

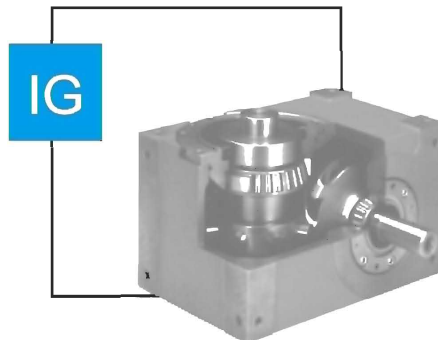
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# ROLLER GEAR INDEX DRIVES

## UNIDAD DE GIRO INTERMITENTE A LEVA GLOBOIDAL

ENG

### IG SERIES

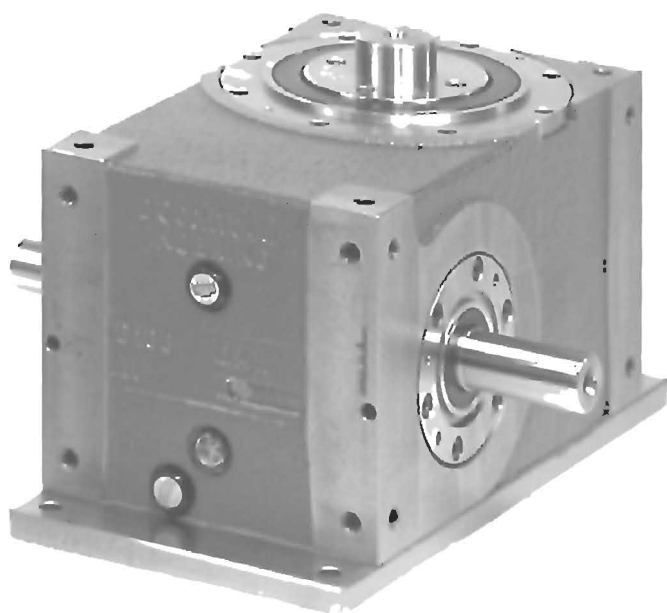
Sizes: 63 - 80 - 82.5 - 100 - 108 - 125 - 140 - 160 - 200

Stops: 1 to 24 including odd stops

Special Stops: on request

- Compact cast iron alloy housing IG 63 aluminum alloy
- Universal mounting position
- Available with flanged output or a solid output shaft (IGA)
- Through hole on request
- High station-to-station accuracy
- Double extended cam-shaft
- CNC hardened cam-profiles
- Oscillating and complex cam-motions available
- Oil bath lubrication; appropriate seals prevent oil leakage in any working position
- Can be fitted with reducer and drive

**Size** = distance between input and output axes in mm.



ESP

### UNIDAD SERIE IG

Tamaños: 63 - 80 - 82,5 - 100 - 108 - 125 - 140 - 160 - 200

Divisiones standard: da 1 a 24

Divisiones especiales: a pregunta

- Caja compacta en fundición perlitica IG 63 en aleación ligera
- Posición de montaje universal
- Salida de movimiento con empalme a brida o con eje, IGA
- Eje salida con agujero pasante, disponible bajo demanda
- Elevada precisión de paro de división a división
- Eje de entrada doble
- Temple por inducción CNC en el perfil de la leva
- Posibilidad de movimiento oscilante, o leyes de movimiento personalizadas
- Lubricación en baño de aceite
- Sistema de guarnición con estanqueidad garantizada en cualquier posición de trabajo
- Posibilidad de acoplamiento directo al motorreductor

**Tamaño** = Distancia entre ejes

# LOADS ON IG SERIES

## CARGAS ADMISIBLES MESAS SERIE IG

ENG

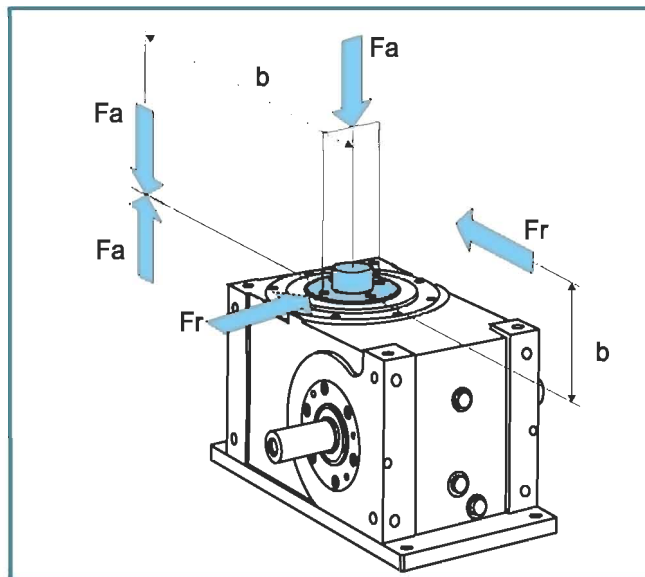
### LOADS ON THE OUTPUT FLANGE

Fa = Axial force (N)  
Fr = Radial force (N)  
Mr = Overturning moment (Nm)  
b = Distance (m)

$$Fr \cdot b = Mr$$

$$Fa \cdot b = Mr$$

 Rotating element



ESP

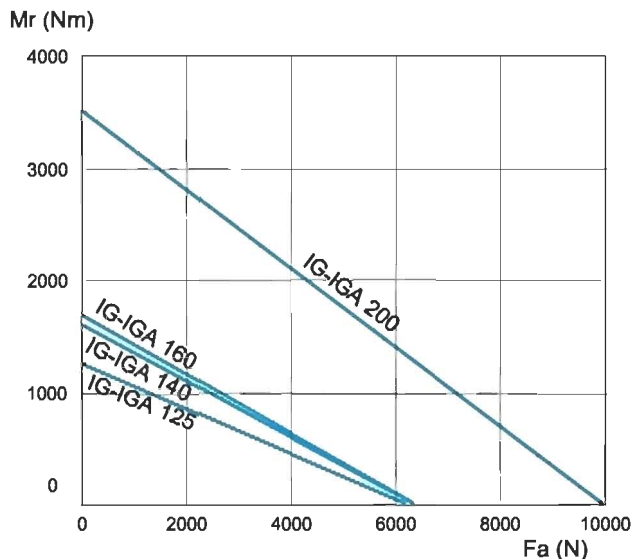
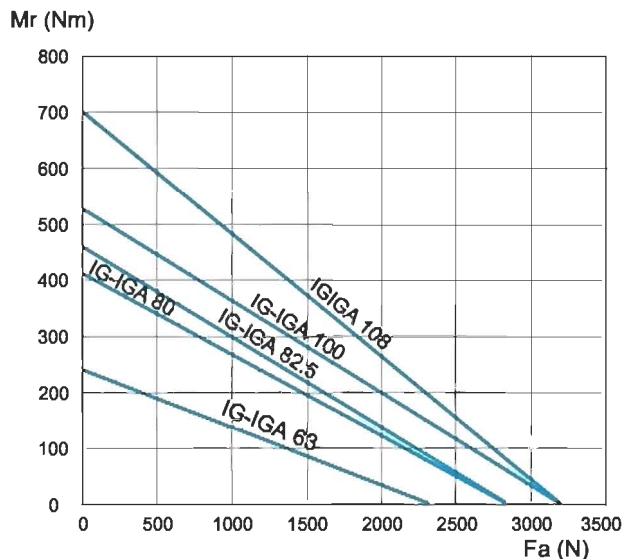
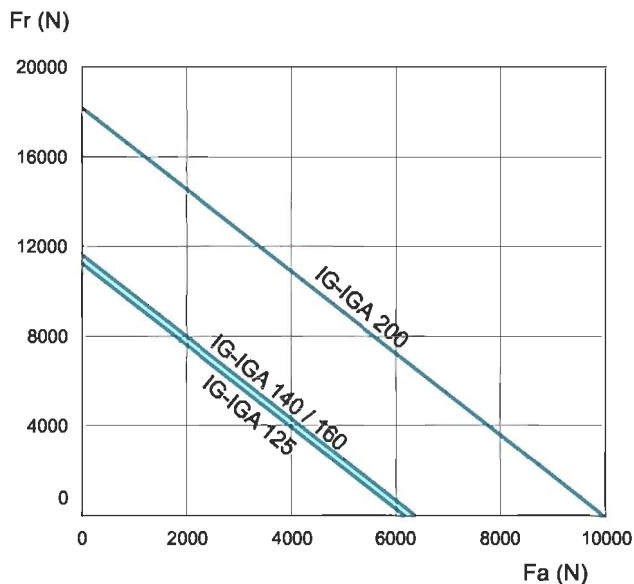
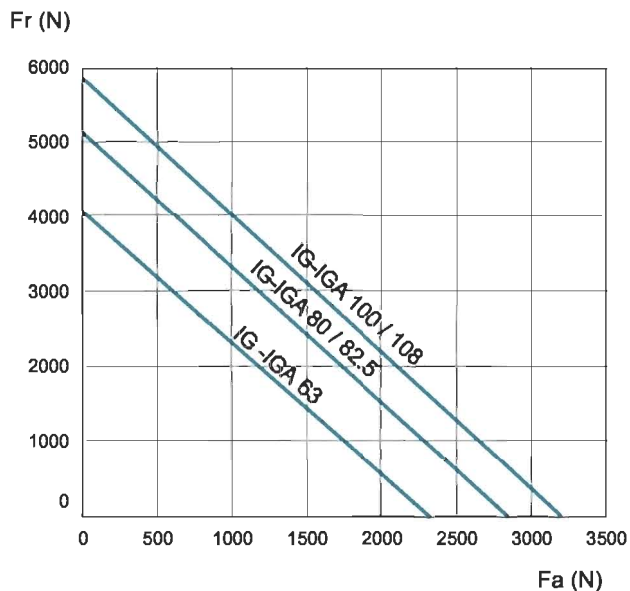
### CARGAS EN EL DIVISOR

Fa = Fuerza Axial (N)  
Fr = Fuerza radial (N)  
Mr = Momento Vuelco (Nm)  
b = Distancia (m)

$$Fr \cdot b = Mr$$

$$Fa \cdot b = Mr$$

 Elemento de Giro



ENG

## LOADS WITH INDEX DRIVE UPSIDE-DOWN (TRACTION ON THE OUTPUT AXIS)

When the roller gear is used in an **upside-down** position (**B**), the weight of transported masses generates an **axial traction force "T"** on the output axis. The schedule shows the maximum values in relation to size of the tables.

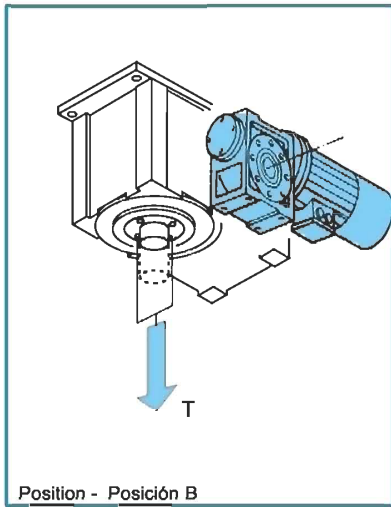
The diagrams show the curves referred to **maximum value (Fre/Me)** for the input shaft. The values are referred to a **rotation speed of 100 rpm of the cam-shaft**.

ESP

## CARGAS CON MESA INVERTIDA (TRACCIÓN EN EL DIVISOR)

Quando la unidad se emplea en posición invertida (**B**) el peso de las masas transportadas genera una **carga axial de tracción "T"** en el divisor. La tabla detalla los valores máximos respecto del tamaño de las mesas.

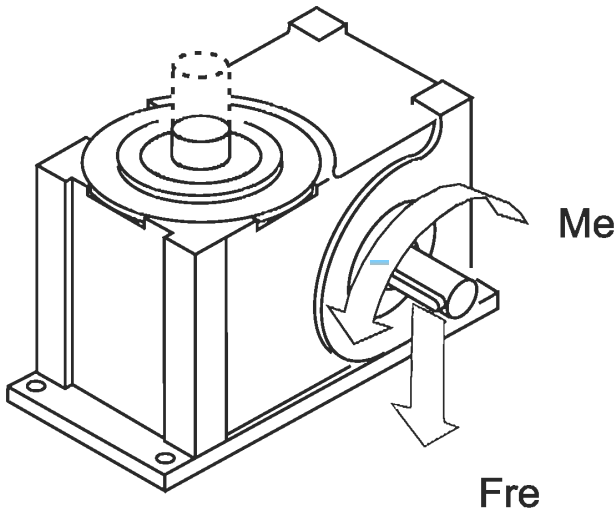
Los diagramas detallan las **curvas** relativas a los **valores máximos de (Fre / Me)** por eje de entrada de las diferentes unidad. Los valores indicados se refieren a una **velocidad de rotación del eje de 100 rpm**



Position - Posición B

Rotating element - Elemento de Giro

IG-IGA	63	80	83,5	100	108	125	140	160	200
Load- Carga T (N)	2313	2843	2843	3199	3199	6176	6341	6341	9974



Rotating element - Elemento de Giro

## LOADS ON THE CAM-SHAFT CARGAS SOBRE EJE DE ENTRADA IG-IGA

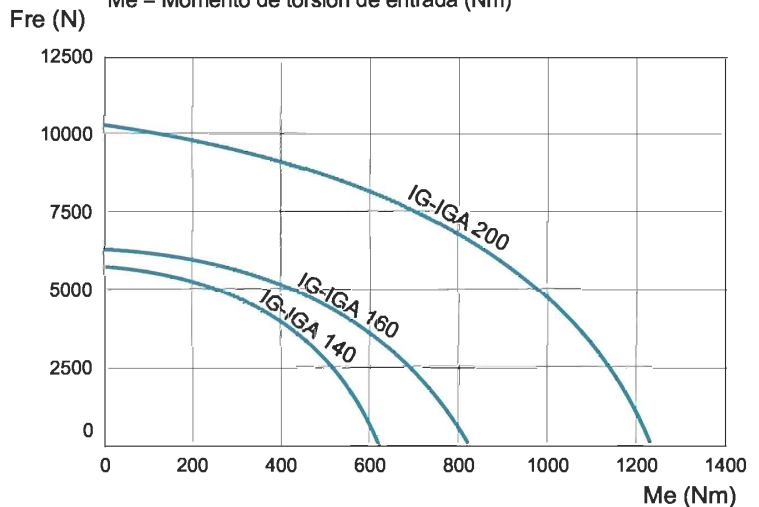
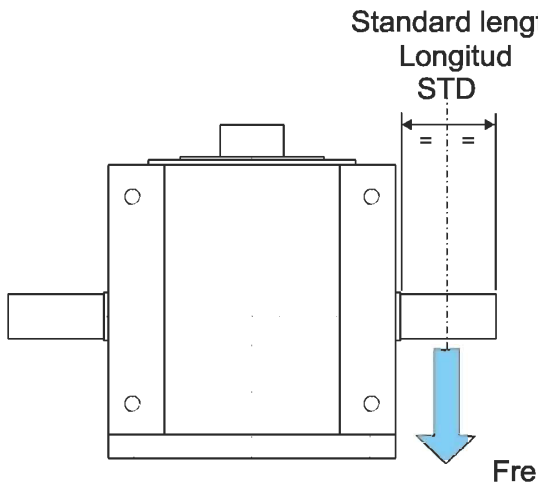


Fre = Input radial force (N)

Me = Input torque (Nm)

Fre = Fuerza radial de entrada (N)

Me = Momento de torsión de entrada (Nm)



# LOAD ON OUTPUT SHAFT IGA

## CARGAS SOBRE EJE DE SALIDA IGA

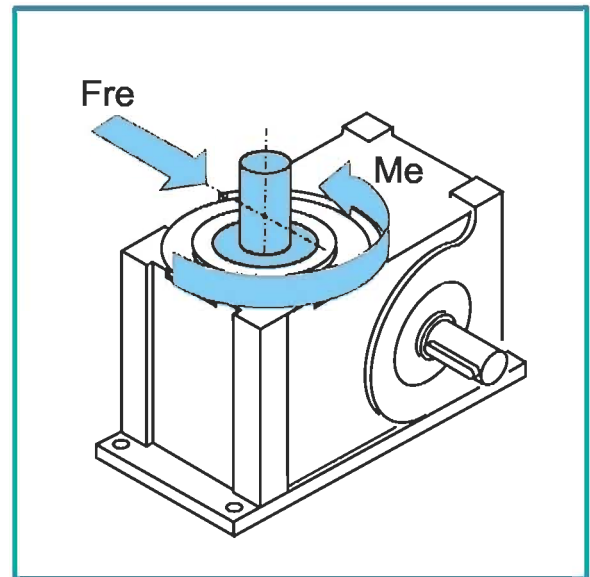
ENG

### LOADS ON OUTPUT SHAFT IGA

Fre = Output radial force (N)  
Me = Output torque (Nm)

The diagrams show the curves referred to **maximum value (Fre/Me)** for the input shaft. The values are referred to a **rotation speed of 100 rpm of the cam-shaft.**

 Rotating element



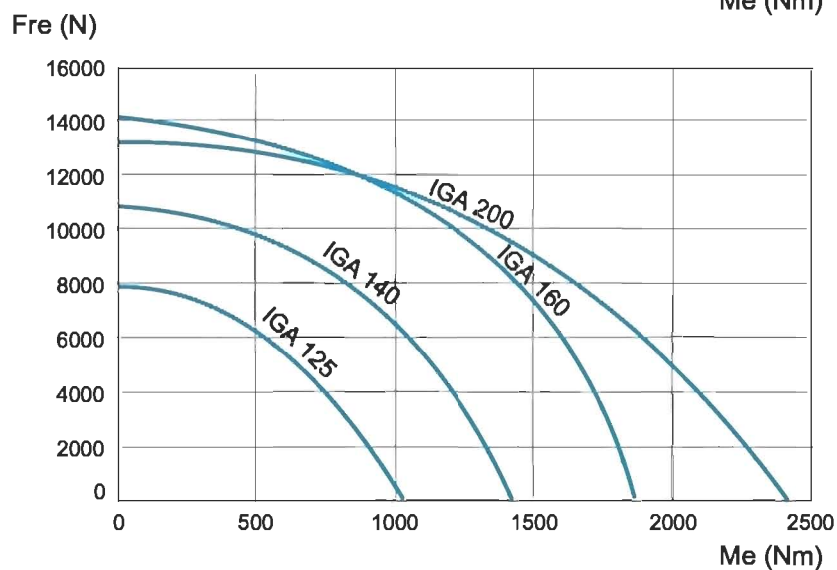
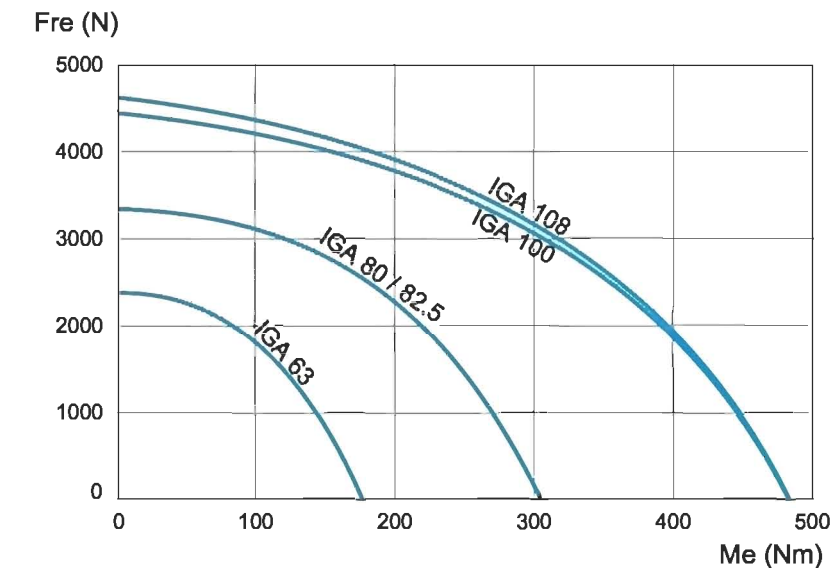
ESP

### CARGAS EN EL DIVISOR

Fre = Fuerza radial de salida (N)  
Me = Momento de torsión de salida (Nm)

Los diagramas detallan las **curvas** relativas a los **valores máximos de (Fre / Me)** por eje de entrada de las diferentes mesas. Los valores indicados se refieren a una velocidad de **rotación del eje de 100 rpm**

 Elemento de Giro



ENG	Type	Number of Stops S	Index angle (α°)	Maximum output torque - Mtu - (Nm)				Motion coefficients			Ptc. rad. Rp (mm)	Roller o. d. Dr (mm)	Inertia Jc (kgm <sup>2</sup> )	Mch.fr (•) Mam (Nm)	
				Speed - (rpm)				Acc. Ca	Speed Cv	Disp. Ck					
				50 rpm	100 rpm	200 rpm	300 rpm								
IG 63		1	270	41	37	27	20	8.01	1.28	5.73	33	12	0.0031	5.9	
IG 80				77	71	54	41	8.01	1.28	5.73	42	16	0.0052	10.2	
IG 82.5				77	72	54	41	8.01	1.28	5.73	42	16	0.0052	10.2	
IG 100				228	227	193	160	8.01	1.28	5.73	54	30	0.0085	22.0	
IG 125				274	271	216	175	8.01	1.28	5.73	64	30	0.0121	27.3	
IG 140				451	448	370	307	8.01	1.28	5.73	75	35	0.0146	36.1	
IG 160				507	501	383	290	8.01	1.28	5.73	85	35	0.0359	41.7	
IG 200				1273	1245	981	669	8.01	1.28	5.73	108	50	0.1473	72.8	
IG 63				330	52	50	39	31	8.01	1.28	5.73	33	14	0.0031	6.8
IG 80			84		79	61	49	8.01	1.28	5.73	42	16	0.0052	10.2	
IG 82.5			84		79	61	49	8.01	1.28	5.73	42	16	0.0052	10.2	
IG 100			251		250	216	184	8.01	1.28	5.73	54	30	0.0085	22.0	
IG 125			300		299	242	203	8.01	1.28	5.73	64	30	0.0121	27.3	
IG 140			495		493	412	351	8.01	1.28	5.73	75	35	0.0146	36.1	
IG 160			559		554	436	353	8.01	1.28	5.73	85	35	0.0359	41.7	
IG 200			1407		1389	1145	880	8.01	1.28	5.73	108	50	0.1473	72.8	
IG 63			2		150	50	49	43	31	8.01	1.28	5.73	33	14	0.0031
IG 80				110		108	102	81	8.01	1.28	5.73	42	20	0.0053	12.5
IG 82.5		138		137		130	111	8.01	1.28	5.73	42	25	0.0055	15.5	
IG 100		172		169		160	127	8.01	1.28	5.73	54	25	0.0079	18.6	
IG 108		176		174		160	124	8.01	1.28	5.73	51	25	0.0078	21.9	
IG 140		335		331		309	245	8.01	1.28	5.73	75	30	0.0128	31.2	
IG 160		534		523		480	352	8.01	1.28	5.73	85	35	0.0386	47.2	
IG 200		1338		1293		1115	764	8.01	1.28	5.73	108	50	0.1473	72.8	
IG 63		180		54		53	48	38	8.01	1.28	5.73	33	14	0.0031	6.8
IG 80				118	117	112	94	8.01	1.28	5.73	42	20	0.0053	12.5	
IG 82.5				149	147	143	127	8.01	1.28	5.73	42	25	0.0055	15.5	
IG 100				186	184	178	148	8.01	1.28	5.73	54	25	0.0079	18.6	
IG 108				187	186	174	143	8.01	1.28	5.73	51	25	0.0078	21.9	
IG 125				310	308	298	252	8.01	1.28	5.73	64	30	0.0121	27.3	
IG 140				512	509	497	439	8.01	1.28	5.73	75	35	0.0146	36.1	
IG 160				737	729	697	584	8.01	1.28	5.73	85	40	0.0386	47.2	
IG 200				1455	1424	1300	1034	8.01	1.28	5.73	108	50	0.1473	72.8	
IG 63		3		270	76	75	74	65	8.01	1.28	5.73	33	16	0.0031	7.7
IG 80			132		131	129	114	8.01	1.28	5.73	42	20	0.0053	12.5	
IG 82.5			166		165	163	151	8.01	1.28	5.73	42	25	0.0055	15.5	
IG 100			293		292	289	273	8.01	1.28	5.73	54	30	0.0085	22.0	
IG 108			287		286	283	256	8.01	1.28	5.73	51	30	0.0083	25.8	
IG 125			493		492	487	463	8.01	1.28	5.73	64	35	0.0134	31.5	
IG 140			736		734	728	683	8.01	1.28	5.73	75	40	0.0168	40.9	
IG 160			1311		1307	1289	1260	8.01	1.28	5.73	85	50	0.0472	58.1	
IG 200			2419		2403	2341	2236	8.01	1.28	5.73	108	60	0.1682	86.3	
IG 63			120	67	67	63	58	6.62	1.4	5.21	33	16	0.0031	7.7	
IG 80				118	117	111	102	6.62	1.4	5.21	42	20	0.0053	12.5	
IG 82.5				119	117	112	103	6.62	1.4	5.21	42	20	0.0053	12.6	
IG 100				186	184	175	162	6.62	1.4	5.21	54	25	0.0079	18.6	
IG 108				187	185	177	159	6.62	1.4	5.21	51	25	0.0078	21.9	
IG 125				310	307	295	274	6.62	1.4	5.21	64	30	0.0121	27.3	
IG 140				512	508	493	468	6.62	1.4	5.21	75	35	0.0146	36.1	
IG 160				737	727	687	620	6.62	1.4	5.21	85	40	0.0386	47.2	
IG 200				1452	1414	1261	1006	6.62	1.4	5.21	108	50	0.1473	72.8	
IG 63		180	76	75	74	71	6.62	1.4	5.21	33	16	0.0031	7.7		
IG 80			132	131	129	125	6.62	1.4	5.21	42	20	0.0053	12.5		
IG 82.5			132	132	129	125	6.62	1.4	5.21	42	20	0.0053	12.6		
IG 100			293	292	288	282	6.62	1.4	5.21	54	30	0.0085	22.0		
IG 108			287	286	282	275	6.62	1.4	5.21	51	30	0.0083	25.8		
IG 125			629	628	621	609	6.62	1.4	5.21	64	40	0.015	35.7		
IG 140			736	734	726	713	6.62	1.4	5.21	75	40	0.0168	40.9		
IG 160			1311	1306	1284	1247	6.62	1.4	5.21	85	50	0.0472	58.1		
IG 200			2418	2399	2321	2191	6.62	1.4	5.21	108	60	0.1682	86.3		
IG 63		270	80	80	80	78	6.62	1.4	5.21	33	16	0.0031	7.7		
IG 80			175	175	173	172	6.62	1.4	5.21	42	25	0.0055	15.3		
IG 82.5			175	175	174	172	6.62	1.4	5.21	42	25	0.0055	15.5		
IG 100			312	312	310	307	6.62	1.4	5.21	54	30	0.0085	22.0		
IG 108			424	424	422	419	6.62	1.4	5.21	51	35	0.0092	29.8		
IG 125			669	668	665	660	6.62	1.4	5.21	64	40	0.0150	35.7		
IG 140		783	782	779	773	6.62	1.4	5.21	75	40	0.0168	40.9			
	Tipo	Numero division. S	Ángulo de traslac. (α°)	a 50 v/min	a 100 v/min	a 200 v/min	a 300 v/min	Ca	Cv	Ck	R. prim. Rp (mm)	D. rodillo Dr (mm)	Inercia Jc (kgm <sup>2</sup> )	Roc. m (•) Mam (Nm)	
				Max. momento torsión - Mtu - (Nm)				Coeficientes de movimientos							
				Velocidad											



\* Double cycle cam configuration ( see pag 22 )

(\*) Starting torque - Tolerance on the values indicated  $\pm 15\%$

Values referred to the worst running conditions  
Equivalent Service Factor = 1.75 already applied

The schedules show some minimum and intermediate reference values.

- Also possible :  
- Number of stops not indicated in the schedule  
- Index angles not indicated in the schedule  
- Different and customized motion

Type	Number of Stops S	Index angle ( $\alpha^\circ$ )	Maximum output torque - Mtu - (Nm)				Motion coefficients			Ptc. rad. Rp (mm)	Roller o. d. Dr (mm)	Inertia Jc (kgm <sup>2</sup> )	Mch.ft (*) Mam (Nm)
			50 rpm	100 rpm	200 rpm	300 rpm	Acc. Ca	Speed Cv	Disp. Ck				
IG 160			1397	1395	1385	1369	6.62	1.4	5.21	85	50	0.0472	58.1
IG 200			2587	2579	2544	2486	6.62	1.4	5.21	108	60	0.1682	86.3
IG 63		90	46	45	40	33	6.62	1.4	5.21	33	12	0.0031	5.9
IG 80			69	67	60	48	6.62	1.4	5.21	42	14	0.0052	9.0
IG 82.5			87	85	78	66	6.62	1.4	5.21	42	16	0.0053	10.3
IG 100			148	145	135	117	6.62	1.4	5.21	54	20	0.0077	15.1
IG 108			149	147	136	118	6.62	1.4	5.21	51	20	0.0077	17.9
IG 125			177	173	157	132	6.62	1.4	5.21	64	20	0.011	18.9
IG 140			258	254	237	209	6.62	1.4	5.21	75	25	0.0122	26.4
IG 160			406	394	346	265	6.62	1.4	5.21	85	30	0.0348	36.3
IG 200			712	666	483	176	6.62	1.4	5.21	108	35	0.1326	52.7
IG 63			180	63	63	62	60	6.62	1.4	5.21	33	14	0.0031
IG 80		138		137	136	132	6.62	1.4	5.21	42	20	0.0055	12.5
IG 82.5		138		138	136	133	6.62	1.4	5.21	42	20	0.0055	12.6
IG 100		220		219	217	212	6.62	1.4	5.21	54	25	0.0082	18.6
IG 108		212		212	209	204	6.62	1.4	5.21	51	25	0.008	21.9
IG 125		365		364	360	353	6.62	1.4	5.21	64	30	0.0127	27.3
IG 140		428		426	422	414	6.62	1.4	5.21	75	30	0.0137	31.2
IG 160		684		681	668	646	6.62	1.4	5.21	85	35	0.0379	41.7
IG 200		1102		1090	1042	962	6.62	1.4	5.21	108	40	0.1384	59.4
IG 63		270		65	65	65	64	6.62	1.4	5.21	33	14	0.0031
IG 80			143	143	142	140	6.62	1.4	5.21	42	20	0.0055	12.5
IG 82.5			143	143	142	141	6.62	1.4	5.21	42	20	0.0055	12.6
IG 100			229	229	227	225	6.62	1.4	5.21	54	25	0.0082	18.6
IG 108			218	218	217	215	6.62	1.4	5.21	51	25	0.008	21.9
IG 125			379	379	377	374	6.62	1.4	5.21	64	30	0.0127	27.3
IG 140			802	801	798	793	6.62	1.4	5.21	75	40	0.019	40.9
IG 160			908	906	900	889	6.62	1.4	5.21	85	40	0.0415	47.2
IG 200			1813	1807	1783	1743	6.62	1.4	5.21	108	50	0.1563	72.8
IG 63			90	49	48	45	39	6.62	1.4	5.21	33	12	0.0031
IG 80		74		72	66	57	6.62	1.4	5.21	42	14	0.0052	9.0
IG 82.5		74		72	67	57	6.62	1.4	5.21	42	14	0.0052	9.13
IG 100		117		115	107	93	6.62	1.4	5.21	54	16	0.0075	12.3
IG 108		116		114	105	92	6.62	1.4	5.21	51	16	0.0075	14.8
IG 125		190		187	174	153	6.62	1.4	5.21	64	20	0.0113	18.9
IG 140		278		274	260	237	6.62	1.4	5.21	75	25	0.0128	26.4
IG 160		438		428	388	322	6.62	1.4	5.21	85	30	0.036	36.3
IG 200		773		735	585	334	6.62	1.4	5.21	108	35	0.1357	52.7
IG 63		180		55	55	54	53	6.62	1.4	5.21	33	12	0.0031
IG 80			82	82	81	78	6.62	1.4	5.21	42	14	0.0052	9.0
IG 82.5			82	82	81	78	6.62	1.4	5.21	42	14	0.0052	9.13
IG 100			180	180	178	174	6.62	1.4	5.21	54	20	0.0079	15.1
IG 108			173	172	170	167	6.62	1.4	5.21	51	20	0.0078	17.9
IG 125			268	267	263	258	6.62	1.4	5.21	64	25	0.012	23.1
IG 140			438	437	433	426	6.62	1.4	5.21	75	30	0.0147	31.2
IG 160			701	699	687	669	6.62	1.4	5.21	85	35	0.0398	41.7
IG 200			1131	1122	1082	1016	6.62	1.4	5.21	108	40	0.143	59.4
IG 63			240	56	56	56	55	6.62	1.4	5.21	33	12	0.0031
IG 80		84		84	83	82	6.62	1.4	5.21	42	14	0.0052	9.0
IG 82.5		84		84	83	82	6.62	1.4	5.21	42	14	0.0052	9.13
IG 100		184		184	183	181	6.62	1.4	5.21	54	20	0.0079	15.1
IG 108		175		175	174	172	6.62	1.4	5.21	51	20	0.0078	17.9
IG 125		273		272	270	267	6.62	1.4	5.21	64	25	0.012	23.1
IG 140		447		446	444	440	6.62	1.4	5.21	75	30	0.0147	31.2
IG 160		716		714	708	698	6.62	1.4	5.21	85	35	0.0398	41.7
IG 200		1157		1151	1129	1092	6.62	1.4	5.21	108	40	0.143	59.4
IG 63		84		57	57	56	56	6.62	1.4	5.21	33	12	0.0031
IG 80			84	84	84	82	6.62	1.4	5.21	42	14	0.0052	9.0
Tipo	Numero division. S	Ángulo de traslac. ( $\alpha^\circ$ )	a 50 v/min	a 100 v/min	a 200 v/min	a 300 v/min	Ca	Cv	Ck	R. prim. Rp (mm)	D. rodillo Dr (mm)	Inercia Jc (kgm <sup>2</sup> )	Roc. m (*) Mam (Nm)
			Max. momento torsión - Mtu - (Nm)				Coeficientes de movimientos						
			Velocidad										

\* Leva de tres entradas (mira pag 22 )

(\*) Momento de fricción de 1° arranque; Tolerancia sobre valores  $\pm 15\%$

Valores referidos a la peores condiciones de uso -  
Factor de servicio equivalente = 1.75

Las tablas detallan algunos valores mínimos e intermedios de referencia.

- Se pueden realizar:  
-Número de divisiones no incluidas en la tabla fuera de catalogo.  
-Ángulos de leva no incluidas en la tabla fuera de catalogo  
-Leyes de movimiento específicas para la aplicación

ENG

Type	Number of Stops S	Index angle (α°)	Maximum output torque - Mtu - (Nm)				Motion coefficients			Ptc. rad Rp (mm)	Roller o. d. Dr (mm)	Inertia Jc (kgm <sup>2</sup> )	Mch.ft (*) Mam (Nm)
			50 rpm	100 rpm	200 rpm	300 rpm	Acc. Ca	Speed Cv	Disp. Ck				
IG 82.5		270	84	84	84	82	6.62	1.4	5.21	42	14	0.0052	9.13
IG 100			185	185	184	182	6.62	1.4	5.21	54	20	0.0079	15.1
IG 108			176	176	175	173	6.62	1.4	5.21	51	20	0.0078	17.9
IG 125			274	274	272	270	6.62	1.4	5.21	64	25	0.012	23.1
IG 140			449	449	447	444	6.62	1.4	5.21	75	30	0.0147	31.2
IG 160			720	719	714	705	6.62	1.4	5.21	85	35	0.0398	41.7
IG 200			1164	1160	1142	1113	6.62	1.4	5.21	108	40	0.143	59.4

IG 63		90	76	75	73	69	5.53	1.76	5.46	33	16	0.0031	7.7
IG 80			132	131	127	120	5.53	1.76	5.46	42	20	0.0053	12.5
IG 82.5			132	131	127	120	5.53	1.76	5.46	42	20	0.0053	12.6
IG 100			209	208	202	192	5.53	1.76	5.46	54	25	0.0079	18.6
IG 108			205	203	197	187	5.53	1.76	5.46	51	25	0.0078	21.9
IG 125			348	346	337	321	5.53	1.76	5.46	64	30	0.0121	27.3
IG 140			576	573	562	543	5.53	1.76	5.46	75	35	0.0146	36.1
IG 160			830	823	793	743	5.53	1.76	5.46	85	40	0.0386	47.2
IG 200		1636	1608	1494	1305	5.53	1.76	5.46	108	50	0.1473	72.8	

IG 63		180	112	112	111	110	5.53	1.76	5.46	33	20	0.0032	9.5
IG 80			179	178	177	176	5.53	1.76	5.46	42	25	0.0055	15.3
IG 82.5			179	179	178	176	5.53	1.76	5.46	42	25	0.0055	15.5
IG 100			320	320	318	315	5.53	1.76	5.46	54	30	0.0085	22.0
IG 108			305	305	303	301	5.53	1.76	5.46	51	30	0.0083	25.8
IG 125			685	684	681	676	5.53	1.76	5.46	64	40	0.015	35.7
IG 140			802	801	798	792	5.53	1.76	5.46	75	40	0.0168	40.9
IG 160			1431	1429	1420	1405	5.53	1.76	5.46	85	50	0.0472	58.1
IG 200			2654	2646	2613	2559	5.53	1.76	5.46	108	60	0.1682	86.3

IG 63		240	114	113	113	113	5.53	1.76	5.46	33	20	0.0032	9.5
IG 80			181	181	180	179	5.53	1.76	5.46	42	25	0.0055	15.3
IG 82.5			181	181	180	179	5.53	1.76	5.46	42	25	0.0055	15.5
IG 100			325	324	323	322	5.53	1.76	5.46	54	30	0.0085	22.0
IG 108			308	308	307	306	5.53	1.76	5.46	51	30	0.0083	25.8
IG 125			694	694	692	689	5.53	1.76	5.46	64	40	0.015	35.7
IG 140			813	813	811	808	5.53	1.76	5.46	75	40	0.0168	40.9
IG 160			1452	1451	1446	1437	5.53	1.76	5.46	85	50	0.0472	58.1
IG 200			2695	2690	2672	2642	5.53	1.76	5.46	108	60	0.1682	86.3

IG 63		270	114	114	114	113	5.53	1.76	5.46	33	20	0.0032	9.5
IG 80			182	182	181	180	5.53	1.76	5.46	42	25	0.0055	15.3
IG 82.5			182	182	181	180	5.53	1.76	5.46	42	25	0.0055	15.5
IG 100			326	326	325	324	5.53	1.76	5.46	54	30	0.0085	22.0
IG 108			309	309	308	307	5.53	1.76	5.46	51	30	0.0083	25.8
IG 125			697	696	695	693	5.53	1.76	5.46	64	40	0.015	35.7
IG 140			816	816	814	812	5.53	1.76	5.46	75	40	0.0168	40.9
IG 160			1458	1457	1453	1446	5.53	1.76	5.46	85	50	0.0472	58.1
IG 200			2706	2703	2688	2664	5.53	1.76	5.46	108	60	0.1682	86.3

IG 63		90	79	79	77	74	5.53	1.76	5.46	33	16	0.0032	7.7
IG 80			101	100	97	92	5.53	1.76	5.46	42	16	0.0053	10.2
IG 82.5			101	101	97	92	5.53	1.76	5.46	42	16	0.0052	10.2
IG 100			176	175	170	163	5.53	1.76	5.46	54	20	0.0077	15.1
IG 108			212	211	207	199	5.53	1.76	5.46	51	25	0.008	21.9
IG 125			261	259	253	241	5.53	1.76	5.46	64	25	0.0116	23.1
IG 140			427	425	417	404	5.53	1.76	5.46	75	30	0.0137	31.2
IG 160			683	678	656	620	5.53	1.76	5.46	85	35	0.0379	41.7
IG 200		1736	1714	1623	1472	5.53	1.76	5.46	108	50	0.1563	72.8	

IG 63		180	83	83	83	82	5.53	1.76	5.46	33	16	0.0032	7.7
IG 80			145	145	144	142	5.53	1.76	5.46	42	20	0.0055	12.5
IG 82.5			145	145	144	142	5.53	1.76	5.46	42	20	0.0055	12.6
IG 100			232	232	231	229	5.53	1.76	5.46	54	25	0.0082	18.6
IG 108			221	220	219	217	5.53	1.76	5.46	51	25	0.008	21.9
IG 125			384	384	382	379	5.53	1.76	5.46	64	30	0.0127	27.3
IG 140			637	636	634	630	5.53	1.76	5.46	75	35	0.0162	36.1
IG 160			921	919	913	903	5.53	1.76	5.46	85	40	0.0415	47.2
IG 200			1841	1835	1812	1775	5.53	1.76	5.46	108	50	0.1563	72.8

IG 63		240	84	84	84	83	5.53	1.76	5.46	33	16	0.0032	7.7
IG 80			146	146	145	145	5.53	1.76	5.46	42	20	0.0055	12.5
IG 82.5			146	146	145	145	5.53	1.76	5.46	42	20	0.0055	12.6
IG 100			234	234	233	232	5.53	1.76	5.46	54	25	0.0082	18.6
IG 108			222	222	221	220	5.53	1.76	5.46	51	25	0.008	21.9
IG 125			387	387	386	384	5.53	1.76	5.46	64	30	0.0127	27.3

ESP

Tipo	Numero division. S	Ángulo de traslac. (α°)	a 50 v/min	a 100 v/min	a 200 v/min	a 300 v/min	Ca	Cv	Ck	R. prim. Rp (mm)	D. rodillo Dr (mm)	Inercia Jc (kgm <sup>2</sup> )	Roc.m (*) Mam (Nm)
			Max. momento torsión - Mtu - (Nm)				Coeficientes de movimientos						
			Velocidad										



(\*) Starting torque - Tolerance on the values indicated  $\pm 15\%$

Values referred to the worst running conditions  
Equivalent Service Factor = 1.75 already applied

The schedules show some minimum and intermediate reference values.

- Also possible:
- Number of stops not indicated in the schedule
  - Index angles not indicated in the schedule
  - Different and customized motion

Type	Number of Stops S	Index angle ( $\alpha^\circ$ )	Maximum output torque - Mtu - (Nm) Speed - (rpm)				Motion coefficients			Ptc. rad. Rp (mm)	Roller o. d. Dr (mm)	Inertia Jc (kgm <sup>2</sup> )	Mch.fr (*) Mam (Nm)
			50 rpm	100 rpm	200 rpm	300 rpm	Acc. Ca	Speed Cv	Disp. Ck				
IG 140			642	642	641	638	5.53	1.76	5.46	75	35	0.0162	36.0
IG 160			929	928	924	919	5.53	1.76	5.46	85	40	0.0415	47.2
IG 200			1857	1854	1841	1820	5.53	1.76	5.46	108	50	0.1563	72.8
IG 63			84	84	84	84	5.53	1.76	5.46	33	16	0.0032	7.7
IG 80			146	146	146	145	5.53	1.76	5.46	42	20	0.0055	12.5
IG 82.5			146	146	146	145	5.53	1.76	5.46	42	20	0.0055	12.6
IG 100			328	328	327	326	5.53	1.76	5.46	54	30	0.009	22.0
IG 108			222	222	222	221	5.53	1.76	5.46	51	25	0.008	21.9
IG 125			388	388	387	386	5.53	1.76	5.46	64	30	0.0127	27.3
IG 140			644	643	642	641	5.53	1.76	5.46	75	35	0.0162	36.1
IG 160			931	930	927	923	5.53	1.76	5.46	85	40	0.0415	47.2
IG 200			1862	1859	1849	1833	5.53	1.76	5.46	108	50	0.1563	72.8

IG 63			55	55	53	51	5.53	1.76	5.46	33	12	0.0031	5.9
IG 80			82	82	79	75	5.53	1.76	5.46	42	14	0.0052	9.0
IG 82.5			82	82	79	75	5.53	1.76	5.46	42	14	0.0052	9.1
IG 100			132	131	128	122	5.53	1.76	5.46	54	16	0.0075	12.3
IG 125			214	212	207	198	5.53	1.76	5.46	64	20	0.0113	18.9
IG 140			313	312	306	296	5.53	1.76	5.46	75	25	0.0128	26.4
IG 160			495	491	474	447	5.53	1.76	5.46	85	30	0.036	36.3
IG 200			884	868	805	700	5.53	1.76	5.46	108	35	0.1357	52.7

IG 63			67	67	66	66	5.53	1.76	5.46	33	14	0.0031	6.8
IG 80			107	107	106	105	5.53	1.76	5.46	42	16	0.0053	10.2
IG 82.5			107	107	106	105	5.53	1.76	5.46	42	16	0.0053	10.2
IG 100			234	234	233	231	5.53	1.76	5.46	54	25	0.0085	18.6
IG 125			387	387	385	382	5.53	1.76	5.46	64	30	0.0134	27.3
IG 140			641	641	639	635	5.53	1.76	5.46	75	35	0.0177	36.1
IG 160			726	725	721	713	5.53	1.76	5.46	85	35	0.0398	41.7
IG 200			1175	1171	1155	1127	5.53	1.76	5.46	108	40	0.143	59.4

IG 63			67	67	67	66	5.53	1.76	5.46	33	14	0.0031	6.8
IG 80			107	107	107	106	5.53	1.76	5.46	42	16	0.0053	10.2
IG 82.5			107	107	107	106	5.53	1.76	5.46	42	16	0.0053	10.2
IG 100			235	235	234	233	5.53	1.76	5.46	54	25	0.0085	18.6
IG 125			389	389	388	386	5.53	1.76	5.46	64	30	0.0134	27.3
IG 140			645	644	643	641	5.53	1.76	5.46	75	35	0.0177	36.1
IG 160			730	730	727	723	5.53	1.76	5.46	85	35	0.0398	41.7
IG 200			1183	1180	1171	1155	5.53	1.76	5.46	108	40	0.143	59.4

IG 63			67	67	67	67	5.53	1.76	5.46	33	14	0.0031	6.8
IG 80			107	107	107	107	5.53	1.76	5.46	42	16	0.0053	10.2
IG 82.5			107	107	107	107	5.53	1.76	5.46	42	16	0.0053	10.2
IG 100			235	235	235	234	5.53	1.76	5.46	54	25	0.0085	18.6
IG 125			389	389	389	387	5.53	1.76	5.46	64	30	0.0134	27.3
IG 140			646	645	644	643	5.53	1.76	5.46	75	35	0.0177	36.1
IG 160			731	731	729	726	5.53	1.76	5.46	85	35	0.0398	41.7
IG 200			1185	1183	1175	1163	5.53	1.76	5.46	108	40	0.143	59.4

IG 63			56	56	54	52	5.53	1.76	5.46	33	12	0.0031	5.9
IG 80			83	83	81	77	5.53	1.76	5.46	42	14	0.0053	9.0
IG 82.5			83	83	81	77	5.53	1.76	5.46	42	14	0.0053	9.1
IG 100			134	133	130	126	5.53	1.76	5.46	54	16	0.0077	12.3
IG 108			128	127	124	119	5.53	1.76	5.46	51	16	0.0076	14.8
IG 125			217	215	211	204	5.53	1.76	5.46	64	20	0.0116	18.9
IG 140			317	316	311	302	5.53	1.76	5.46	75	25	0.0133	26.4
IG 160			502	499	484	460	5.53	1.76	5.46	85	30	0.0372	36.3
IG 200			897	884	830	741	5.53	1.76	5.46	108	35	0.1389	52.7

IG 63			57	57	57	56	5.53	1.76	5.46	33	12	0.0031	5.9
IG 80			85	85	85	84	5.53	1.76	5.46	42	14	0.0053	9.0
IG 82.5			85	85	85	84	5.53	1.76	5.46	42	14	0.0053	9.1
IG 100			188	187	187	185	5.53	1.76	5.46	54	20	0.0081	15.1
IG 108			130	130	129	128	5.53	1.76	5.46	51	16	0.0076	14.8
IG 125			278	277	276	274	5.53	1.76	5.46	64	25	0.0124	23.1
IG 140			326	325	324	322	5.53	1.76	5.46	75	25	0.0133	26.4
IG 160			516	515	511	505	5.53	1.76	5.46	85	30	0.0372	36.3
IG 200			1180	1177	1162	1139	5.53	1.76	5.46	108	40	0.1476	59.4

Tipo	Numero division. S	Ángulo de traslac. ( $\alpha^\circ$ )	a 50 v/min	a 100 v/min	a 200 v/min	a 300 v/min	Ca	Cv	Ck	R. prim. Rp (mm)	D. rodillo Dr (mm)	Inercia Jc (kgm <sup>2</sup> )	Roc. m (*) Mam (Nm)
			Max. momento torsión - Mtu - (Nm) Velocidad				Coeficientes de movimientos						

(\*) Momento de fricción de 1° arranque; Tolerancia sobre valores  $\pm 15\%$

Values referred to the worst conditions of use -  
Factor of equivalent service = 1.75

Las tablas detallan algunos valores mínimos e intermedios de referencia.

- Se pueden realizar:
- Número de divisiones no incluidas en la tabla fuera de catálogo.
  - Ángulos de leva no incluidos en la tabla fuera de catálogo
  - Leyes de movimiento específicas para la aplicación



ENG	Type	Number of Stops S	Index angle (α°)	Maximum output torque - Mtu - (Nm) Speed - (rpm)				Motion coefficients			Ptc. rad. Rp (mm)	Roller o. d. Dr (mm)	Inertia Jc (kgm <sup>2</sup> )	Mch.ft (*) Mam (Nm)	
				50 rpm	100 rpm	200 rpm	300 rpm	Acc. Ca	Speed Cv	Disp. Ck					
IG 80			240	86	86	85	85	5.53	1.76	5.46	42	14	0.0053	9.0	
IG 82.5				86	86	85	85	5.53	1.76	5.46	42	14	0.0053	9.1	
IG 100				188	188	188	187	5.53	1.76	5.46	54	20	0.0081	15.1	
IG 108				178	178	178	177	5.53	1.76	5.46	51	20	0.008	17.9	
IG 125				279	279	278	277	5.53	1.76	5.46	64	25	0.0124	23.1	
IG 140				457	457	456	454	5.53	1.76	5.46	75	30	0.0156	31.2	
IG 160				732	731	729	725	5.53	1.76	5.46	85	35	0.0418	41.7	
IG 200				1185	1183	1175	1162	5.53	1.76	5.46	108	40	0.1476	59.4	
IG 63			270	58	58	57	57	5.53	1.76	5.46	33	12	0.0031	5.9	
IG 80				86	86	85	85	5.53	1.76	5.46	42	14	0.0053	9.0	
IG 82.5				86	86	85	85	5.53	1.76	5.46	42	14	0.0053	9.1	
IG 100				189	188	188	188	5.53	1.76	5.46	54	20	0.0081	15.1	
IG 108				178	178	178	177	5.53	1.76	5.46	51	20	0.008	17.9	
IG 125				279	279	278	277	5.53	1.76	5.46	64	25	0.0124	23.1	
IG 140				457	457	456	455	5.53	1.76	5.46	75	30	0.0156	31.2	
IG 160				733	732	730	727	5.53	1.76	5.46	85	35	0.0418	41.7	
IG 200			1187	1185	1179	1168	5.53	1.76	5.46	108	40	0.1476	59.4		
IG 63	*		50	44	43	40	35	5.53	1.76	5.46	33	14	0.0031	6.8	
IG 80	*			80	79	74	66	5.53	1.76	5.46	42	16	0.0053	10.2	
IG 82.5	*			82	81	76	67	5.53	1.76	5.46	42	16	0.0052	10.2	
IG 100	*			134	133	125	112	5.53	1.76	5.46	54	25	0.0082	18.6	
IG 108	*			151	149	141	129	5.53	1.76	5.46	51	25	0.008	21.9	
IG 125	*			227	224	212	192	5.53	1.76	5.46	64	30	0.0127	27.3	
IG 140	*			372	368	353	328	5.53	1.76	5.46	75	35	0.0162	36.1	
IG 160	*			526	517	478	413	5.53	1.76	5.46	85	40	0.0415	47.2	
IG 200	*		1027	991	844	600	5.53	1.76	5.46	108	50	0.1563	72.8		
IG 63	*		90	83	83	82	81	5.53	1.76	5.46	33	16	0.0032	7.7	
IG 80	*			145	144	143	140	5.53	1.76	5.46	42	20	0.0055	12.5	
IG 82.5	*			145	144	143	140	5.53	1.76	5.46	42	20	0.0054	12.6	
IG 100	*			232	232	229	225	5.53	1.76	5.46	54	25	0.0082	18.6	
IG 108	*			221	220	218	214	5.53	1.76	5.46	51	25	0.008	21.9	
IG 125	*			384	383	380	374	5.53	1.76	5.46	64	30	0.0127	27.3	
IG 140	*			637	636	631	623	5.53	1.76	5.46	75	35	0.0162	36.1	
IG 160	*			920	917	905	885	5.53	1.76	5.46	85	40	0.0415	47.2	
IG 200	*		1839	1827	1782	1707	5.53	1.76	5.46	108	50	0.1563	72.8		
IG 63	*		120	84	84	83	82	5.53	1.76	5.46	33	16	0.0032	7.7	
IG 80	*			146	146	145	143	5.53	1.76	5.46	42	20	0.0055	12.5	
IG 82.5	*			146	146	145	143	5.53	1.76	5.46	42	20	0.0054	12.6	
IG 100	*			234	234	232	230	5.53	1.76	5.46	54	25	0.0082	18.6	
IG 108	*			222	221	220	218	5.53	1.76	5.46	51	25	0.008	21.9	
IG 125	*			387	387	385	381	5.53	1.76	5.46	64	30	0.0127	27.3	
IG 140	*			642	641	639	634	5.53	1.76	5.46	75	35	0.0162	36.1	
IG 160	*			928	927	920	909	5.53	1.76	5.46	85	40	0.0415	47.2	
IG 200	*		1856	1850	1824	1782	5.53	1.76	5.46	108	50	0.1563	72.8		
IG 63	*		140	84	84	84	83	5.53	1.76	5.46	33	16	0.0032	7.7	
IG 80	*			146	146	145	144	5.53	1.76	5.46	42	20	0.0055	12.5	
IG 82.5	*			146	146	145	144	5.53	1.76	5.46	42	20	0.0054	12.6	
IG 100	*			235	235	234	232	5.53	1.76	5.46	54	25	0.0082	18.6	
IG 108	*			222	222	221	219	5.53	1.76	5.46	51	25	0.008	21.9	
IG 125	*			388	388	387	384	5.53	1.76	5.46	64	30	0.0127	27.3	
IG 140	*			644	643	642	638	5.53	1.76	5.46	75	35	0.0162	36.0	
IG 160	*			931	930	925	917	5.53	1.76	5.46	85	40	0.0415	47.2	
IG 200	*		1862	1858	1839	1808	5.53	1.76	5.46	108	50	0.1563	72.8		
IG 63	*		50	46	45	43	39	5.53	1.76	5.46	33	12	0.0031	5.9	
IG 80	*			76	75	71	64	5.53	1.76	5.46	42	14	0.0052	9.0	
IG 82.5	*			77	76	72	66	5.53	1.76	5.46	42	14	0.0052	9.1	
IG 100	*			129	127	122	112	5.53	1.76	5.46	54	16	0.0075	12.3	
IG 125	*			203	201	192	178	5.53	1.76	5.46	64	20	0.0113	18.9	
IG 140	*			274	272	262	246	5.53	1.76	5.46	75	25	0.0128	26.4	
IG 160	*			405	398	371	326	5.53	1.76	5.46	85	30	0.036	36.3	
IG 200	*			762	736	634	465	5.53	1.76	5.46	108	35	0.1357	52.7	
ESP	Tipo	Numero division. S	Ángulo de traslac. (α°)	a 50 v/min	a 100 v/min	a 200 v/min	a 300 v/min	Ca	Cv	Ck	R. prim. Rp (mm)	D. rodillo Dr (mm)	Inercia Jc (kgm <sup>2</sup> )	Roc. m (*) Mam (Nm)	
				Max. momento torsión - Mtu - (Nm) Velocidad				Acelerac. Coeficientes de movimientos	Velocidad Transmis.						

\* Double cycle cam configuration ( see pag 22 )

(\*) Starting torque - Tolerance on the values indicated  $\pm 15\%$

Values referred to the worst running conditions  
Equivalent Service Factor = 1.75 already applied

The schedules show some minimum and intermediate reference values.

Also possible :  
- Number of stops not indicated in the schedule  
- Index angles not indicated in the schedule  
- Different and customized motion

Type	Number of Stops S	Index angle (α°)	Maximum output torque - Mtu - (Nm)				Motion coefficients			Ptc. rad. Rp (mm)	Roller o. d. Dr (mm)	Inertia Jc (kgm <sup>2</sup> )	Mch.fr (*) Mam (Nm)
			50 rpm	100 rpm	200 rpm	300 rpm	Acc. Ca	Speed Cv	Disp. Ck				
IG 63 *		90	67	66	66	65	5.53	1.76	5.46	33	14	0.0031	6.8
IG 80 *			107	106	105	103	5.53	1.76	5.46	42	16	0.0053	10.2
IG 82.5 *			107	106	105	103	5.53	1.76	5.46	42	16	0.0053	10.2
IG 100 *			187	186	185	182	5.53	1.76	5.46	54	20	0.0079	15.1
IG 125 *			277	276	273	268	5.53	1.76	5.46	64	25	0.012	23.1
IG 140 *			453	452	449	443	5.53	1.76	5.46	75	30	0.0147	31.2
IG 160 *			726	724	715	699	5.53	1.76	5.46	85	35	0.0398	41.7
IG 200 *			1174	1166	1133	1078	5.53	1.76	5.46	108	40	0.143	59.4
IG 63 *		120	67	67	67	66	5.53	1.76	5.46	33	14	0.0031	6.8
IG 80 *			107	107	106	105	5.53	1.76	5.46	42	16	0.0053	10.2
IG 82.5 *			107	107	106	105	5.53	1.76	5.46	42	16	0.0053	10.2
IG 100 *			188	188	187	185	5.53	1.76	5.46	54	20	0.0079	15.1
IG 125 *			278	278	276	273	5.53	1.76	5.46	64	25	0.012	23.1
IG 140 *			456	455	453	450	5.53	1.76	5.46	75	30	0.0147	31.2
IG 160 *			730	729	724	715	5.53	1.76	5.46	85	35	0.0398	41.7
IG 200 *			1182	1177	1159	1128	5.53	1.76	5.46	108	40	0.143	59.4
IG 63 *		140	67	67	67	66	5.53	1.76	5.46	33	14	0.0031	6.8
IG 80 *			108	107	107	106	5.53	1.76	5.46	42	16	0.0053	10.2
IG 82.5 *			107	107	107	106	5.53	1.76	5.46	42	16	0.0053	10.2
IG 100 *			188	188	187	186	5.53	1.76	5.46	54	20	0.0079	15.1
IG 125 *			279	278	277	275	5.53	1.76	5.46	64	25	0.012	23.1
IG 140 *			457	456	455	453	5.53	1.76	5.46	75	30	0.0147	31.2
IG 160 *			732	731	727	721	5.53	1.76	5.46	85	35	0.0398	41.7
IG 200 *			1184	1181	1167	1145	5.53	1.76	5.46	108	40	0.143	59.4
IG 63 *		60	57	56	55	53	5.53	1.76	5.46	33	12	0.0031	5.9
IG 80 *			84	84	82	78	5.53	1.76	5.46	42	14	0.0053	9.0
IG 82.5 *			84	84	82	78	5.53	1.76	5.46	42	14	0.0052	9.1
IG 100 *			136	135	132	126	5.53	1.76	5.46	54	16	0.0077	12.3
IG 125 *			219	218	213	205	5.53	1.76	5.46	64	20	0.0116	18.9
IG 140 *			322	320	315	305	5.53	1.76	5.46	75	25	0.0133	26.4
IG 160 *			507	503	487	460	5.53	1.76	5.46	85	30	0.0372	36.3
IG 200 *			910	895	835	735	5.53	1.76	5.46	108	35	0.1389	52.7
IG 63 *		90	57	57	57	56	5.53	1.76	5.46	33	12	0.0031	5.9
IG 80 *			107	107	106	104	5.53	1.76	5.46	42	16	0.0054	10.2
IG 82.5 *			107	107	106	104	5.53	1.76	5.46	42	16	0.0054	10.2
IG 100 *			188	187	186	183	5.53	1.76	5.46	54	20	0.0081	15.1
IG 125 *			278	277	275	271	5.53	1.76	5.46	64	25	0.0124	23.1
IG 140 *			455	454	451	446	5.53	1.76	5.46	75	30	0.0156	31.2
IG 160 *			729	727	719	705	5.53	1.76	5.46	85	35	0.0418	41.7
IG 200 *			1179	1172	1143	1096	5.53	1.76	5.46	108	40	0.1476	59.4
IG 63 *		120	58	57	57	57	5.53	1.76	5.46	33	12	0.0031	5.9
IG 80 *			108	107	107	106	5.53	1.76	5.46	42	16	0.0054	10.2
IG 82.5 *			108	107	107	106	5.53	1.76	5.46	42	16	0.0054	10.2
IG 100 *			188	188	187	186	5.53	1.76	5.46	54	20	0.0081	15.1
IG 125 *			279	278	277	275	5.53	1.76	5.46	64	25	0.0124	23.1
IG 140 *			457	456	455	452	5.53	1.76	5.46	75	30	0.0156	31.2
IG 160 *			732	731	726	719	5.53	1.76	5.46	85	35	0.0418	41.7
IG 200 *			1185	1181	1165	1138	5.53	1.76	5.46	108	40	0.1476	59.4
IG 63 *		140	58	58	57	57	5.53	1.76	5.46	33	12	0.0031	5.9
IG 80 *			108	108	107	106	5.53	1.76	5.46	42	16	0.0054	10.2
IG 82.5 *			108	108	107	106	5.53	1.76	5.46	42	16	0.0054	10.2
IG 100 *			189	188	188	187	5.53	1.76	5.46	54	20	0.0081	15.1
IG 125 *			279	279	278	276	5.53	1.76	5.46	64	25	0.0124	23.1
IG 140 *			457	457	456	454	5.53	1.76	5.46	75	30	0.0156	31.2
IG 160 *			733	732	729	723	5.53	1.76	5.46	85	35	0.0418	41.7
IG 200 *			1187	1184	1172	1152	5.53	1.76	5.46	108	40	0.1476	59.4
Tipo	Numero division. S	Ángulo de traslac. (α°)	a 50 v/min	a 100 v/min	a 200 v/min	a 300 v/min	Ca	Cv	Ck	R. prim. Rp (mm)	D. rodillo Dr (mm)	Inercia Jc (kgm <sup>2</sup> )	Roc. m (*) Mam (Nm)
			Max. momento torsión - Mtu - (Nm)				Accelerac.	Velocidad	Transmis.				
			Velocidad				Coeficientes de movimientos						

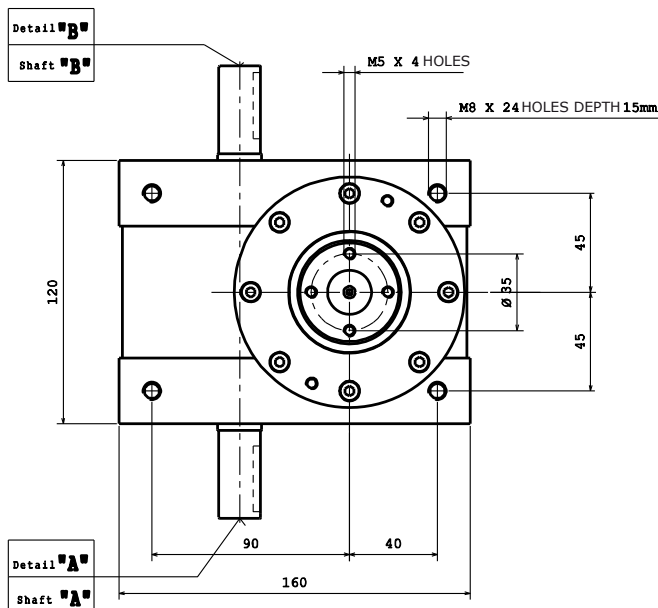
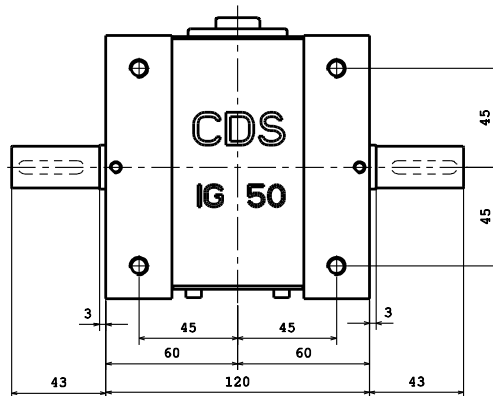
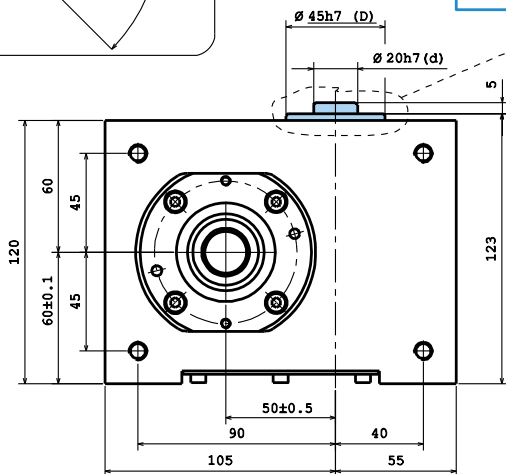
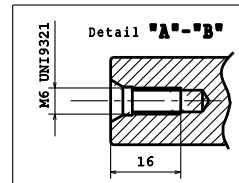
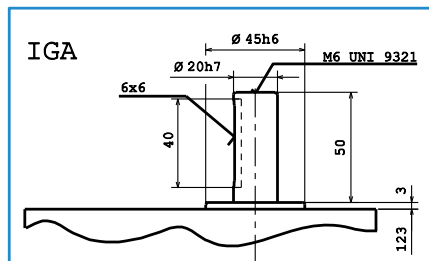
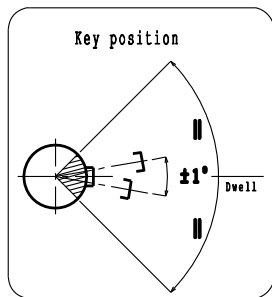
\* Leva de tres entradas (mira pag 22 )

(\*) Momento de fricción de 1° arranque; Tolerancia sobre valores  $\pm 15\%$

Valores referidos a la peores condiciones de uso -  
Factor de servicio equivalente = 1.75

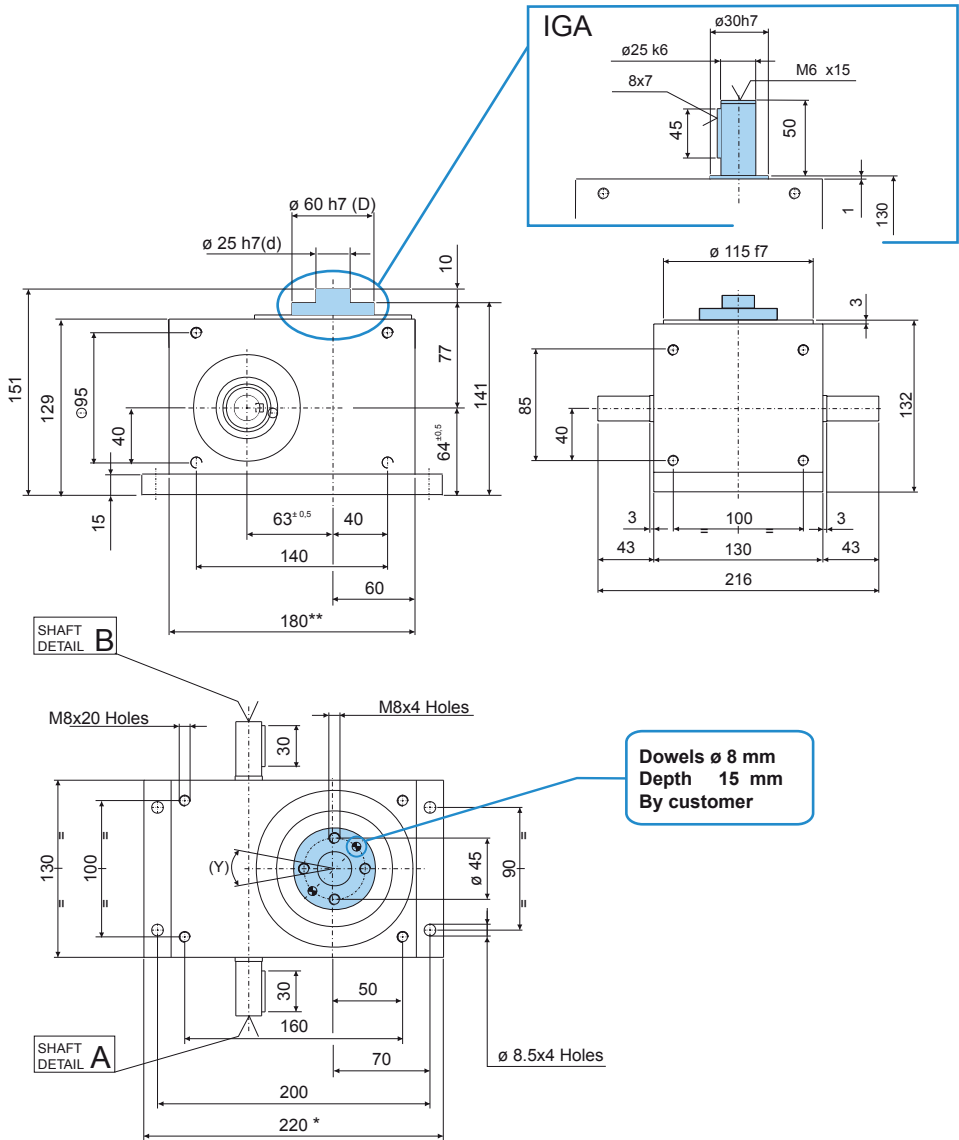
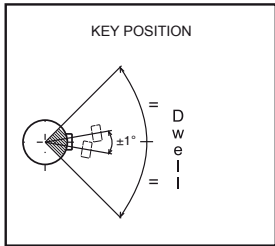
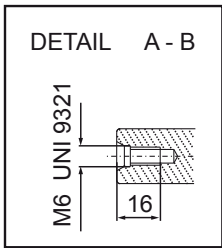
Las tablas detallan algunos valores mínimos e intermedios de referencia.

Se pueden realizar:  
-Número de divisiones no incluidas en la tabla fuera de catalogo.  
-Ángulos de leva no incluidas en la tabla fuera de catalogo  
-Leyes de movimiento específicas para la aplicación



Rotating element • Elemento rotante • Drehelement • Élément tournant • Elemento de giro

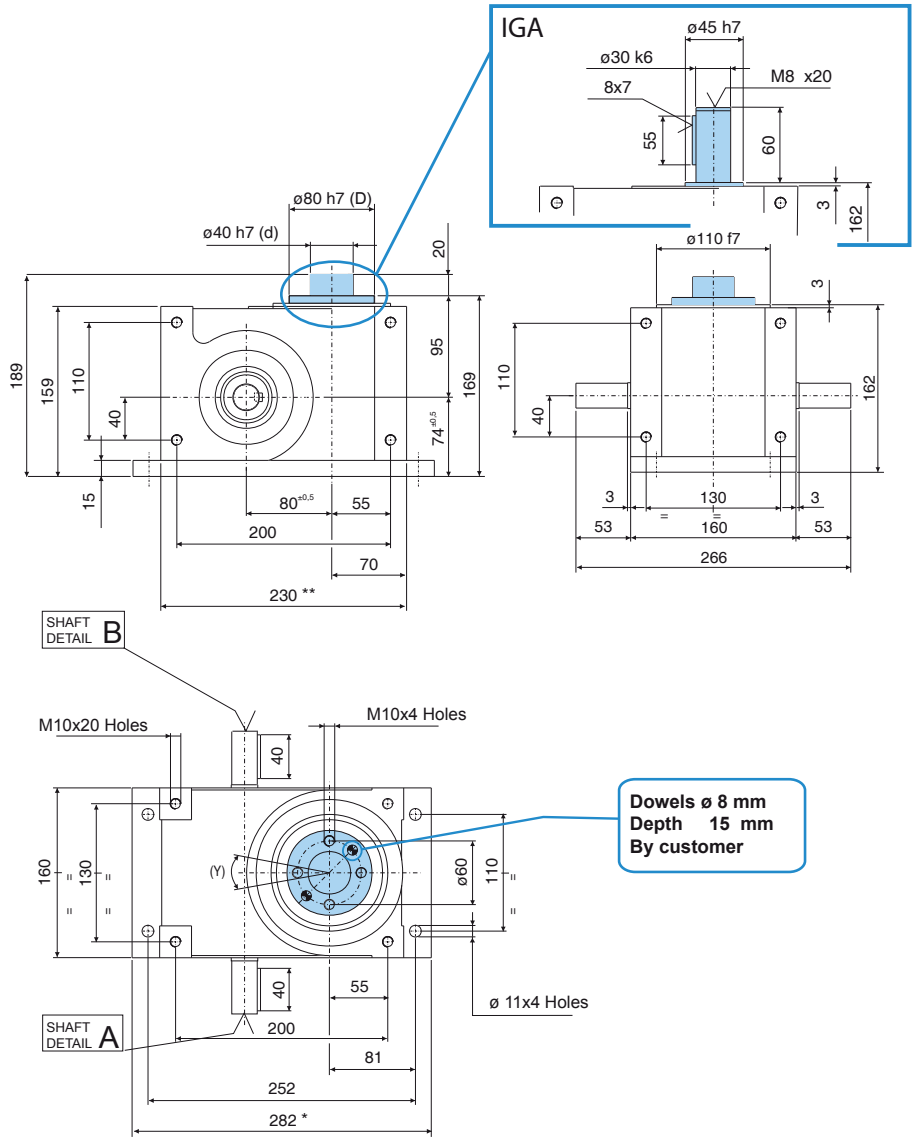
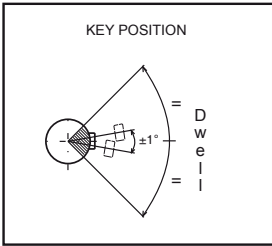
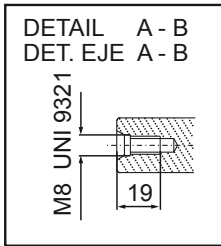
IG 50	A-B					Reference Riferimento Bezug Référence Referencia	Concricity Concricità Konzentrizität Concricité Concricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability Ripetibilità Wiederholbarkeit Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición ori cios roscados	
	Østd	d1	a	b	c				d	Std	2 Cycles		3 Cycles
										0.035°	0.069°		0.084°
8 Kg 17.6 Lbs	Østd	k6 19	21.5	6	6	D	±0.02mm						
	Ømax	h6 20	22.5	6	6	Dp							



Rotating element • Elemento rotante • Drehelement • Élément tournant • Elemento de giro

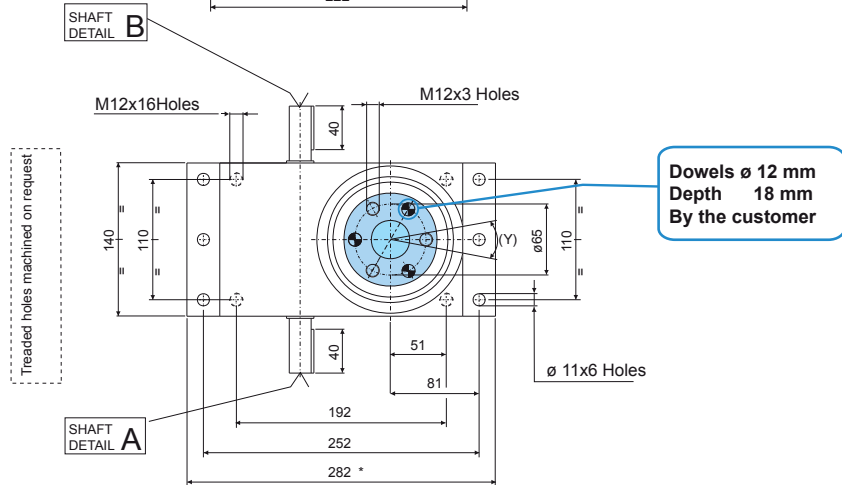
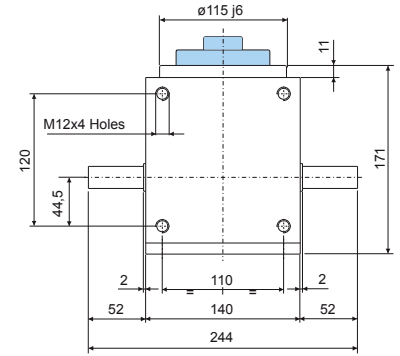
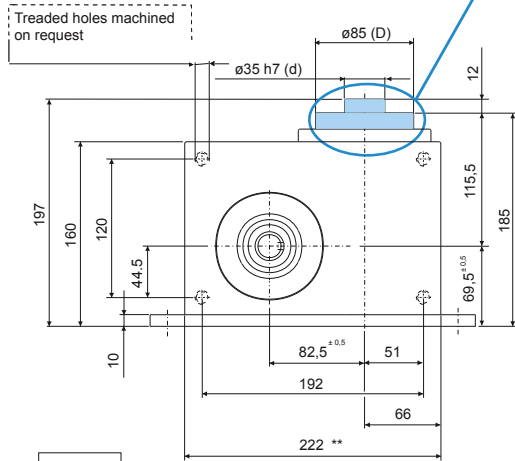
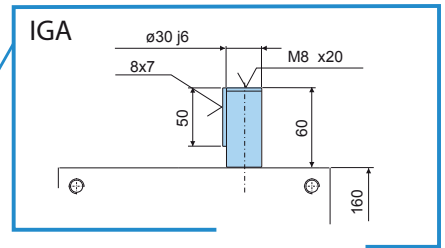
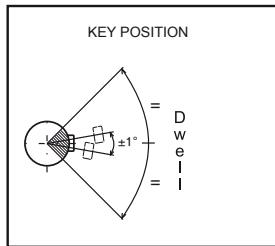
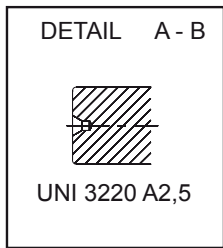
<p><b>IG 63</b></p> <p>14 Kg 30.8 Lbs</p>	<p><b>A-B</b></p>				Reference Riferimento Bezug Référence Referencia	Concricity Concricità Konzentrizität Concricité Concricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability Ripetibilità Wiederholbarkeit Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición ori cios roscados	
		d1	a	b	c	d	±0.02mm		Std	2 Cycles	3 Cycles	±0.5°
	Østd	19 k6	21.5	6	6	D		±0.02mm		*		
	Ømax	20 h6	22.5	6	6	Dp			0.035°	0.052°	0.069°	





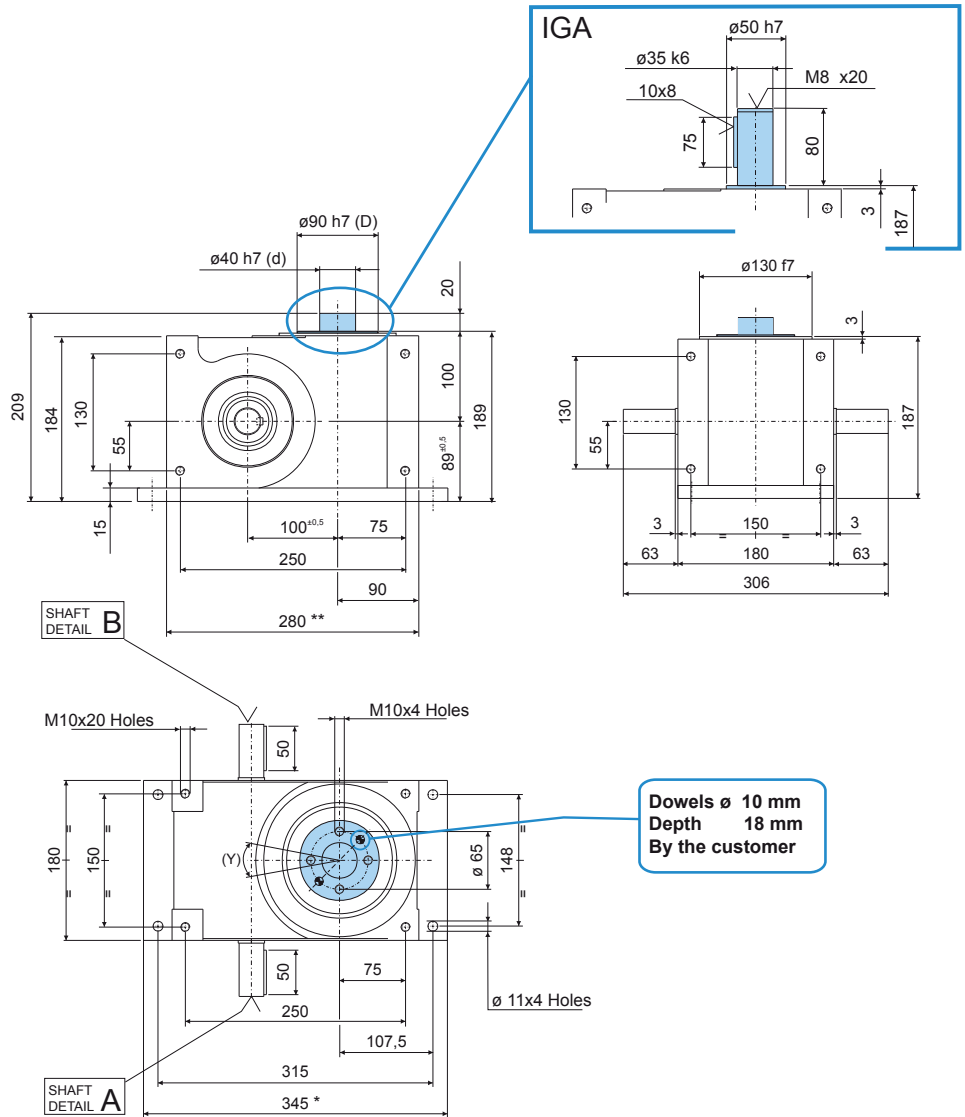
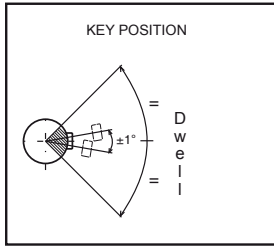
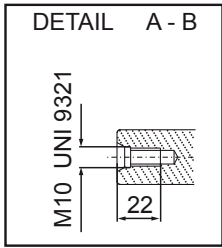
Rotating element • Elemento rotante • Drehelement • Élément tournant • Elemento de giro

IG 80	A-B				Reference Riferimento Bezug Référence Referencia	Concricity Concricità Konzentrizität Concricité Concricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability Ripetibilità Wiederholbarkeit Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición ori cios roscados		
	Østd	d1	a	b				c	d	Std		2 Cycles	3 Cycles
<p>28 Kg 61.7 Lbs</p>						±0.02mm		*	**	±0.5°			
							±0.02mm						
							0.027°	0.041°	0.054°				



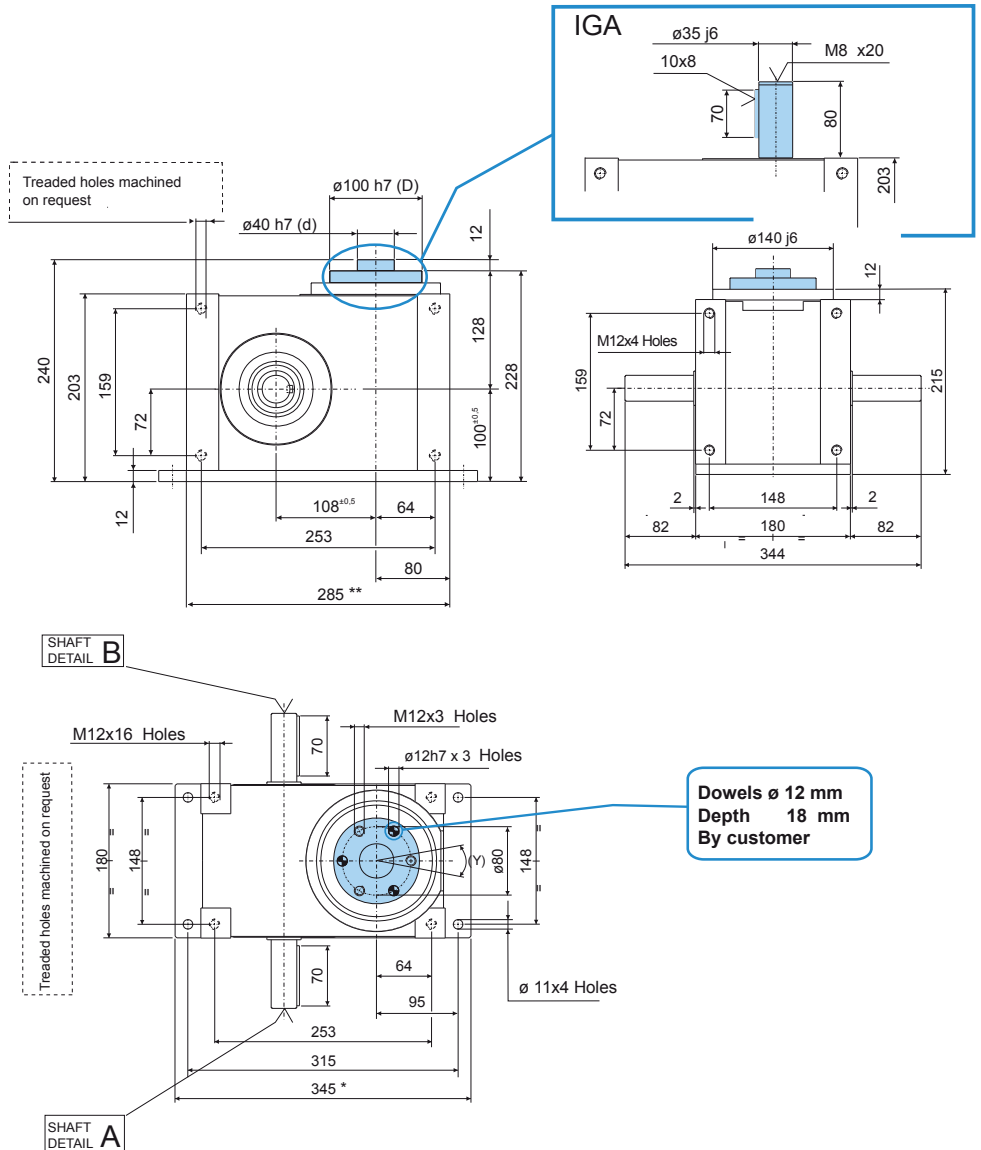
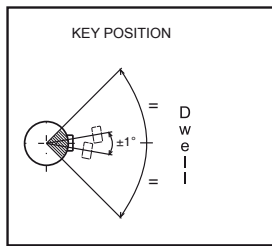
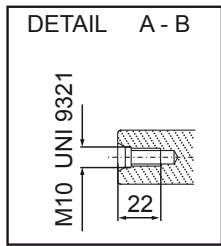
Rotating element • Elemento rotante • Drehelement • Élément tournant • Elemento de giro

IG 82.5	A-B					Reference Riferimento Bezug Référence Referencia	Concricity Concricità Konzentrizität Concricité Concricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability Ripetibilità Wiederholbarkeit Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición ori cios roscados
	Østd	d1	a	b	c				d	Std	2 Cycles	
	20 j6	28	8	7	D	±0.02mm			*		±0.5°	
	Ømax	25 h6	28	8	Dp		±0.02mm	0.027°	0.041°	0.054°		



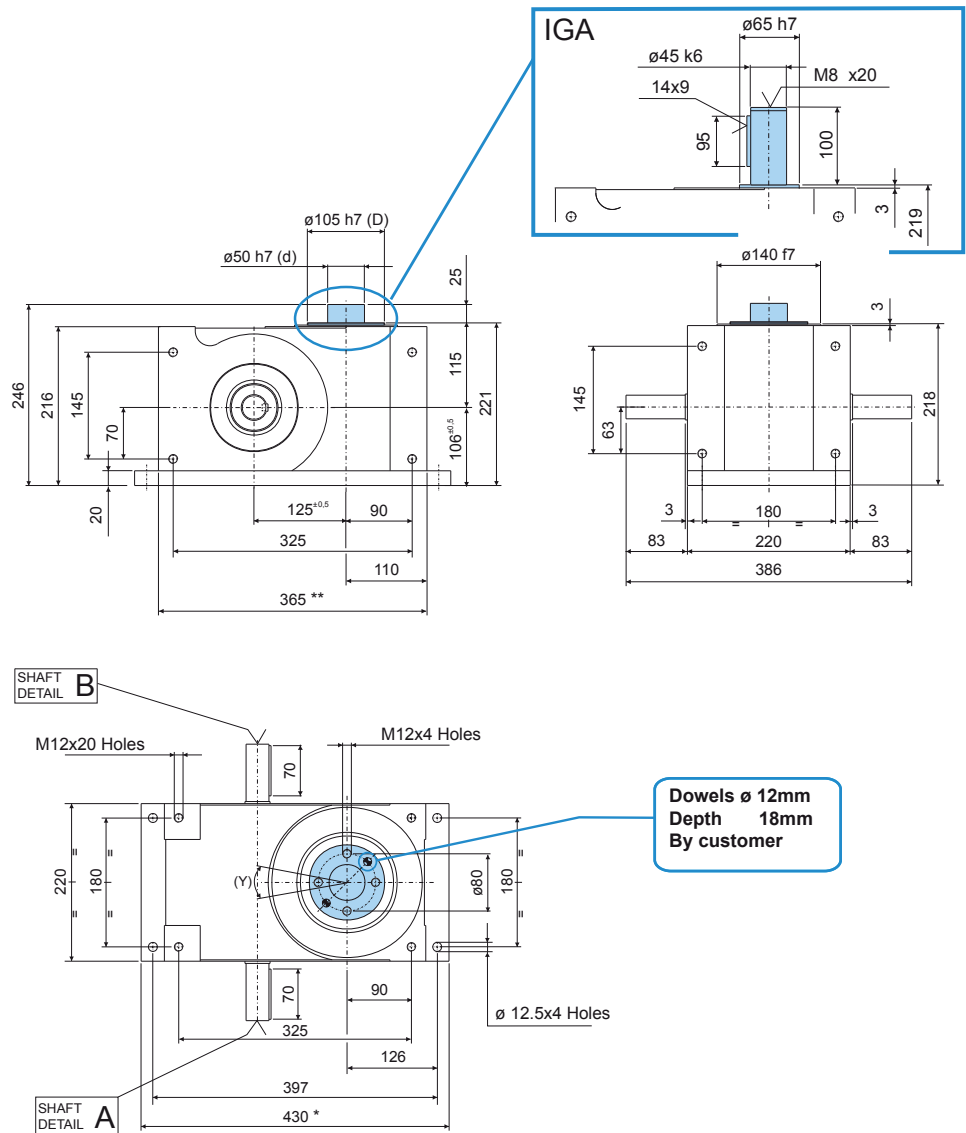
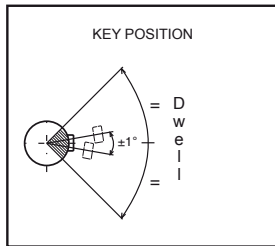
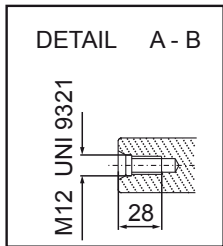
Rotating element • Elemento rotante • Drehelement • Élément tournant • Elemento de giro

IG 100	A-B				Reference Riferimento Bezug Référence Referencia	Concricity Concricità Konzentrizität Concricité Concricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability Ripetibilità Wiederholbarkeit Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición ori cios roscados				
	Østd	d1	a	b				c	d	D		Dp	Std	2 Cycles	3 Cycles
													*	*	*
42 Kg 92.5 Lbs	28 k6	31	8	7	D	±0.02mm				*			±0.5°		
	30 h6	33	8	7	Dp		±0.02mm	0.021°	0.032°	0.042°					



Rotating element • Elemento rotante • Drehelement • Élément tournant • Elemento de giro

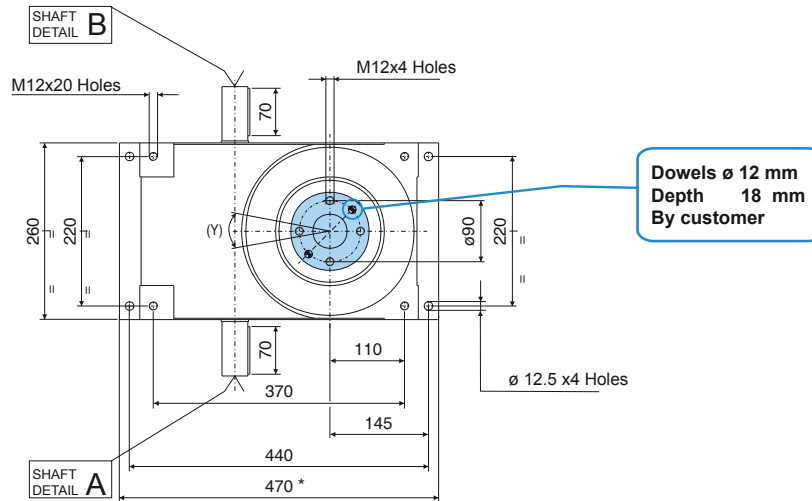
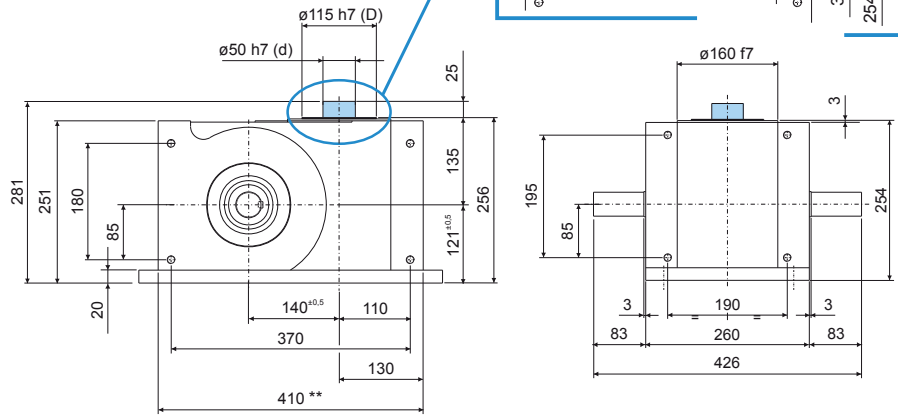
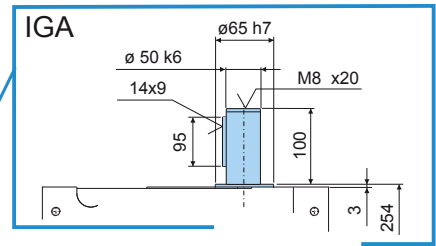
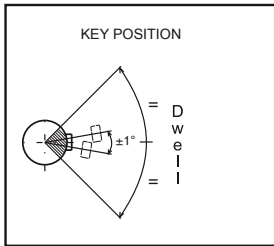
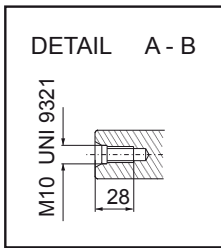
IG 108	A-B					Reference Riferimento Bezug Référence Referencia	Concricity Concricità Konzentrizität Concricité Concricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability Ripetibilità Wiederholbarkeit Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición ori cios roscados
	d1	a	b	c	d				Std	2 Cycles	3 Cycles	
Østd	30 k6	33	8	7	D						±0.5°	
Ømax	40 h6	43	12	8	Dp			0.022°	0.037°	0.044°		



Rotating element • Elemento rotante • Drehelement • Élément tournant • Elemento de giro

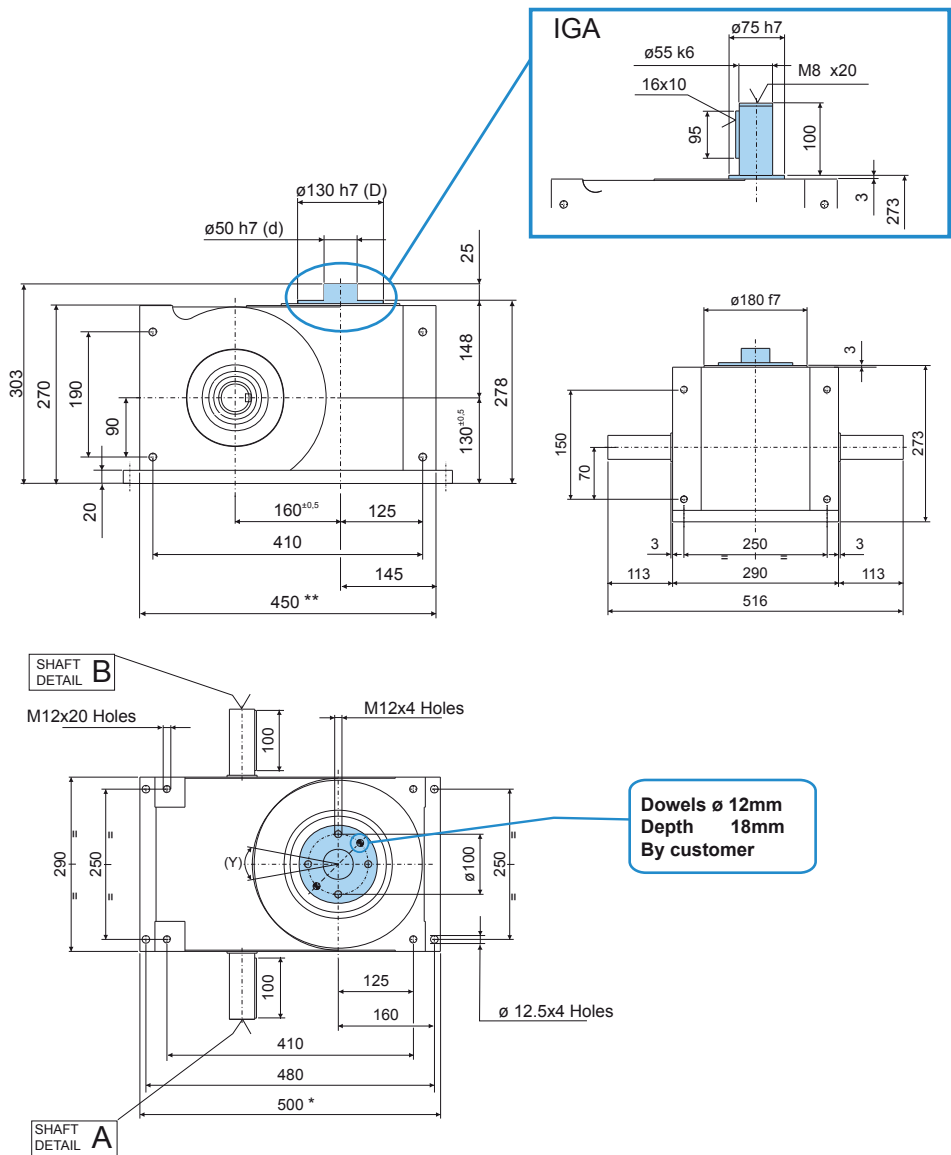
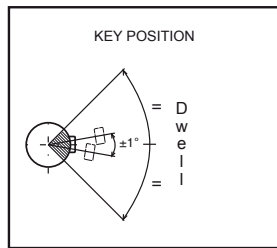
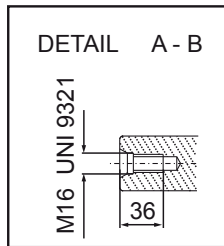
IG 125	A-B				Reference Riferimento Bezug Référence Referencia	Concricity Concricità Konzentrizität Concricité Concricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability Ripetibilità Wiederholbarkeit Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición ori cios roscados		
	Østd	d1	a	b				c	d	Std		2 Cycles	3 Cycles
										0.018°		0.027°	0.036°
80 Kg 176.3Lbs	32 k6	35	10	8	D	±0.02mm		*			±0.5°		
	35 h6	38	10	8	Dp		±0.02mm	0.018°	0.027°	0.036°			





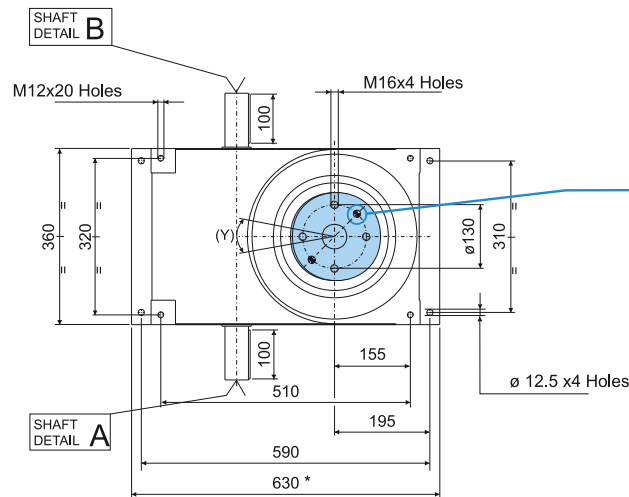
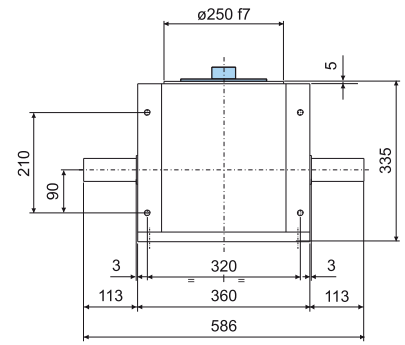
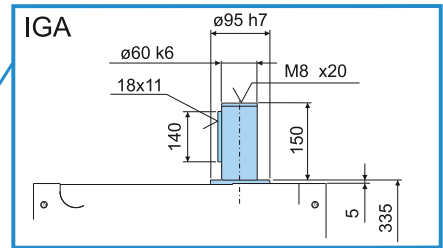
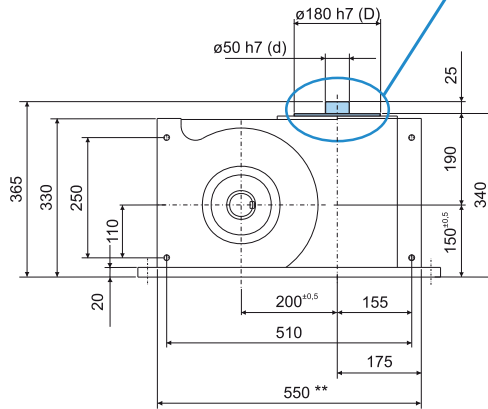
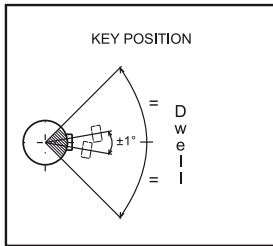
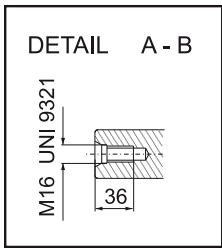
Rotating element • Elemento rotante • Drehelement • Élément tournant • Elemento de giro

IG 140	A-B				Reference Riferimento Bezug Référence Referencia	Concricity Concricità Konzentrizität Concricité Concricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability Ripetibilità Wiederholbarkeit Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición ori cios roscados	
	d1	a	b	c				d	Std	2 Cycles		3 Cycles
120 Kg 264.5Lbs	38 k6	41	10	8	D							
	40 h6	43	12	8	Dp		0.015°	0.023°	0.031°			



Rotating element • Elemento rotante • Drehelement • Élément tournant • Elemento de giro

IG 160	A-B					Reference Riferimento Bezug Référence Referencia	Concricity Concricità Konzentrizität Concricité Concricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability Ripetibilità Wiederholbarkeit Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición ori cios roscados			
	Østd	d1	a	b	c				d	±0.02mm	±0.02mm		Std	2 Cycles	3 Cycles
													*	*	*
	Ømax	50 h6	53.5	14	9	Dp			0.013°	0.02°	0.026	±0.5°			



**Dowels  $\varnothing$  16 mm  
Depth 20 mm  
By customer**

Rotating element • Elemento rotante • Drehelement • Élément tournant • Elemento de giro

IG 200	A-B					Reference Riferimento Bezug Référence Referencia	Concricity Concricità Konzentrizität Concricité Concricidad	Planarity Planarità Planheit Planéité Planaridad	Repeatability Ripetibilità Wiederholbarkeit Répétitivité Repetibilidad			Threaded holes position Posizione fori filettati Löcherposition Position des trou taraudé Posición ori cios roscados
	Std	2 Cycles	3 Cycles									
	210 Kg 462.9 Lbs											
	d1	a	b	c	d	$\pm 0.02\text{mm}$			*			
$\varnothing_{\text{std}}$	48 k6	51.5	14	9	D		$\pm 0.02\text{mm}$				$\pm 0.5^\circ$	
$\varnothing_{\text{max}}$	60 h6	64	18	11	Dp			0.011°	0.016°	0.021°		

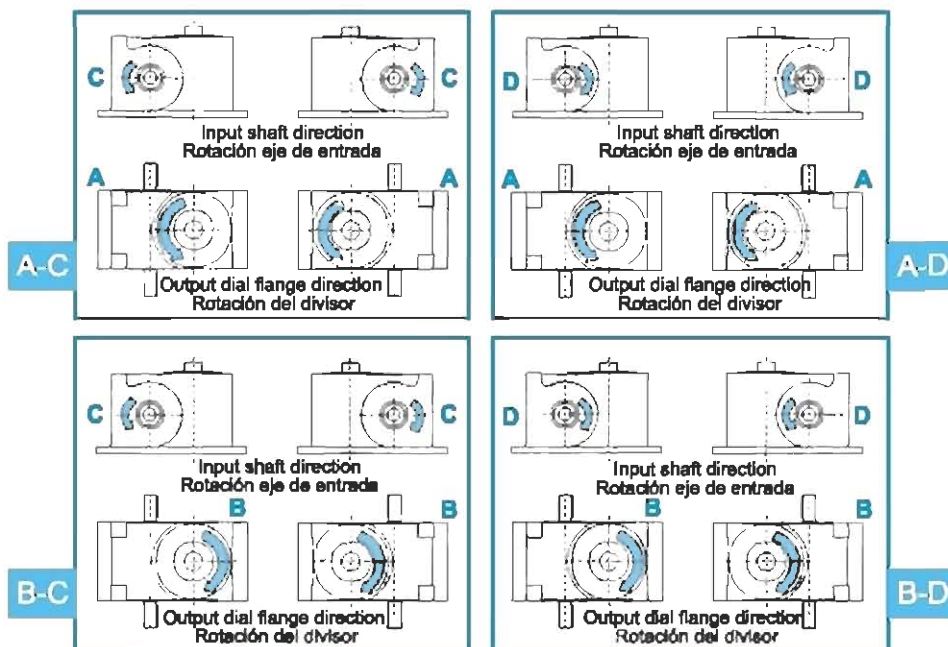
# UNIDIRECTIONAL FUNCTION FUNCIÓN UNIDIRECCIONAL

ENG

## SINGLE CYCLE CAM

### Direction of rotation

- A-C = Left hand cam
- A-D = Right hand cam
- B-C = Right hand cam
- B-D = Left hand cam



ESP

## LEVA DE UN PRINCIPIO

### Sentido de rotación

- A-C = Leva Hélice Izquierda
- A-D = Leva Hélice Derecha
- B-C = Leva Hélice Derecha
- B-D = Leva Hélice Izquierda

ENG

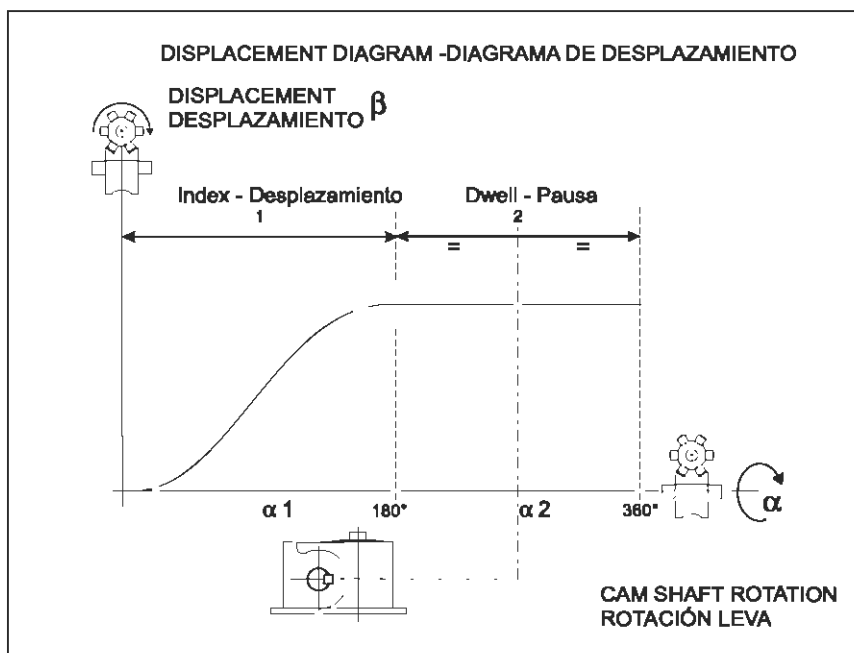
The diagram on the side shows the displacement of a roller gear with a **single cycle cam**. In a rotation of 360° of the cam shaft the phases are:

- 1) **Index**
- 2) **dwell** = The camshaft keyway oriented to the output axis identifies the middle position of Dwell period ( $1/2 \alpha_2$ )

ESP

El diagrama lateral representa el desplazamiento de una mesa de giro genérica con **leva de un principio**. En una rotación de 360° del Eje-Leva las fases son:

- 1) **desplazamiento**
- 2) **pause** = sede chaveta eje-leva, puesta en la dirección de la torreta en salida, identifica la posición de medio período de pausa ( $1/2 \alpha_2$ )



ENG

The indications on the side refer to the **preliminary coding**

ESP

Las indicaciones del cuadro se refiere a la **codificación previa**.

Type	Size	Stops	$\alpha 1 + \alpha 2 = 360^\circ$			Direction of rotation	Working of position	Reducer fitting position
			Index 1	Dwell 2				
Pg. 12	Pg. 12	Pg. 6	Pg. 6	Pg. 8		Pg. 21	Pg. 29	Pg. 28
IG	125	2	$\alpha 1 180^\circ$	$\alpha 2 180^\circ$		BC	A	1-S2-90°
Pág.12	Pág. 12	Pág. 6	Pág.6	Pág. 8		Pág.21	Pág.29	Pág.28
Tipo	Tamaño	Número divisiones	Desplazm 1	Pausa 2		Rotación	Posición de trabajo mesa	Posición de montaje reductor
$\alpha 1 + \alpha 2 = 360^\circ$								

ENG

ESP

ENG

**DOUBLE CYCLE CAM**

**Direction of rotation**

- A-C = Left hand cam
- A-D = Right hand cam
- B-C = Right hand cam
- B-D = Left hand cam

ESP

**LEVA DE MÁS PRINCIPIOS**

**Sentido de rotación**

- A-C = Leva Hélice Izquierda
- A-D = Leva Hélice Derecha
- B-C = Leva Hélice Derecha
- B-D = Leva Hélice Izquierda

ENG

The diagram on the side shows the displacement of an index table with **double cycle cam**. In a rotation of 360° of the cam shaft the phases are:

- 1) first index
- 2) first dwell
- 3) second index
- 4) second dwell - center of dwell angle = key parallel to the bottom plane and opposed to the output axis

**Note:** For example, 60 rpm on the cam shaft will result in 120 indexes per minute at the output (see technical guidelines chapter 2.6)

ESP

El diagrama lateral representan el desplazamiento de una mesa de giro genérica con **leva de dos principios**. En una rotación de 360° del Eje-Leva las fases son:

- 1) primer desplazamiento
- 2) primera pausa
- 3) segundo desplazamiento
- 4) segunda pausa - centro del ángulo = pausa chaveta puesta sobre el plano horizontal en dirección opuesta del divisor de salida

**ATENCIÓN:** por ejemplo una velocidad de 60 rpm de eje-leva resulta igual a 120 intermitencias cada minuto (mirar guía técnica cap.2.6)

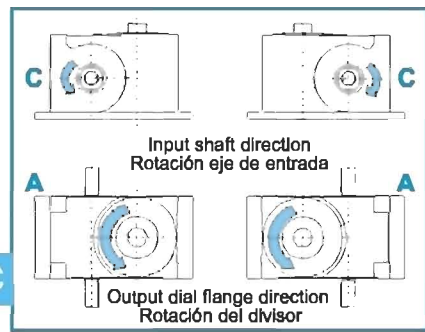
ENG

The indications on the side refer to the **preliminary coding**.

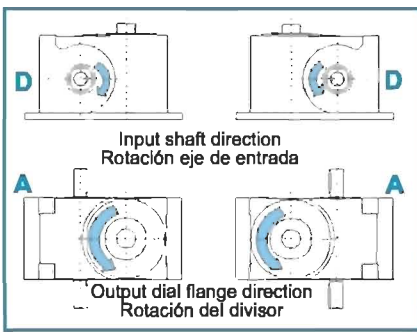
ESP

Las indicaciones del cuadro se refieren a la codificación previa.

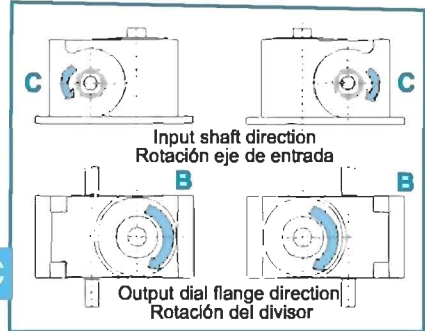
A-C



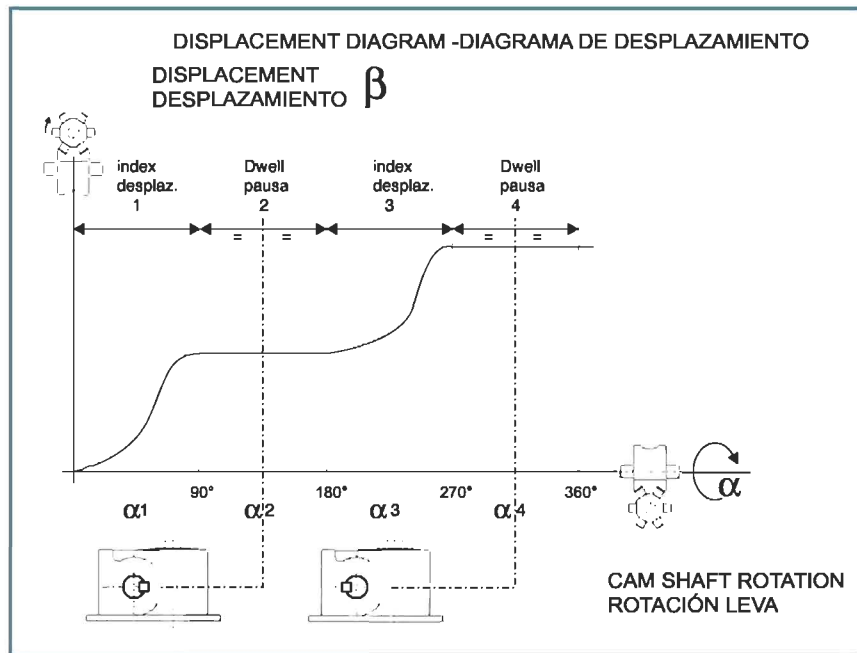
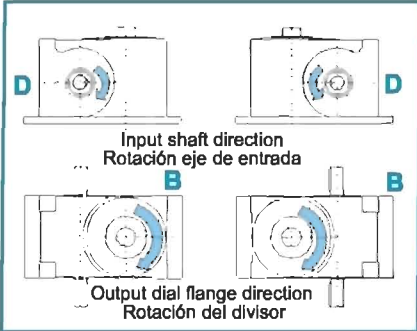
A-D



B-C



B-D



ENG

Type	Size	Stops	$\alpha_1 + \alpha_2 + \alpha_3 + \alpha_4 = 360^\circ$				Direction of rotation	Working of position	Reducer fitting position
			Index 1	Dwell 2	Index 3	Dwell 4			
Pg. 12	Pg. 12	Pg. 12	Pg.12	Pg. 6	Pg. 6	Pg. 6	Pg. 22	Pg. 29	Pg. 28
IG	125	2	$\alpha_1 90^\circ$	$\alpha_2 90^\circ$	$\alpha_3 90^\circ$	$\alpha_4 90^\circ$	BC	A	1-S2-90°
Pág.12	Pág. 12	Pág. 12	Pág.12	Pág. 6	Pg. 6	Pg. 6	Pág.22	Pág.29	Pág. 28
Tipo	Tamaño	Número divisiones	Desplazam 1	Pausa 2	Desplazam 3	Pausa 4	Rotación	Posición de trabajo mesa	Posición de montaje reductor
			$\alpha_1 + \alpha_2 + \alpha_3 + \alpha_4 = 360^\circ$						

ESP

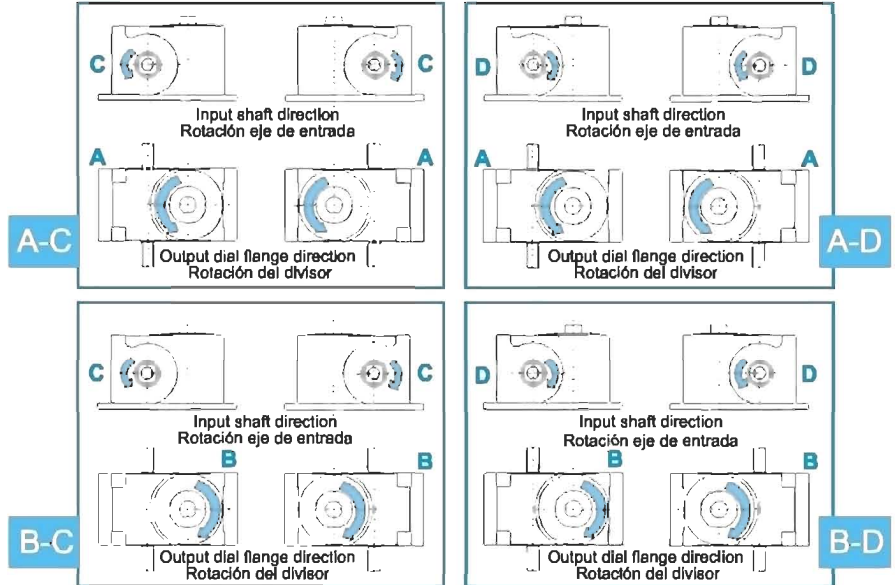


# OSCILLATING FUNCTION FUNCIÓN OSCILANTE

ENG

Directions of rotation on cycle start

By convention the beginning of the cycle coincides with the first displacement (1)



ESP

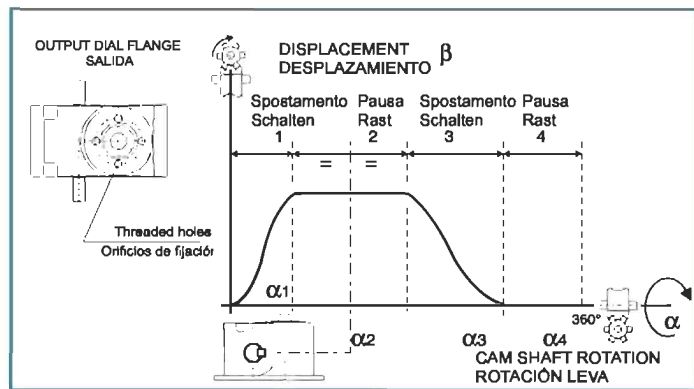
Sentido de rotación para el inicio del ciclo

Por convenio el inicio del ciclo coincide con el primer desplazamiento (1)

ENG

Under the company standard, the values of the  $\gamma$  angle for the key of the cam shaft and the  $\delta$  angle for the threaded holes on the dial flange are both equal to 0 (zero) at the center of the first dwell phase (see diagram on the side). This position is identified as a **phase axis**

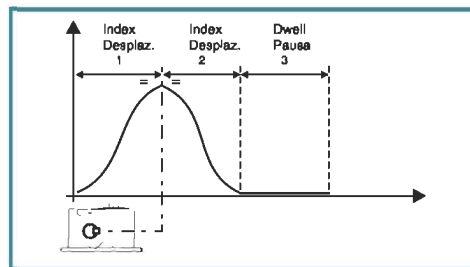
In case of specific necessity it is possible to indicate the values for the  $\gamma$  angle and the  $\delta$  angle referred to the required position of the key and of the output dial flange at the beginning of the cycle (see diagram on the side).



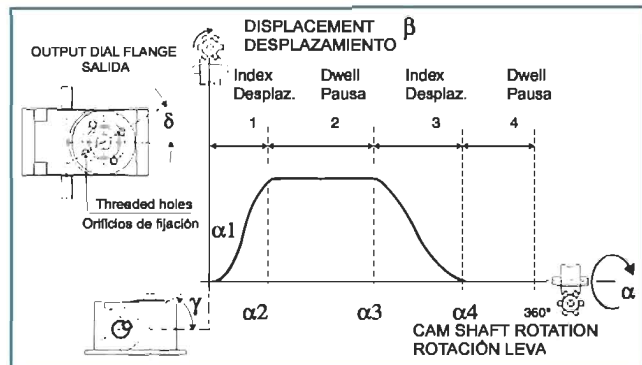
ESP

El estándar de la empresa prevé que los valores del ángulo ( $\gamma$ ) para la chaveta en el Eje-Leva y el ángulo ( $\delta$ ) para los orificios roscados en el divisor sean ambos iguales a 0 al centro de la primera fase de pausa (véase diagrama aquí a lado) o inversión de movimiento con pausa igual a 0 (ver diagrama inferior). Esta posición se identifica como eje de fase.

En caso de necesidades especiales se pueden indicar los valores para los ángulos ( $\gamma$ ) y ( $\delta$ ) referidos a la posición deseada para la chaveta y el divisor al principio del ciclo. (ver diagrama izquierdo).



Oscillating angle Angulo d'oscilacion $\beta$	Minimum input cam angle Minimum angulo empujado para la oscilacion $\alpha$
15°	30°
30°	45°
45°	60°
60°	75°
75°	90°
90°	120°



ENG

The indications on the side refer to the preliminary coding

ESP

El ejemplo de la izquierda se refieren a la codificación previa.

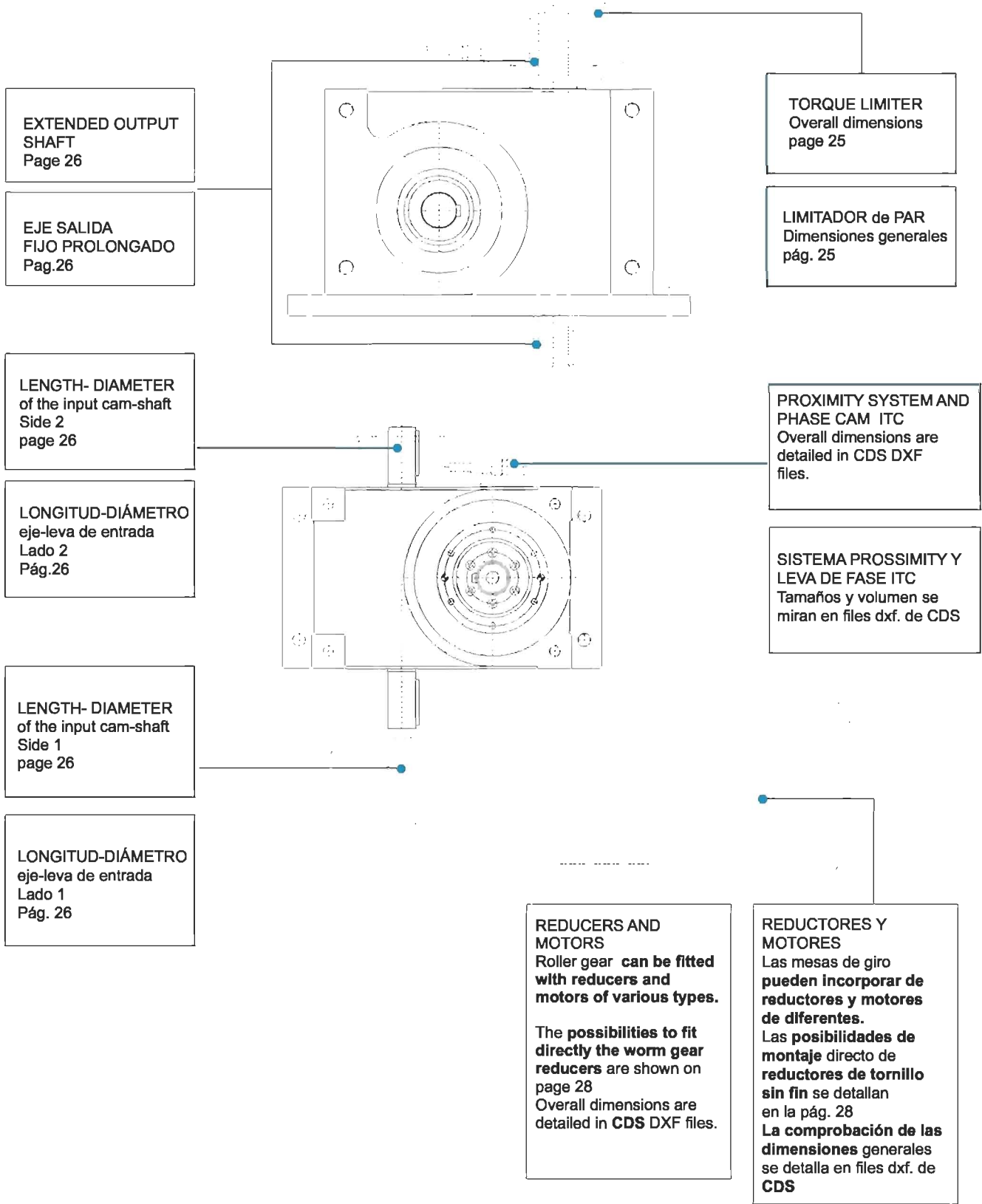
Type	Size	$\beta$	$\alpha1+\alpha2+\alpha3+\alpha4= 360^\circ$				Cycle start direction	$\gamma$	$\delta$	Working position	Reducer fitting position
			Index 1	Dwell 2	Return 3	Dwell 4					
Pg. 12	Pg. 12	Pg. 23					Pg. 23	Pg. 23	Pg. 23	Pg. 29	Pg. 28
IG	125	90°	$\alpha1$ 90°	$\alpha2$ 90°	$\alpha3$ 90°	$\alpha4$ 90°	BC	0°	0°	A	1-S2-90°
Pág. 12	Pág. 12	Pág. 23					Pág.23	Pág.23	Pág.23	Pág.29	Pág.28
Tipo	Tamaño	$\beta$	Desplaza 1	Pausa 2	Desplaza 3	Pausa 4	Rotación comienzo ciclo	$\gamma$	$\delta$	Posición de trabajo mesa	Posición de montaje Reductor
			$\alpha1+\alpha2+\alpha3+\alpha4= 360^\circ$								

ENG

ESP

# ACCESSORIES- CUSTOMIZINGS

## ACCESORIOS - FABRICACIONES ESPECIALES



EXTENDED OUTPUT SHAFT  
Page 26

EJE SALIDA FIJO PROLONGADO  
Pag.26

LENGTH- DIAMETER of the input cam-shaft  
Side 2  
page 26

LONGITUD-DIÁMETRO eje-leva de entrada  
Lado 2  
Pág.26

LENGTH- DIAMETER of the input cam-shaft  
Side 1  
page 26

LONGITUD-DIÁMETRO eje-leva de entrada  
Lado 1  
Pág. 26

TORQUE LIMITER  
Overall dimensions  
page 25

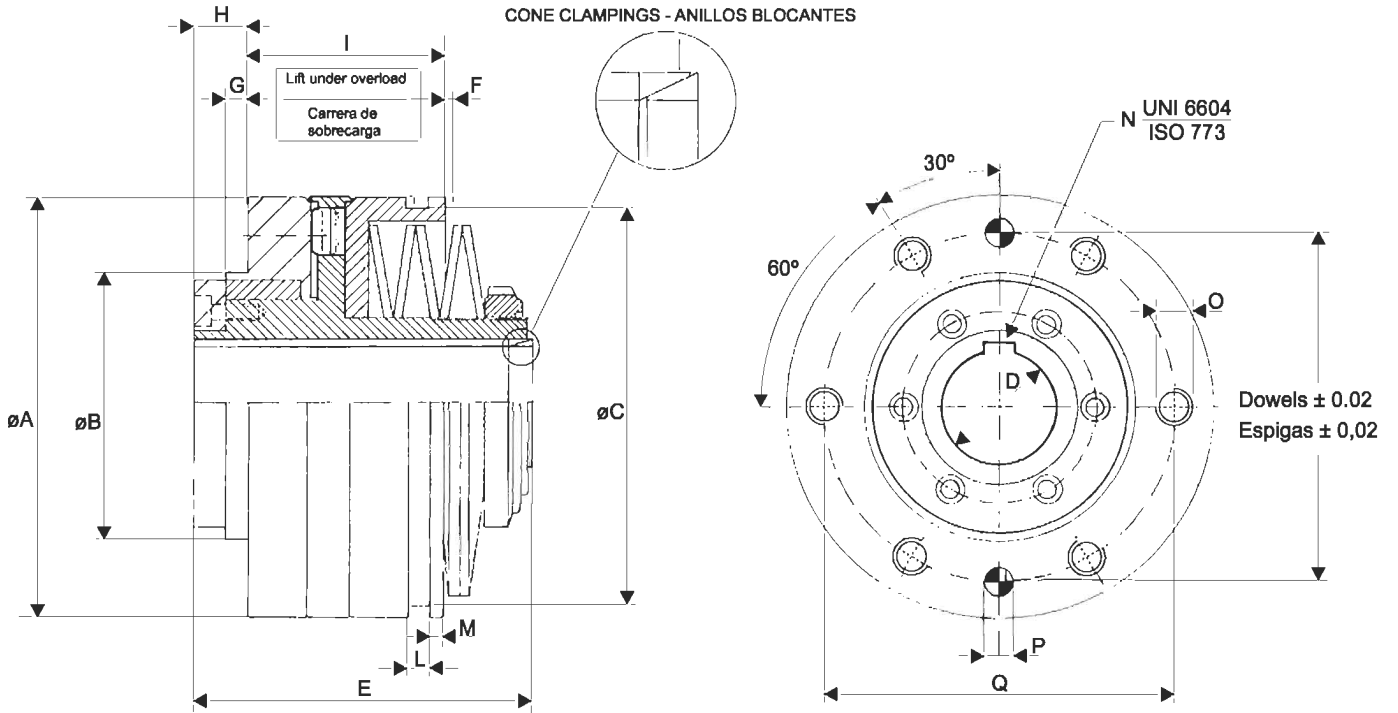
LIMITADOR de PAR  
Dimensiones generales  
pág. 25

PROXIMITY SYSTEM AND PHASE CAM ITC  
Overall dimensions are detailed in CDS DXF files.

SISTEMA PROSSIMITY Y LEVA DE FASE ITC  
Tamaños y volumen se miran en files dxf. de CDS

REDUCERS AND MOTORS  
Roller gear can be fitted with reducers and motors of various types.  
  
The possibilities to fit directly the worm gear reducers are shown on page 28  
Overall dimensions are detailed in CDS DXF files.

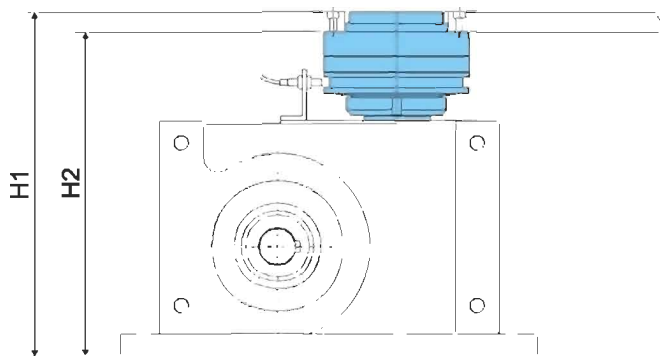
REDUCTORES Y MOTORES  
Las mesas de giro pueden incorporar de reductores y motores de diferentes.  
Las posibilidades de montaje directo de reductores de tornillo sin fin se detallan en la pág. 28  
La comprobación de las dimensiones generales se detalla en files dxf. de CDS



TYPE	A	B (h7)	C	D (H7)	E	F	G	H	I	L	M	N	O	P (H7)	Q			CAD FILE
GLR-50	79	55	73	19	50.3	1.32	3	10	27.3	5	2	6x6	M5	5	65			LR50
GLR-100	98	70	90	28	70.3	1.32	5.5	13.5	41.5	7	4	8x7	M6	6	85			LR100
GLR-400	118	80	110	30	90.3	1.71	5	14	57.4	9	4	8x7	M8	8	100			LR400
GLR-700	158	100	150	42	121	1.71	8.5	20.5	69.9	9	4	12x8	M10	10	130			LR700
GLR-1000	216	145	208	55	156	2.93	10	25	95	9	4	16x10	M12	12	180			LR1000
TIPO	A	B (h7)	C	D (H7)	E	F	G	H	I	L	M	N	O	P (H7)	Q			CAD FILE

ENG

ESP



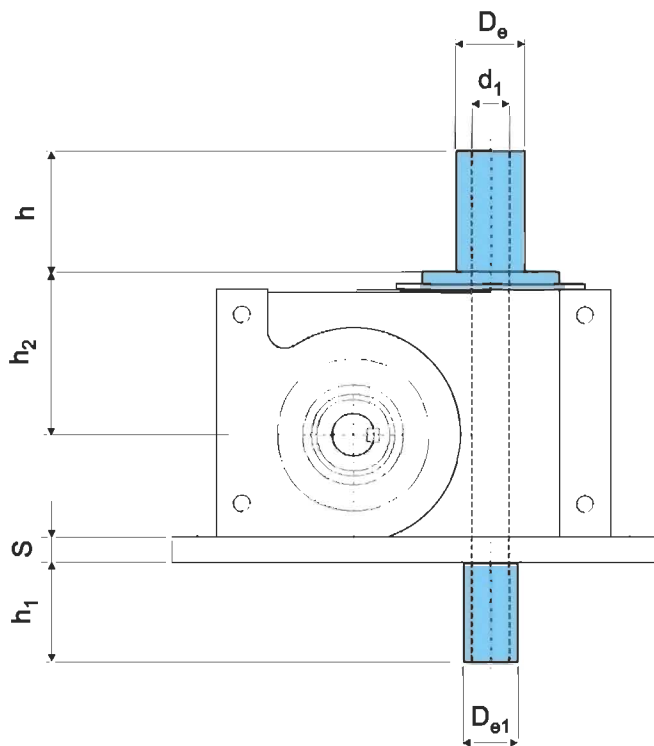
Output rotating element - Elemento de giro en salida

FITTING COMBINATIONS									
TYPE	IGA 63	IGA 80	IGA 82.5	IGA 100	IGA 108	IGA 125	IGA 140	IGA 160	IGA 200
GLR-50	•								
GLR-100		•	•						
GLR-400				•	•				
GLR-700						•	•		
GLR-1000								•	•
H1	180.3	232.3	230.3	277.3	293.3	340	375	429	491
H2	170.3	218.8	216.8	263.3	279.3	319.5	354.5	404	466
TIPO	IGA 63	IGA 80	IGA 82.5	IGA 100	IGA 108	IGA 125	IGA 140	IGA 160	IGA 200

ENG

COMBINACIONES DE MONTAJE

ESP



ENG

EXTENDED OUTPUT SHAFT

ESP

EJE SALIDA PROLONGADO

ENG

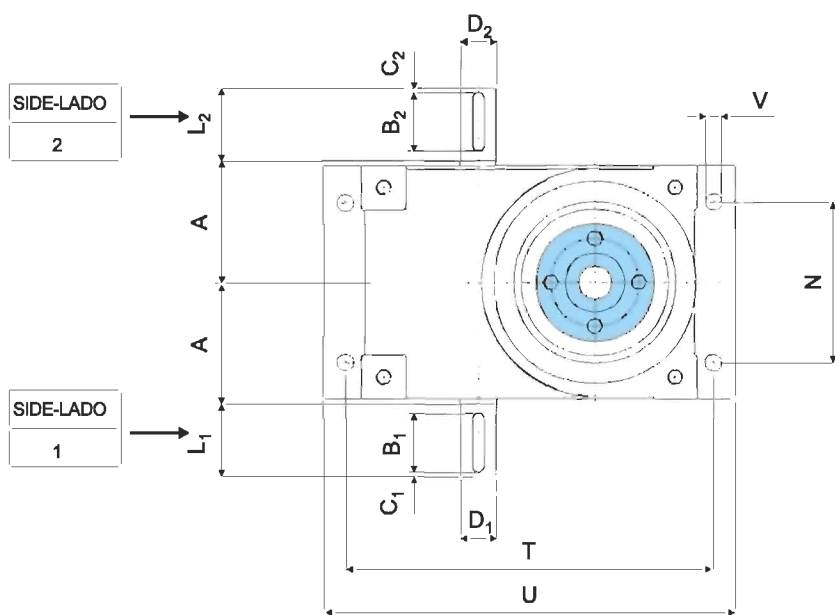
INPUT SHAFT WITH NON - STANDARD LENGTH OR DIAMETER

For specific connections to bottom plate consult CDS technical service.

ESP

EJE DE ENTRADA CON LONGITUD Y DIAMETRO NO STANDARD

Para conexiones específicas a la superficie de fondo consúltese el servicio CDS técnico comercial



Rotating element - Elemento de Giro

	A (STD)	B <sub>1</sub>	B <sub>2</sub>	C <sub>1</sub>	C <sub>2</sub>	∅D <sub>1</sub> (k6) max	∅D <sub>2</sub> (k6) max	∅D <sub>e</sub> (h7) max	∅D <sub>e1</sub> (g6) max	∅d <sub>1</sub> max	h	h <sub>1</sub>	h <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	N	S	T	U	V	
IG 63	88					22	22	60	20	10											
IG 80	83					25	25	80	25	15											
IG 82.5	72					25	25	85	25	15											
IG 100	93					30	30	90	30	20											
IG 108	92					40	40	100	30	20											
IG 125	113					35	35	105	45	20											
IG 140	133					40	40	115	45	30											
IG 160	148					48	48	130	50	32											
IG 200	183					55	55	180	65	40											

The empty boxes indicate the possibility to specify the required dimension - Las casillas vacías dan la posibilidad de indicar la medida necesaria.

# CYCLE TIMES WITH MOTOREDUCTER TIEMPOS DE CICLO CON MOTOR REDUCTOR

- 50Hz -

combined gear	4 Poles - 50Hz 1400 rpm		T Cycle time [s]	Index Angle [ ° ]														ENG		
	Reducer Ratio	cycles/m		30°	45°	60°	75°	90°	105°	120°	135°	150°	180°	210°	240°	270°	300°		315°	330°
				Index time - $t_1$ - [s]																
	7	200,0	0,30	0,03	0,04	0,05	0,06	0,08	0,09	0,10	0,11	0,13	0,15	0,18	0,20	0,23	0,25	0,26	0,28	
	10	140,0	0,43	0,04	0,05	0,07	0,09	0,11	0,13	0,14	0,16	0,18	0,21	0,25	0,29	0,32	0,36	0,38	0,39	
	13	107,7	0,56	0,05	0,07	0,09	0,12	0,14	0,16	0,19	0,21	0,23	0,28	0,33	0,37	0,42	0,46	0,49	0,51	
	16	87,5	0,69	0,06	0,09	0,11	0,14	0,17	0,20	0,23	0,26	0,29	0,34	0,40	0,46	0,51	0,57	0,60	0,63	
	20	70,0	0,86	0,07	0,11	0,14	0,18	0,21	0,25	0,29	0,32	0,36	0,43	0,50	0,57	0,64	0,71	0,75	0,79	
	25	56,0	1,07	0,09	0,13	0,18	0,22	0,27	0,31	0,36	0,40	0,45	0,54	0,63	0,71	0,80	0,89	0,94	0,98	
(*)	32	43,8	1,37	0,11	0,17	0,23	0,29	0,34	0,40	0,46	0,51	0,57	0,69	0,80	0,91	1,03	1,14	1,20	1,26	
(*)	40	35,0	1,71	0,14	0,21	0,29	0,36	0,43	0,50	0,57	0,64	0,71	0,86	1,00	1,14	1,29	1,43	1,50	1,57	
(*)	50	28,0	2,14	0,18	0,27	0,36	0,45	0,54	0,63	0,71	0,80	0,89	1,07	1,25	1,43	1,61	1,79	1,88	1,96	
(**)	63	22,2	2,70	0,23	0,34	0,45	0,56	0,68	0,79	0,90	1,01	1,13	1,35	1,58	1,80	2,08	2,25	2,36	2,48	
(**)	80	17,5	3,43	0,29	0,43	0,57	0,71	0,86	1,00	1,14	1,29	1,43	1,71	2,00	2,29	2,57	2,86	3,00	3,14	
(**)	100	14,0	4,29	0,36	0,54	0,71	0,89	1,07	1,25	1,43	1,61	1,79	2,14	2,50	2,86	3,21	3,57	3,75	3,93	
(**)	125	11,2	5,36	0,45	0,67	0,89	1,12	1,34	1,56	1,79	2,01	2,23	2,68	3,13	3,57	4,02	4,46	4,69	4,91	
(**)	160	8,8	6,86	0,57	0,86	1,14	1,43	1,71	2,00	2,29	2,57	2,86	3,43	4,00	4,57	5,14	5,71	6,00	6,29	
(**)	200	7,0	8,57	0,71	1,07	1,43	1,79	2,14	2,50	2,86	3,21	3,57	4,29	5,00	5,71	6,43	7,14	7,50	7,86	
(**)	250	5,6	10,71	0,89	1,34	1,79	2,23	2,68	3,13	3,57	4,02	4,46	5,36	6,25	7,14	8,04	8,93	9,38	9,82	
Relacion de reduccion combinada	R.Red	Ciclos/m	T Ciclos [s]	Angulos leva [ ° ]														ESP		
	4 Poles - 50Hz 1400 rpm			30°	45°	60°	75°	90°	105°	120°	135°	150°	180°	210°	240°	270°	300°		315°	330°
	Tiempos de desplazamiento - $t_1$ - [s]																			

- 60Hz -

combined gear	4 Poles - 50Hz 1400 rpm		T Cycle time [s]	Index Angle [ ° ]														ENG		
	Reducer Ratio	cycles/m		30°	45°	60°	75°	90°	105°	120°	135°	150°	180°	210°	240°	270°	300°		315°	330°
				Index time - $t_1$ - [s]																
	7	242,9	0,25	0,02	0,03	0,04	0,05	0,06	0,07	0,08	0,09	0,10	0,12	0,14	0,16	0,19	0,21	0,22	0,23	
	10	170,0	0,35	0,03	0,04	0,06	0,07	0,09	0,10	0,12	0,13	0,15	0,18	0,21	0,24	0,28	0,29	0,31	0,32	
	13	130,8	0,46	0,04	0,06	0,08	0,10	0,11	0,13	0,15	0,17	0,19	0,23	0,27	0,31	0,34	0,38	0,40	0,42	
	16	106,3	0,56	0,05	0,07	0,09	0,12	0,14	0,16	0,19	0,21	0,24	0,28	0,33	0,38	0,42	0,47	0,49	0,52	
	20	85,0	0,71	0,06	0,09	0,12	0,15	0,18	0,21	0,24	0,26	0,29	0,35	0,41	0,47	0,53	0,59	0,62	0,65	
	25	68,0	0,88	0,07	0,11	0,15	0,18	0,22	0,26	0,29	0,33	0,37	0,44	0,51	0,59	0,68	0,74	0,77	0,81	
(*)	32	53,1	1,13	0,09	0,14	0,19	0,24	0,28	0,33	0,38	0,42	0,47	0,56	0,66	0,75	0,86	0,94	0,99	1,04	
(*)	40	42,5	1,41	0,12	0,18	0,24	0,29	0,35	0,41	0,47	0,53	0,59	0,71	0,82	0,94	1,06	1,18	1,24	1,29	
(*)	50	34,0	1,76	0,15	0,22	0,29	0,37	0,44	0,51	0,59	0,66	0,74	0,88	1,03	1,18	1,32	1,47	1,54	1,62	
(**)	63	27,0	2,22	0,19	0,28	0,37	0,46	0,56	0,65	0,74	0,83	0,93	1,11	1,30	1,48	1,67	1,85	1,95	2,04	
(**)	80	21,3	2,82	0,24	0,35	0,47	0,59	0,71	0,82	0,94	1,06	1,18	1,41	1,65	1,88	2,12	2,35	2,47	2,59	
(**)	100	17,0	3,53	0,29	0,44	0,59	0,74	0,88	1,03	1,18	1,32	1,47	1,76	2,06	2,35	2,65	2,94	3,09	3,24	
(**)	125	13,6	4,41	0,37	0,55	0,74	0,92	1,10	1,29	1,47	1,65	1,84	2,21	2,57	2,94	3,31	3,68	3,86	4,04	
(**)	160	10,6	5,65	0,47	0,71	0,94	1,18	1,41	1,65	1,88	2,12	2,35	2,82	3,29	3,76	4,24	4,71	4,94	5,18	
(**)	200	8,5	7,06	0,59	0,88	1,18	1,47	1,76	2,06	2,35	2,65	2,94	3,53	4,12	4,71	5,29	5,88	6,18	6,47	
(**)	250	6,8	8,82	0,74	1,10	1,47	1,84	2,21	2,57	2,94	3,31	3,68	4,41	5,15	5,88	6,62	7,35	7,72	8,09	
Relacion de reduccion combinada	R.Red	Ciclos/m	T Ciclo [s]	Angulos leva [ ° ]														ESP		
	4 Poles - 50Hz 1400 rpm			30°	45°	60°	75°	90°	105°	120°	135°	150°	180°	210°	240°	270°	300°		315°	330°
	Tiempos de desplazamiento - $t_1$ - [s]																			

ENG

Index angle - suggested for CONTINUOUS RUN mode

Index angle - suggested for CYCLE ON DEMAND mode

(\*) Direct or combined ratio available

(\*\*) Combined ratio with 1 pair cylindrical gear + worm gear  
(See technical guidelines chapter 3.1)

ESP

Angulo de desplazamiento aconsejando para el funcionamiento EN CONTINUO

Angulo de desplazamiento aconsejando para el funcionamiento A MANDO

(\*) Relacion de reduccion directa y/o combinada

(\*\*) Relacion de reduccion combinada

(Mirar guia tecnica cap.3.1)

# REDUCER MATCHING TABLE ACOPLAMIENTO MOTORREDUCTOR

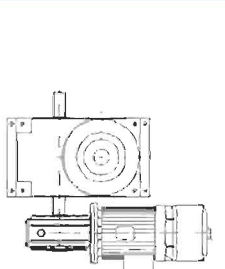
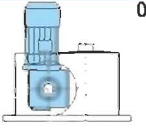
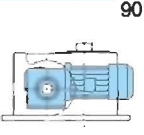
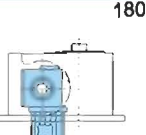
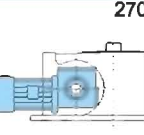
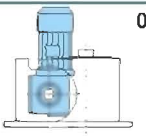
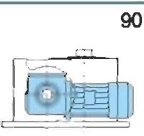
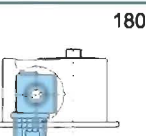
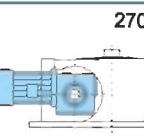
REDUCER		Shaft Diameter	Index drive									
Type	Shaft Diameter		IG63	IG 80	IG 82.5	IG 100	IG 108	IG 125	IG 140	IG 160	IG 200	
↓	↓		Std →	19	24	20	28	30	32	38	42	48
			Max→	20	25	25	30	40	35	40	50	60
<b>BONFIGLIOLI</b>												
MVF	30	14	●									
MVF	44	18	●	●	●							
MVF	49	25		●	●	●						
MVF	63	25		●	●	●	●					
MVF	72	28					●		●			
MVF	86	35					●	●	●			
MVF	110	42								●		
MVF	130	45								●	●	
MVF	150	50								●	●	●
MVF	185	60								●	●	●
MVF	210	90									●	●
MVF	250	110										●
<b>STM</b>												
RMI	28	14	●									
RMI	40	19	●	●	●							
RMI	50	24		●	●	●	●					
RMI	63	25		●	●	●	●	●				
RMI	70	28					●		●			
RMI	85	32					●	●				
RMI	110	42								●		
RMI	130	48								●	●	
RMI	150	55								●	●	●
RMI	180	65									●	●
↑	↑		Max→	20	25	25	30	40	35	40	50	60
Tipo	Eje diam. (mm)		Std →	19	24	20	28	30	32	38	42	48
			Eje diam.	IG63	IG 80	IG 82.5	IG 100	IG 108	IG 125	IG 140	IG 160	IG 200
<b>REDUCTOR</b>			Unidad									

ESP

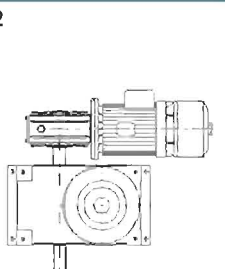
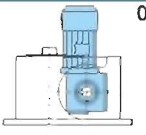
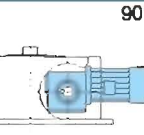
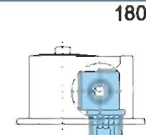
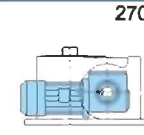
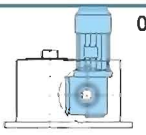
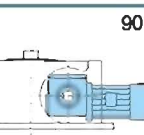
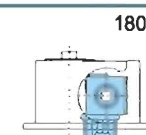
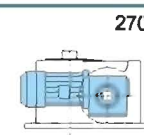
●	Reducer direct fitting Montaje directo del reductor		Reducer with integrated torque limiter Reductor con limitador de par
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## FITTING POSITION POSICIÓN DE MONTAJE

FITTING SIDE ORIENTATION - LADO DE MONTAJE MOTORREDUCTOR

	S1	0°  1-S1-0°	90°  1-S1-90°	180°  1-S1-180°	270°  1-S1-270°
	S2	0°  1-S2-0°	90°  1-S2-90°	180°  1-S2-180°	270°  1-S2-270°




FITTING SIDE ORIENTATION - LADO DE MONTAJE MOTORREDUCTOR

	S1	0°  2-S1-0°	90°  2-S1-90°	180°  2-S1-180°	270°  2-S1-270°
	S2	0°  2-S2-0°	90°  2-S2-90°	180°  2-S2-180°	270°  2-S2-270°

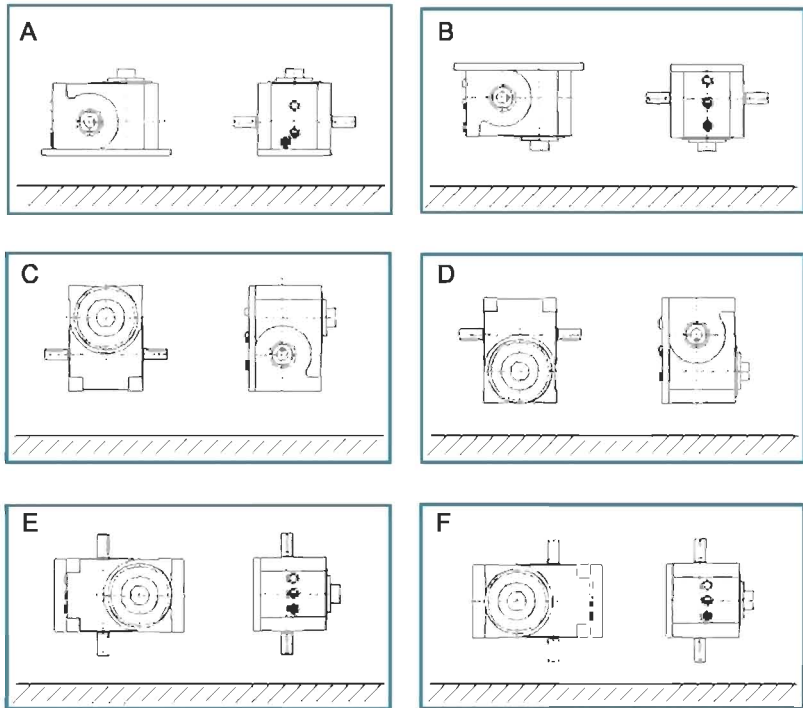


# WORKING POSITION - LUBRICATION POSICIÓN DE TRABAJO - LUBRICACIÓN




ENG

-  Lubricant refilling plug
-  Lubricant level control plug
-  Lubricant drain plug

NOTE: If necessary the exact coordinates of the position of the refill plug, level control plug and drain plug can be



ESP

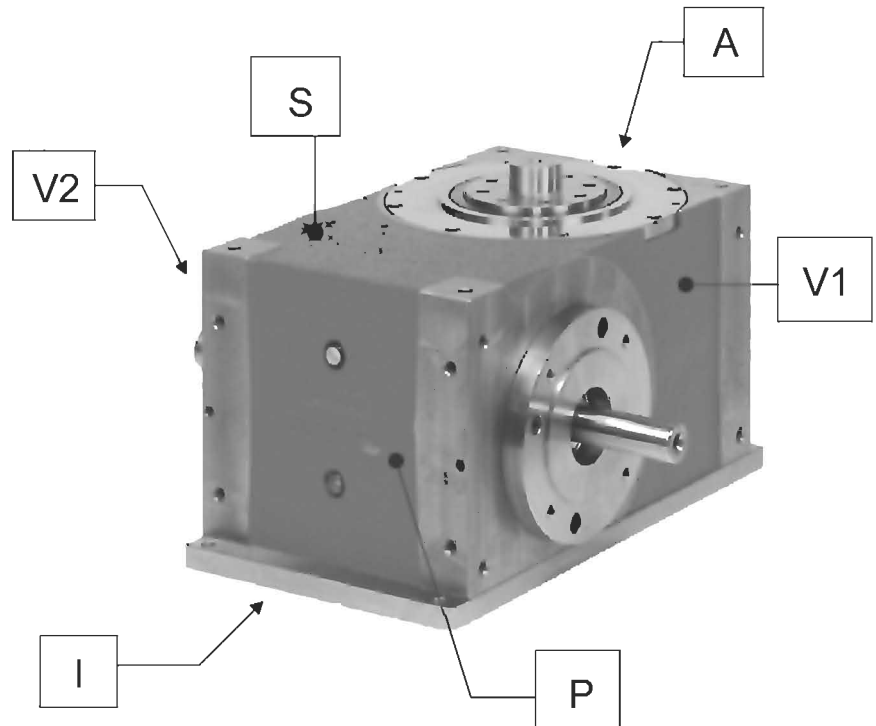
-  Carga lubricante
-  Control de nivel
-  Descarga lubricante

NOTA: De ser necesario se pueden proporcionar las coordenadas exactas de los tapones de carga descarga y control.

# MOUNTING FACES IDENTIFICACION DE LAS CARAS DE LOS UNIDADES

ENG

- A: front side
- S: upper side
- V1: side version 1
- V2: side version 2
- P: back side
- I: lower side



ESP

- A: cara anterior
- S: cara superior
- V1: version 1
- V2: version 2
- P: cara posterior
- I: cara inferior