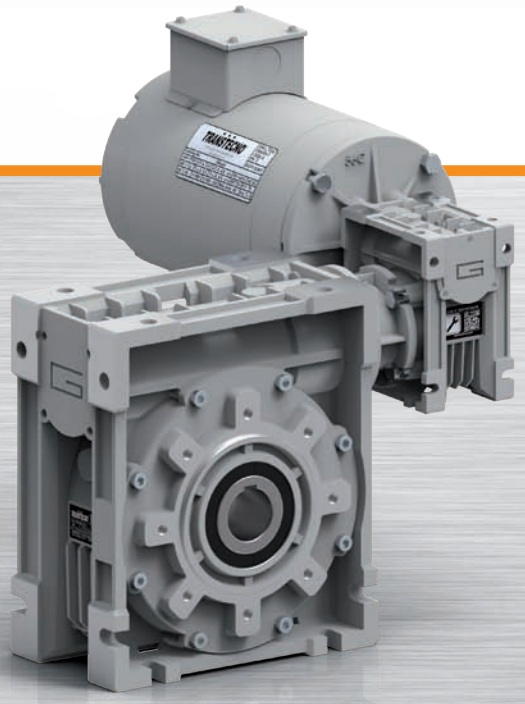
TRANSTECNO®
THE MODULAR GEARMOTOR

CMM

CMM

CMM Alu
NEMA DIMENSIONS

REDUCTORES SINFÍN Y CORONA DOBLE REDUCCIÓN
DOUBLE REDUCTION WORM-WORM GEARBOXES



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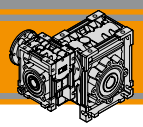

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Características técnicas

Technical features

El rango de combinación de los reductores CMM tienen las siguientes características principales:

- Caja de aluminio para tamaños 040, 050, 063, 075, 090 y 110. El tamaño 130 tiene carcasa de hierro fundido;
- Doble rodamiento de rodillos cónicos en tamaños 090, 110 y 130;
- Lubricación permanente con aceite sintético.

CMM range double reduction worm-worm gearboxes have the following main features:

- *Die-cast aluminum housing on sizes 040, 050, 063, 075, 090 and 110. Cast iron housing on size 130;*
- *Double taper roller bearing on sizes 090, 110 and 130;*
- *Permanent synthetic oil long-life lubrication.*

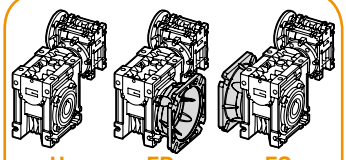
Clasificación

Classification

REDUCTOR / *GEARBOX*

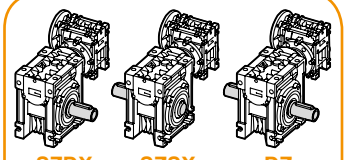
CMM	040/075	FD	300	56C	SZDX	BRSX	90	M1	US1
Tipo *Type*	Tamaño *Size*	Versión *Version*	Relación de reducción *Ratio*	NEMA	Eje de salida *Output shaft*	Brazo de reacción *Torque arm*	Ângulo *Angle*	Posición de montaje Mounting position	*Ejecución de montaje Mounting execution*
CMM **CMMIS**	**040/075** **040/090** **050/110** **063/130**	**U** **FD** **FS** **FBD** **FBS** **FLD** **FLS**	véase tablas *see tables*	**56C** **140TC**	**SZDX** **SZSX** **DZ**	**BRSX** **BRDX**	**0°** **90°** **180°** **270°**	**M1** (B3) **M2** (V6) **M3** (B8) **M4** (V5) **M5** (B7) **M6** (B6)	**UB1** **UB2** **US1** **US2** **UV1** **UV2** **UC1** **UC2**

Relación de reducción
Gearbox Version



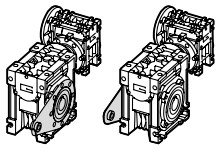
F.....D = Lado derecho / *Right side*
FL = Brida larga / *Long flange*
F.....S = Lado izquierdo / *Left side*
FB = Brida corta / *Short flange*

Eje de salida
Output shaft



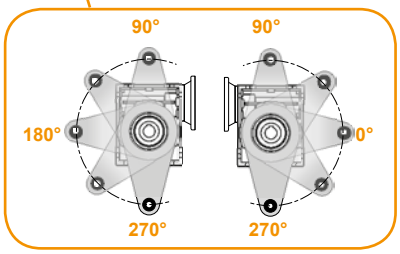
SZDX = Flecha sencilla lado derecho
Single shaft right side
DZ = Flecha doble / *Double shaft*
SZSX =Flecha sencilla lado izquierdo
Single shaft left side

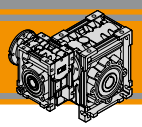
Brazo de reacción
Torque arm



BRDX = Lado derecho / *Right side*
BRSX = Lado izquierdo / *Left side*

Ângulo
Angle





Clasificación — *Classification*

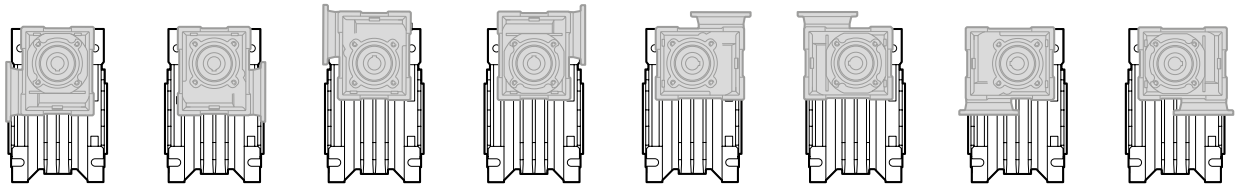
MOTOR / *MOTOR*

1 hp / 0.75kW	4p	3ph	220/440V	60Hz	T1
Potencia *Power* véase tablas *See tables*	Polos *Poles* **2p** **4p** **6p** **8p**	Fases *Phases* **1ph** **3ph**	Tensión *Voltage* **230V** **230/400V** **...** **220/440V**	Frecuencia *Frequency* **50Hz** **60Hz**	Posición caja de bornes *Terminal box pos.* **T1** (Std) **T4** **T2** **T3**

Nomenclatura — *Legend*

n_1	[rpm]	Velocidad de entrada / *Input speed*	M_2	[Nm]	Par en la salida en función de P_1 / *Output torque referred to P_1*
n_2	[rpm]	Velocidad de salida / *Output speed*	sf		Rendimiento dinámico / *Service factor*
i		Relación de reducción / *Ratio*	R_2	[N]	Carga radial admisible en la salida / *Maximum output radial load*
P_1	[kW]	Potencia en la entrada / *Input power*	A_2	N]	Carga axial admisible en la salida / *Maximum output axial load*

Ejecuciòn de montaje — *Mounting executions*



UB1 **UB2** **US1** **US2** **UV1** **UV2** **UC1** **UC2**

Relaciones combinadas — *Combination ratio*

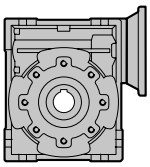
CMM 040/075 - CMM 040/090 - CMM 050/110 - CMM 063/130

	i (i_1 x i_2)															
	75	**100**	**150**	**200**	**250**	**300**	**400**	**500**	**600**	**750**	**900**	**1200**	**1500**	**1800**	**2400**	**3000**
i_1	7.5	10	10	10	10	10	10	10	20	25	30	40	50	60	60	60
i_2	10	10	15	20	25	30	40	50	30	30	30	30	30	30	40	50

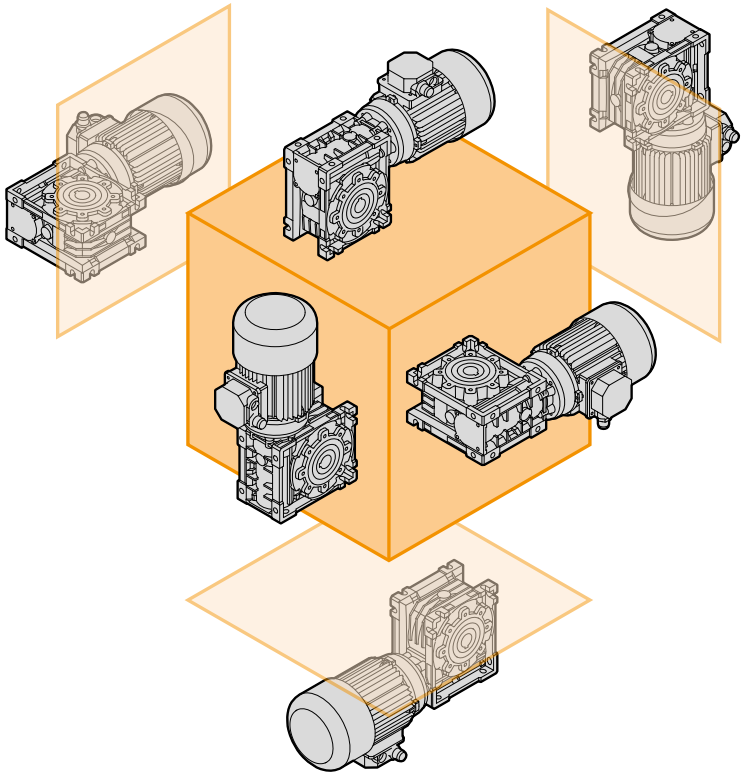
Lubricación — *Lubrication*

La lubricación permanente con aceite sintético de larga vida (grado de viscosidad 320) hace que sea posible el uso de los reductores tamaños 40, 50, 63, 75, 90 y 110 en todas las posiciones de montaje. Solo para el tamaño 130 la lubricación depende de la posición de montaje.

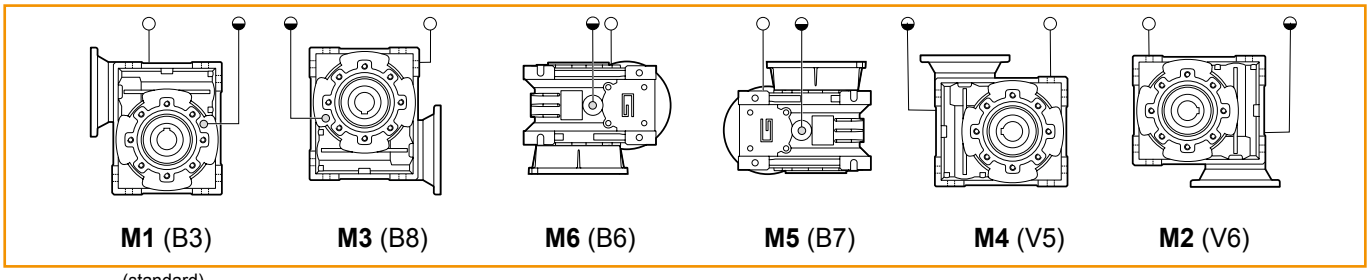
Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearboxes size 40, 50, 63, 75, 90, 110 in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance. Only for size 130, the lubrication depended of mounting positions



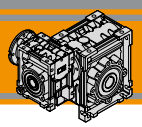
CM	**Cantidad de aceite** (US gal) / ***Oil quantity*** *(US gal)*					
	M1 (B3)	**M3** (B8)	**M6** (B6)	**M5** (B7)	**M4** (V5)	**M2** (V6)
130	1.19	0.87	0.92	0.92	1.19	0.87



Posiciòn de montaje / *Mounting positions*



○ Respiradero y tapón de llenado / *Breather and filling plug*
◒ Tapón de nivel de aceite / *Oil level plug*



Datos técnicos / *Technical data*

0.16 hp

P_1 [hp]	n_2 [rpm]	M_2 [lb·in]	sf	AGMA	i		NEMA
0.12 kW (1750 rpm)	**2.92**	2007	2.4	III	600	**CMM 040/075**	**56C**
	2.33	2380	2.0	III	750		**56C**
	1.94	2702	1.8	II	900		**56C**
	1.46	3345	1.4	II	1200		**56C**
	1.17	3860	1.3	I	1500		**56C**
	0.97	4478	1.1	I	1800		**56C**
	1.46	3513	2.4	III	1200	**CMM 040/090**	**56C**
	1.17	4053	2.1	III	1500		**56C**
	0.97	4702	1.8	II	1800		**56C**
	0.73	5771	1.2	I	2400		**56C**
	0.58	6717	0.9	I	3000		**56C**
	0.97	4941	2.9	III	1800	**CMM 050/110**	**56C**
	0.73	6279	2.0	III	2400		**56C**
	0.58	7463	1.5	II	3000		**56C**
	0.73	6809	2.4	III	2400	**CMM 063/130**	**56C**
	0.58	8241	1.7	II	3000		**56C**

0.25 hp

P_1 [hp]	n_2 [rpm]	M_2 [lb·in]	sf	AGMA	i		NEMA
0.18 kW (1750 rpm)	**5.83**	1689	2.9	III	300	**CMM 040/075**	**56C**
	4.38	2064	2.0	III	400		**56C**
	3.50	2346	1.5	II	500		**56C**
	2.92	3136	1.5	II	600		**56C**
	2.33	3719	1.3	I	750		**56C**
	1.94	4222	1.1	I	900		**56C**
	1.46	5160	0.8	I	1200		**56C**
	3.50	2533	2.4	III	500	**CMM 040/090**	**56C**
	2.92	3293	2.5	III	600		**56C**
	2.33	3905	2.1	III	750		**56C**
	1.94	4433	1.9	II	900		**56C**
	1.46	5442	1.3	I	1200		**56C**
	1.17	6333	1.3	I	1500		**56C**
	0.97	7346	1.1	I	1800		**56C**
	0.73	9018	0.8	I	2400		**56C**
	1.46	5887	2.2	III	1200	**CMM 050/110**	**56C**
	1.17	6755	2.1	III	1500		**56C**
	0.97	7720	1.8	II	1800		**56C**
	0.73	9811	1.3	I	2400		**56C**
	0.58	11661	1.0	I	3000		**56C**
	1.46	6333	2.5	III	1200	**CMM 063/130**	**56C**
	1.17	7298	2.5	III	1500		**56C**
	0.97	8360	2.2	III	1800		**56C**
	0.73	10639	1.5	II	2400		**56C**
	0.58	12877	1.1	I	3000		**56C**

0.33 hp

P_1 [hp]	n_2 [rpm]	M_2 [lb·in]	sf	AGMA	i		NEMA
0.22 kW (1750 rpm)	**8.75**	1709	2.4	III	200	**CMM 040/075**	**56C**
	7.00	2012	1.8	II	250		**56C**
	5.83	2229	2.2	III	300		**56C**
	4.38	2725	1.5	II	400		**56C**
	3.50	3096	1.2	I	500		**56C**
	2.92	4140	1.2	I	600		**56C**
	2.33	4910	1.0	I	750		**56C**
	1.94	5573	0.9	I	900		
	4.38	2873	2.5	III	400	**CMM 040/090**	**56C**
	3.50	3344	1.8	II	500		**56C**
	2.92	4347	1.9	II	600		**56C**
	2.33	5155	1.6	II	750		**56C**
	1.94	5852	1.4	II	900		**56C**
	1.46	7183	1.0	I	1200		**56C**
	1.17	8360	1.0	I	1500		**56C**
	0.97	9697	0.9	I	1800		**56C**
	2.33	5378	2.6	III	750	**CMM 050/110**	**56C**
	1.94	6114	2.3	III	900		**56C**
	1.46	7770	1.6	II	1200		**56C**
	1.17	8917	1.6	II	1500		**56C**
	0.97	10191	1.4	I	1800		**56C**
	0.73	12951	1.0	I	2400		**56C**
	1.94	6568	2.8	III	900	**CMM 063/130**	**56C**
	1.46	8360	1.9	II	1200		**56C**
	1.17	9633	1.9	II	1500		**56C**
	0.97	11035	1.7	II	1800		**56C**
	0.73	14044	1.1	I	2400		**56C**
	0.58	16998	0.8	I	3000		**56C**

0.5 hp

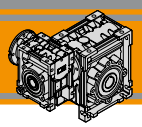
P_1 [hp]	n_2 [rpm]	M_2 [lb·in]	sf	AGMA	i		NEMA
0.37 kW (1750 rpm)	**11.67**	2055	2.3	III	150	**CMM 040/075**	**56C**
	8.75	2589	1.6	II	200		**56C**
	7.00	3049	1.2	I	250		**56C**
	5.83	3378	1.4	II	300		**56C**
	4.38	4128	1.0	I	400		**56C**
	5.83	3546	2.4	III	300	**CMM 040/090**	**56C**
	4.38	4353	1.7	II	400		**56C**
	3.50	5066	1.2	I	500		**56C**
	2.92	6586	1.3	I	600		**56C**
	2.33	7811	1.1	I	750		**56C**
	1.94	8866	0.9	I	900		**56C**

Datos técnicos

Technical data

P_1 [hp]	n_2 [rpm]	M_2 [lb·in]	sf	AGMA	i		NEMA
0.5 hp							
0.37 kW	**4.38**	4633	2.8	III	400	**CMM 050/110**	**56C**
(1750 rpm)	**3.50**	5506	2.0	III	500		**56C**
	2.92	6519	2.2	III	600		**56C**
	2.33	8149	1.7	II	750		**56C**
	1.94	9264	1.5	II	900		**56C**
	1.46	11773	1.1	I	1200		**56C**
	1.17	13510	1.0	I	1500		**56C**
	0.97	15440	0.9	I	1800		**56C**
	2.92	7165	2.5	III	600	**CMM 063/130**	**56C**
	2.33	8625	2.1	III	750		**56C**
	1.94	9952	1.8	II	900		**56C**
	1.46	12666	1.3	I	1200		**56C**
	1.17	14596	1.3	I	1500		**56C**
	0.97	16719	1.1	I	1800		**56C**
0.75 hp							
0.55 kW	**23.33**	1686	2.6	III	75	**CMM 040/075**	**56C**
(1750 rpm)	**17.50**	2195	2.0	III	100		**56C**
	11.67	3082	1.5	II	150		**56C**
	8.75	3884	1.1	I	200		**56C**
	7.00	4574	0.8	I	250		**56C**
	11.67	3166	2.4	III	150	**CMM 040/090**	**56C**
	8.75	4053	1.8	II	200		**56C**
	7.00	4855	1.3	I	250		**56C**
	5.83	5320	1.6	II	300		**56C**
	4.38	6530	1.1	I	400		**56C**
	3.50	7600	0.8	I	500		**56C**
	2.92	9879	0.8	I	600		**56C**
	7.00	5127	2.2	III	250	**CMM 050/110**	**56C**
	5.83	5468	2.6	III	300		**56C**
	4.38	6950	1.8	II	400		**56C**
	3.50	8260	1.4	I	500		**56C**
	2.92	9779	1.4	II	600		**56C**
	2.33	12224	1.2	I	750		**56C**
	1.94	13896	1.0	I	900		**56C**
	4.38	6840	2.4	III	400	**CMM 063/130**	**56C**
	3.50	8278	1.7	II	500		**56C**
	2.92	10748	1.7	II	600		**56C**
	2.33	12937	1.4	II	750		**56C**
	1.94	14928	1.2	I	900		**56C**
	1.46	18999	0.8	I	1200		**56C**
	1.17	21894	0.8	I	1500		**56C**

P_1 [hp]	n_2 [rpm]	M_2 [lb·in]	sf	AGMA	i		NEMA
1 hp							
0.75 kW	**23.33**	2248	2.0	II	75	**CMM 040/075**	**56C**
(1750 rpm)	**17.50**	2927	1.5	II	100		**56C**
	11.67	4109	1.1	I	150		**56C**
	8.75	5179	0.8	I	200		**56C**
	11.67	4222	1.8	II	150	**CMM 040/090**	**56C**
	8.75	5404	1.3	I	200		**56C**
	7.00	6474	1.0	I	250		**56C**
	5.83	7093	1.2	I	300		**56C**
	4.38	8707	0.8	I	400		**56C**
	8.75	5620	2.2	III	200	**CMM 050/110**	**56C**
	7.00	6836	1.7	II	250		**56C**
	5.83	7291	1.9	II	300		**56C**
	4.38	9266	1.4	I	400		**56C**
	3.50	11013	1.0	I	500		**56C**
	2.92	13039	1.1	I	600		**56C**
	2.33	16298	0.9	I	750		**56C**
	7.00	6604	2.2	III	250	**CMM 063/130**	**56C-140TC**
	5.83	7165	2.5	III	300		**56C-140TC**
	4.38	9120	1.8	II	400		**56C-140TC**
	3.50	11038	1.3	I	500		**56C-140TC**
	2.92	14331	1.3	I	600		**56C-140TC**
	2.33	17250	1.1	I	750		**56C-140TC**
	1.94	19904	0.9	I	900		**56C-140TC**
1.5 hp							
1.1 kW	**23.33**	3372	1.3	I	75	**CMM 040/075**	**56C**
(1750 rpm)	**17.50**	4391	1.0	I	100		**56C**
	23.33	3458	1.9	II	75	**CMM 040/090**	**56C**
	17.50	4503	1.5	II	100		**56C**
	11.67	6333	1.2	I	150		**56C**
	8.75	8106	0.9	I	200		**56C**
	17.50	4614	2.6	III	100	**CMM 050/110**	**56C**
	11.67	6494	2.0	III	150		**56C**
	8.75	8431	1.5	II	200		**56C**
	7.00	10253	1.1	I	250		**56C**
	5.83	10937	1.3	I	300		**56C**
	4.38	13899	0.9	I	400		**56C**
	11.67	6270	2.7	III	150	**CMM 063/130**	**56C-140TC**
	8.75	8142	2.0	II	200		**56C-140TC**
	7.00	9907	1.5	II	250		**56C-140TC**
	5.83	10748	1.7	II	300		**56C-140TC**
	4.38	13679	1.2	I	400		**56C-140TC**
	3.50	16556	0.9	I	500		**56C-140TC**
	2.92	21496	0.8	I	600		**56C-140TC**



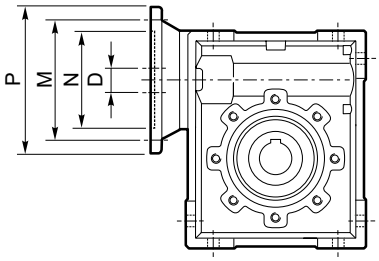
Datos técnicos

Technical data

P_1 [hp]	n_2 [rpm]	M_2 [lb·in]	sf	AGMA	i		NEMA
2 hp							
1.5 kW (1750 rpm)	**23.33**	4495	1.0	**I**	75	**CMM 040/075**	**56C**
	23.33	4611	1.4	**II**	75	**CMM 040/090**	**56C**
	17.50	6005	1.1	**I**	100		**56C**
	11.67	8444	0.9	**I**	150		**56C**
	23.33	4723	2.5	**III**	75	**CMM 050/110**	**56C**
	17.50	6152	1.9	**II**	100		**56C**
	11.67	8658	1.5	**II**	150		**56C**
	8.75	11241	1.1	**I**	200		**56C**
	7.00	13671	0.8	**I**	250		**56C**
	5.83	14583	1.0	**I**	300		**56C**
	17.50	5935	2.5	**III**	100	**CMM 063/130**	**56C-140TC**
	8.75	10857	1.5	**II**	200		**56C-140TC**
	7.00	13209	1.1	**I**	250		**56C-140TC**
	5.83	14331	1.3	**I**	300		**56C-140TC**
	4.38	18239	0.9	**I**	400		**56C-140TC**
3 hp							
2.2 kW (1750 rpm)	**23.33**	7254	2.0	**III**	75	**CMM 063/130**	**140TC**
	17.50	8902	1.7	**II**	100		**140TC**
	8.75	16285	1.0	**I**	200		**140TC**
	5.83	21496	0.8	**I**	300		**140TC**

Motores Aplicables IEC

IEC Motor adapters



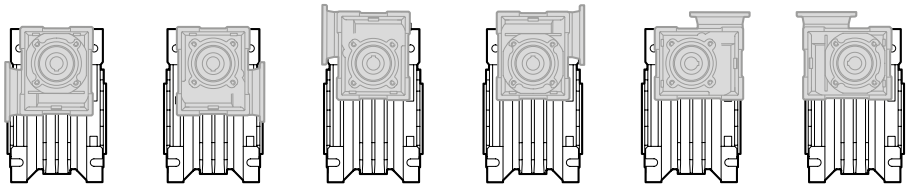
NOTA / NOTE

Las áreas grises indican la aplicabilidad del correspondiente tamaño del motor.

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

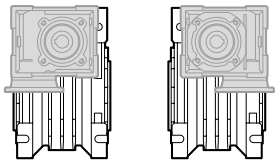
B/BS = Buje de metal para flecha

B/BS = Metal shaft sleeve



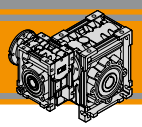
UB1 **UB2** **US1** **US2** **UV1** **UV2**

CMM	NEMA	N	M	P	D	i_1							
						7.5	10	20	25	30	40	50	60
040/075	56C	4.5	5.88	6.5	0.625								
040/090													
050/110													
063/130						B							
	140TC				0.875								



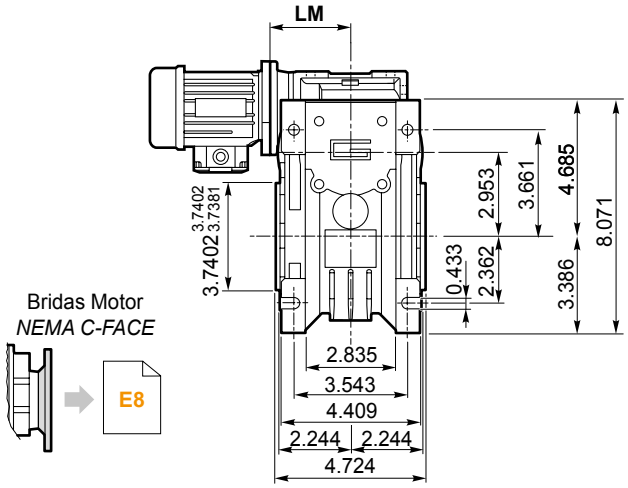
UC1 **UC2**

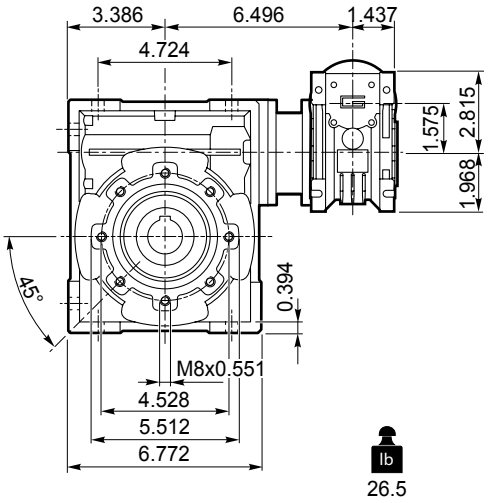
CMM	NEMA	N	M	P	D	i_1							
						7.5	10	20	25	30	40	50	60
050/110	56C	4.5	5.88	6.5	0.625								
063/110						B							
	140TC				0.875								



CMM 040/075

CMM 040/075 U





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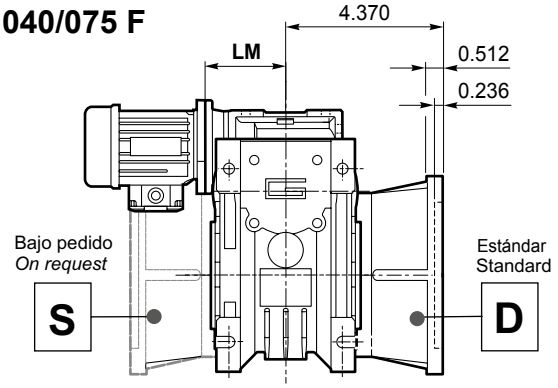

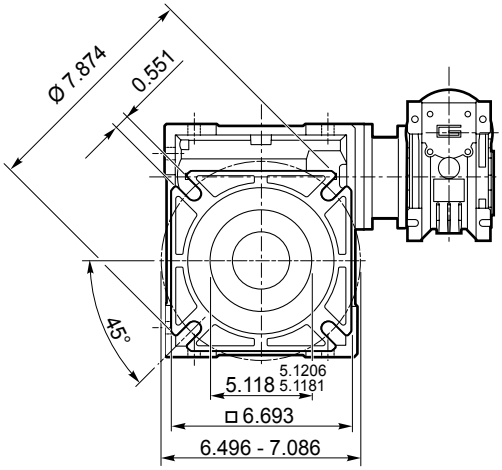

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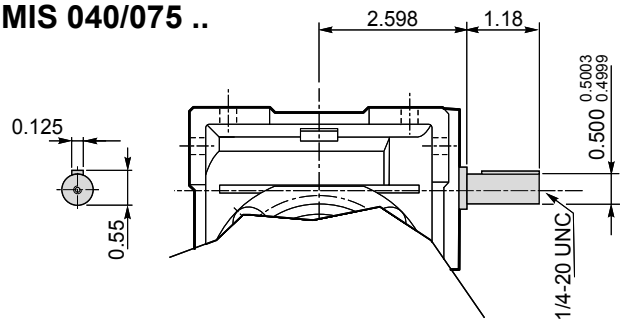
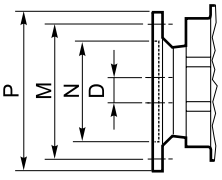
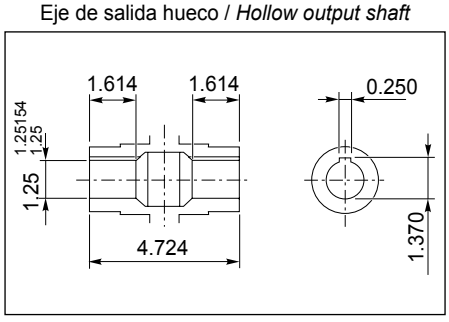


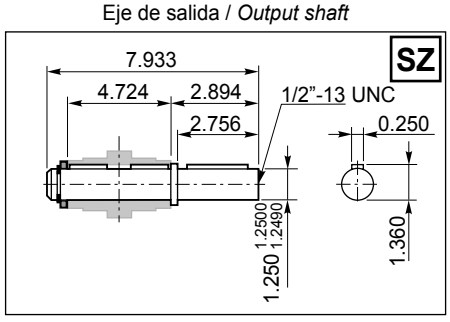


Brida Motor / *Motor flange*	
Dimensiones NEMA *NEMA Dimensions*	
	56 C
N	4.5
M	5.88
P	6.5
D	0.625
LM	3.15

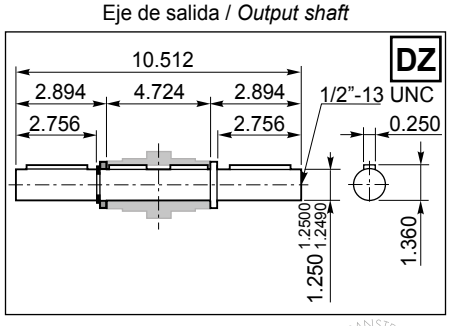
Eje de salida hueco / *Hollow output shaft*



Eje de salida / *Output shaft*



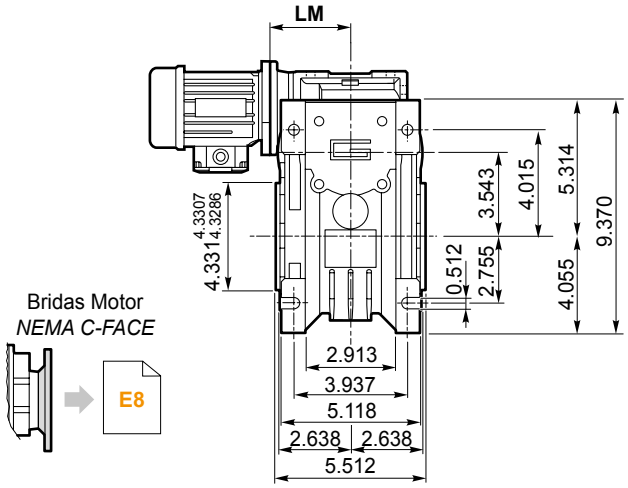
Eje de salida / *Output shaft*

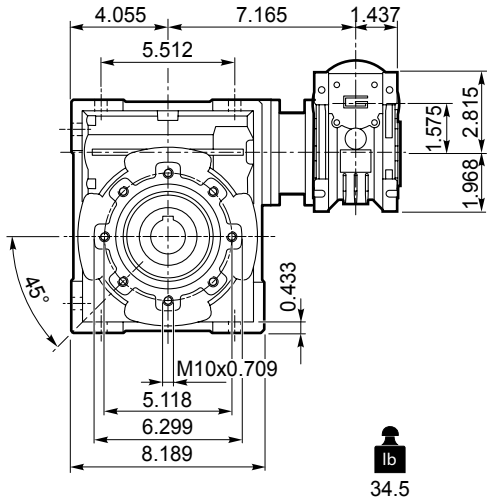


Dimensiones *Dimensions*

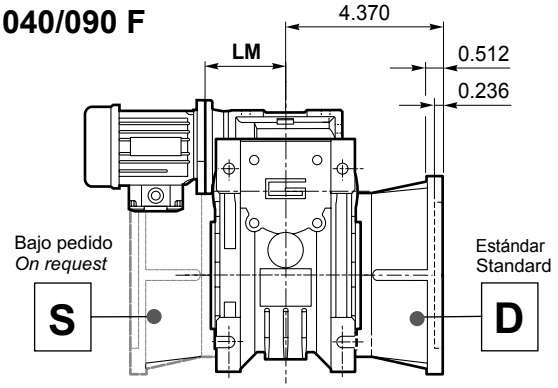
CMM 040/090

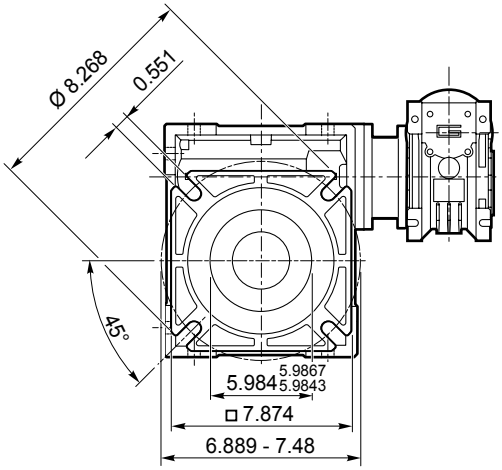
CMM 040/090 U





CMM 040/090 F





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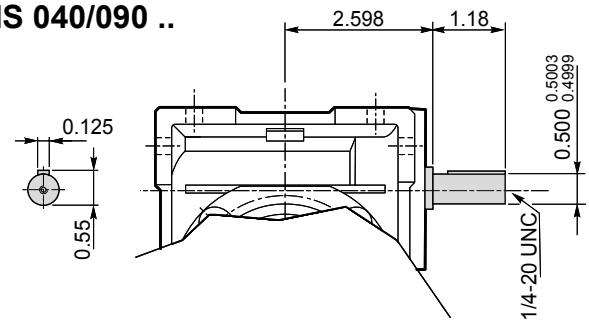
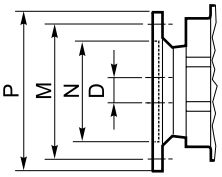
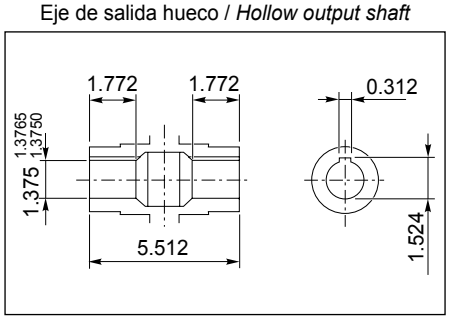


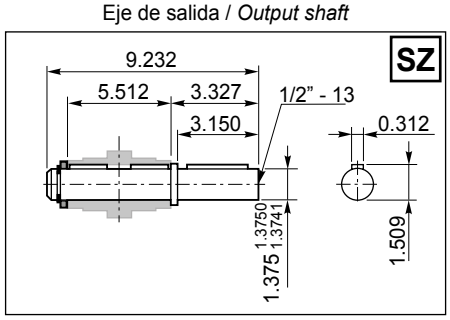


Brida Motor / *Motor flange*	
Dimensiones NEMA *NEMA Dimensions*	
	56 C
N	4.5
M	5.88
P	6.5
D	0.625
LM	3.15

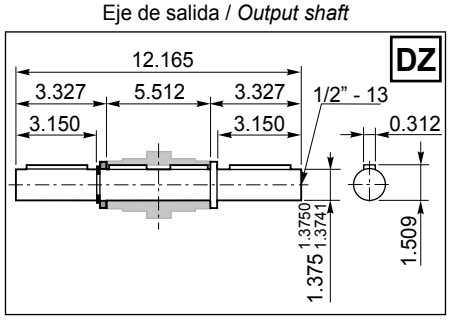
Eje de salida hueco / *Hollow output shaft*

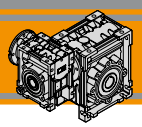


Eje de salida / *Output shaft*



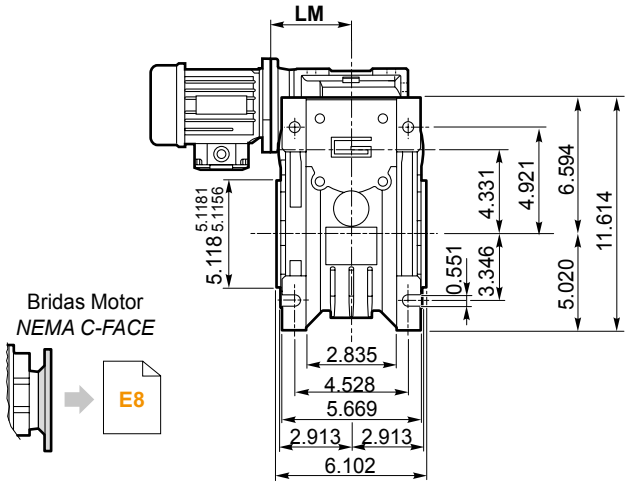
Eje de salida / *Output shaft*

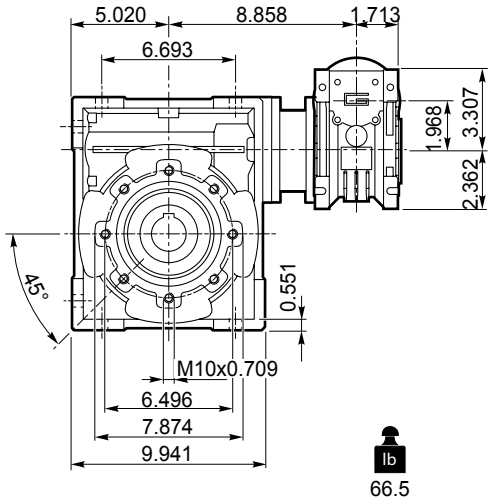




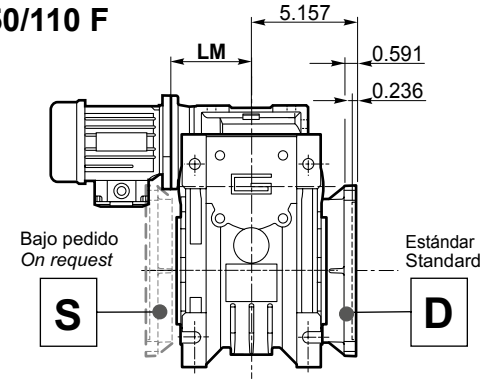
CMM 050/110

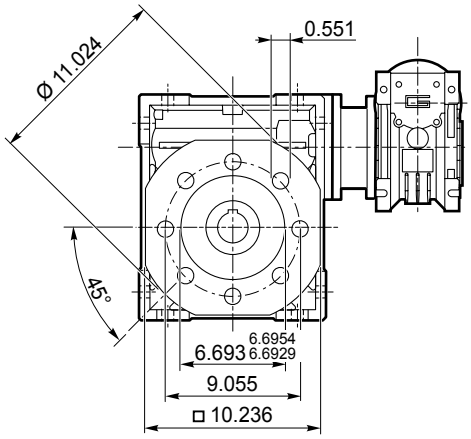
CMM 050/110 U





CMM 050/110 F





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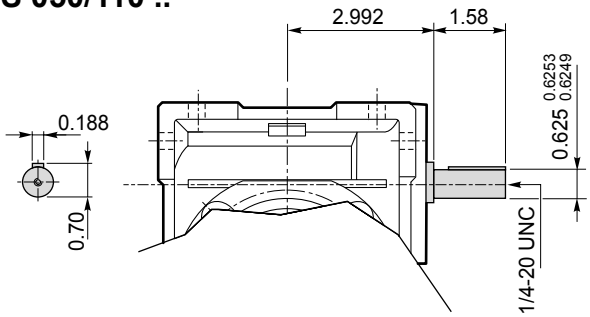
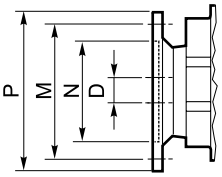
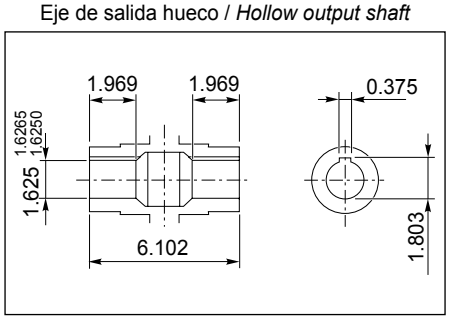


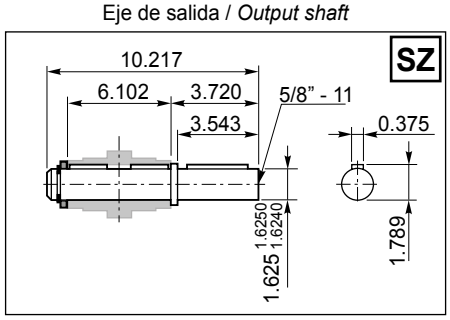


Brida Motor / *Motor flange*	
Dimensiones NEMA *NEMA Dimensions*	
	56 C
N	4.5
M	5.88
P	6.5
D	0.625
LM	3.346

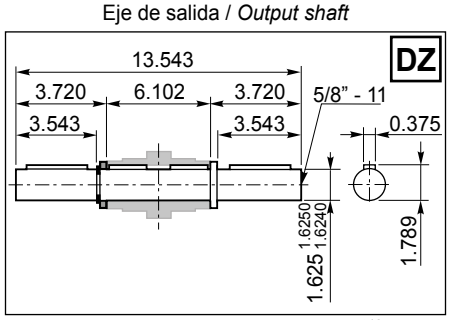
Eje de salida hueco / *Hollow output shaft*



Eje de salida / *Output shaft*



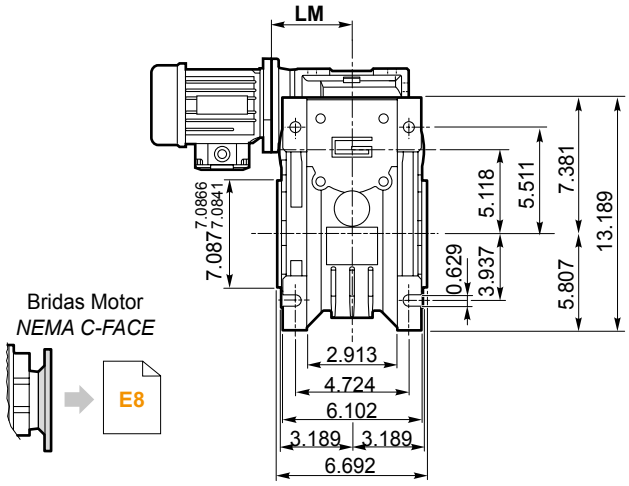
Eje de salida / *Output shaft*

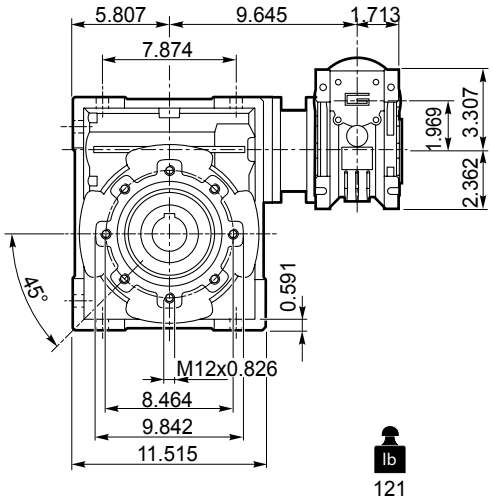


Dimensiones *Dimensions*

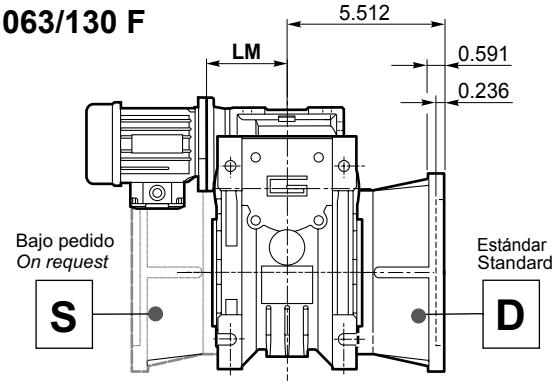
CMM 063/130

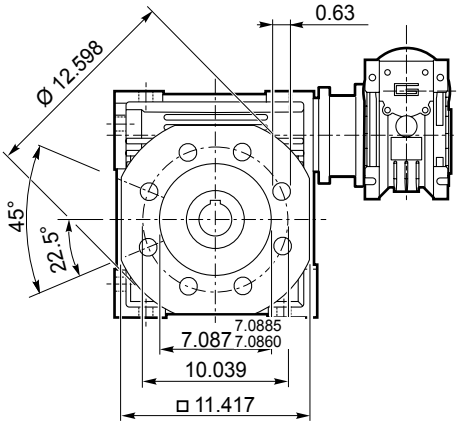
CMM 063/130 U



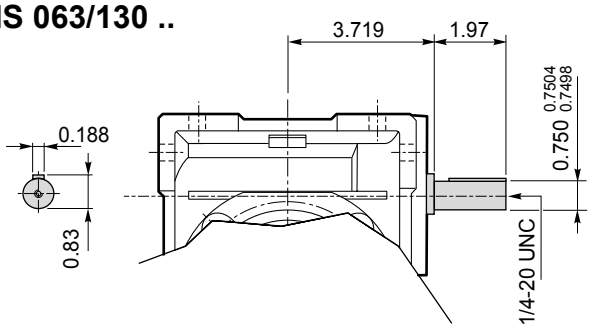


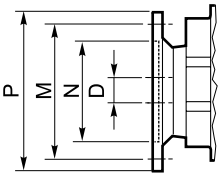
CMM 063/130 F





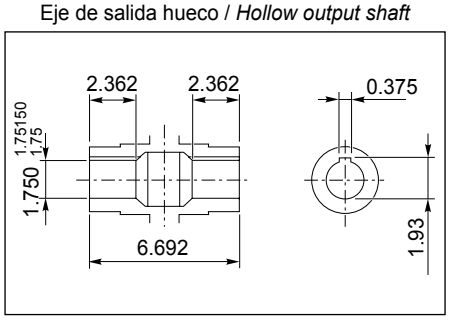
CMMIS 063/130 ..



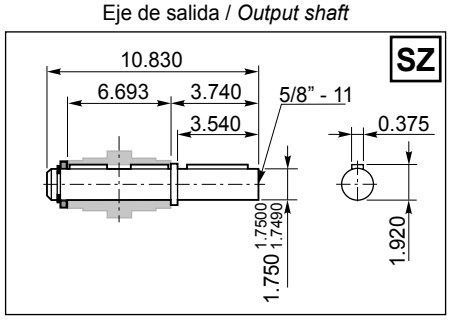


Brida Motor / *Motor flange*		
Dimensiones NEMA *NEMA Dimensions*		
	56 C	**140 TC**
N	4.5	
M	5.88	
P	6.5	
D	0.625	0.875
LM	4.055	

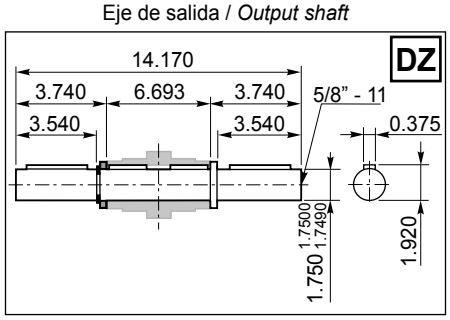
Eje de salida hueco / *Hollow output shaft*

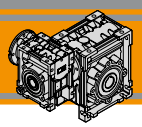


Eje de salida / *Output shaft*



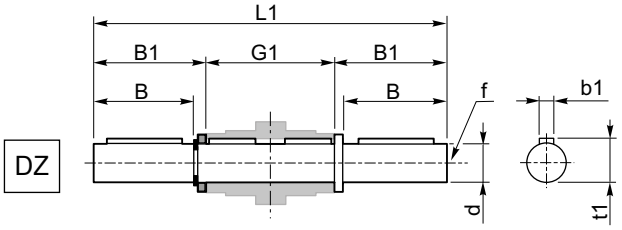
Eje de salida / *Output shaft*

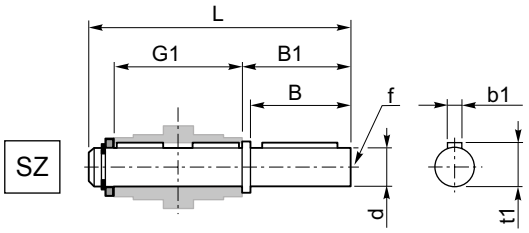




Accesorios / *Accessories*

Eje de salida simple y doble / *Single and double output shaft*

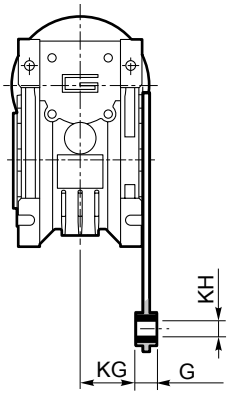


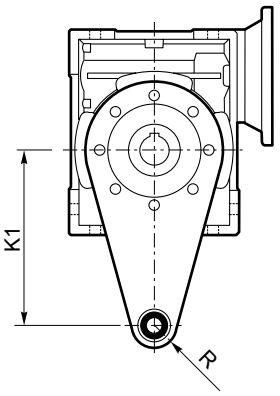


CMM	d	B	B1	G1	L	L1	f	b1	t1
040/075	1.250 $^{1.250}_{1.249}$	2.756	2.894	4.724	7.933	10.512	1/2"-13	0.250	1.360
040/090	1.375 $^{1.375}_{1.3741}$	3.150	3.327	5.512	9.232	12.165	1/2"-13	0.312	1.509
050/110	1.625 $^{1.625}_{1.624}$	3.543	3.720	6.102	10.217	13.543	5/8"-11	0.375	1.789
063/130	1.750 $^{1.750}_{1.749}$	3.540	3.740	6.693	10.830	14.170	5/8"-11	0.375	1.920

Brazo de reacción / *Torque arm*

CMM	K1	G	KG	KH	R
040/075	7.874	0.984	1.831	0.787	1.181
040/090	7.874	0.984	2.224	0.787	1.181
050/110	9.843	1.181	2.441	0.984	1.378
063/130	9.842	1.181	2.717	0.984	1.378

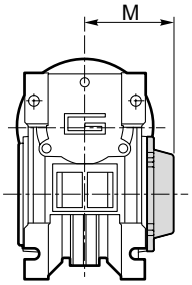


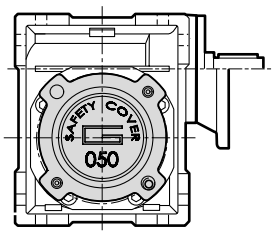


Opciones / *Options*

SC - Cubierta de seguridad / *Safety Cover*

CMM	M
040/075	3.110
040/090	3.701
050/110	4.016
063/130	4.606





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