b>26</b>	258	2.3	67.09				<b>B5/B14</b>		
						<b>22</b>	306	1.7	79.52				<b>B5/B14</b>		
						<b>21</b>	317	1.9	82.28			<b>ATS913</b>	<b>B5/B14</b>		
						<b>19</b>	361	1.7	93.96						<b>B5/B14</b>
						<b>17</b>	390	1.5	101.41						<b>B5/B14</b>
						<b>14</b>	472	1.3	122.61		<b>B5/B14</b>				
						<b>13</b>	506	1.2	131.41		<b>B5/B14</b>				
						<b>12</b>	566	1.1	147.13		<b>B5/B14</b>				
						<b>11</b>	604	1.0	157.08		<b>B5/B14</b>				
						<b>35</b>	143	4.2	50.53	<b>ATS912</b>	<b>B5</b>				
						<b>30</b>	163	3.7	57.77						<b>B5</b>
						<b>26</b>	189	3.2	67.09						<b>B5</b>
						<b>22</b>	224	2.3	79.52				<b>B5</b>		
						<b>17</b>	283	1.4	100.33			<b>ATS903</b>	<b>B5/B14</b>		
						<b>14</b>	355	1.1	125.89						<b>B5/B14</b>
						<b>13</b>	371	1.1	131.65		<b>B5/B14</b>				
						<b>13</b>	395	1.0	139.88		<b>B5/B14</b>				
						<b>12</b>	426	0.9	151.07		<b>B5/B14</b>				
						<b>11</b>	469	0.9	166.13		<b>B5/B14</b>				

**ATS****Motorreductores pendulares**  
**Motoredutores de eixos paralelos**  
**Helical parallel gearmotors****60 Hz****Datos técnicos****Dados técnicos****Technical data**

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i					
<b>1.1</b>							<b>1.5</b>									
(1.5 hp)	<b>298</b>	34	5.9	5.87	<b>ATS902</b>	<b>B5/B14</b>	(2.0 hp)	<b>101</b>	137	3.7	17.39	<b>ATS912</b>	<b>B5/B14</b>			
	<b>222</b>	45	5.5	7.87			<b>B5/B14</b>		<b>87</b>	157	3.8			20.01	<b>B5/B14</b>	
80B4	<b>185</b>	55	5.5	9.47			<b>B5/B14</b>		<b>83</b>	166	3.6			21.10	<b>B5/B14</b>	
(1750 min <sup>-1</sup> )	<b>152</b>	66	5.3	11.53			<b>B5/B14</b>		<b>70</b>	198	3.0			25.16	<b>B5/B14</b>	
	<b>132</b>	76	4.6	13.26			<b>B5/B14</b>		<b>68</b>	203	3.0			25.81	<b>B5/B14</b>	
	<b>112</b>	90	3.9	15.68			<b>B5/B14</b>		<b>61</b>	222	2.7			28.88	<b>B5/B14</b>	
	<b>105</b>	96	3.6	16.68			<b>B5/B14</b>		<b>54</b>	251	2.4			32.69	<b>B5/B14</b>	
	<b>92</b>	110	3.6	19.09			<b>B5/B14</b>		<b>47</b>	287	1.8			37.30	<b>B5/B14</b>	
	<b>80</b>	127	3.2	21.96			<b>B5/B14</b>		<b>44</b>	308	2.0			39.98	<b>B5/B14</b>	
	<b>66</b>	153	2.6	26.50			<b>B5/B14</b>		<b>39</b>	344	1.7			44.73	<b>B5/B14</b>	
	<b>63</b>	159	2.5	27.61			<b>B5/B14</b>		<b>35</b>	389	1.5			50.53	<b>B5/B14</b>	
	<b>59</b>	171	2.3	29.65			<b>B5/B14</b>		<b>30</b>	445	1.3			57.77	<b>B5/B14</b>	
	<b>52</b>	193	2.1	33.49			<b>B5/B14</b>		<b>26</b>	516	1.2			67.09	<b>B5/B14</b>	
	<b>49</b>	207	1.9	35.87			<b>B5/B14</b>									
	<b>46</b>	216	1.9	38.29			<b>B5/B14</b>		<b>21</b>	633	0.9			82.28	<b>ATS913</b>	<b>B5/B14</b>
	<b>40</b>	248	1.6	43.88			<b>B5/B14</b>									
	<b>36</b>	277	1.4	49.09			<b>B5/B14</b>									
	<b>32</b>	313	1.3	55.45			<b>B5/B14</b>									
	<b>28</b>	358	1.1	63.41			<b>B5/B14</b>									
	<b>24</b>	416	1.0	73.64	<b>B5/B14</b>											
	<b>61</b>	163	3.7	28.88	<b>ATS912</b>	<b>B5/B14</b>	<b>2.2</b>									
	<b>54</b>	184	3.3	32.69				(3.0 hp)	<b>298</b>	68	3.0	5.87	<b>ATS902</b>	<b>B5/B14</b>		
	<b>47</b>	210	2.5	37.30					<b>222</b>	91	2.8	7.87			<b>B5/B14</b>	
	<b>44</b>	226	2.7	39.98					<b>185</b>	109	2.7	9.47			<b>B5/B14</b>	
	<b>39</b>	252	2.4	44.73					<b>152</b>	133	2.6	11.53			<b>B5/B14</b>	
	<b>35</b>	285	2.1	50.53					<b>132</b>	153	2.3	13.26			<b>B5/B14</b>	
	<b>30</b>	326	1.8	57.77					<b>112</b>	181	1.9	15.68			<b>B5/B14</b>	
	<b>26</b>	379	1.6	67.09					<b>105</b>	192	1.8	16.68			<b>B5/B14</b>	
									<b>92</b>	220	1.8	19.09			<b>B5/B14</b>	
									<b>80</b>	253	1.6	21.96			<b>B5/B14</b>	
							<b>66</b>	305	1.3	26.50	<b>B5/B14</b>					
							<b>63</b>	318	1.3	27.61	<b>B5/B14</b>					
							<b>59</b>	342	1.2	29.65	<b>B5/B14</b>					
	<b>21</b>	464	1.3	82.28	<b>ATS913</b>	<b>B5/B14</b>	<b>52</b>	386	1.0	33.49	<b>B5/B14</b>					
	<b>19</b>	530	1.1	93.96				<b>49</b>	413	1.0	35.87	<b>B5/B14</b>				
	<b>17</b>	572	1.0	101.41												
	<b>14</b>	692	0.9	122.61												
							<b>306</b>	66	5.3	5.71	<b>ATS912</b>	<b>B5/B14</b>				
							<b>228</b>	88	4.0	7.66			<b>B5/B14</b>			
							<b>198</b>	102	3.9	8.85			<b>B5/B14</b>			
							<b>190</b>	106	3.8	9.22			<b>B5/B14</b>			
							<b>156</b>	129	3.1	11.23			<b>B5/B14</b>			
							<b>147</b>	137	2.9	11.87			<b>B5/B14</b>			
							<b>135</b>	149	3.4	12.92			<b>B5/B14</b>			
							<b>122</b>	165	3.0	14.29			<b>B5/B14</b>			
							<b>108</b>	187	2.7	16.24			<b>B5/B14</b>			
							<b>101</b>	200	2.5	17.39			<b>B5/B14</b>			
							<b>87</b>	231	2.6	20.01			<b>B5/B14</b>			
							<b>83</b>	243	2.5	21.10			<b>B5/B14</b>			
							<b>70</b>	290	2.1	25.16			<b>B5/B14</b>			
							<b>68</b>	298	2.0	25.81			<b>B5/B14</b>			
							<b>61</b>	326	1.8	28.88			<b>B5/B14</b>			
							<b>54</b>	369	1.6	32.69			<b>B5/B14</b>			
							<b>44</b>	451	1.3	39.98			<b>B5/B14</b>			
							<b>39</b>	505	1.2	44.73	<b>B5/B14</b>					
							<b>35</b>	570	1.1	50.53	<b>B5/B14</b>					


**Datos técnicos**
**Dados técnicos**
**Technical data**

$P_1$ [kW]	$n_2$ [min <sup>-1</sup> ]	$M_2$ [Nm]	sf	i			$P_1$ [kW]	$n_2$ [min <sup>-1</sup> ]	$M_2$ [Nm]	sf	i						
<b>3.0</b>							<b>4.5</b>										
<b>(4.0 hp)</b>	<b>298</b>	92	2.2	5.87	<b>ATS902</b>	<b>B5/B14</b>	<b>(6.0 hp)</b>	<b>298</b>	138	1.4	5.87	<b>ATS902</b>	<b>B5/B14</b>				
	<b>222</b>	124	2.0	7.87				<b>222</b>	186	1.3	7.87				<b>B5/B14</b>		
100LA4	<b>185</b>	149	2.0	9.47				<b>185</b>	223	1.3	9.47				<b>B5/B14</b>		
(1750 min <sup>-1</sup> )	<b>152</b>	181	1.9	11.53				112MA4	<b>152</b>	272	1.3			11.53	<b>B5/B14</b>		
	<b>132</b>	208	1.7	13.26				(1750 min <sup>-1</sup> )	<b>132</b>	313	1.1			13.26	<b>B5/B14</b>		
	<b>112</b>	246	1.4	15.68					<b>112</b>	370	0.9			15.68	<b>B5/B14</b>		
	<b>105</b>	262	1.3	16.68					<b>105</b>	393	0.9			16.68	<b>B5/B14</b>		
	<b>92</b>	300	1.3	19.09					<b>92</b>	450	0.9			19.09	<b>B5/B14</b>		
	<b>80</b>	345	1.2	21.96											<b>B5/B14</b>		
	<b>66</b>	417	1.0	26.50					<b>306</b>	135	2.6			5.71	<b>ATS912</b>	<b>B5/B14</b>	
	<b>63</b>	434	0.9	27.61					<b>228</b>	181	1.9			7.66		<b>B5/B14</b>	
	<b>306</b>	90	3.9	5.71			<b>ATS912</b>	<b>B5/B14</b>	<b>198</b>	209	1.9			8.85		<b>B5/B14</b>	
	<b>228</b>	120	2.9	7.66						<b>190</b>	217			1.8		9.22	<b>B5/B14</b>
	<b>198</b>	139	2.9	8.85						<b>156</b>	265			1.5		11.23	<b>B5/B14</b>
	<b>190</b>	145	2.8	9.22		<b>147</b>			280	1.4	11.87	<b>B5/B14</b>					
	<b>156</b>	176	2.3	11.23		<b>135</b>			305	1.6	12.92	<b>B5/B14</b>					
	<b>147</b>	187	2.1	11.87		<b>122</b>			337	1.5	14.29	<b>B5/B14</b>					
	<b>135</b>	203	2.5	12.92		<b>108</b>			383	1.3	16.24	<b>B5/B14</b>					
	<b>122</b>	225	2.2	14.29		<b>101</b>			410	1.2	17.39	<b>B5/B14</b>					
	<b>108</b>	255	2.0	16.24		<b>87</b>			472	1.3	20.01	<b>B5/B14</b>					
	<b>101</b>	273	1.8	17.39		<b>83</b>			497	1.2	21.10	<b>B5/B14</b>					
	<b>87</b>	314	1.9	20.01		<b>70</b>			593	1.0	25.16	<b>B5/B14</b>					
	<b>83</b>	332	1.8	21.10		<b>68</b>			609	1.0	25.81	<b>B5/B14</b>					
	<b>70</b>	395	1.5	25.16									<b>B5/B14</b>				
	<b>68</b>	406	1.5	25.81									<b>B5/B14</b>				
	<b>61</b>	444	1.4	28.88							<b>B5/B14</b>						
	<b>54</b>	503	1.2	32.69							<b>B5/B14</b>						
	<b>44</b>	615	1.0	39.98							<b>B5/B14</b>						
	<b>39</b>	688	0.9	44.73							<b>B5/B14</b>						
<b>3.7</b>							<b>5.5</b>										
<b>(5.0 hp)</b>	<b>298</b>	114	1.8	5.87	<b>ATS902</b>	<b>B5/B14</b>	<b>(7.5 hp)</b>	<b>298</b>	169	1.2	5.87	<b>ATS902</b>	<b>B5/B14</b>				
	<b>222</b>	153	1.6	7.87				<b>222</b>	227	1.1	7.87				<b>B5/B14</b>		
100LB4	<b>185</b>	184	1.6	9.47				<b>185</b>	273	1.1	9.47				<b>B5/B14</b>		
(1750 min <sup>-1</sup> )	<b>152</b>	223	1.6	11.53				<b>152</b>	332	1.1	11.53				<b>B5/B14</b>		
	<b>132</b>	257	1.4	13.26				112MB4	<b>132</b>	382	0.9			13.26	<b>B5/B14</b>		
	<b>112</b>	304	1.2	15.68				(1750 min <sup>-1</sup> )							<b>B5/B14</b>		
	<b>105</b>	323	1.1	16.68					<b>306</b>	165	2.1			5.71	<b>ATS912</b>	<b>B5/B14</b>	
	<b>92</b>	370	1.1	19.09					<b>228</b>	221	1.6			7.66		<b>B5/B14</b>	
	<b>80</b>	426	0.9	21.96					<b>198</b>	255	1.6			8.85		<b>B5/B14</b>	
	<b>306</b>	111	3.2	5.71			<b>ATS912</b>	<b>B5/B14</b>	<b>190</b>	266	1.5			9.22		<b>B5/B14</b>	
	<b>228</b>	149	2.4	7.66						<b>156</b>	324			1.2		11.23	<b>B5/B14</b>
	<b>198</b>	172	2.3	8.85						<b>147</b>	342			1.2		11.87	<b>B5/B14</b>
	<b>190</b>	179	2.2	9.22						<b>135</b>	372			1.3		12.92	<b>B5/B14</b>
	<b>156</b>	218	1.8	11.23						<b>122</b>	412			1.2		14.29	<b>B5/B14</b>
	<b>147</b>	230	1.7	11.87		<b>108</b>			468	1.1	16.24	<b>B5/B14</b>					
	<b>135</b>	250	2.0	12.92		<b>101</b>			501	1.0	17.39	<b>B5/B14</b>					
	<b>122</b>	277	1.8	14.29		<b>87</b>			577	1.0	20.01	<b>B5/B14</b>					
	<b>108</b>	315	1.6	16.24		<b>83</b>			608	1.0	21.10	<b>B5/B14</b>					
	<b>101</b>	337	1.5	17.39									<b>B5/B14</b>				
	<b>87</b>	388	1.5	20.01									<b>B5/B14</b>				
	<b>83</b>	409	1.5	21.10									<b>B5/B14</b>				
	<b>70</b>	488	1.2	25.16									<b>B5/B14</b>				
	<b>68</b>	500	1.2	25.81									<b>B5/B14</b>				
	<b>61</b>	548	1.1	28.88							<b>B5/B14</b>						
	<b>54</b>	620	1.0	32.69							<b>B5/B14</b>						



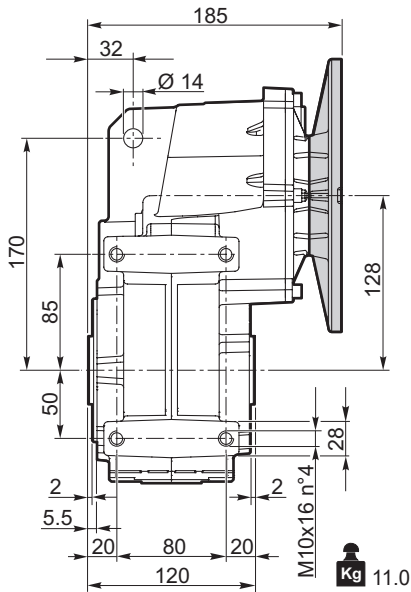
**Dimensiones**

**Dimensões**

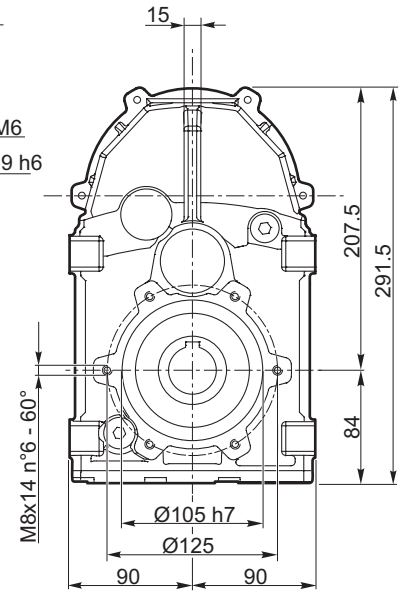
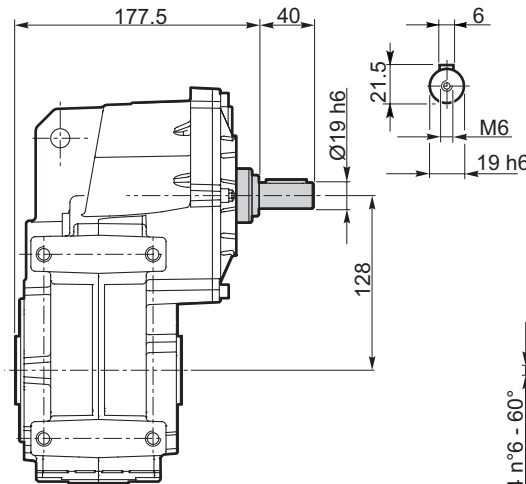
**Dimensions**

**ATS 902**

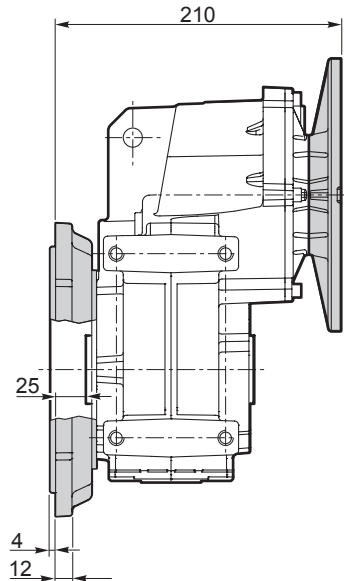
**ATS 902 U..**



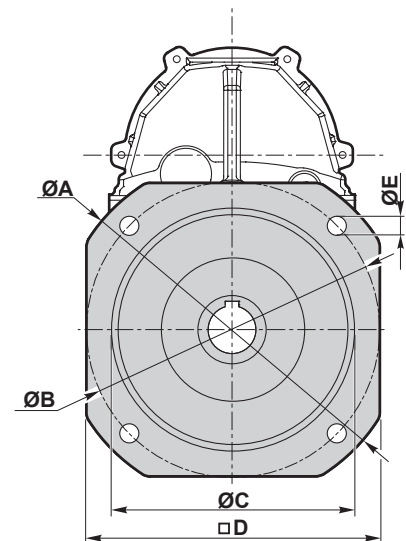
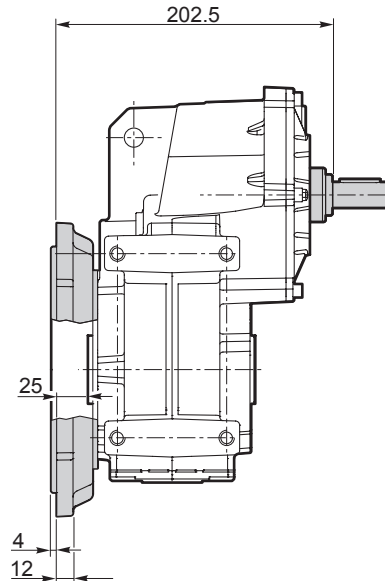
**ATSIS 902 U..**



**ATS 902 F..**



**ATSIS 902 F..**

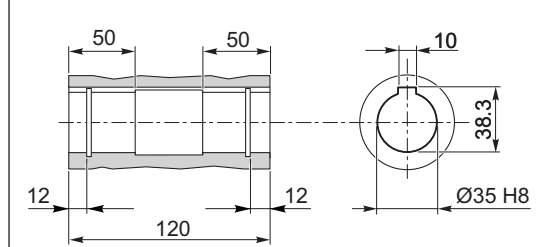
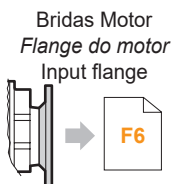


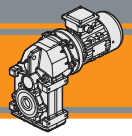
**Versión F / Versão F / F Version**

ATS ATSIS	ØA	ØB	ØC f7	□D	ØE	Brida / Flange / Flange	
						Tipo / Tipo / Type	Peso / Peso / Weight [kg]
<b>902</b>	200	165	130	165	11	<b>F200</b>	2
	250	215	180	215	14	<b>F250</b>	3.2

**ATS 902.. D35 - ATSIS 902.. D35**

Eje de salida hueco / Eixo saída vazado / Hollow output shaft





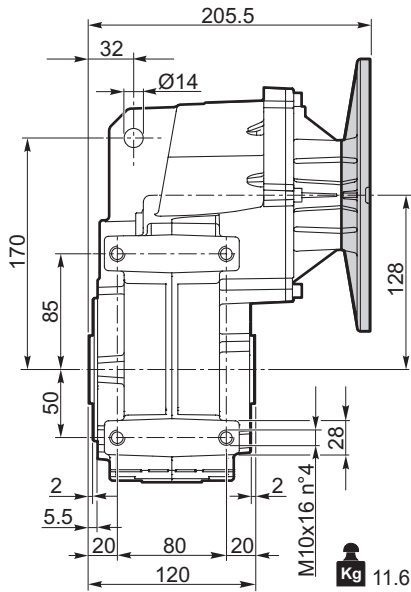
Dimensiones

Dimensões

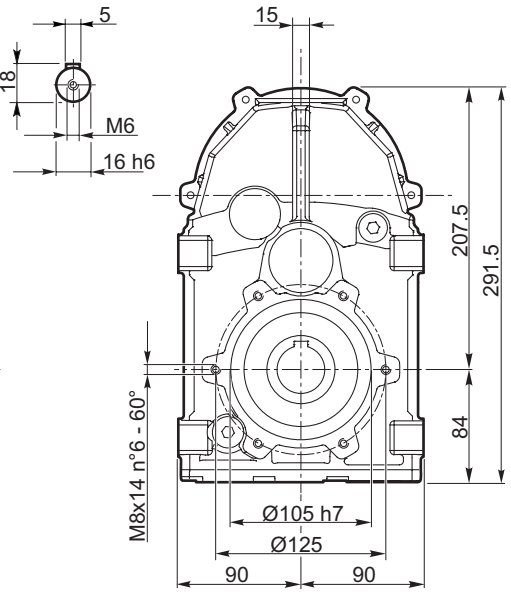
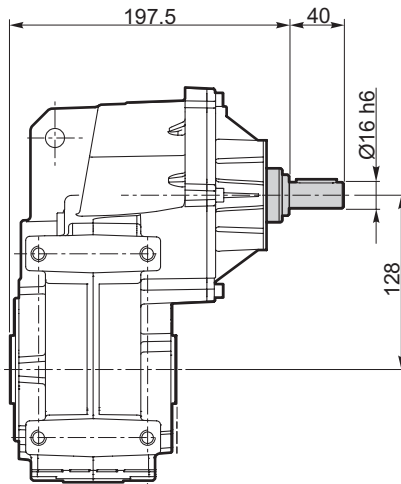
Dimensions

ATS 903

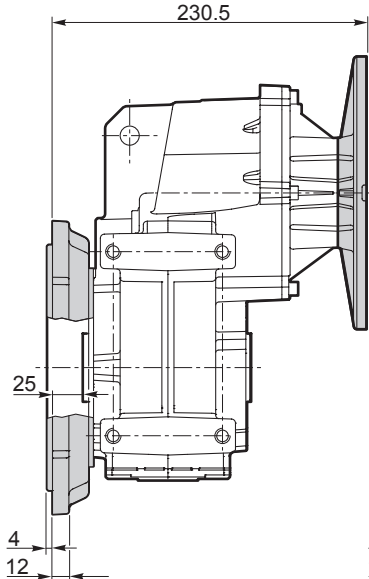
ATS 903 U..



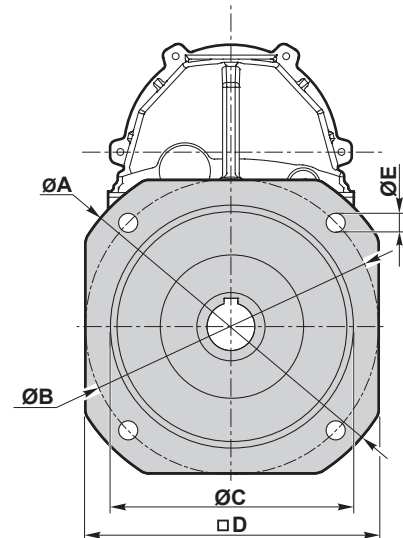
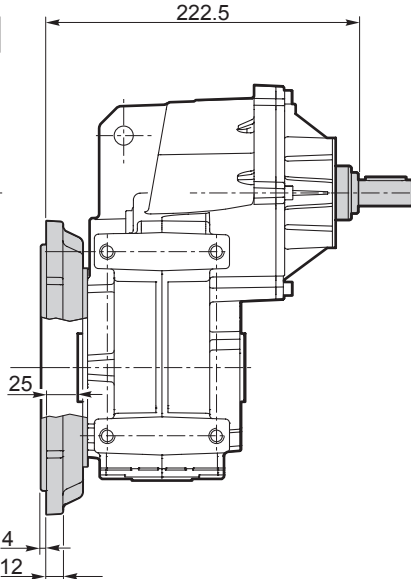
ATSIS 903 U..



ATS 903 F..



ATSIS 903 F..



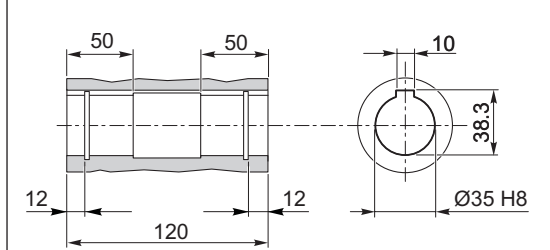
Versión F / Versão F / F Version

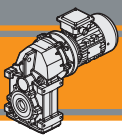
ATS ATSIS	ØA	ØB	ØC f7	□D	ØE	Brida / Flange / Flange	
						Tipo / Tipo / Type	Peso / Peso / Weight [kg]
903	200	165	130	165	11	F200	2
	250	215	180	215	14	F250	3.2

ATS 903.. D35 - ATSIS 903.. D35

Eje de salida hueco / Eixo saída vazado / Hollow output shaft

Bridas Motor  
Flange do motor  
Input flange





**ATS**

Motorreductores pendulares  
 Motores de eixos paralelos  
 Helical parallel gearmotors

60 Hz

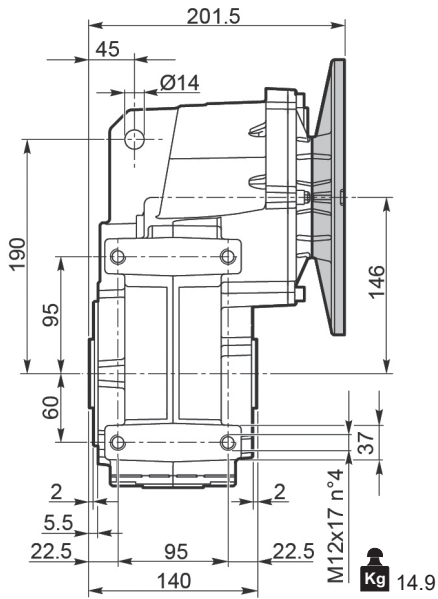
Dimensiones

Dimensões

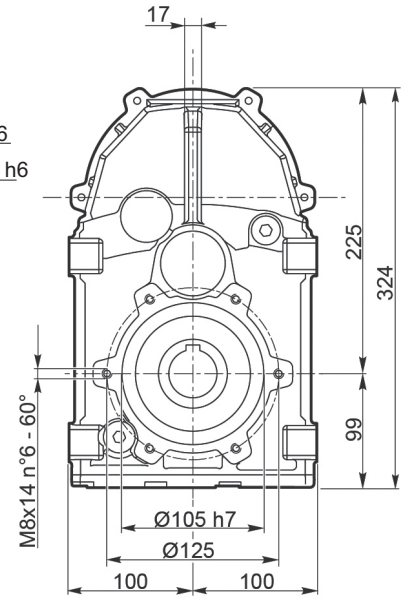
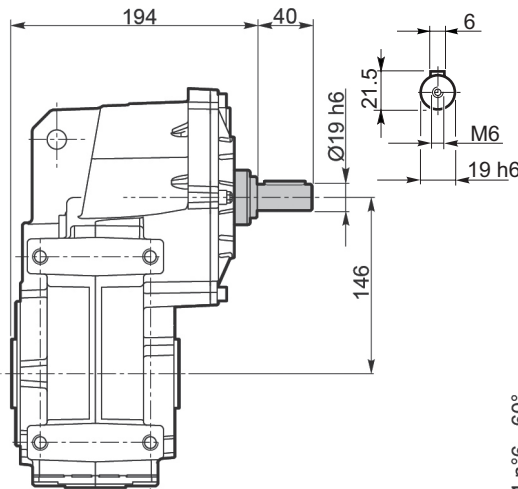
Dimensions

**ATS 912**

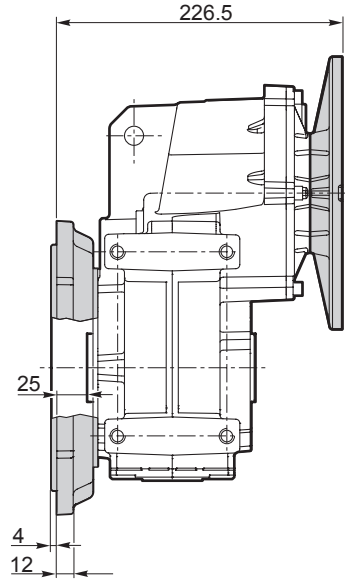
**ATS 912 U..**



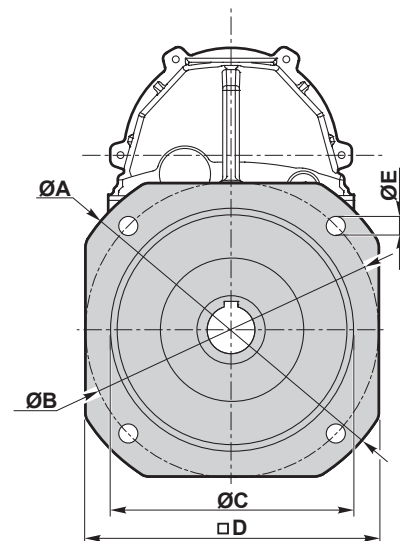
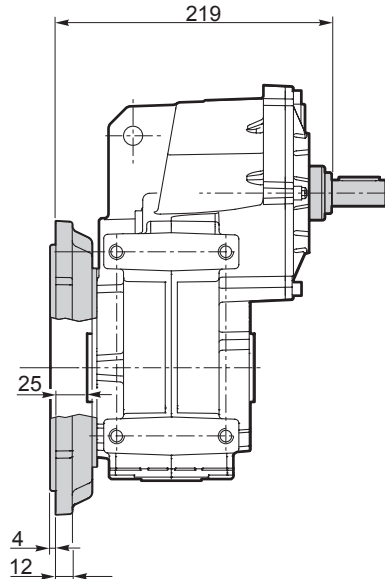
**ATSIS 912 U..**



**ATS 912 F..**



**ATSIS 912 F..**

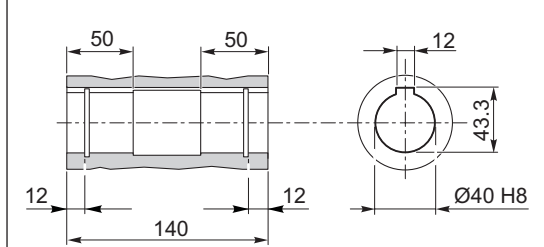
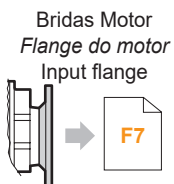


Versión F / Versão F / F Version

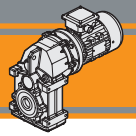
ATS ATSIS	ØA	ØB	ØC f7	□D	ØE	Brida / Flange / Flange	
						Tipo / Tipo / Type	Peso / Peso / Weight [kg]
912	200	165	130	165	11	F200	2
	250	215	180	215	14	F250	3.2

**ATS 912.. D40 - ATSIS 912.. D40**

Eje de salida hueco / Eixo saída vazado / Hollow output shaft







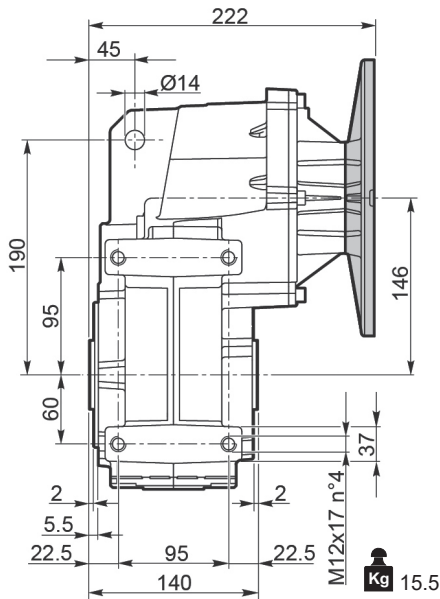
Dimensiones

Dimensões

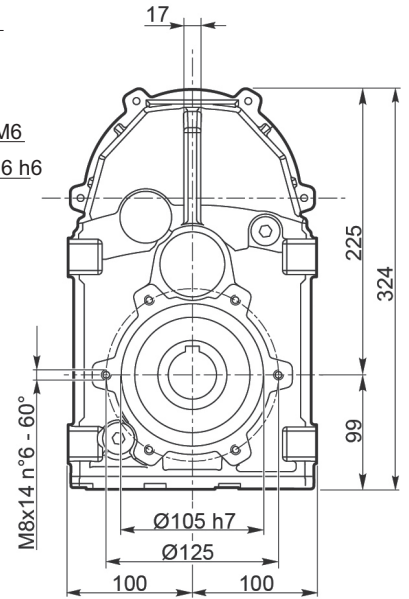
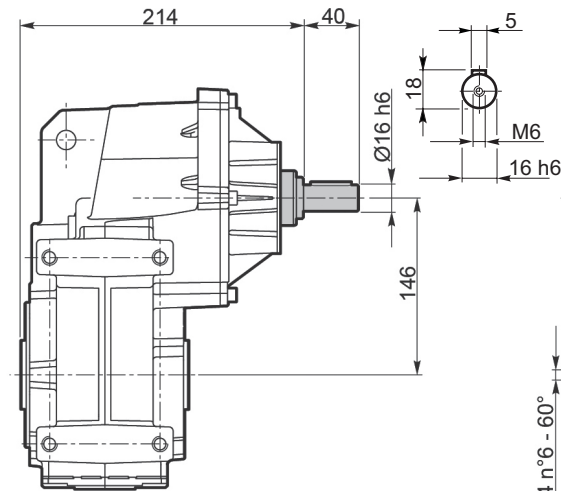
Dimensions

ATS 913

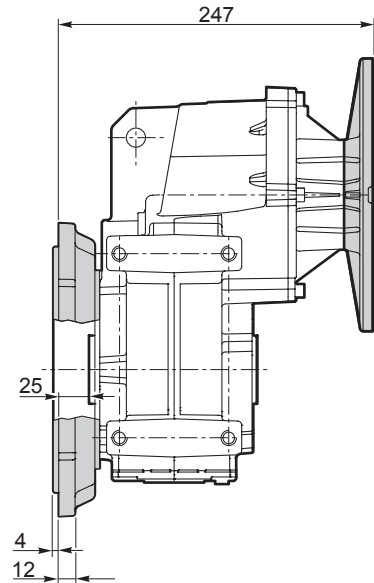
ATS 913 U..



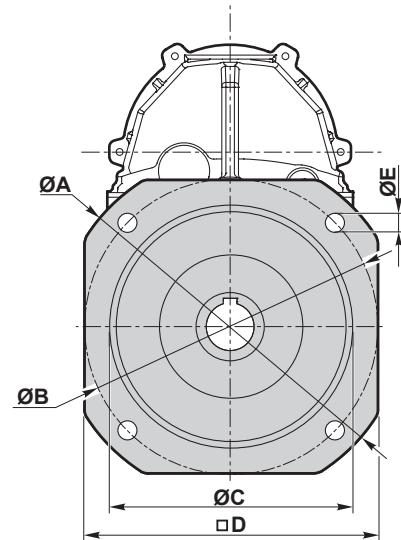
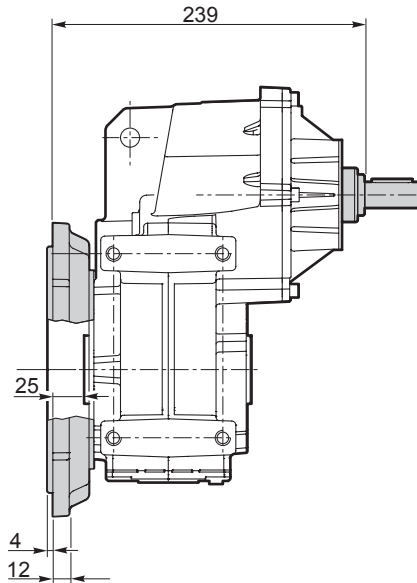
ATSIS 913 U..



ATS 913 F..



ATSIS 913 F..



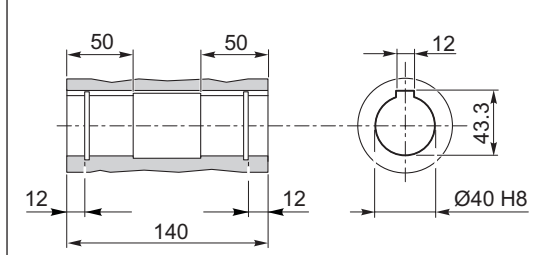
Versión F / Versão F / F Version

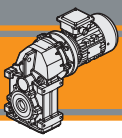
ATS ATSIS	ØA	ØB	ØC f7	□D	ØE	Brida / Flange / Flange	
						Tipo / Tipo / Type	Peso / Peso / Weight [kg]
913	200	165	130	165	11	F200	2
	250	215	180	215	14	F250	3.2

ATS 913.. D40 - ATSIS 913.. D40

Eje de salida hueco / Eixo saída vazado / Hollow output shaft

Bridas Motor  
Flange do motor  
Input flange





**Accesorios**

**Acessórios**

**Accessories**

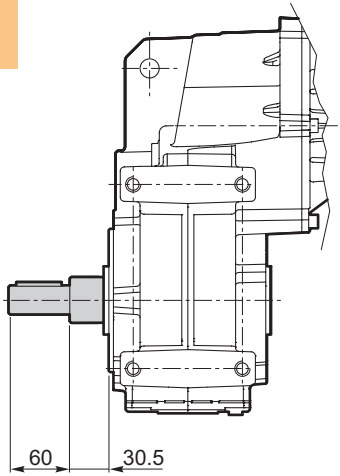
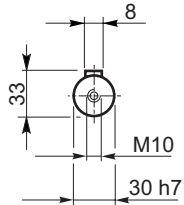
Eje de salida

Eixo de saída

Single output shaft

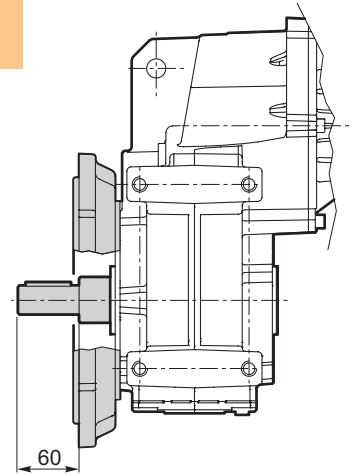
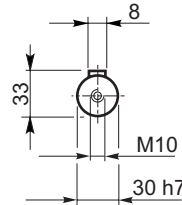
ATS90... U .. SZ

ATSIS90... U .. SZ



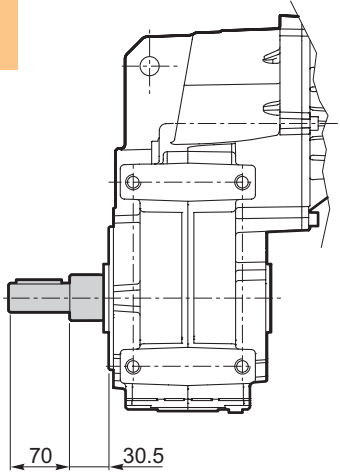
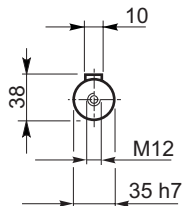
ATS90... F .. SZ

ATSIS90... F .. SZ



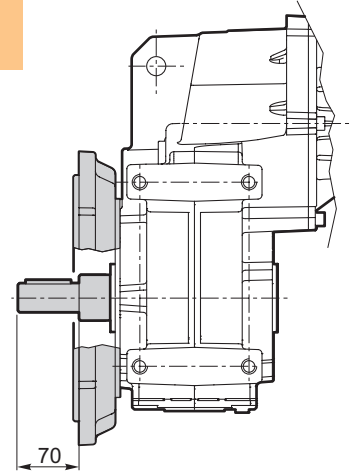
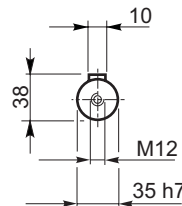
ATS91... U .. SZ

ATSIS91... U .. SZ



ATS91... F .. SZ

ATSIS91... F .. SZ



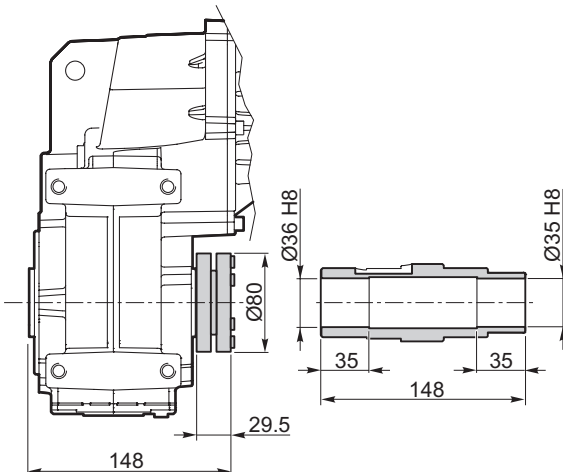
Eje de salida con anillo de contracción

Eixo de saída com disco de contração

Output shaft with shrink disk

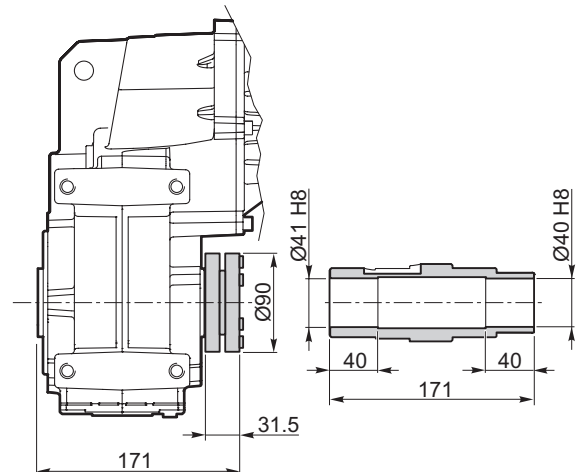
ATS90... U .. G35

ATSIS90... U .. G35



ATS91... U .. G40

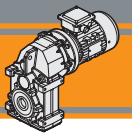
ATSIS91... U .. G40



Kit de eje de salida con anillo de contracción disponible bajo pedido: para obtener instrucciones de montaje favor de ponerse en contacto con nuestro Servicio Técnico

O kit eixo de saída com disco de contração é disponível sob encomenda: para instruções de montagem consultar ao nosso Serviço Técnico

Output shaft kit with shrink disk available on request: for assembly instructions please contact our Technical Service



## Accesorios

Kit de montaje de eje de salida

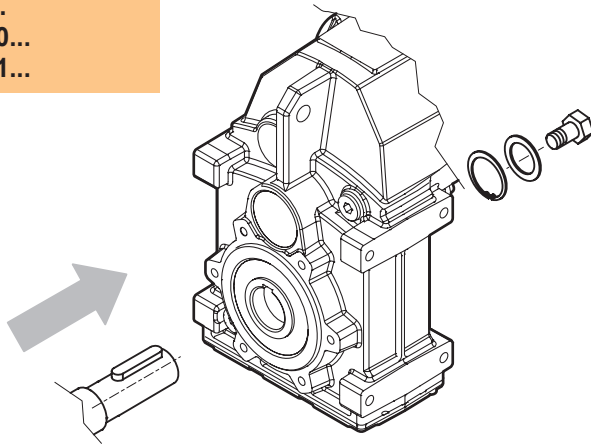
## Acessórios

Kit de montagem eixo de saída

## Accessories

Output shaft assembly kit

ATS90...  
 ATS91...  
 AT SIS90...  
 AT SIS91...



Kit de montaje del eje de salida disponible bajo pedido: para obtener instrucciones de montaje favor de ponerse en contacto con nuestro Servicio Técnico

*kit de montagem do eixo de saída disponível sob encomenda: para instruções de montagem consultar ao nosso Serviço Técnico*

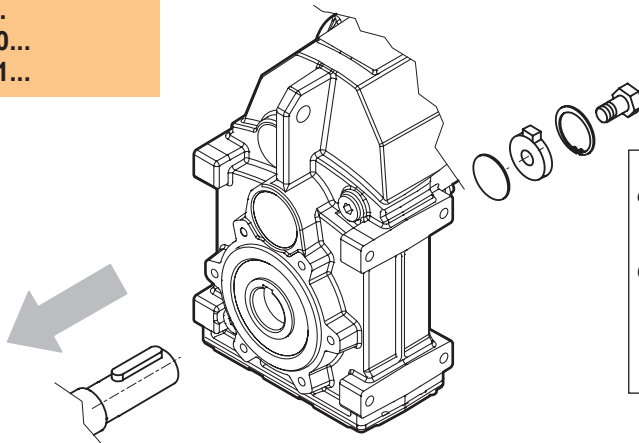
Output shaft assembly kit available upon request: for assembly instructions please contact our Technical Assistance

Kit de desmontaje del eje de salida

Kit para remoção do eixo de saída

Output shaft disassembly kit

ATS90...  
 ATS91...  
 AT SIS90...  
 AT SIS91...



Kit de desmontaje del eje de salida disponible bajo pedido: para obtener instrucciones de montaje favor de ponerse en contacto con nuestro Servicio Técnico

*O kit de remoção do eixo de saída disponível sob encomenda: para instruções de montagem consultar ao nosso Serviço Técnico*

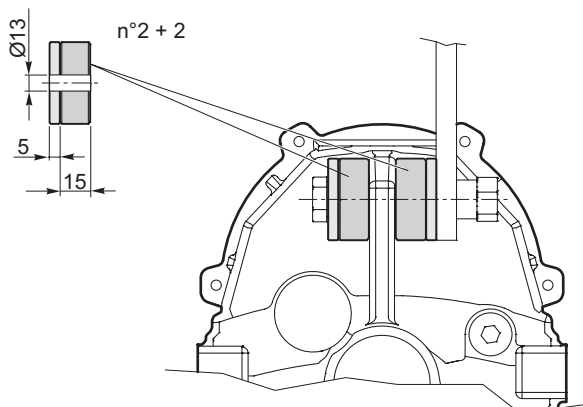
Output shaft disassembly kit available upon request: for assembly instructions please contact our Technical Assistance

Kit del brazo de reacción

Kit braço de torção

Torque arm kit

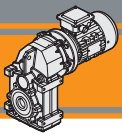
ATS90...U  
 ATS91...U  
 AT SIS90...U  
 AT SIS91...U



Kit del brazo de reacción disponible bajo pedido: para obtener instrucciones de montaje favor de ponerse en contacto con nuestro Servicio Técnico

*O kit braço de torção está disponível sob encomenda: para instruções de montagem consultar ao nosso Serviço Técnico*

Torque arm kit available upon request: for assembly instructions please contact our Technical Assistance



**ATS**

Motorreductores pendulares  
Motoredutores de eixos paralelos  
Helical parallel gearmotors

**60 Hz**

# Note/Notes

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