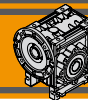


RIGHT ANGLE WORMGEARBOXES
REDUCTORES SINFIN CORONA

NEMA dimensions

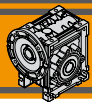




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**CM****RIGHT ANGLE WORMGEARBOXES**
REDUCTORES SINFIN CORONA**Technical features****Características técnicas**

The high degree of modularity is a design feature of CM worm-gearboxes range thanks to a wide selection of input and output kits.

Main features of CM range are:

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

El elevado nivel de modularidad caracteriza los reductores sinfin corona de la serie CM; los diversos kit de entrada y salida permiten una versatilidad extrema del reductor.

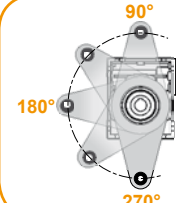
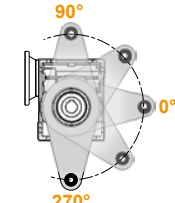
Los reductores de sin fin corona de la serie CM poseen las características siguientes:

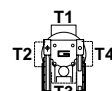
- Los tamaños 040, 050, 063, 075, 090 y 110 están contruidos con carcasa de aluminio.
- Los tamaños 090 y 110 se suministran con rodamientos de rodillos conicos en el sin-fin
- Lubricación permanente con aceite sintético.

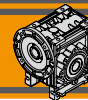
Designation**Clasificación****WORMGEARBOXES / REDUCTORES DE SINFIN CORONA**

GEARBOX / REDUCTOR								
CM	050	U	10	56C	SZDX	BRSX	90	B3
Type Tipo	Size Tamaño	Gearbox Version Versión reductor	Ratio Relación	NEMA	Output shaft Eje de salida	Torque arm Brazo de reacción	Angle Ángulo	Mounting position Posición de montaje
CM 	040 050 063 075 090 110	U FD FS FLD FLS FBD FBS	See tables <i>Vea tabla</i>	56C 140TC 180TC 210TC	SZDX SZSX DZ	BRDX BRSX	0° 90° 180° 270°	B3 B8 B6 B7 V5 V6

Designation**Clasificación**

Gearbox Version Versión reductor			Output shaft Eje de salida			Torque arm Brazo de reacción		Angle Ángulo	
									
U	FD FLD FBD	FS FLS FBS	SZDX	SZSX	DZ	BRDX	BRSX	90° 180° 270°	90° 0° 270°

CM MOTOR / MOTOR CM				
1 HP	4p	3ph	60Hz	T1
Power Potencia	Poles Polos	Phases Fases	Frequency Frecuencia	Terminal box pos. Posición tablero de bornes
See tables Véase tablas	2p 4p 6p 8p	1ph 3ph	50Hz 60Hz	T1 (standard) T2 T3 T4 



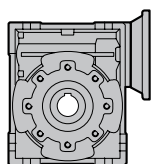
Symbols

Simbología

n_1	[rpm]	Input speed / <i>Velocidad de entrada</i>	sf		Service factor / <i>Factor de servicio</i>
n_2	[rpm]	Output speed / <i>Velocidad de salida</i>	R_d	%	Dynamic efficiency / <i>Rendimiento dinámico</i>
i		Ratio / <i>Relación de reducción</i>	R_s	%	Static efficiency / <i>Rendimiento estático</i>
P_1	[HP]	Nominal input power / <i>Potencia en la entrada</i>	R_2	[lb]	Permitted output radial load / <i>Carga radial admisible en la salida</i>
M_2	[lb.in]	Output torque referred to P_1 / <i>Par en la salida en función de P_1</i>	A_2	[lb]	Permitted output axial load / <i>Carga axial admisible en la salida</i>
P_{n1}	[HP]	Nominal input power / <i>Potencia nominal en la entrada</i>	Z		Worm starts / <i>Número de entradas del tornillo</i>
M_{n2}	[lb.in]	Nominal output torque referred to P_{n1} / <i>Par nominal en la salida en función de P_{n1}</i>	β		Helix angle / <i>Ángulo de hélice</i>

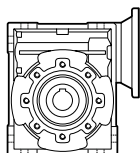
Lubrication

Lubricación

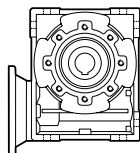


CM	Oil quantity (US qt) / <i>Cantidad de aceite (US qt)</i>					
	B3	B8	B6	B7	V5	V6
040				0.07		
050				0.11		
063				0.26		
075				0.42		
090				0.90		
110				1.59		

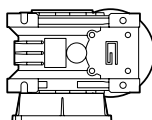
Mounting positions / *Posición de montaje*



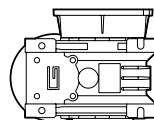
B3
(standard)



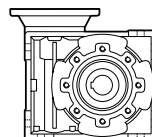
B8



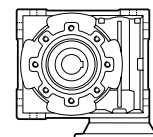
B6



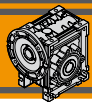
B7



V5



V6

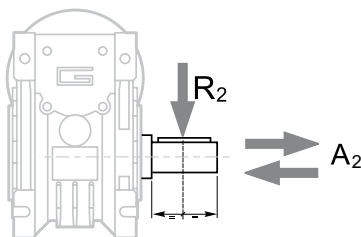


CM

RIGHT ANGLE WORMGEARBOXES REDUCTORES SINFIN CORONA

Radial loads

Cargas radiales

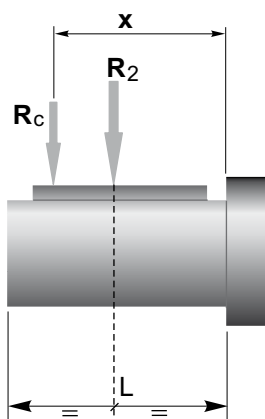


$$A_2 = R_2 \times 0.2$$

n ₂ [rpm]	R ₂ [lb]					
	CM040	CM050	CM063	CM075	CM090	CM110
187	284	398	550	635	711	1137
140	313	438	605	699	783	1252
93	359	502	694	801	897	1435
70	394	552	763	881	986	1578
56	425	595	821	949	1062	1699
47	450	631	871	1006	1126	1802
35	497	696	961	1110	1242	1988
28	535	749	1035	1195	1338	2141
23	571	800	1105	1276	1429	2286
18	620	868	1199	1385	1550	2481
14	674	944	1304	1506	1686	2698

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:

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

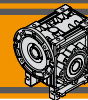


	CM					
	040	050	063	075	090	110
a [inch]	3.307	3.976	4.724	5.157	7.165	6.929
b [inch]	2.520	2.992	3.740	3.976	4.803	5.354
R _{2MAX}	674	944	1304	1506	1686	2698

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

$$R \leq R_c$$

a, b = values given in the table
a, b = valores en la tabla



Toothing data

Datos de dentado

	Worm wheel data Datos del engranaje sinfín corona	Ratio / Relación											
		5	7.5	10	15	20	25	30	40	50	60	80	100
CM040	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	34° 19'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3° 46'	2° 57'	2° 25'
CM050	Z		4	3	2	2	2	1	1	1	1	1	1
	β		23° 54'	18° 23'	12° 29'	10° 6'	8° 28'	6° 19'	5° 5'	4° 15'	3° 39'	2° 51'	2° 20'
CM063	Z		4	3	2	2	2	1	1	1	1	1	1
	β		24° 31'	18° 53'	12° 50'	10° 24'	8° 44'	6° 30'	5° 14'	4° 23'	3° 47'	2° 57'	2° 25'
CM075	Z		4	3	2	2	2	1	1	1	1	1	1
	β		26° 17'	20° 20'	13° 52'	11° 18'	9° 32'	7° 2'	5° 42'	4° 48'	4° 8'	3° 14'	2° 40'
CM090	Z		4	3	2	2	2	1	1	1	1	1	1
	β		29° 11'	22° 43'	15° 36'	12° 50'	10° 53'	7° 56'	6° 30'	5° 29'	4° 45'	3° 45'	3° 6'
CM110	Z		4	3	2	2	2	1	1	1	1	1	1
	β		28° 14'	21° 56'	15° 1'	14° 41'	12° 34'	7° 38'	7° 28'	6° 21'	5° 32'	4° 24'	3° 39'

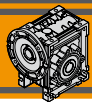
Efficiency

Rendimiento

	n ₁ [rpm]	Efficiency Rendimiento	Ratio / Relación											
			5	7.5	10	15	20	25	30	40	50	60	80	100
CM040	1750	Rd	88	86	84	81	78	74	70	65	60	58	52	46
		Rs	74	71	67	60	55	51	45	40	36	32	28	24
CM050	1750	Rd		87	85	82	79	76	72	67	63	60	54	49
		Rs		70	66	59	55	51	44	39	35	32	27	23
CM063	1750	Rd		88	86	84	81	78	75	70	66	63	57	52
		Rs		71	67	60	55	51	45	40	36	33	28	24
CM075	1750	Rd		89	87	84	83	80	77	73	69	66	60	56
		Rs		71	68	61	57	53	46	42	38	35	29	26
CM090	1750	Rd		90	88	86	84	83	79	76	72	69	64	60
		Rs		73	70	64	60	56	49	45	41	38	32	28
CM110	1750	Rd		89	88	86	85	84	80	79	76	73	68	64
		Rs		72	69	63	62	59	48	46	44	41	36	32



Theoretical efficiency of the gearbox after the first running period
Rendimiento teórico del reductor después del primer periodo de rodaje

**CM****RIGHT ANGLE WORMGEARBOXES**
REDUCTORES SINFIN CORONA**Technical data****Datos técnicos**

P ₁ [HP]	n ₂ [rpm]	M ₂ [lb.in]	sf	i		NEMA
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P ₁ [HP]	n ₂ [rpm]	M ₂ [lb.in]	sf	i		NEMA
------------------------	-------------------------	---------------------------	----	---	---	------

0.16

(1750 rpm)	350	25	12.9	5	CM040	56C
	233	37	9.4	7.5	CM040	56C
	175	48	7.4	10	CM040	56C
	117	70	5.1	15	CM040	56C
	88	90	3.5	20	CM040	56C
	70	107	2.8	25	CM040	56C
	58	121	3.2	30	CM040	56C
	44	150	2.2	40	CM040	56C
	35	173	1.8	50	CM040	56C
	29	201	1.4	60	CM040	56C
	22	240	1.1	80	CM040	56C
	18	265	0.9	100	CM040	56C
	35	182	3.2	50	CM050	56C
	29	208	2.6	60	CM050	56C
	22	249	1.9	80	CM050	56C
	18	283	1.6	100	CM050	56C

0.33

(1750 rpm)	88	188	3.1	20	CM050	56C
	70	226	2.5	25	CM050	56C
	58	257	2.7	30	CM050	56C
	44	319	1.9	40	CM050	56C
	35	375	1.5	50	CM050	56C
	29	428	1.3	60	CM050	56C
	22	514	0.9	80	CM050	56C
	18	583	0.8	100	CM050	56C

0.5

(1750 rpm)	350	79	4.1	5	CM040	56C
	233	116	3.0	7.5	CM040	56C
	175	151	2.4	10	CM040	56C
	117	219	1.6	15	CM040	56C
	88	281	1.1	20	CM040	56C
	70	333	0.9	25	CM040	56C
	58	378	1.0	30	CM040	56C
	117	222	2.9	15	CM050	56C
	88	285	2.0	20	CM050	56C
	70	342	1.6	25	CM050	56C
	58	389	1.8	30	CM050	56C
	44	483	1.3	40	CM050	56C
	35	568	1.0	50	CM050	56C
	29	649	0.8	60	CM050	56C
	70	351	3.1	25	CM063	56C
	58	406	3.3	30	CM063	56C
	44	505	2.2	40	CM063	56C
	35	595	1.8	50	CM063	56C
	29	681	1.5	60	CM063	56C
	22	822	1.1	80	CM063	56C
	18	937	1.0	100	CM063	56C
	35	622	2.7	50	CM075	56C
	29	714	2.3	60	CM075	56C
	22	865	1.7	80	CM075	56C
	18	1009	1.4	100	CM075	56C

0.25

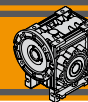
(1750 rpm)	350	40	8.2	5	CM040	56C
	233	58	6.0	7.5	CM040	56C
	175	76	4.7	10	CM040	56C
	117	109	3.3	15	CM040	56C
	88	141	2.3	20	CM040	56C
	70	167	1.8	25	CM040	56C
	58	189	2.0	30	CM040	56C
	44	234	1.4	40	CM040	56C
	35	270	1.1	50	CM040	56C
	29	314	0.9	60	CM040	56C
	44	241	2.5	40	CM050	56C
	35	284	2.0	50	CM050	56C
	29	324	1.7	60	CM050	56C
	22	389	1.2	80	CM050	56C
	18	442	1.0	100	CM050	56C

0.33

(1750 rpm)	350	52	6.2	5	CM040	56C
	233	77	4.6	7.5	CM040	56C
	175	100	3.6	10	CM040	56C
	117	145	2.5	15	CM040	56C
	88	186	1.7	20	CM040	56C
	70	220	1.4	25	CM040	56C
	58	250	1.5	30	CM040	56C
	44	309	1.1	40	CM040	56C
	35	357	0.9	50	CM040	56C

0.75

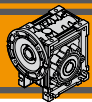
(1750 rpm)	233	176	3.6	7.5	CM050	56C
	175	230	2.8	10	CM050	56C
	117	333	2.0	15	CM050	56C
	88	427	1.3	20	CM050	56C
	70	514	1.1	25	CM050	56C
	58	584	1.2	30	CM050	56C
	44	724	0.8	40	CM050	56C



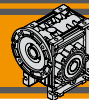
Technical data

Datos técnicos

P ₁ [HP]	n ₂ [rpm]	M ₂ [lb.in]	sf	i		NEMA	P ₁ [HP]	n ₂ [rpm]	M ₂ [lb.in]	sf	i		NEMA
0.75							1.5						
(1750 rpm)	88	438	2.5	20	CM063	56C	(1750 rpm)	233	357	3.2	7.5	CM063	56C-140TC
	70	527	2.0	25	CM063	56C		175	465	2.5	10	CM063	56C-140TC
	58	608	2.2	30	CM063	56C		117	681	1.8	15	CM063	56C-140TC
	44	757	1.5	40	CM063	56C		88	876	1.2	20	CM063	56C-140TC
	35	892	1.2	50	CM063	56C		70	1054	1.0	25	CM063	56C-140TC
	29	1022	1.0	60	CM063	56C		58	1217	1.1	30	CM063	56C-140TC
	22	1233	0.8	80	CM063	56C							
	44	789	2.4	40	CM075	56C		117	681	2.9	15	CM075	56C-140TC
	35	933	1.8	50	CM075	56C		88	898	2.0	20	CM075	56C-140TC
	29	1071	1.6	60	CM075	56C		70	1081	1.5	25	CM075	56C-140TC
	22	1298	1.2	80	CM075	56C		58	1249	1.7	30	CM075	56C-140TC
	18	1514	0.9	100	CM075	56C		44	1579	1.2	40	CM075	56C-140TC
	35	973	2.9	50	CM090	56C		35	1865	0.9	50	CM075	56C-140TC
	29	1119	2.3	60	CM090	56C		29	2141	0.8	60	CM075	56C
	22	1384	1.7	80	CM090	56C		70	1122	2.4	25	CM090	56C-140TC
	18	1622	1.4	100	CM090	56C		58	1281	2.8	30	CM090	56C-140TC
								44	1644	2.0	40	CM090	56C-140TC
								35	1946	1.5	50	CM090	56C-140TC
								29	2238	1.2	60	CM090	56C-140TC
								22	2768	0.9	80	CM090	56C
								35	2055	2.5	50	CM110	140TC
								29	2368	1.9	60	CM110	140TC
								22	2941	1.4	80	CM110	140TC
								18	3460	1.1	100	CM110	140TC
1							2						
(1750 rpm)	233	235	2.7	7.5	CM050	56C	(1750 rpm)	233	476	2.4	7.5	CM063	140TC
	175	306	2.1	10	CM050	56C		175	620	1.9	10	CM063	140TC
	117	443	1.5	15	CM050	56C		117	908	1.4	15	CM063	140TC
	88	570	1.0	20	CM050	56C		88	1168	0.9	20	CM063	140TC
	70	685	0.8	25	CM050	56C		70	1406	0.8	25	CM063	140TC
	58	779	0.9	30	CM050	56C		58	1622	0.8	30	CM063	140TC
	117	454	2.7	15	CM063	56C-140TC							
	88	584	1.9	20	CM063	56C-140TC		117	908	2.2	15	CM075	140TC
	70	703	1.5	25	CM063	56C-140TC		88	1197	1.5	20	CM075	140TC
	58	811	1.6	30	CM063	56C-140TC		70	1442	1.1	25	CM075	140TC
	44	1009	1.1	40	CM063	56C		58	1665	1.3	30	CM075	140TC
	35	1189	0.9	50	CM063	56C		44	2105	0.9	40	CM075	140TC
	70	721	2.2	25	CM075	56C-140TC		88	1211	2.5	20	CM090	140TC
	58	833	2.6	30	CM075	56C-140TC		70	1496	1.8	25	CM090	140TC
	44	1053	1.8	40	CM075	56C-140TC		58	1709	2.1	30	CM090	140TC
	35	1244	1.4	50	CM075	56C-140TC		44	2192	1.5	40	CM090	140TC
	29	1427	1.2	60	CM075	56C		35	2595	1.1	50	CM090	140TC
	22	1730	0.9	80	CM075	56C		29	2984	0.9	60	CM090	140TC
	44	1096	2.9	40	CM090	56C-140TC							
	35	1298	2.2	50	CM090	56C-140TC							
	29	1492	1.8	60	CM090	56C-140TC							
	22	1845	1.3	80	CM090	56C							
	18	2163	1.0	100	CM090	56C							
	29	1579	2.9	60	CM110	140TC							
	22	1961	2.1	80	CM110	140TC							
	18	2307	1.7	100	CM110	140TC							

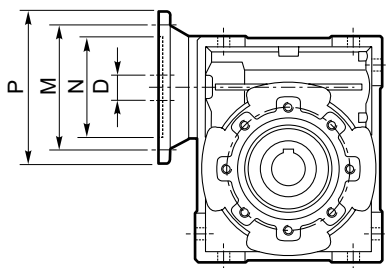
**CM****RIGHT ANGLE WORMGEARBOXES**
REDUCTORES SINFIN CORONA**Technical data****Datos técnicos**

P ₁ [HP]	n ₂ [rpm]	M ₂ [lb.in]	sf	i		NEMA	P ₁ [HP]	n ₂ [rpm]	M ₂ [lb.in]	sf	i		NEMA
2							5						
(1750 rpm)	58	1730	3.5	30	CM110	140TC	(1750 rpm)	233	1203	1.5	7.5	CM075	180TC
	44	2278	2.5	40	CM110	140TC		175	1568	1.2	10	CM075	180TC
	35	2739	1.9	50	CM110	140TC		117	2271	0.9	15	CM075	180TC
	29	3158	1.5	60	CM110	140TC		233	1217	2.1	7.5	CM090	180TC
	22	3922	1.1	80	CM110	140TC		175	1586	1.8	10	CM090	180TC
	18	4614	0.8	100	CM110	140TC		117	2325	1.4	15	CM090	180TC
3								88	3028	1.0	20	CM090	180TC
(1750 rpm)	233	722	2.4	7.5	CM075	180TC		70	3740	0.7	25	CM090	180TC
	175	941	2.0	10	CM075	180TC		58	4271	0.9	30	CM090	180TC
	117	1362	1.5	15	CM075	180TC		117	2325	2.3	15	CM110	180TC
	117	1395	2.3	15	CM090	180TC		88	3064	1.7	20	CM110	180TC
	88	1817	1.7	20	CM090	180TC		70	3785	1.3	25	CM110	180TC
	70	2244	1.2	25	CM090	180TC		58	4325	1.4	30	CM110	180TC
	58	2563	1.4	30	CM090	180TC		44	5695	1.0	40	CM110	180TC
	88	1838	2.9	20	CM110	180TC		35	6848	0.8	50	CM110	180TC
	70	2271	2.2	25	CM110	180TC	7.5						
	58	2595	2.3	30	CM110	180TC	(1750 rpm)	233	1804	2.5	7.5	CM110	210TC
	44	3417	1.7	40	CM110	180TC		175	2379	2.1	10	CM110	210TC
	35	4109	1.3	50	CM110	180TC		117	3487	1.5	15	CM110	210TC
	29	4736	1.0	60	CM110	180TC		88	4596	1.1	20	CM110	210TC
10							(1750 rpm)	233	2406	1.9	7.5	CM110	210TC
								175	3172	1.5	10	CM110	210TC
								117	4650	1.2	15	CM110	210TC
								88	6128	0.9	20	CM110	210TC



Motor adapters

Motores aplicables



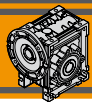
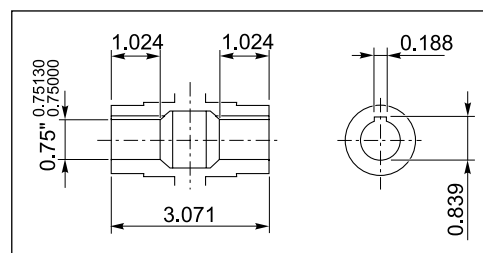
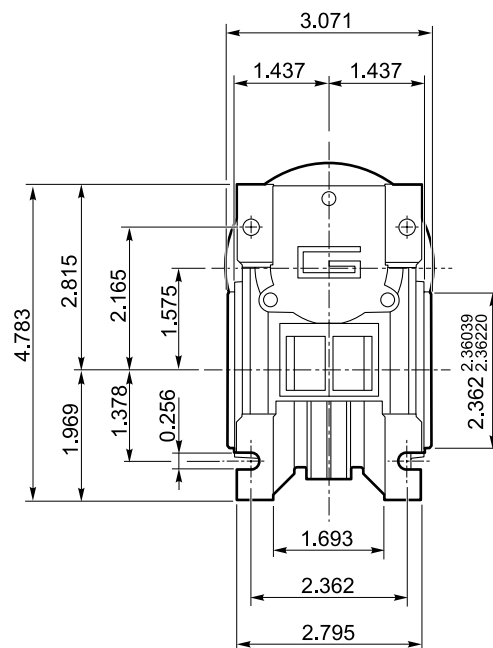
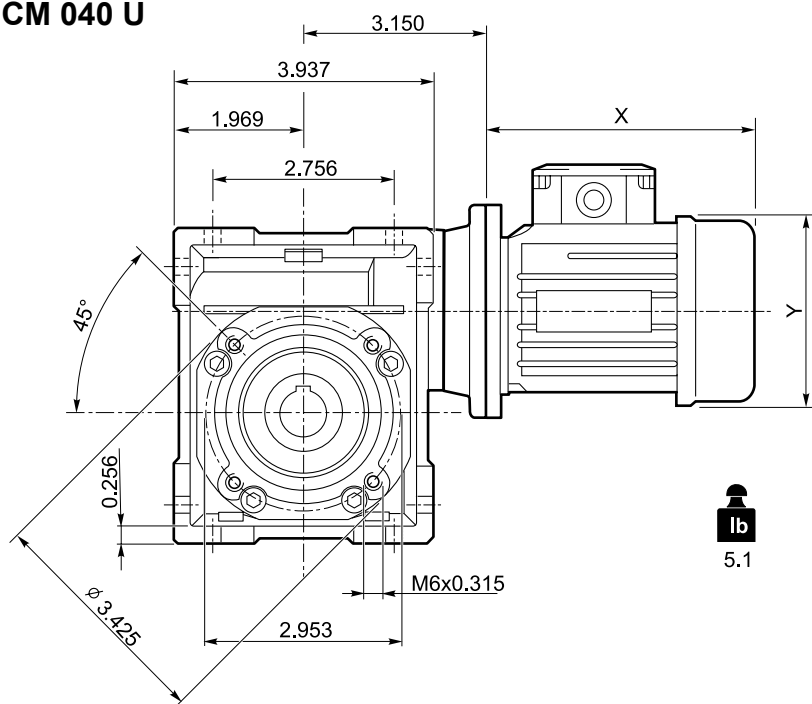
	Hollow output sizes Medidas eje hueco	Nema flange Nema brida	Dimensions [inches] Dimensiones [inches]				i											
			N	M	P	D	5	7.5	10	15	20	25	30	40	50	60	80	100
CM040	0.75"	56C	4.5	5.88	6.5	0.625												
CM050	1"	56C	4.5	5.88	6.5	0.625												
CM063	1.125"	140TC	4.5	5.88	6.5	0.875												
		56C	4.5	5.88	6.5	0.625		B	B	B	B	B	B					
CM075	1.25"	180TC	8.5	7.25	9	1.125												
		140TC	4.5	5.88	6.5	0.875		B	B	B								
		56C	4.5	5.88	6.5	0.625		BS	BS	BS	B	B	B	B	B			
CM090	1.375"	180TC	8.5	7.25	9	1.125												
		140TC	4.5	5.88	6.5	0.875		B	B	B	B	B	B					
		56C	4.5	5.88	6.5	0.625		BS	BS	BS	BS	BS	BS	BS	B	B		
CM110	1.625"	210TC	8.5	7.25	9	1.375												
		180TC	8.5	7.25	9	1.125		B	B	B	B							
		140TC	4.5	5.88	6.5	0.875		BS	BS	BS	BS	B	B	B	B	B		

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

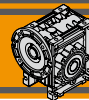
Nota: las areas grises indican la aplicabilidad del correspondiente tamaño del motor

B/BS = Metal shaft sleeve

B/BS = Casquillo de reducción en acero

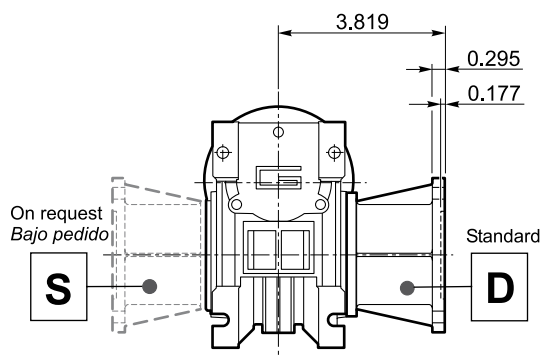
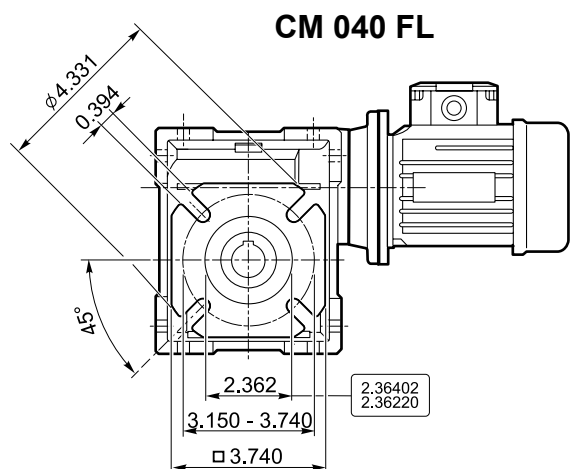
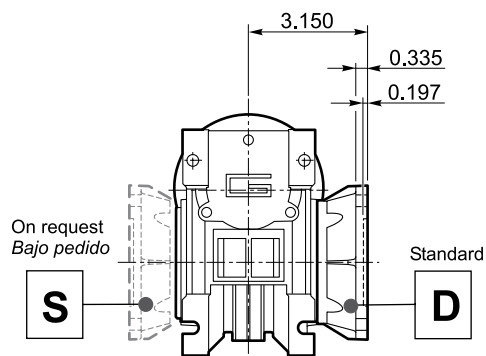
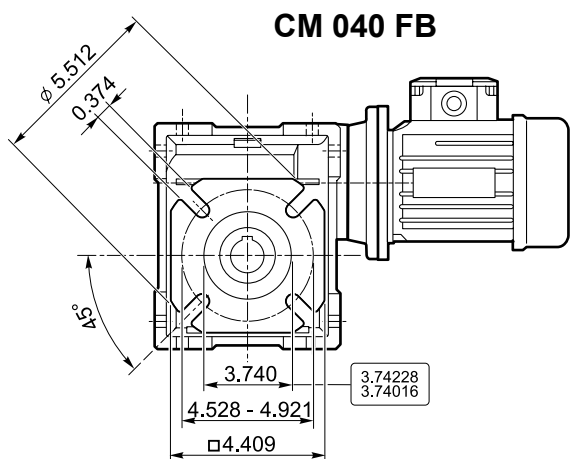
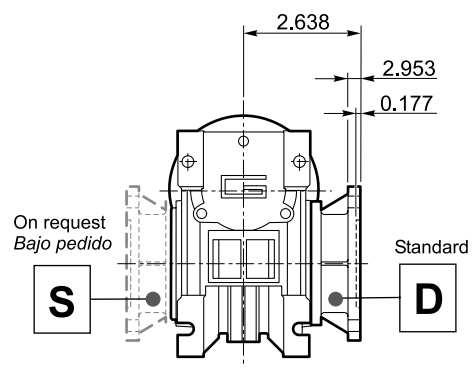
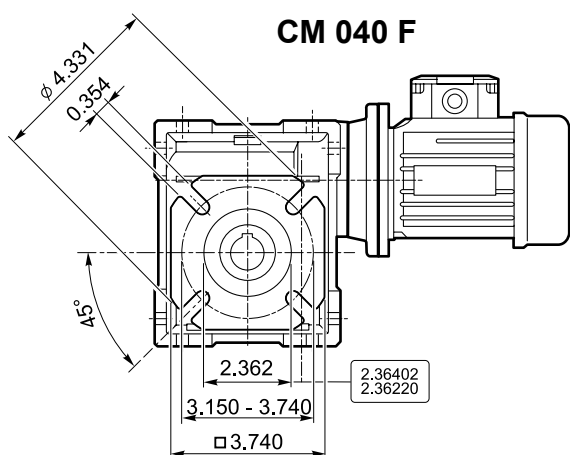
**CM****RIGHT ANGLE WORMGEARBOXES**
REDUCTORES SINFIN CORONA**Dimensions****Dimensiones****CM 040 U**

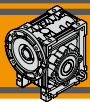
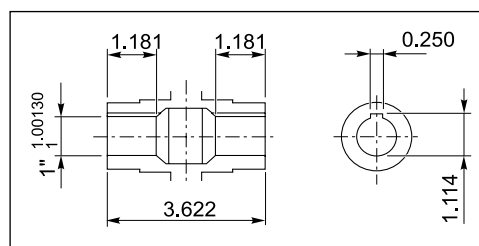
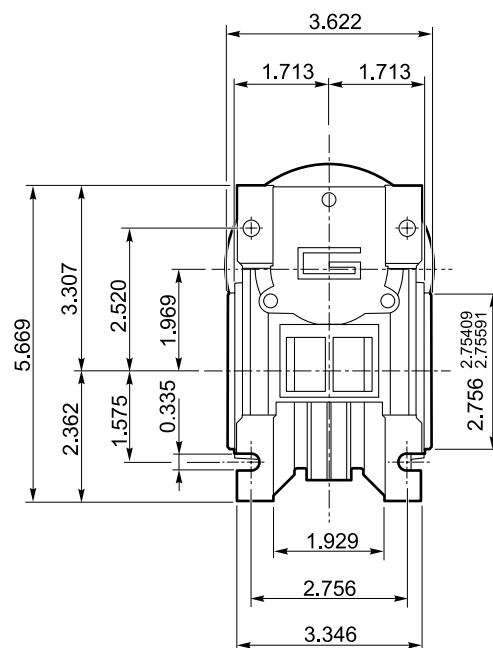
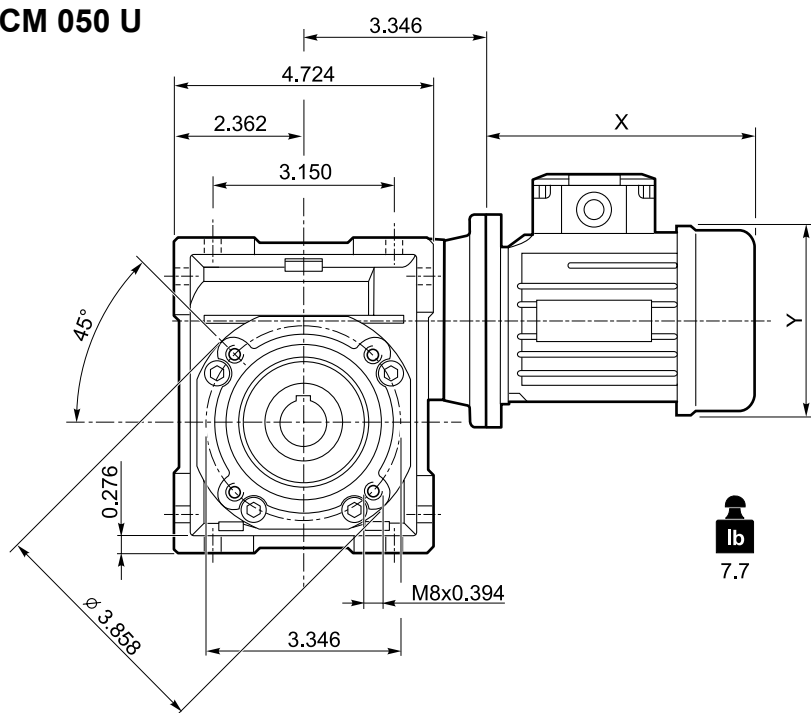
Hollow output shaft / Eje hueco de salida



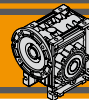
Dimensions

Dimensiones



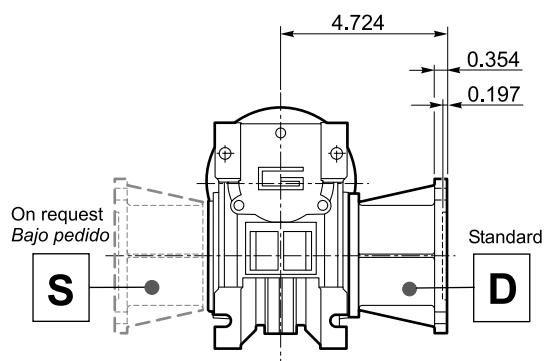
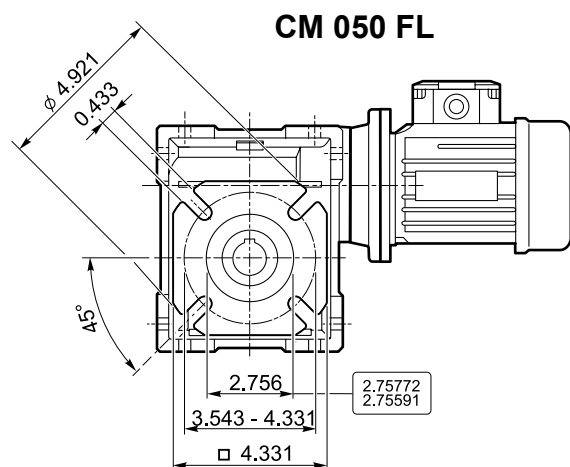
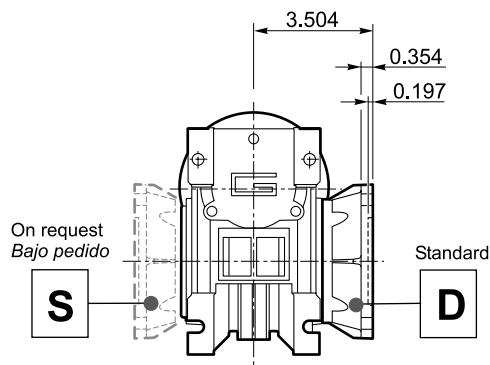
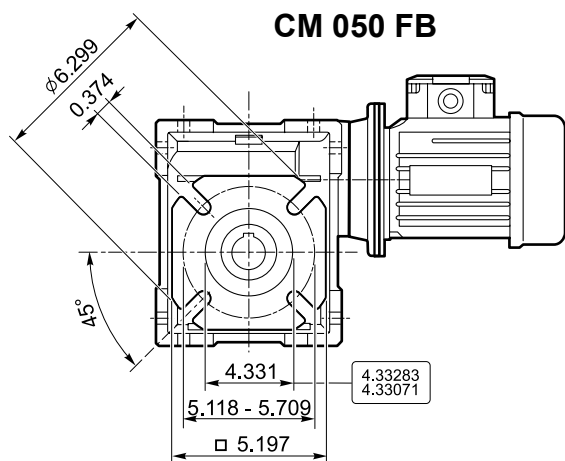
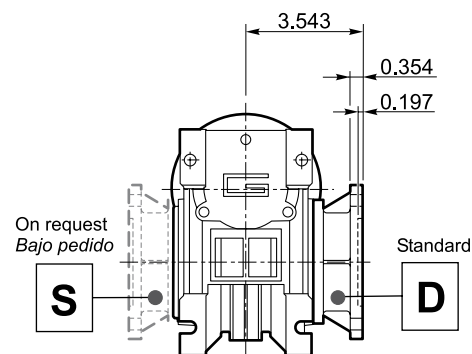
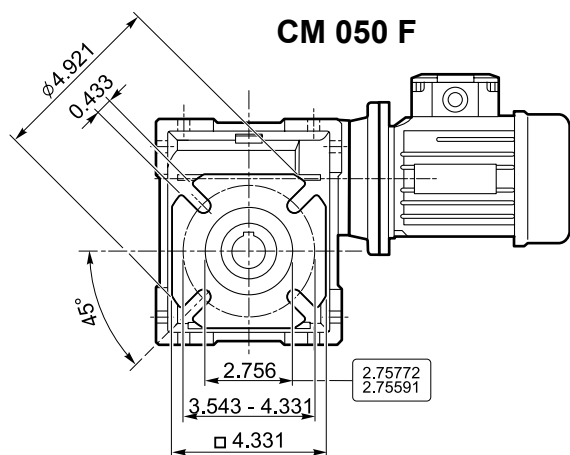
**CM****RIGHT ANGLE WORMGEARBOXES**
REDUCTORES SINFIN CORONA**Dimensions****Dimensiones****CM 050 U**

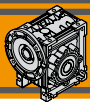
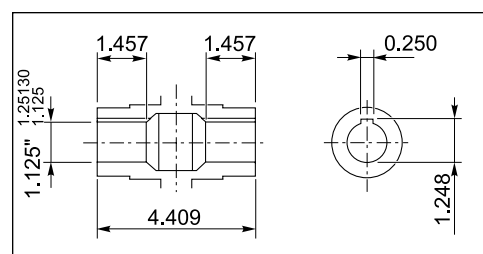
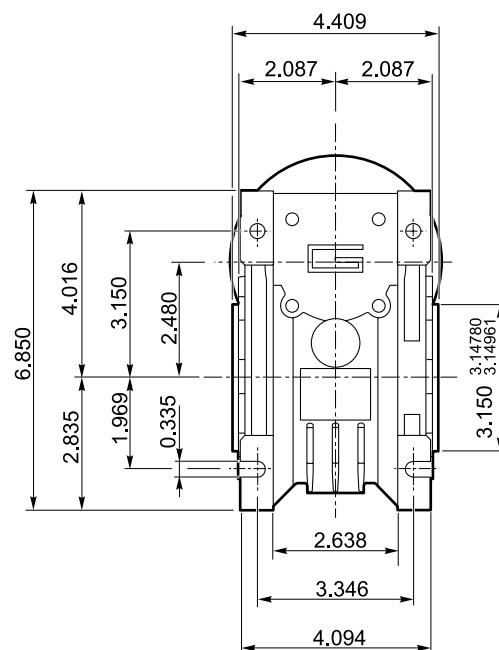
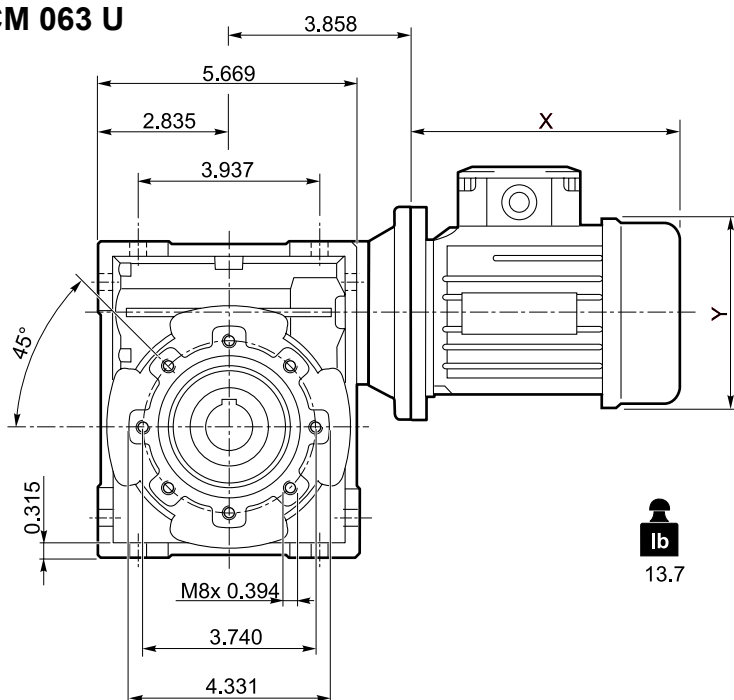
Hollow output shaft / Eje hueco de salida



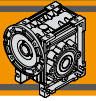
Dimensioni

Dimensions



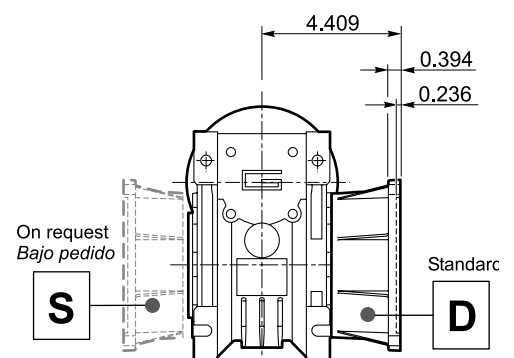
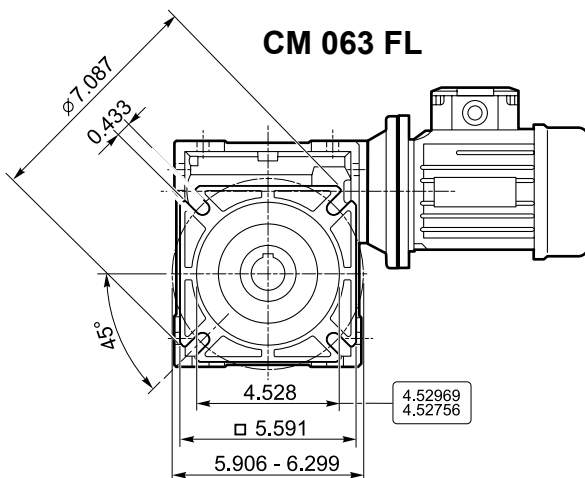
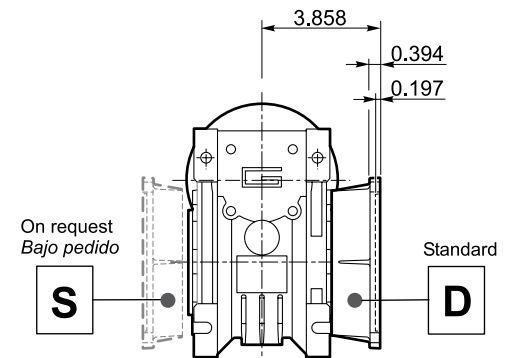
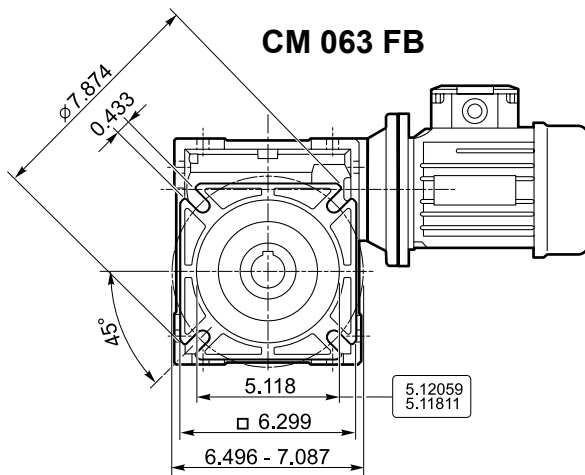
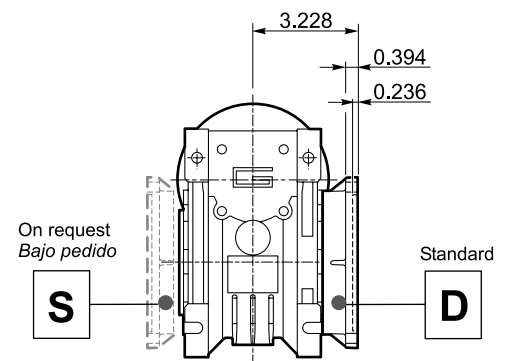
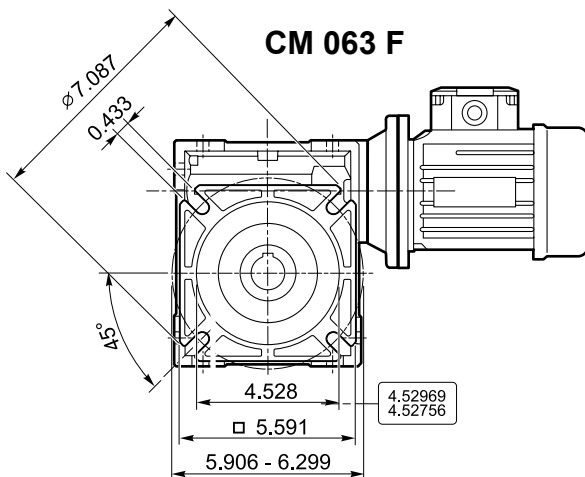
**CM****RIGHT ANGLE WORMGEARBOXES**
REDUCTORES SINFIN CORONA**Dimensioni****Dimensions****CM 063 U**

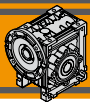
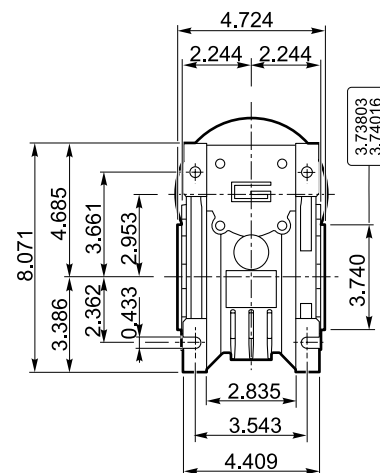
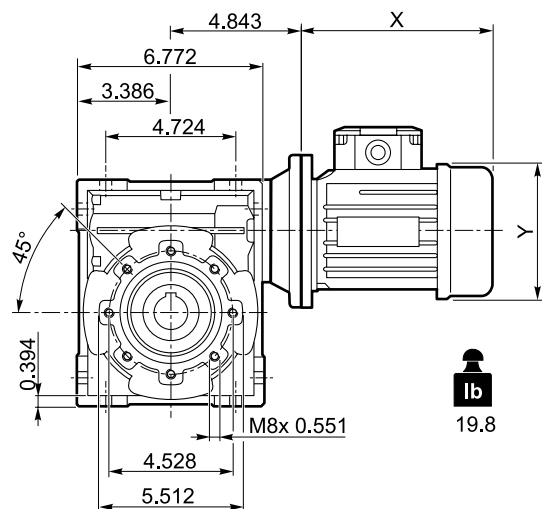
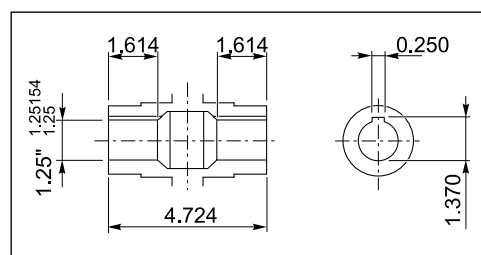
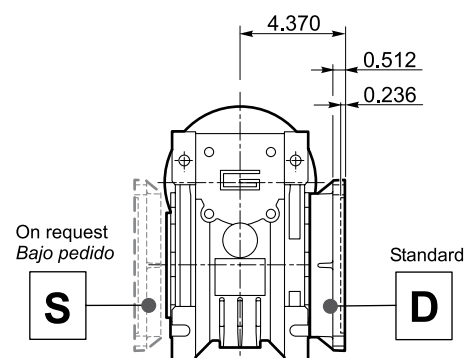
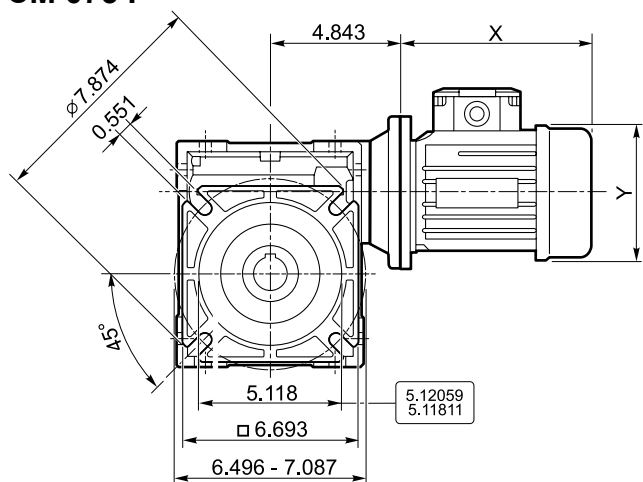
Hollow output shaft / Eje hueco de salida



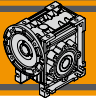
Dimensions

Dimensiones



**CM****RIGHT ANGLE WORMGEARBOXES**
REDUCTORES SINFIN CORONA**Dimensions****Dimensiones****CM 075 U****CM 075 F**

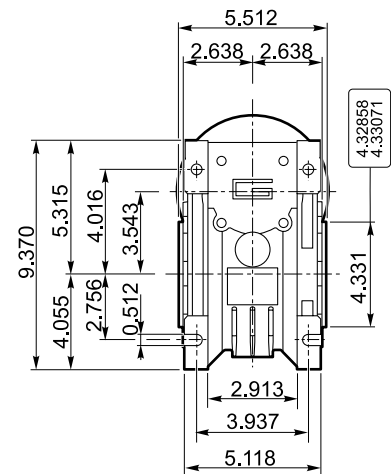
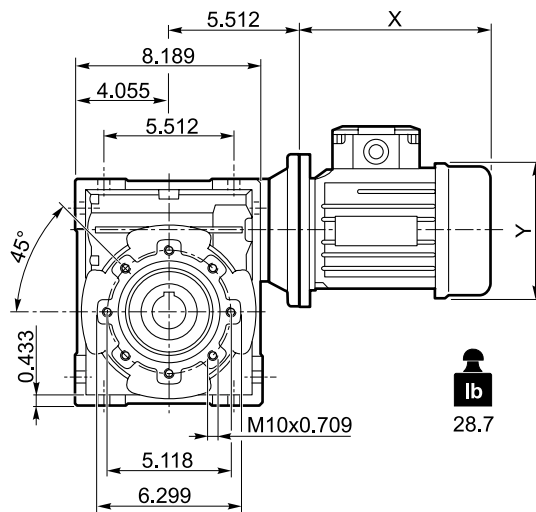
Hollow output shaft / Eje hueco de salida



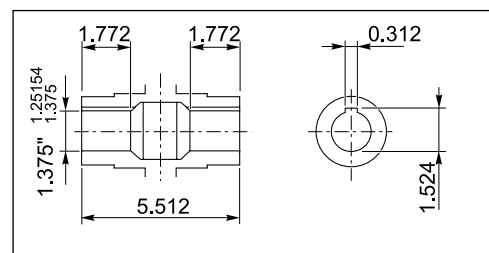
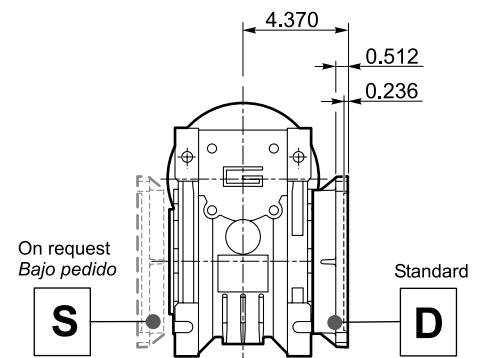
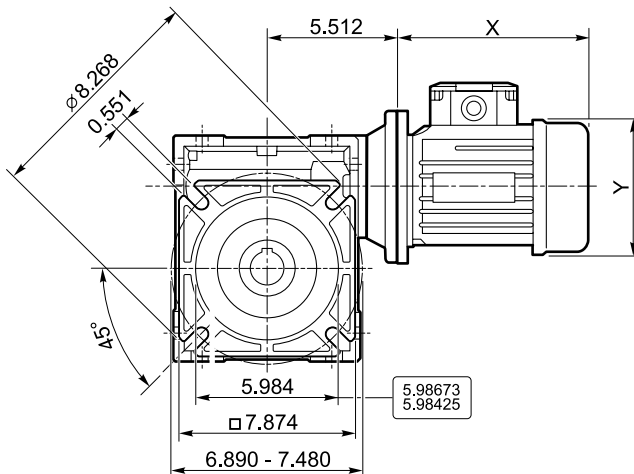
Dimensions

Dimensiones

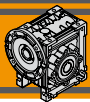
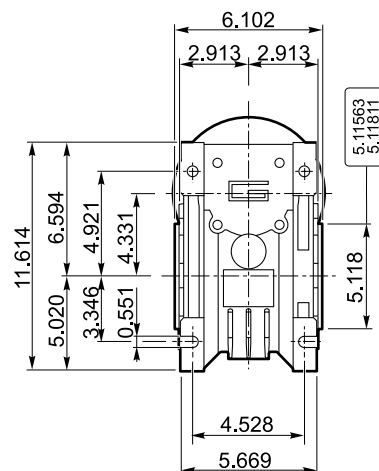
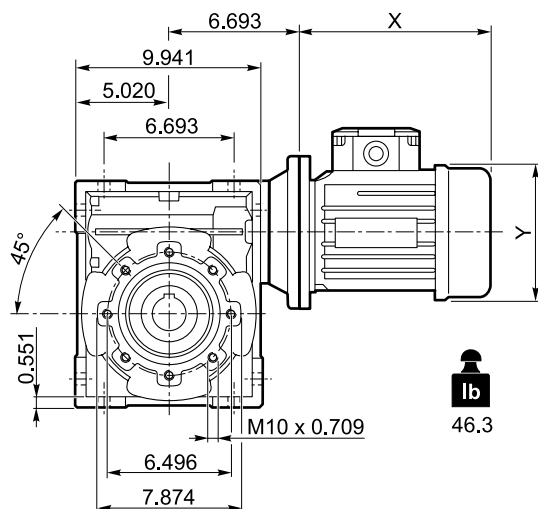
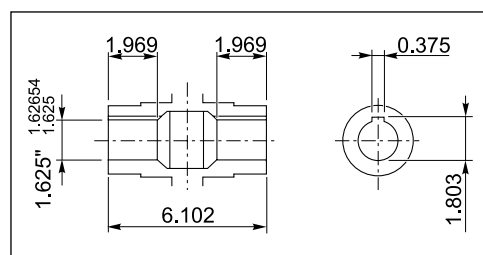
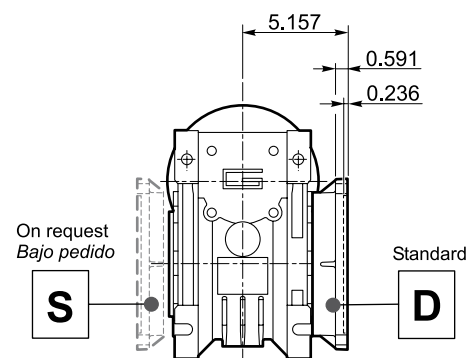
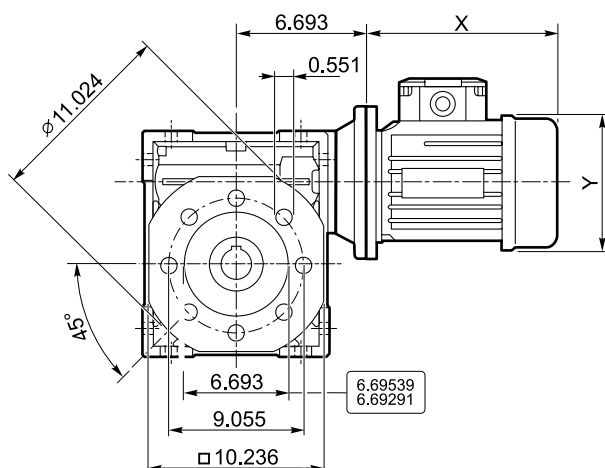
CM 090 U



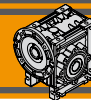
CM 090 F



Hollow output shaft / Eje hueco de salida

**CM****RIGHT ANGLE WORMGEARBOXES**
REDUCTORES SINFIN CORONA**Dimensions****Dimensiones****CM 110 U****CM 110 F**

Hollow output shaft / Eje hueco de salida

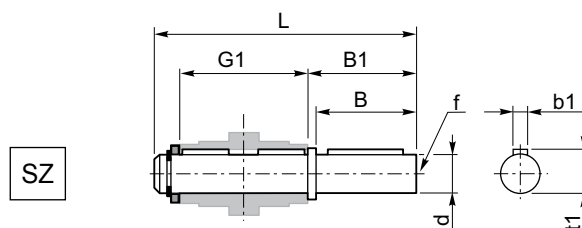
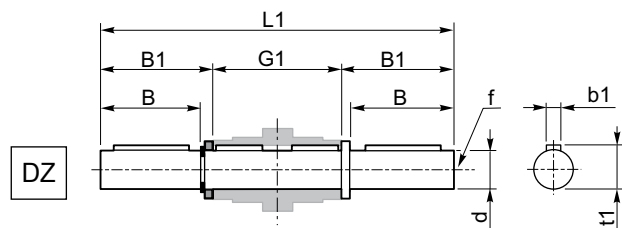


Accessories

Accesorios

Single and double output shaft

Eje de salida simple y doble

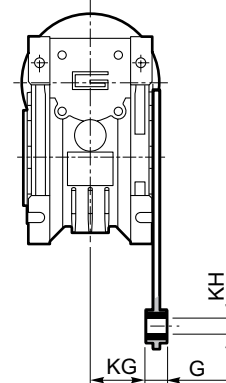
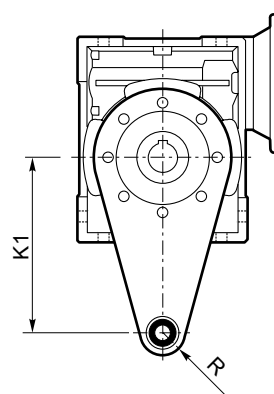


CM	d h7	B	B1	G1	L	L1	f	b1	t1
040	0.750	1.969	2.087	3.071	5.394	7.244	1/4"-20	0.188	0.830
050	1.000	1.969	2.106	3.622	6.004	7.835	3/8"-16	0.250	1.108
063	1.125	2.362	2.500	4.409	7.224	9.409	3/8"-16	0.250	1.230
075	1.250	2.756	2.894	4.724	7.933	10.512	1/2"-13	0.250	1.360
090	1.375	3.150	3.327	5.512	9.232	12.165	1/2"-13	0.312	1.509
110	1.625	3.543	3.720	6.102	10.217	13.543	5/8"-11	0.375	1.789

Torque arm

Brazo de reacción

CM	K1	G	KG	KH	R
040	3.937	0.551	1.220	0.394	0.709
050	3.937	0.551	1.496	0.394	0.709
063	5.906	0.551	1.870	0.394	0.709
075	7.874	0.984	1.831	0.787	1.181
090	7.874	0.984	2.224	0.787	1.181
110	9.843	1.181	2.441	0.984	1.378

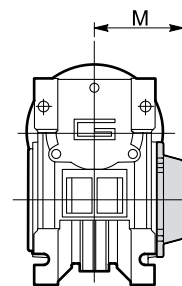
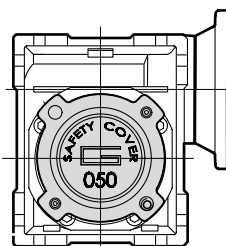


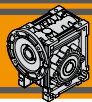
Options

Opciones

SC - Safety cover

CM	M
040	2.146
050	2.461
063	2.874
075	3.110
090	3.701
110	4.016





Note

HEADQUARTERS



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