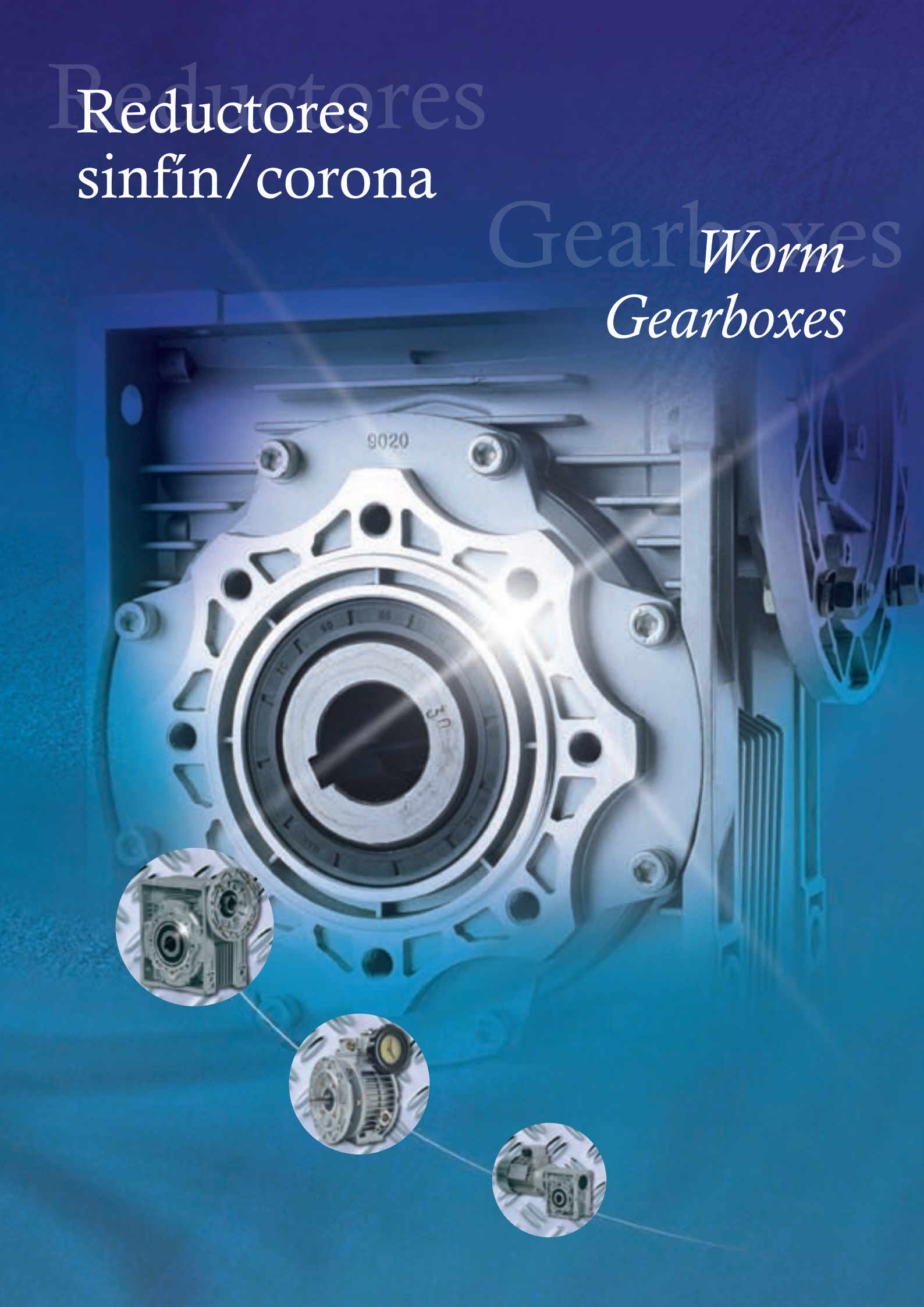
Reductores sinfín/corona

Worm Gearboxes

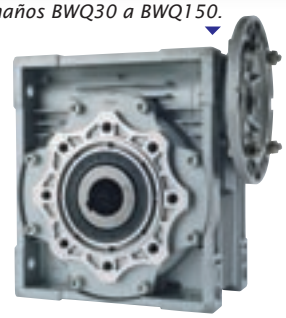


Máxima Competitividad
Experiencia, Servicio

Reductor planetario con pares de salida desde 70 hasta 21500 daNm.

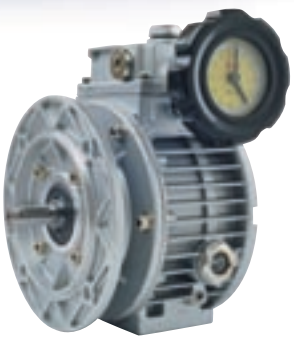
Reductor coaxial con relaciones desde 1/3 hasta 1/280.

Reductor sinfín/corona en tamaños BWQ30 a BWQ150.



Reductor de ejes paralelos y ortogonales.

Variador de velocidad, para potencias desde 0,12Kw hasta 4Kw.



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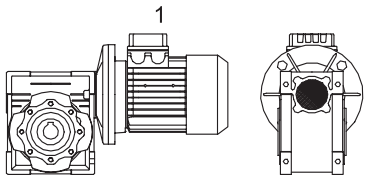
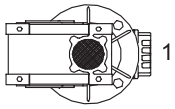
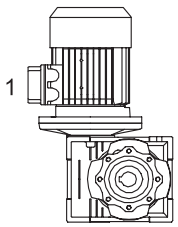
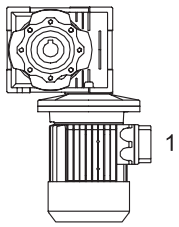
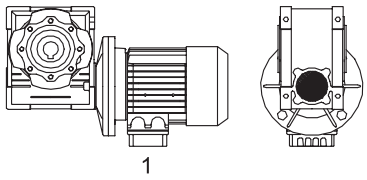
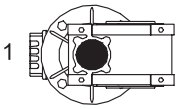
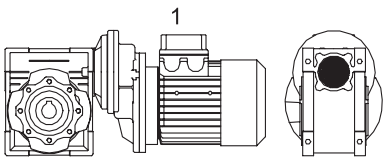
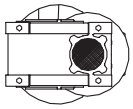
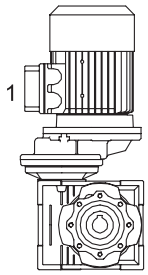
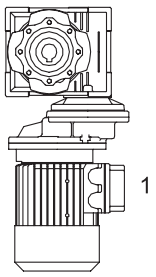
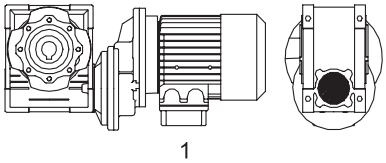
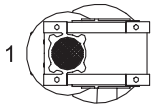
POSICIÓN DE MONTAJE / *MOUNTING POSITION*

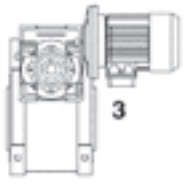
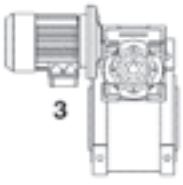
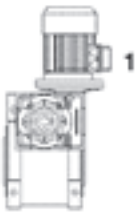
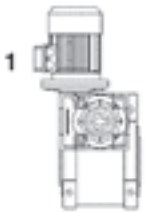
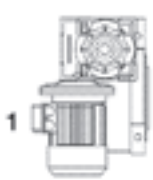
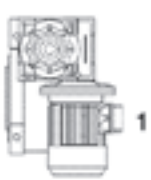
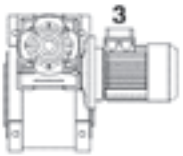
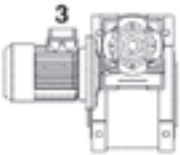
BWQ

B3	B6	V5	V6
			
B8	**B7**		
			

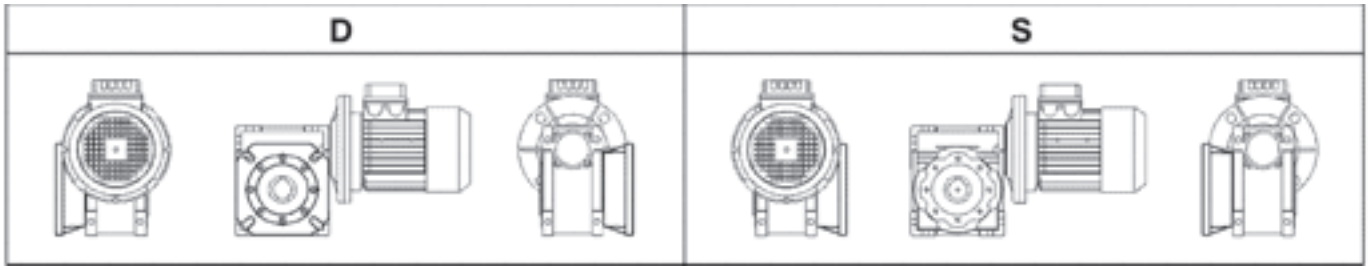
BWQ + BH

B3	B6	V5	V6
			
B8	**B7**		
			

BWQ + BWQ

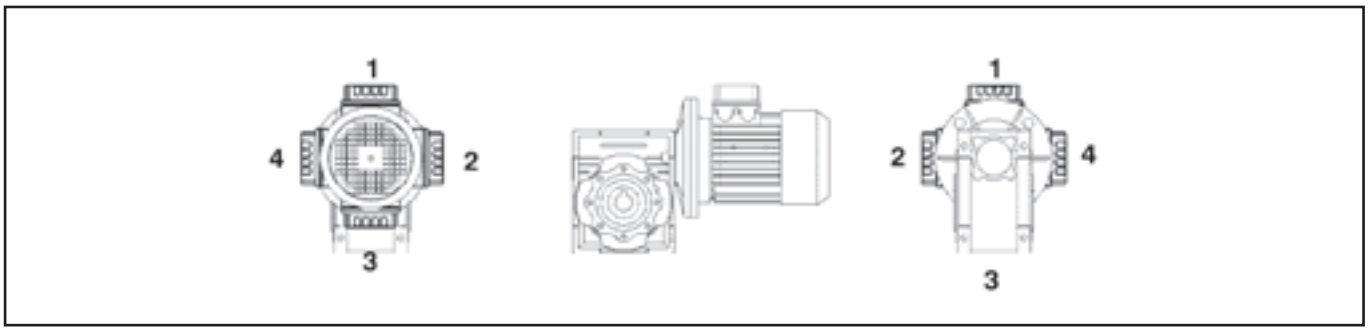
A2	A1	A3	A4
			
A5	**A6**	**A7**	**A8**
			

POSICIÓN BRIDA DE SALIDA / *OUTPUT FLANGE POSITION*



Si no se indica lo contrario, el reductor es entregado con brida en posición D en relación a posición B3.

Unless otherwise specified, gear reducers are supplied with flange in position D.



Si no se indica lo contrario, la caja de bornes del motor se monta en posición 1.

Unless otherwise specified, terminal box is supplied in position 1.

DENTADO Y RENDIMIENTO BWQ / *WORM WHEEL TOOTH AND EFFICIENCY BWQ*

BWQ	i	7,5	10	15	20	25	30	40	50	60	80	100
25	Z1	4	3	2	2		1	1	1	1		
	Y	25º 18'	19º 31'	13º 18'	10º 53'		6º 44'	5º 29'	4º 34'	3º 56'		
	mx	1,3	1,3	1,3	1		1,3	1	0,8	0,67		
	hd	0,84	0,82	0,78	0,74		0,66	0,61	0,57	0,54		
	hs	0,7	0,67	0,6	0,55		0,46	0,41	0,36	0,34		
30	Z1	4	3	2	2	1	1	1	1	1	1	
	Y	18º 50'	14º 21'	9º 40'	7º 44'	5º 34'	4º 42'	3º 53'	3º 11'	2º 46'	2º 46'	
	mx	1,44	1,44	1,44	1,1	1,7	1,44	1,1	0,88	0,75	0,56	
	hd	0,84	0,81	0,76	0,72	0,67	0,64	0,58	0,54	0,5	0,44	
	hs	0,66	0,62	0,54	0,5	0,43	0,39	0,35	0,31	0,27	0,23	
40	Z1	4	4	2	2	2	1	1	1	1	1	1
	Y	21º 48'	17º 31'	11º 18'	8º 58'	7º 41'	5º 42'	4º 30'	3º 51'	3º 17'	2º 32'	2º 05'
	mx	2	1,5	2	1,5	1,25	2	1,5	1,25	1,04	0,78	0,63
	hd	0,86	0,85	0,81	0,77	0,74	0,69	0,64	0,61	0,57	0,51	0,47
	hs	0,69	0,65	0,58	0,53	0,5	0,44	0,4	0,36	0,32	0,28	0,24
50	Z1	4	4	2	2	2	1	1	1	1	1	1
	Y	21º 48'	17º 42'	11º 18'	9º 04'	7º 36'	5º 42'	4º 32'	3º 49'	3º 17'	2º 33'	2º 04'
	mx	2,5	1,9	2,5	1,9	1,54	2,5	1,9	1,54	1,3	0,98	0,78
	hd	0,86	0,84	0,8	0,77	0,74	0,7	0,65	0,61	0,57	0,51	0,49
	hs	0,69	0,65	0,58	0,54	0,5	0,44	0,39	0,35	0,32	0,27	0,23
63	Z1	4	4	2	2	2	1	1	1	1	1	1
	Y	24º 31'	20º 19'	12º 50'	10º 29'	8º 44'	6º 30'	5º 17'	4º 23'	3º 47'	2º 59'	2º 25'
	mx	3,25	2,5	3,25	2,5	2	3,25	2,5	2	1,68	1,28	1,02
	hd	0,87	0,86	0,82	0,8	0,77	0,73	0,69	0,65	0,61	0,56	0,5
	hs	0,7	0,65	0,59	0,54	0,5	0,45	0,4	0,36	0,33	0,28	0,24
75	Z1	4	4	2	2	2	1	1	1	1	1	1
	Y	26º 33'	21º 48'	14º 02'	11º 18'	9º 37'	7º 07'	5º 42'	4º 50'	4º 05'	3º 15'	2º 40'
	mx	4	3	4	3	2,45	4	3	2,45	2	1,54	1,24
	hd	0,88	0,87	0,84	0,81	0,79	0,75	0,71	0,68	0,64	0,59	0,54
	hs	0,7	0,67	0,6	0,57	0,52	0,46	0,42	0,38	0,35	0,29	0,26
90	Z1	4	4	2	2	2	1	1	1	1	1	1
	Y	28º 20'	23º 26'	15º 05'	12º 14'	10º 37'	7º 40'	6º 11'	5º 21'	4º 36'	3º 36'	2º 57'
	mx	4,8	3,6	4,8	3,6	3	4,8	3,6	3	2,5	1,88	1,5
	hd	0,89	0,88	0,85	0,83	0,81	0,77	0,74	0,71	0,68	0,62	0,58
	hs	0,72	0,69	0,63	0,59	0,55	0,49	0,45	0,41	0,38	0,32	0,28
110	Z1	4	4	2	2	2	1	1	1	1	1	1
	Y	28º 17'	27º 35'	15º 03'	14º 38'	12º 37'	7º 39'	7º 26'	6º 23'	5º 31'	4º 23'	3º 38'
	mx	5,89	4,6	5,89	4,6	3,75	5,89	4,6	3,75	3,12	2,36	1,9
	hd	0,89	0,88	0,85	0,84	0,83	0,78	0,77	0,74	0,71	0,66	0,62
	hs	0,71	0,68	0,62	0,61	0,58	0,48	0,48	0,44	0,41	0,36	0,32
130	Z1	4	4	2	2	2	1	1	1	1	1	1
	Y	28º 46'	26º 15'	15º 21'	13º 51'	11º 49'	7º 48'	7º 01'	5º 58'	5º 12'	4º 05'	3º 25'
	mx	7	5,4	7	5,4	4,37	7	5,4	4,37	3,68	2,75	2,24
	hd	0,9	0,88	0,86	0,85	0,83	0,79	0,77	0,74	0,71	0,67	0,63
	hs	0,71	0,68	0,62	0,6	0,57	0,49	0,46	0,43	0,39	0,34	0,3

Hélice con sentido derecha / *The helix is right-handed.*

Y = Ángulo de la hélice / *Helix angle*
mx = Módulo / *Module*
hd = Rendimiento dinámico / *Dynamic efficiency*
hs = Rendimiento estático / *Static efficiency*

PRESTACIONES BWQ / *PERFORMANCE BWQ*

i	n2	n1 = 2800								
			30	40	50	63	75	90	110	130
7,5	373	kw1	0,58	1,23	2,26	4,04	5,58	8,92	14,50	22,10
		M2	13	28	52	93	130	210	340	520
10	280	kw1	0,45	0,97	1,80	3,20	4,72	7,60	12,20	18,70
		M2	13	29	54	97	145	235	380	580
15	187	kw1	0,31	0,72	1,31	2,34	3,37	6	9,3	14,7
		M2	13	31	57	103	150	270	425	670
20	140	kw1	0,23	0,52	0,95	1,75	2,76	4,4	7	11
		M2	12	29	53	100	170	260	420	660
25	112	kw1	0,25	0,42	0,75	1,32	2,12	3,5	5,9	9
		M2	16	28	51	92	150	250	440	670
30	93	kw1	0,21	0,44	0,82	1,5	2,1	3,7	5,7	9
		M2	15	34	64	120	170	310	480	770
40	70	kw1	0,16	0,32	0,59	1,06	1,57	2,5	4,1	6,5
		M2	14	31	59	108	165	275	460	730
50	56	kw1	0,12	0,26	0,45	0,83	1,2	2	3,3	5,1
		M2	13	30	53	100	150	265	450	700
60	47	kw1	0,1	0,21	0,37	0,68	1	1,62	2,73	4
		M2	12	28	50	95	145	245	430	640
80	35	kw1	0,08	0,16	0,27	0,49	0,72	1,2	1,9	3
		M2	11	25	45	85	130	225	380	590
100	28	kw1		0,12	0,21	0,37	0,58	0,9	1,49	2,18
		M2		23	40	74	120	200	350	520

i	n2	n1 = 1400								
			30	40	50	63	75	90	110	130
7,5	187	kw1	0,41	0,9	1,58	2,84	4,1	6,3	10,4	16,1
		M2	18	40	71	128	185	290	480	750
10	140	kw1	0,32	0,69	1,23	2,19	3,25	5,1	8,57	13,5
		M2	18	40	72	130	195	310	520	820
15	93	kw1	0,23	0,48	0,88	1,65	2,3	4,1	6,5	10,3
		M2	18	40	74	140	200	360	570	920
20	70	kw1	0,18	0,37	0,68	1,22	1,88	3,1	4,8	7,8
		M2	18	39	73	135	210	355	560	910
25	56	kw1	0,18	0,3	0,54	0,98	1,47	2,43	4,1	6,5
		M2	21	38	70	130	200	340	590	930
30	47	kw1	0,15	0,31	0,57	1,1	1,48	2,6	3,9	6,35
		M2	20	45	84	160	230	410	630	1040
40	35	kw1	0,11	0,23	0,42	0,76	1,12	1,76	2,9	4,9
		M2	18	41	76	145	220	360	610	1050
50	28	kw1	0,09	0,18	0,34	0,6	0,89	1,38	2,4	3,8
		M2	17	39	73	135	210	340	600	980
60	23	kw1	0,08	0,15	0,28	0,51	0,75	1,13	1,9	3
		M2	16	36	68	130	200	320	560	900
80	18	kw1	0,05	0,12	0,22	0,39	0,58	0,83	1,3	2,3
		M2	13	33	65	122	190	285	490	840
100	14	kw1		0,09	0,16	0,34	0,48	0,67	1,1	1,7
		M2		29	55	118	180	270	460	740

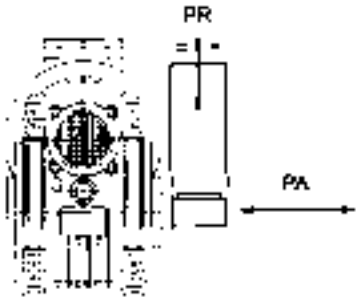
i	n2	n1 = 900								
			30	40	50	63	75	90	110	130
7,5	120	kw1	0,3	0,65	1,23	2,18	3,1	4,8	8	12,3
		M2	20	44	84	151	215	340	565	880
10	90	kw1	0,24	0,5	0,94	1,7	2,52	4	6,6	10,3
		M2	20	44	84	153	230	370	620	960
15	60	kw1	0,17	0,36	0,67	1,2	1,8	3,10	4,9	7,8
		M2	20	45	84	155	235	420	660	1060
20	45	kw1	0,13	0,28	0,48	0,91	1,4	2,3	3,6	5,8
		M2	20	44	77	148	235	390	630	1040
25	36	kw1	0,14	0,23	0,39	0,69	1,1	1,8	3,1	4,8
		M2	23	43	75	137	215	370	660	1050
30	30	kw1	0,11	0,23	0,42	0,79	1,1	1,9	3	4,7
		M2	21	49	90	175	260	460	730	1170
40	23	kw1	0,09	0,17	0,31	0,58	0,83	1,36	2,2	3,5
		M2	20	45	82	160	240	410	690	1100
50	18	kw1	0,07	0,14	0,25	0,45	0,65	1,1	1,8	2,8
		M2	18	42	77	145	220	390	680	1050
60	15	kw1	0,06	0,11	0,21	0,37	0,54	0,86	1,4	2,1
		M2	17	39	72	138	210	350	620	940
80	11	kw1	0,04	0,09	0,16	0,29	0,43	0,63	1	1,6
		M2	15	35	68	128	200	315	540	860
100	9	kw1		0,07	0,12	0,25	0,36	0,49	0,8	1,3
		M2		32	56	124	190	280	490	780

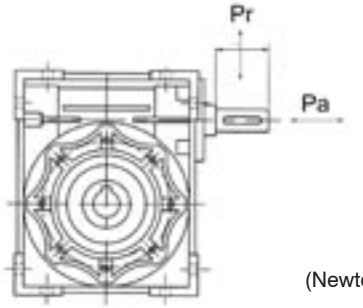
i	n2	n1 = 500								
			30	40	50	63	75	90	110	130
7,5	120	kw1	0,21	0,45	0,86	1,51	2,14	3,3	5,50	8,6
		M2	24	54	103	184	260	410	690	1080
10	90	kw1	0,16	0,4	0,67	1,18	1,7	2,7	4,6	7,1
		M2	24	54	103	185	270	435	740	1160
15	60	kw1	0,12	0,26	0,47	0,85	1,2	2,1	3,4	5,5
		M2	24	55	103	187	280	490	790	1300
20	45	kw1	0,09	0,19	0,33	0,63	0,98	1,6	2,5	4
		M2	23	52	93	178	285	470	750	1230
25	36	kw1	0,1	0,15	0,28	0,48	0,73	1,23	2,1	3,2
		M2	29	49	91	164	255	440	790	1200
30	30	kw1	0,08	0,16	0,29	0,54	0,77	1,4	2,1	3,4
		M2	26	58	108	200	300	550	870	1400
40	23	kw1	0,06	0,12	0,22	0,4	0,58	1	1,5	2,4
		M2	23	53	98	185	280	480	810	1300
50	18	kw1	0,05	0,1	0,17	0,32	0,44	0,75	1,3	1,9
		M2	21	49	91	173	250	450	800	1220
60	15	kw1	0,04	0,08	0,14	0,26	0,37	0,6	1	1,5
		M2	19	46	83	160	240	400	710	1070
80	11	kw1	0,03	0,06	0,11	0,19	0,29	0,5	0,7	1,1
		M2	17	40	75	137	215	365	60	970
100	9	kw1		0,05	0,09	0,16	0,24	0,35	0,6	0,9
		M2		36	65	128	210	330	570	860

A 2800 rpm la potencia indicada es mecánica. Para esta velocidad las relaciones entre 7,5 y 30 no deben utilizarse para trabajos continuos.

Power values for input speed at 2800 are mechanical valves, in the case of ratios from 7,5 to 30, they must not be adopted for continuous duty.

CARGAS SOBRE EL EJE / *SHAFT LOADS*





(Newtons)

TYPE	I	7.5:1	10:1	15:1	20:1	25:1	30:1	40:1	50:1	60:1	70:1	80:1	100:1
	n1 = 1400	186	140	94	70	56	47	35	28	23	20	18	14
BW 30Q	PR	590	680	150	860	940	1000	1000	1100	1200	1300	1400	----
	PA	190	200	215	237	250	250	270	287	287	350	350	----
	Pr	150	150	160	160	190	210	210	210	210	210	210	----
	Pa	20	20	20	20	20	20	20	20	20	20	20	----
BW 40Q	PR	1350	1450	1660	1850	1970	2100	2300	2500	2650	2650	2900	3190
	PA	337	362	415	462	492	525	575	625	662	662	725	797
	Pr	380	380	380	380	380	380	380	380	380	380	380	380
	Pa	95	95	95	95	95	95	95	95	95	95	95	95
BW 50Q	PR	1810	1930	2280	2505	2696	2865	3160	3400	3620	3620	4000	4290
	PA	452	482	570	626	674	716	790	850	905	905	1000	1072
	Pr	485	485	485	485	485	485	485	485	485	485	485	485
	Pa	121	121	121	121	121	121	121	121	121	121	121	121
BW 63Q	PR	2365	2600	2980	3285	3540	3760	4150	4460	4730	4730	5200	5600
	PA	591	650	745	821	885	940	1037	1115	1182	1182	1300	1400
	Pr	580	580	580	580	580	580	580	580	580	580	580	580
	Pa	145	145	145	145	145	145	145	145	145	145	145	145
BW 75Q	PR	2800	3100	3520	3900	4170	4450	4890	5260	5580	5580	6150	6630
	PA	700	775	880	975	1042	1112	1222	1315	1395	1395	1537	1657
	Pr	650	650	650	650	650	650	650	650	650	650	650	650
	Pa	163	163	163	163	163	163	163	163	163	163	163	163
BW 90Q	PR	3085	3400	3850	4300	4650	4900	5450	5850	6200	6200	6820	7340
	PA	771	850	962	1075	1162	1225	1362	1462	1550	1550	1705	1835
	Pr	850	850	850	850	850	850	850	850	850	850	850	850
	Pa	213	213	213	213	213	213	213	213	213	213	213	213
BW 110Q	PR	3900	4310	4950	5450	5880	6210	6830	7350	7795	7795	8600	9300
	PA	975	1077	1237	1362	1470	1552	1707	1837	1948	1948	2150	2325
	Pr	950	950	950	950	950	950	950	950	950	950	950	950
	Pa	238	238	238	238	238	238	238	238	238	238	238	238
BW 130Q	PR	5000	5600	6400	7000	7500	8000	8700	9500	10000	10500	11000	12000
	PA	1225	1263	1400	1483	1713	1975	2200	2525	2525	2525	2900	2900
	Pr	1500	1800	2000	2100	2100	2100	2100	2100	2100	2100	2100	2100
	Pa	300	300	300	300	300	300	300	300	300	300	300	300

CARGAS RADIALES Y AXIALES.
Las cifras indicadas en la tabla, corresponden a las cargas radiales y axiales a potencia máxima.
Para cargas radiales y axiales combinadas rogamos consulte con nuestro departamento técnico.
A bajas potencias, las cargas se pueden incrementar. Para poder obtener cifras exactas a una velocidad y potencia determinadas, rogamos consulten con nuestro departamento técnico.

CARCASA BWQ30 - BWQ90
Las carcasas y bridas se fabrican con aluminio de alta resistencia UNI 5076.

CARCASA BWQ110 y BWQ130
Las carcasas y bridas estan fabricadas en fundición de hierro G25.

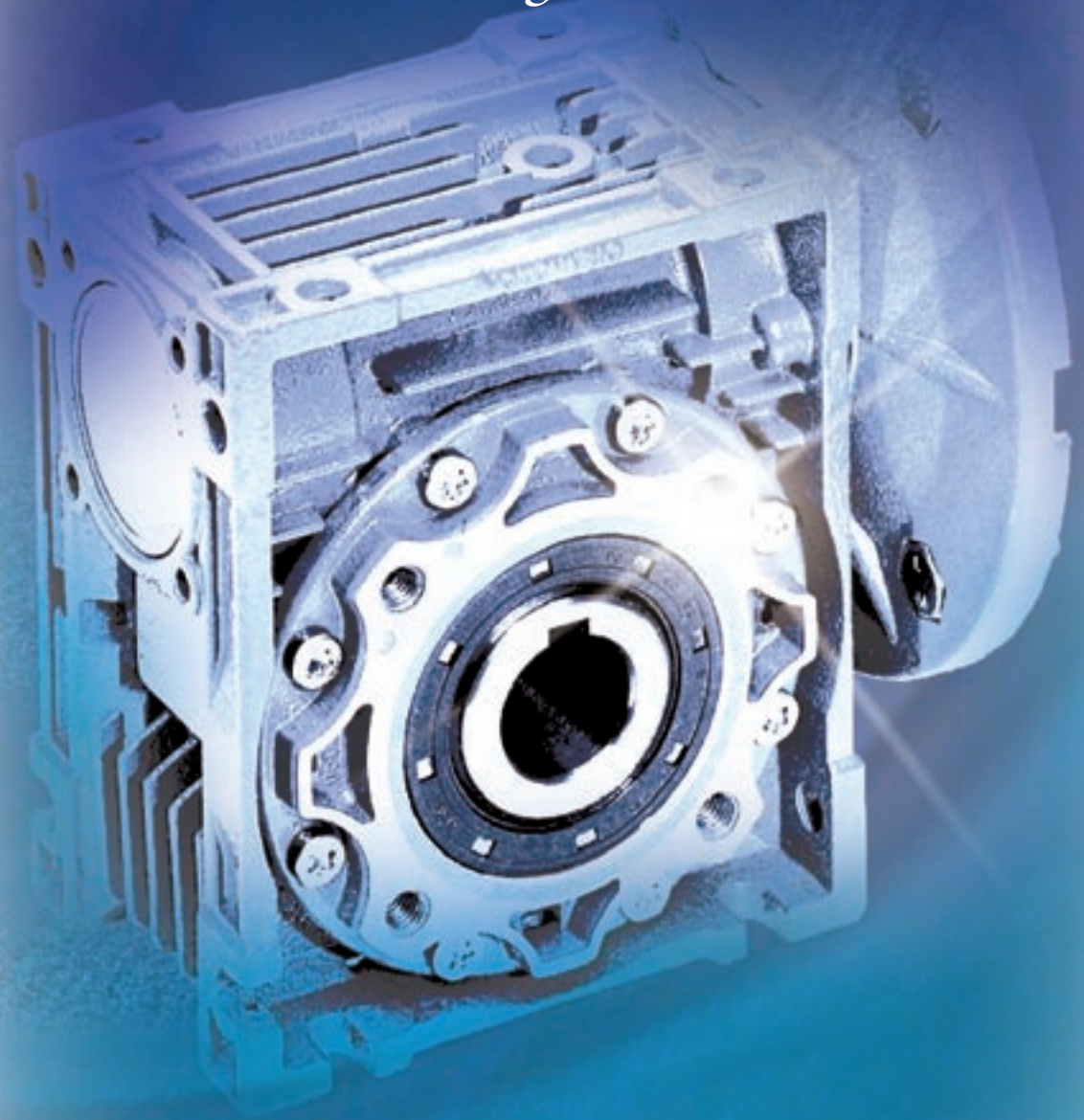
RADIAL & AXIAL SHAFT LOADS.
The figures in the table indicate the permissible radial and axial loads at maximun power.
For combined radial and axial loads, please contact our technical department.
At lower powers the loads may be increased - for precise loading figures for each actual power and speed, please contact our technical department.

GEARCASE BWQ30 - BWQ90
The casing and flanges are made in high strength UNI 5076 aluminium.

GEARCASE BWQ110 - BWQ130
The casing and flanges are made in G25 cast iron.

Reductor y motorreductor tipo sinfín/corona

Worm gearbox and geared motor



BWQ

SELECCIÓN / *SELECTION*

Type	n2	Ratio :1	Max kW	M2 nM	Max M2 nM	Eff %	Motor Frame Size (kW)												
							56	56	63	63	71	71	80	80	90	90	100	100	112
	186	7.5:1	0.44	20	42	91	0.06	0.09	0.12	0.18									
	140	10:1	0.33	20	42	89	0.06	0.09	0.12	0.18									
	93	15:1	0.24	21	44	86	0.06	0.09	0.12	0.18									
	70	20:1	0.19	21	44	83	0.06	0.09	0.12	0.18									
BW	56	25:1	0.15	21	44	83	0.06	0.09	0.12	0.18									
30	47	30:1	0.11	17	32	76	0.06	0.09	0.12										
Q	35	40:1	0.08	16	30	71	0.06	0.09											
	28	50:1	0.06	14	24	66	0.06												
	23	60:1	0.06	16	27	62	0.06												
	20	70:1	N/A																
	18	80:1	0.04	13	21	55	0.06												
	14	100:1	N/A																
	186	7.5:1	1.20	55	135	92			0.12	0.18	0.25	0.37							
	140	10:1	0.88	56	136	89			0.12	0.18	0.25	0.37							
	93	15:1	0.65	59	144	85			0.12	0.18	0.25	0.37							
	70	20:1	0.49	59	143	84			0.12	0.18	0.25	0.37							
BW	56	25:1	0.44	61	149	78			0.12	0.18	0.25	0.37							
40	47	30:1	0.38	61	149	75			0.12	0.18	0.25	0.37							
Q	35	40:1	0.26	55	134	74		0.09	0.12	0.18	0.25								
	28	50:1	0.20	52	127	73		0.09	0.12	0.18									
	23	60:1	0.16	45	101	66		0.09	0.12	0.18									
	20	70:1	N/A																
	18	80:1	0.12	39	88	57	0.06	0.09	0.12										
	14	100:1	0.10	38	85	53	0.06	0.09	0.12										
	186	7.5:1	1.75	80	196	92					0.25	0.37	0.55	0.75					
	140	10:1	1.25	80	196	90					0.25	0.37	0.55	0.75					
	93	15:1	0.90	84	207	88					0.25	0.37	0.55	0.75					
	70	20:1	0.80	98	240	86					0.25	0.37	0.55	0.75					
BW	56	25:1	0.75	105	258	79					0.25	0.37	0.55	0.75					
50	47	30:1	0.62	101	246	76					0.25	0.37	0.55	0.75					
Q	35	40:1	0.44	94	230	75			0.12	0.18	0.25	0.37							
	28	50:1	0.35	87	213	70			0.12	0.18	0.25	0.37							
	23	60:1	0.28	80	180	67			0.12	0.18	0.25								
	20	70:1	N/A																
	18	80:1	0.19	64	143	59			0.12	0.18									
	14	100:1	0.15	59	132	55			0.12	0.18									
	186	7.5:1	3.80	178	435	94							0.55	0.75	1.1	1.5			
	140	10:1	2.90	190	465	92							0.55	0.75	1.1	1.5			
	93	15:1	2.00	192	470	90							0.55	0.75	1.1	1.5			
	70	20:1	1.60	198	485	87							0.55	0.75	1.1	1.5			
BW	56	25:1	1.40	202	494	81							0.55	0.75	1.1	1.5			
63	47	30:1	1.15	191	469	78							0.55	0.75	1.1				
Q	35	40:1	0.85	184	450	76					0.25	0.37	0.55	0.75					
	28	50:1	0.65	164	402	71					0.25	0.37	0.55	0.75					
	23	60:1	0.50	145	326	68					0.25	0.37	0.55						
	20	70:1	N/A																
	18	80:1	0.38	134	301	62					0.25	0.37							
	14	100:1	0.29	118	264	57					0.25								
	186	7.5:1	5.20	243	596	94									1.1	1.5	2.2	3.0	4.0
	140	10:1	3.70	242	593	92									1.1	1.5	2.2	3.0	4.0
	93	15:1	2.50	240	588	90									1.1	1.5	2.2	3.0	
	70	20:1	2.10	260	636	87							0.55	0.75	1.1	1.5			
BW	56	25:1	1.80	259	635	81							0.55	0.75	1.1	1.5			
75	47	30:1	1.50	250	611	78							0.55	0.75	1.1	1.5			
Q	35	40:1	1.20	259	635	76							0.55	0.75	1.1	1.5			
	28	50:1	0.90	227	556	71							0.55	0.75					
	23	60:1	0.80	232	522	68							0.55	0.75					
	20	70:1	N/A																
	18	80:1	0.60	212	476	62							0.55						
	14	100:1	0.50	203	456	57							0.55						

SELECCIÓN / *SELECTION*

Type	n2	Ratio :1	Max kW	M2 nM	Max M2 nM	Eff %	Motor Frame Size (kW)											
							80	80	90	90	100	100	112	132	132	160	160	160
	186	7.5:1	9.00	416	1020	93			1.1	1.5	2.2	3.0	4.0					
	140	10:1	6.20	397	972	90			1.1	1.5	2.2	3.0	4.0					
	93	15:1	4.40	418	1023	89			1.1	1.5	2.2	3.0	4.0					
	70	20:1	3.50	438	1073	88			1.1	1.5	2.2	3.0	4.0					
BW	56	25:1	3.10	479	1174	87			1.1	1.5	2.2	3.0						
90	47	30:1	2.50	421	1032	79			1.1	1.5	2.2	3.0						
Q	35	40:1	2.00	444	1087	78	0.55	0.75	1.1	1.5								
	28	50:1	1.60	438	1073	77	0.55	0.75	1.1	1.5								
	23	60:1	1.20	389	875	76	0.55	0.75	1.1									
	20	70:1	N/A															
	18	80:1	0.85	295	663	61	0.55	0.75										
	14	100:1	0.70	299	672	60	0.55											
	186	7.5:1	13.4	627	1535	94					2.2	3.0	4.0	5.5	7.5			
	140	10:1	9.50	628	1538	93					2.2	3.0	4.0	5.5	7.5			
	93	15:1	6.80	660	1616	91					2.2	3.0	4.0	5.5	7.5			
	70	20:1	5.40	676	1655	88					2.2	3.0	4.0	5.5				
BW	56	25:1	4.80	699	1713	82			1.1	1.5	2.2	3.0	4.0					
110	47	30:1	3.65	623	1525	80			1.1	1.5	2.2	3.0	4.0					
Q	35	40:1	2.80	629	1540	79			1.1	1.5	2.2	3.0						
	28	50:1	2.40	665	1630	78			1.1	1.5	2.2	3.0						
	23	60:1	2.05	664	1495	76			1.1	1.5	2.2							
	20	70:1	N/A															
	18	80:1	1.50	563	1267	66			1.1	1.5								
	14	100:1	1.20	520	1171	61			1.1									
	186	7.5:1	15.0	673	1640	94								5.5	7.5			
	140	10:1	12.5	792	1939	93								5.5	7.5			
	93	15:1	9.5	887	2170	91								5.5	7.5			
	70	20:1	7.2	874	2140	89								5.5	7.5			
BW	56	25:1	6.1	863	2110	83					2.2	3.0	4.0	5.5	7.5			
130	47	30:1	5.9	959	2330	80					2.2	3.0	4.0	5.5				
Q	35	40:1	4.5	970	2330	79					2.2	3.0	4.0	5.5				
	28	50:1	3.5	931	2280	78					2.2	3.0	4.0					
	23	60:1	2.9	915	2060	76					2.2	3.0						
	20	70:1	N/A															
	18	80:1	2.1	724	1630	65				1.5	2.2							
	14	100:1	1.6	654	1470	60				1.5								

Selección de servicio standard
Factor Mínimo 1.0

Standard Selection Service
Minimum Factor 1.0

BWQ PESO SIN MOTOR
BWQ WEIGHTS WITHOUT MOTOR

Tipo / *Type*	(Kgs)
BW30Q	1.2
BW40Q	2.3
BW50Q	3.5
BW63Q	6.2
BW75Q	9.0
BW90Q	13
BW110Q	35
BW130Q	48

Cantidad de aceite en litros.
Quantity of oil in litres.

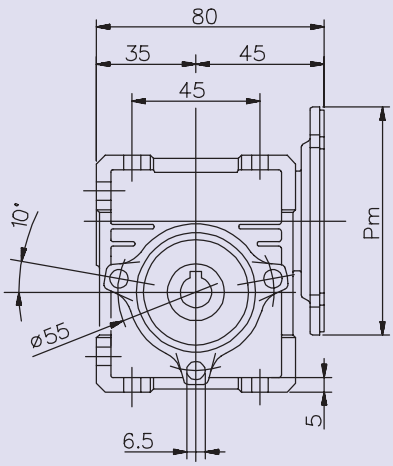
LUBRICACIÓN / *LUBRICATION*

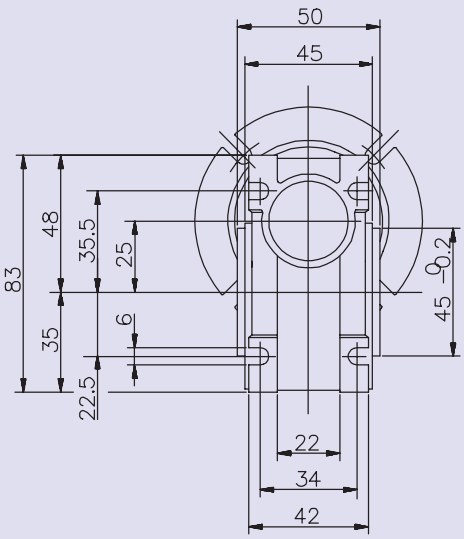
Los reductores de los tamaños BW30, 40, 50, 63, 75 y 90Q son entregados con lubricante a vida, es decir aceite sintético AGIP TELIUM BSF y por lo tanto pueden ser montados en todas las posiciones de montaje previstas en el catálogo, a excepción de los tamaños BW75Q y BW90Q en la pos. V5 / V6 para lo cual es necesario ponerse en contacto con nuestro Servicio Técnico para evaluar las condiciones de empleo. Los reductores de los tamaños BW110-130Q son entregados con lubricante, es decir aceite mineral AGIP BLASIA 460.

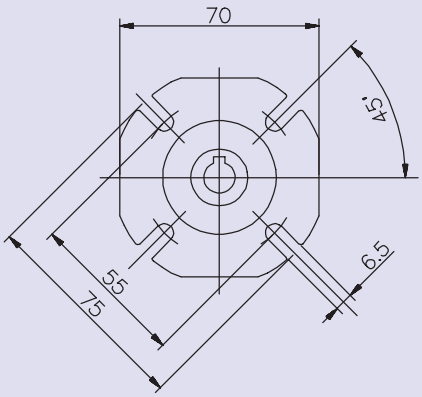
The reduction units size BW30, 40, 50, 63, 75 & 90Q are supplied complete with synthetic oil and lubricated for life. They can, therefore, be mounted in any position. The only exceptions are size BW75Q and BW90Q in pos V5 / V6 for which you should call our Technical Department to assess the conditions of use. The reduction units size BW110-130Q are supplied complete with mineral oil lubricant.

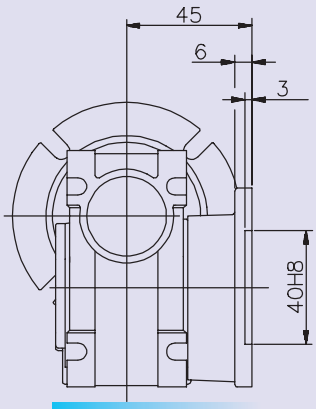
BW...Q	30	40	50	63	75	90	110	130
B3	0.04	0.08	0.15	0.03	0.55	1	3	4.5
B8							2.2	3.3
B6 - B7							2.5	3.5
V5 / V6							3	4.5

DIMENSIONES BWQ25 / *BWQ25 DIMENSIONS*



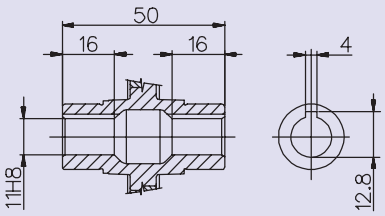






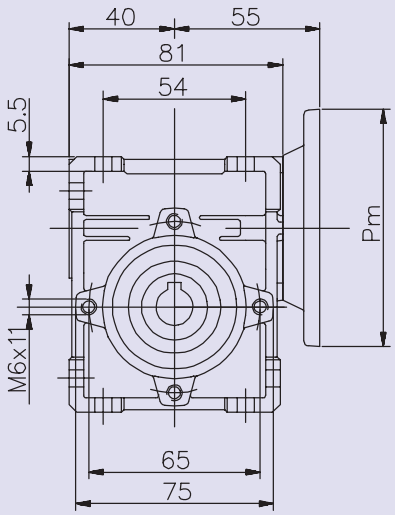
Brida de salida F

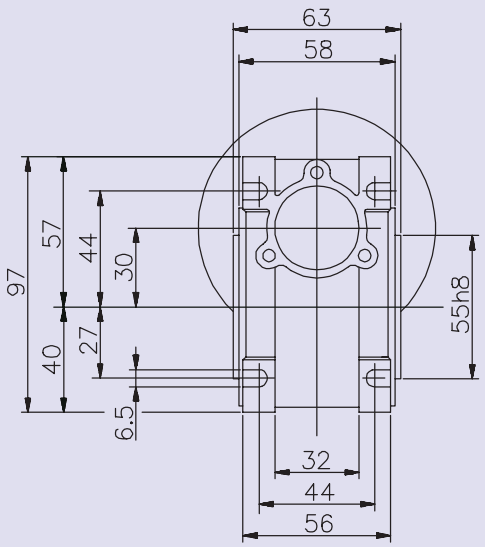
Output flange F

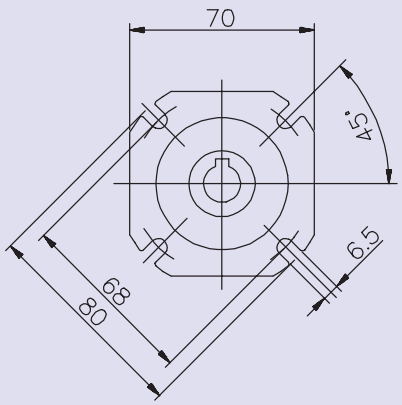


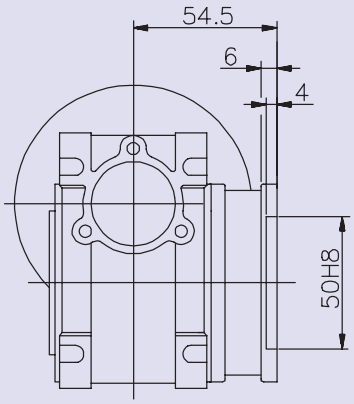
· Peso sin motor	0,7 kg
· Cantidad de aceite	0,02 L.
· *Weight without motor*	*0.7 kg*
· *Quantity of oil*	*0.02 L.*

DIMENSIONES BWQ30 / *BWQ30 DIMENSIONS*



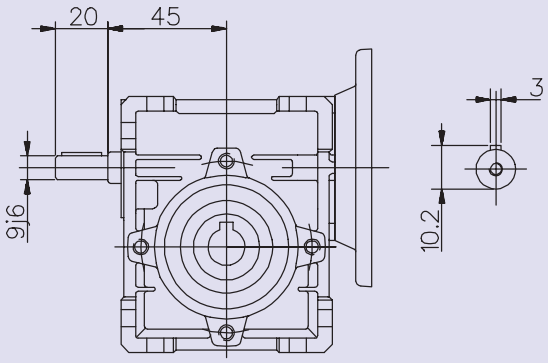




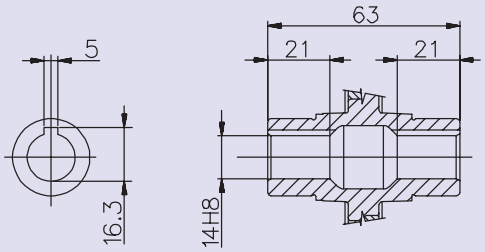


Brida de salida F

Output flange F

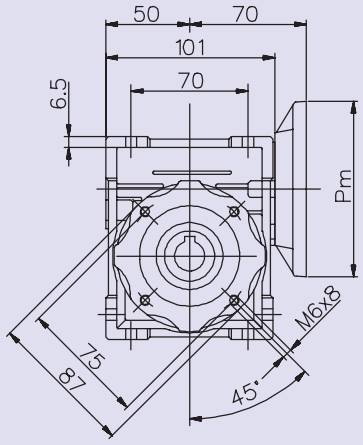


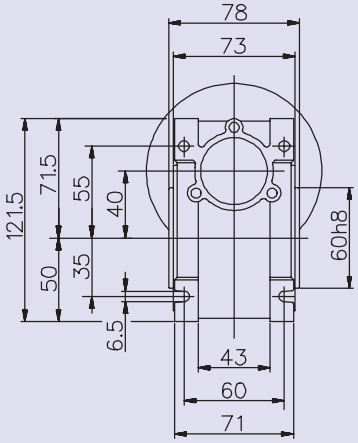
BWQ30W

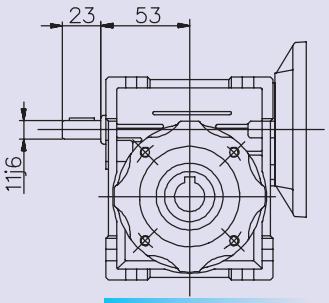


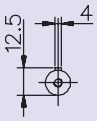
· Peso sin motor	0,7 kg
· Cantidad de aceite	0,04 L.
· *Weight without motor*	*0.7 kg*
· *Quantity of oil*	*0.04 L.*

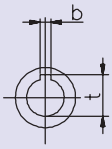
DIMENSIONES BWQ40 / *BWQ40 DIMENSIONS*

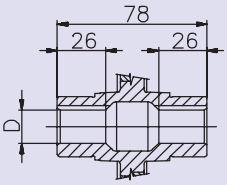




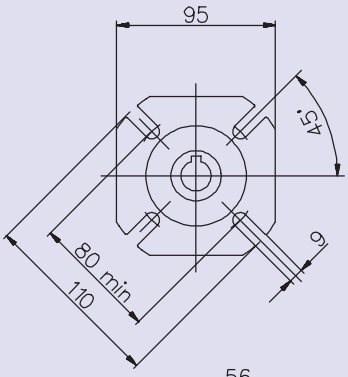


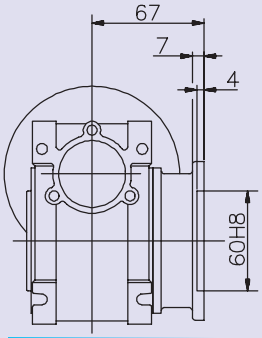




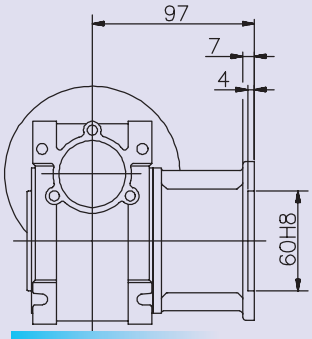


BWQ40W

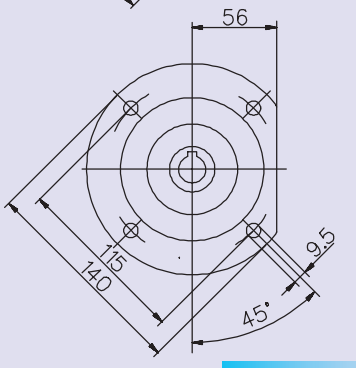


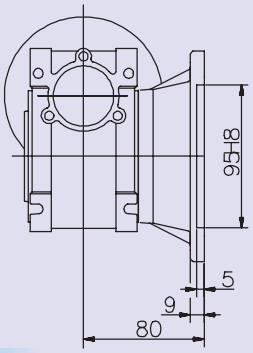


Brida de salida F
Output flange F

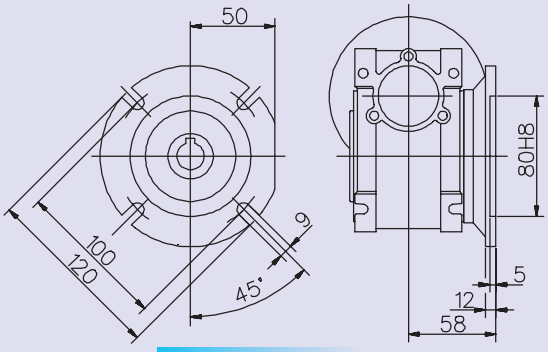


Brida de salida FL
Output flange FL





Brida de salida FC
Output flange FC

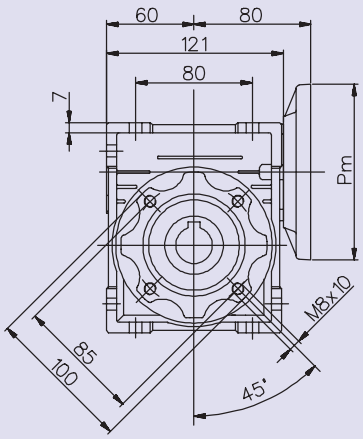


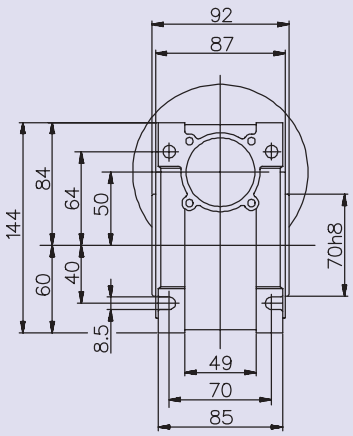
Brida de salida FD
Output flange FD

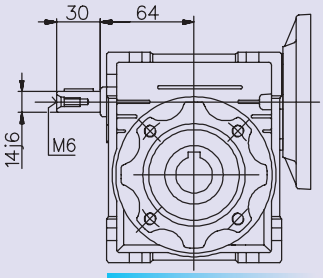
· Peso sin motor	2,3 kg
· Cantidad de aceite	0,08 L.
· *Weight without motor*	*2.3 kg*
· *Quantity of oil*	*0.08 L.*

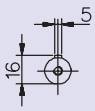
Salida / *Output*		
DH8	b	t
18	6	20,8

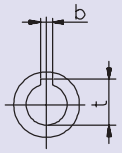
DIMENSIONES BWQ50 / *BWQ50 DIMENSIONS*

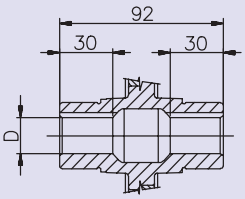




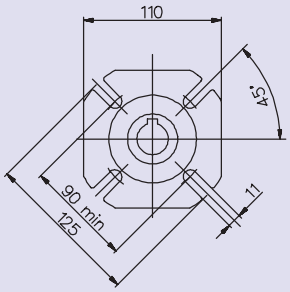


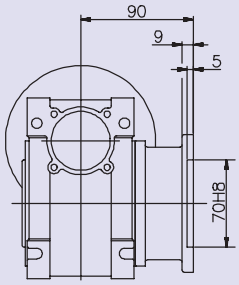




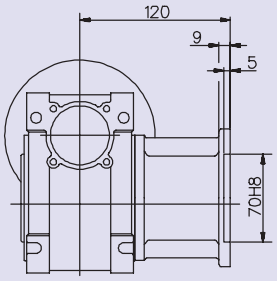


BWQ50W

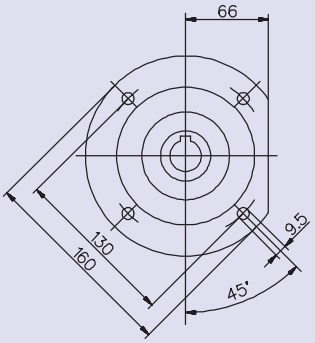


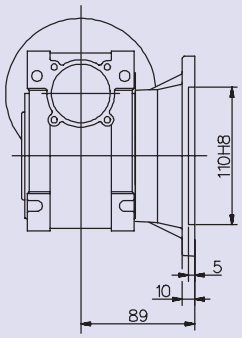


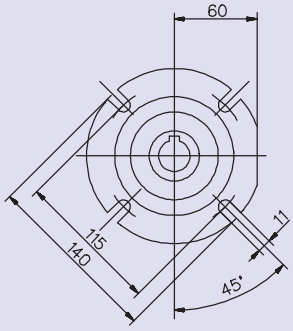
Brida de salida F
Output flange F

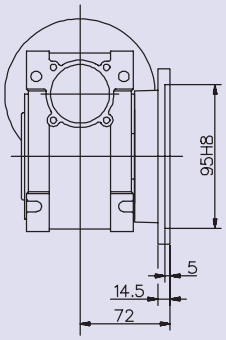


Brida de salida FL
Output flange FL









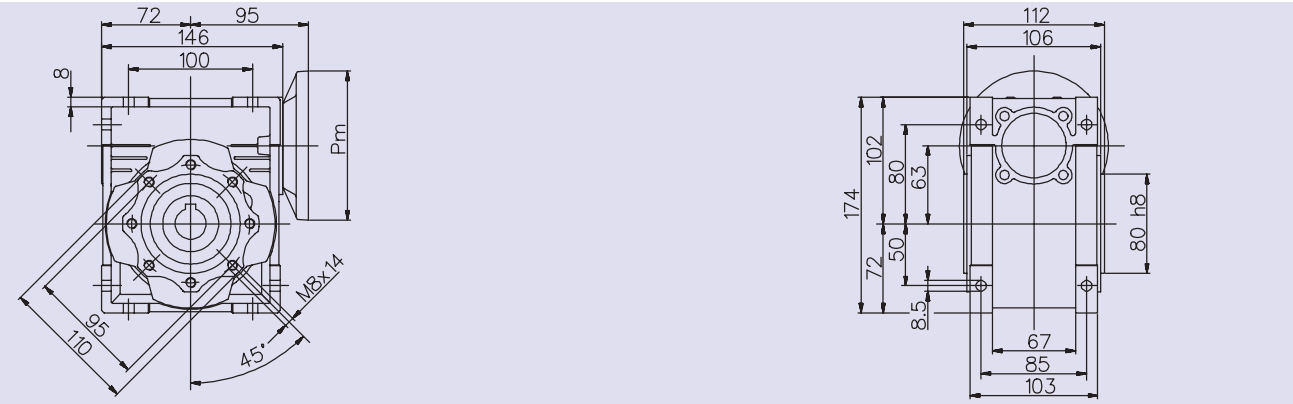
Brida de salida FC
Output flange FC

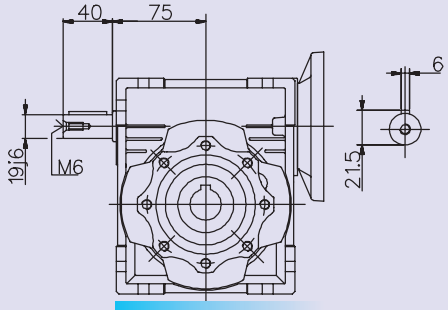
Brida de salida FD
Output flange FD

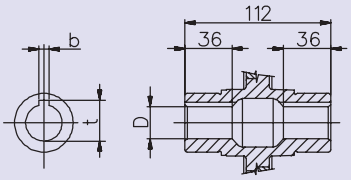
· Peso sin motor	3,5 kg
· Cantidad de aceite	0,15 L.
· *Weight without motor*	*3.5 kg*
· *Quantity of oil*	*0.15 L.*

Salida / *Output*		
DH8	b	t
25	8	28,3

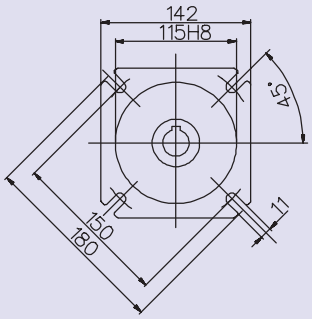
DIMENSIONES BWQ63 / *BWQ63 DIMENSIONS*

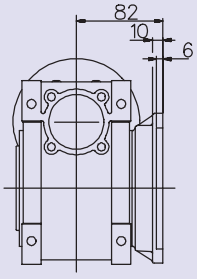






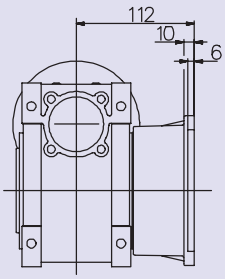
BWQ63W





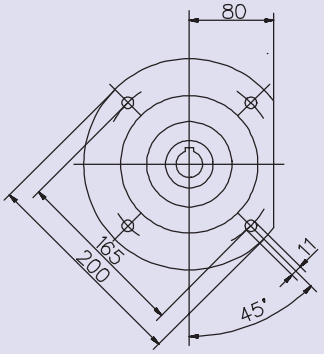
Brida de salida F

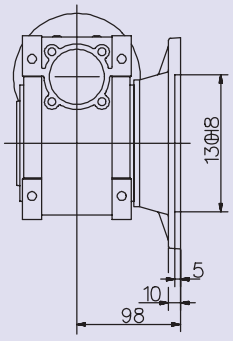
Output flange F

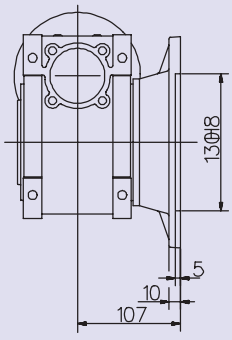


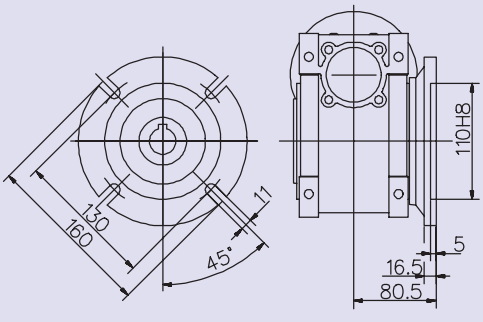
Brida de salida FL

Output flange FL









Brida de salida FC

Output flange FC

Brida de salida FD

Output flange FD

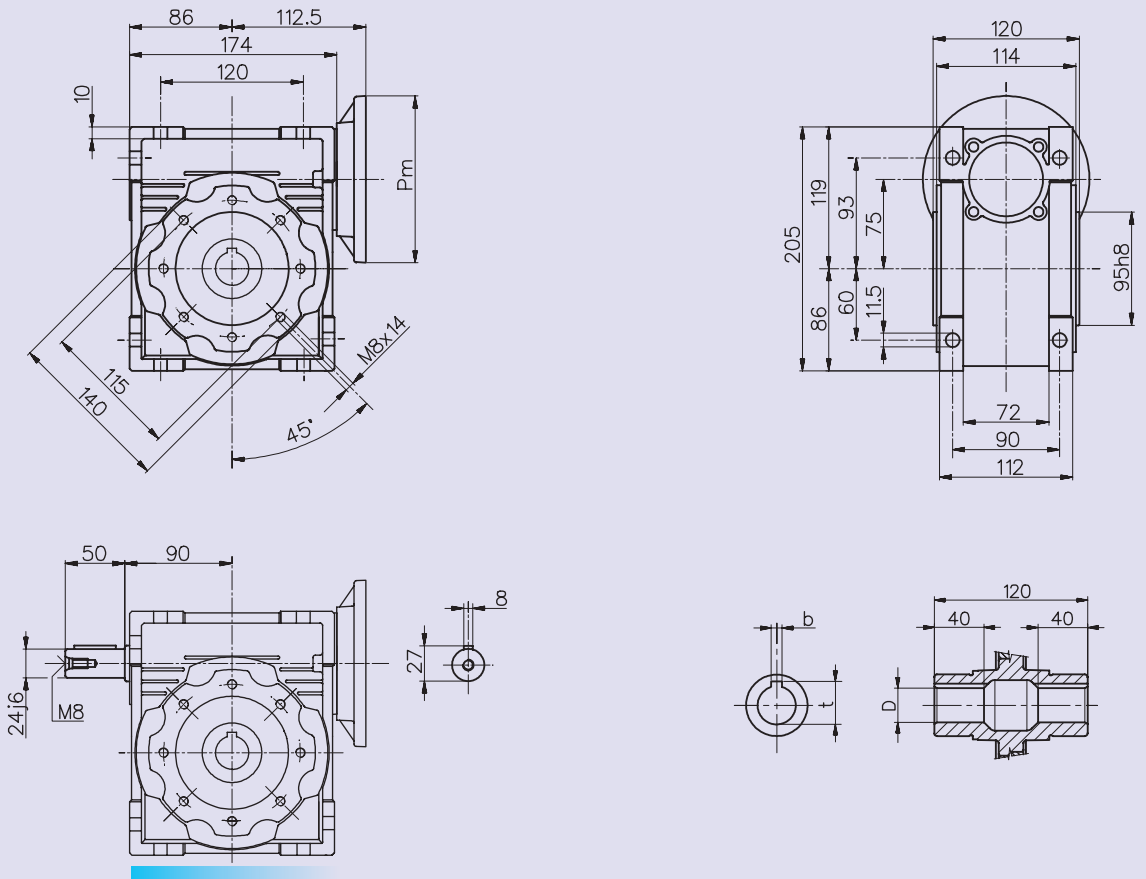
Brida de salida FE

Output flange FE

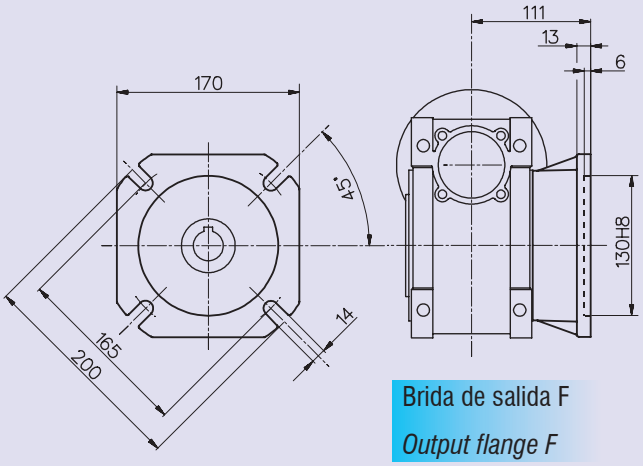
· Peso sin motor	6,2 kg
· Cantidad de aceite	0,3 L.
· *Weight without motor*	*6.2 kg*
· *Quantity of oil*	*0.3 L.*

Salida / *Output*		
DH8	b	t
25	8	28,3

DIMENSIONES BWQ75 / *BWQ75 DIMENSIONS*

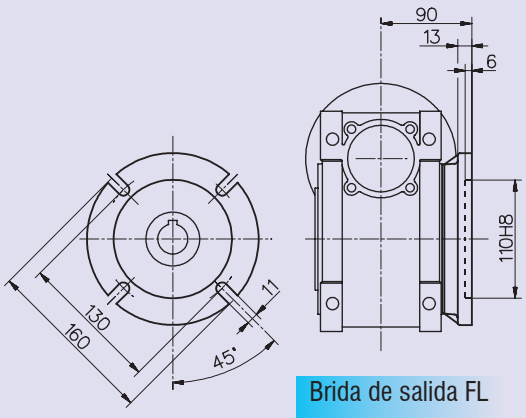


BWQ75W



Brida de salida F

Output flange F



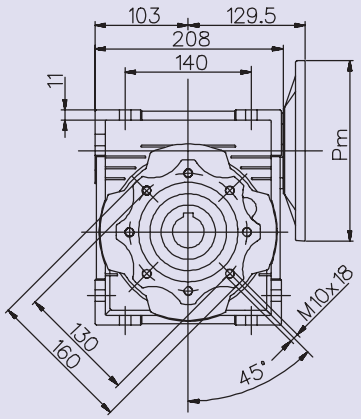
Brida de salida FL

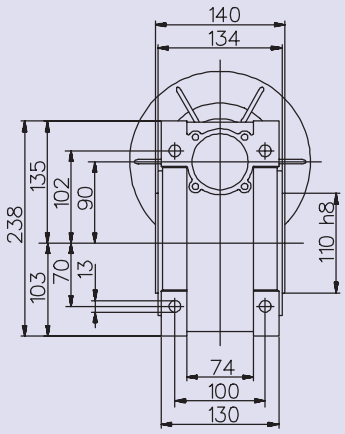
Output flange FL

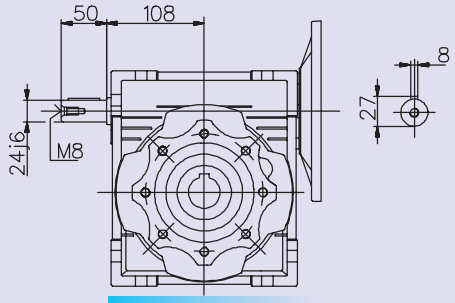
· Peso sin motor	9 kg
· Cantidad de aceite	0,55 L.
· *Weight without motor*	*9 kg*
· *Quantity of oil*	*0.55 L.*

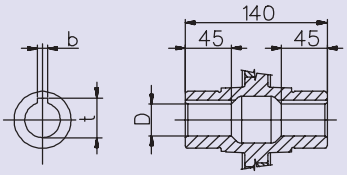
Salida / *Output*		
DH8	b	t
28	8	31,3

DIMENSIONES BWQ90 / *BWQ90 DIMENSIONS*

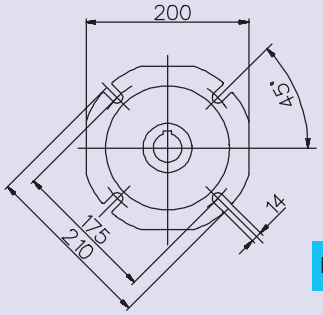


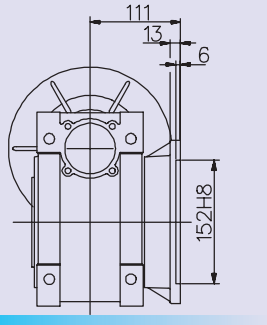




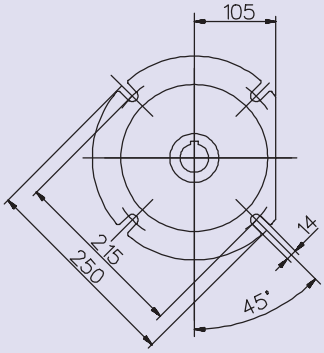


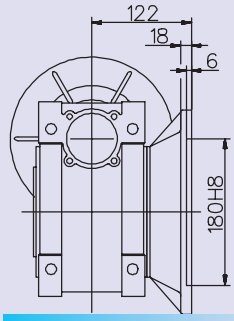
BWQ90W



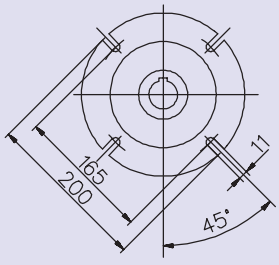


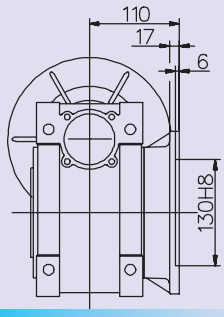
Brida de salida F / *Output flange F*



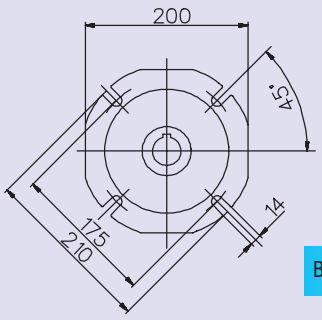


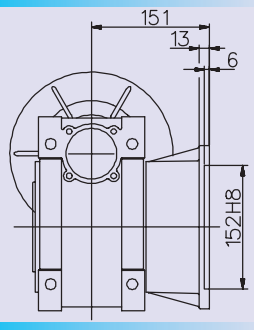
Brida de salida FL / *Output flange FL*





Brida de salida FC / *Output flange FC*



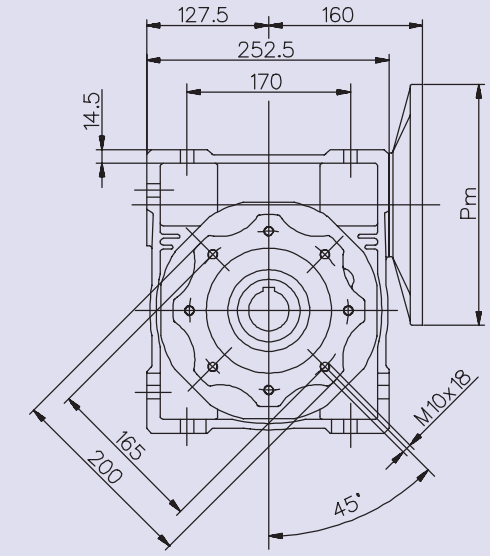


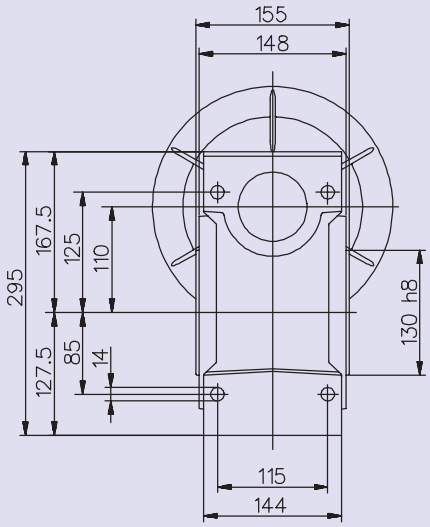
Brida de salida FD / *Output flange FD*

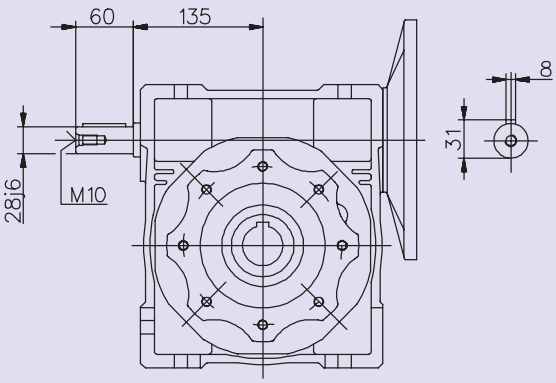
· Peso sin motor	13 kg
· Cantidad de aceite	1 L.
· *Weight without motor*	*13 kg*
· *Quantity of oil*	*1 L.*

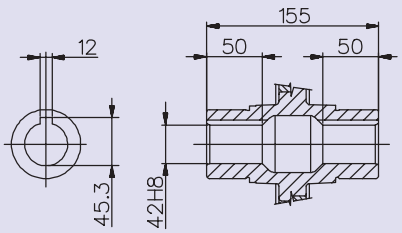
Salida / *Output*		
DH8	b	t
35	10	38,3

DIMENSIONES BWQ110 / *BWQ110 DIMENSIONS*

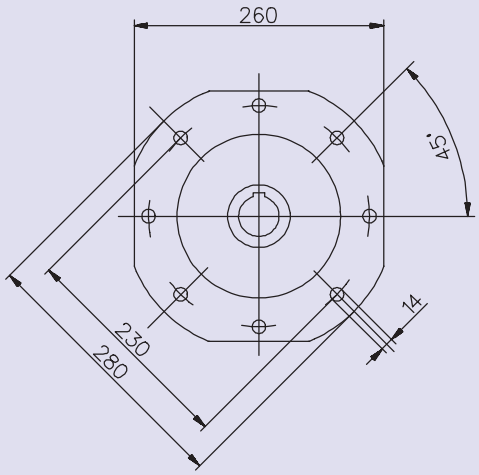


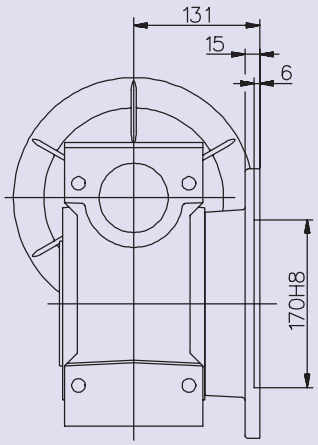






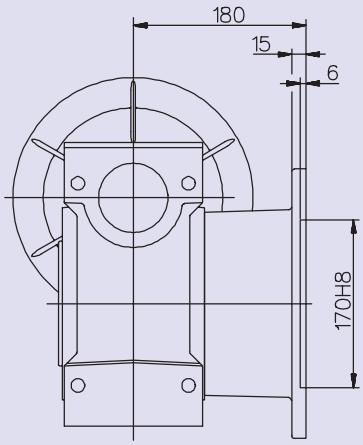
BWQ110W





Brida de salida F

Output flange F

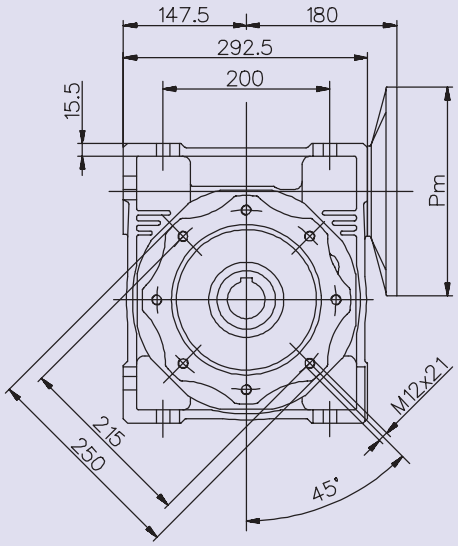


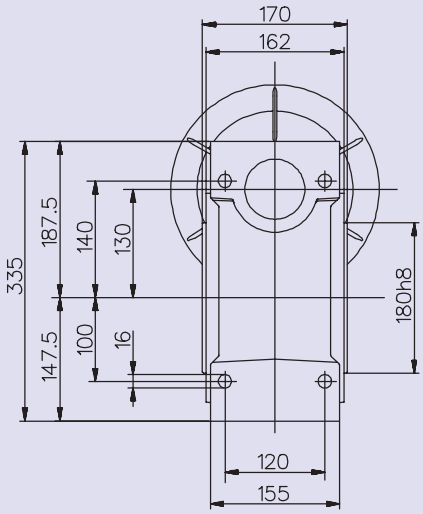
Brida de salida FL

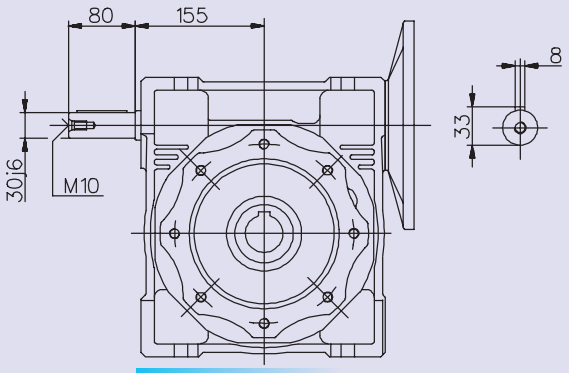
Output flange FL

· Peso sin motor		35 kg	· *Weight without motor*		*35 kg*
· Cantidad de aceite	B3=	3 L.	· *Quantity of oil*	*B3=*	*3 L.*
	B8=	2,2 L.		*B8=*	*2.2 L.*
	B6-B7=	2,5 L.		*B6-B7=*	*2.5 L.*
	V5-V6=	3 L.		*V5-V6=*	*3 L.*

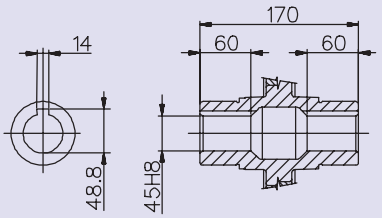
DIMENSIONES BWQ130 / *BWQ130 DIMENSIONS*

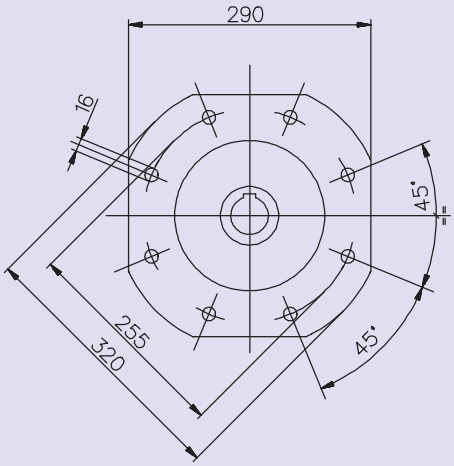


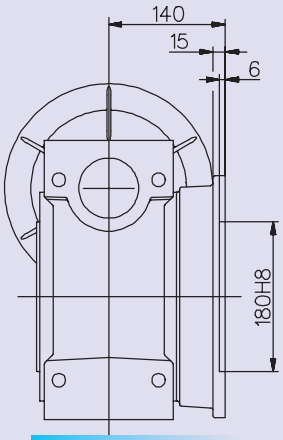




BWQ130W





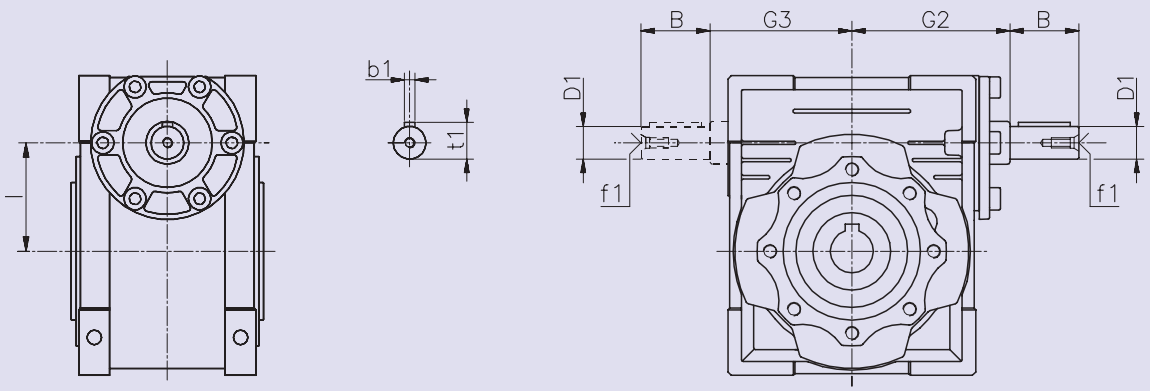


Brida de salida F

Output flange F

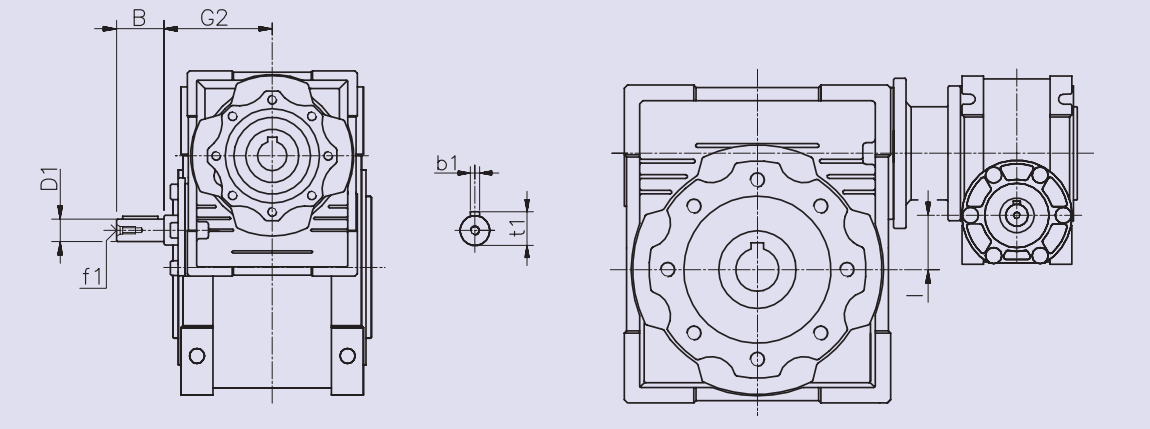
· Peso sin motor		48 kg	· *Weight without motor*		*48 kg*
· Cantidad de aceite	B3=	4,5 L.	· *Quantity of oil*	*B3=*	*4.5 L.*
	B8=	3,3 L.		*B8=*	*3.3 L.*
	B6-B7=	3,5 L.		*B6-B7=*	*3.5 L.*
	V5-V6=	4,5 L.		*V5-V6=*	*4.5 L.*

DIMENSIONES EJE LIBRE DE ENTRADA / *FREE INPUT SHAFT DIMENSIONS*



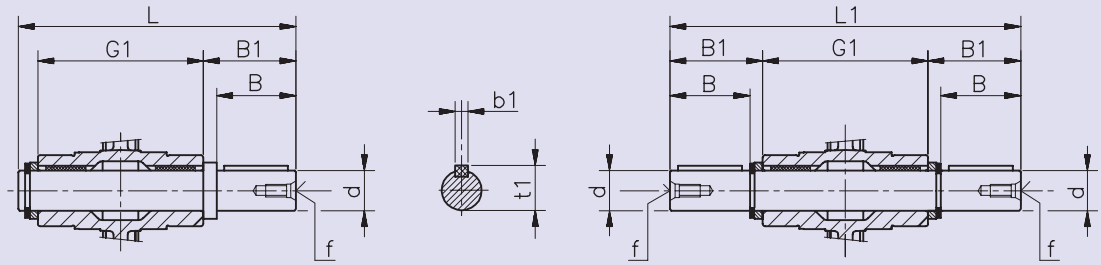
BWQ	30	40	50	63	75	90	110	130
B	20	23	30	40	50	50	60	80
D1	9 j6	11 j6	14 j6	19 j6	24 j6	24 j6	28 j6	30 j6
G2	51	60	74	90	105	125	142	162
G3	45	53	64	75	90	108	135	155
l	30	40	50	63	75	90	110	130
b1	3	4	5	6	8	8	8	8
f1	-	-	M6	M6	M8	M8	M10	M10
t1	10,2	12,5	16	21,5	27	27	3	

DIMENSIONES EJE LIBRE DE ENTRADA EN REDUCTOR COMBINADO BWQ + BWQ
FREE INPUT SHAFT DIMENSIONS IN COMBINATION GEARBOX BWQ + BWQ



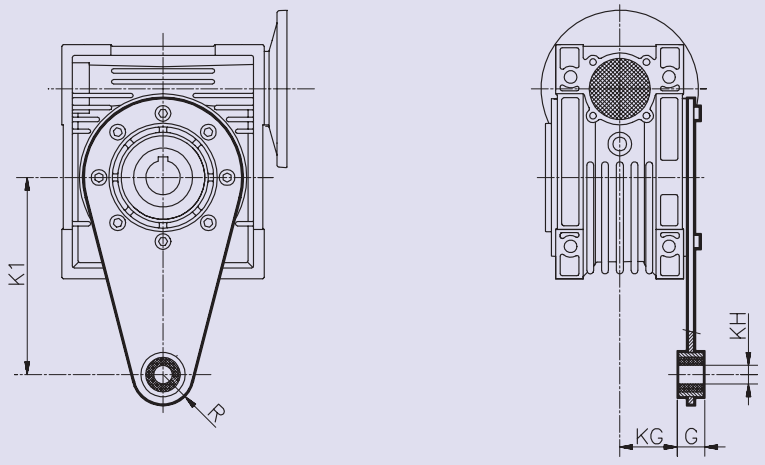
BWQ	30-40	30-50	30-63	40-75	40-90	50-110	63-130
B	20	20	20	23	23	30	40
D1	9 j6	9 j6	9 j6	11 j6	11 j6	14 j6	19 j6
G2	51	51	51	60	60	74	90
l	10	20	33	35	50	60	67
b1	3	3	3	4	4	5	6
f1	-	-	-	-	-	M6	M6
t1	10,2	10,2	10,2	12,5	12,5	16	21,5

EJES DE SALIDA SIMPLES Y DOBLES / *SINGLE AND DOUBLE OUTPUT SHAFT*



	d	B	B1	G1	L	L1	f	b1	t1
025	11g6	23	25,5	50	81	101	-	4	12,5
030	14 h6	30	32	63	102	128	M6	-	16
040	18 h6	40	43	78	128	164	M6	6	20,5
050	25 h6	50	53,5	92	153	199	M10	8	28
063	25 h6	50	53,5	112	173	219	M10	8	28
075	28 h6	60	63,5	120	192	247	M10	8	31
090	35 h6	80	84,5	140	234	309	M12	10	38
110	42 h6	80	84,5	155	249	324	M16	12	45
130	45 h6	80	85	170	265	340	M16	14	48,5

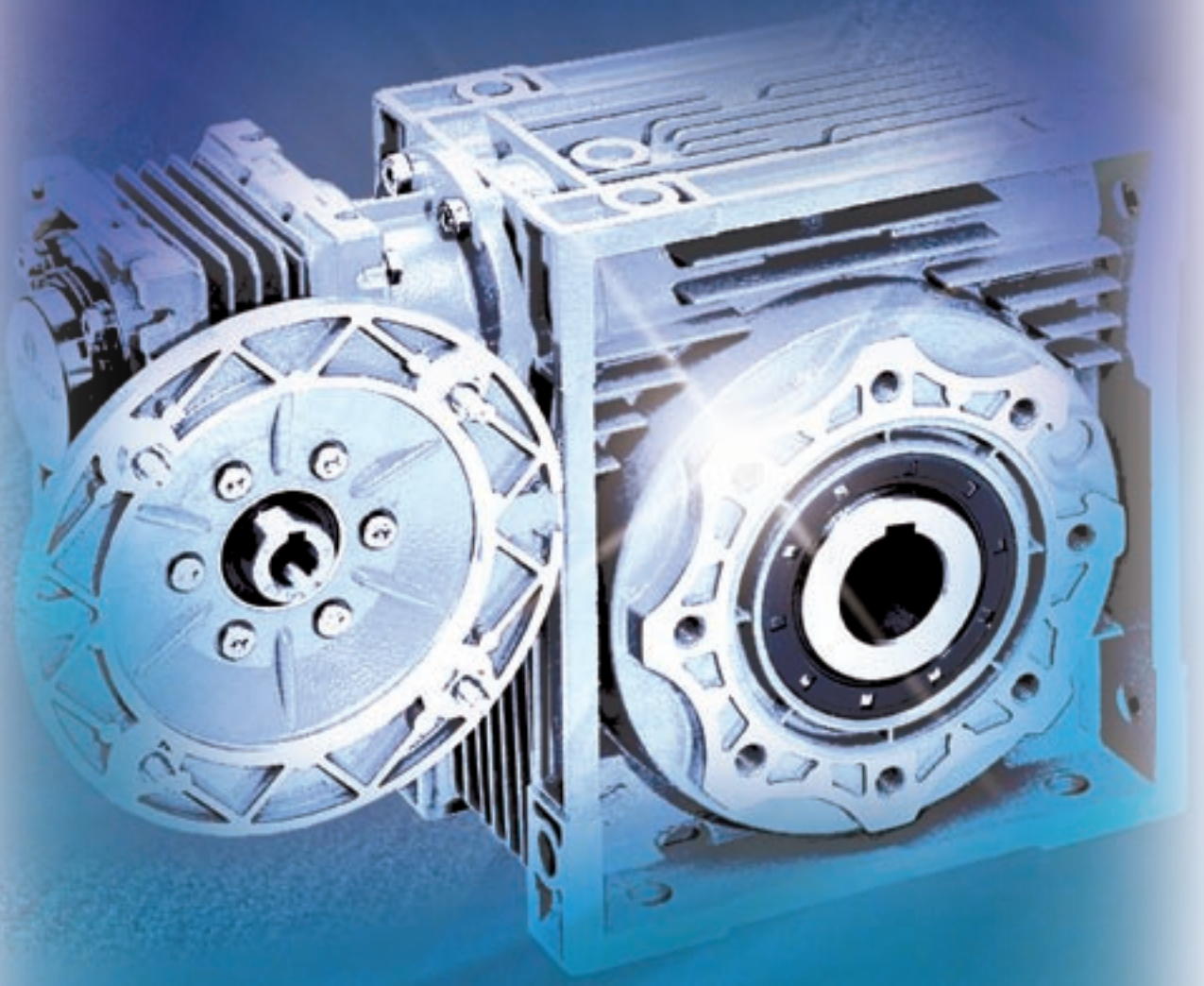
BRAZO DE REACCIÓN / *TORQUE ARM*



	K1	G	KG	KH	R
025	70	14	17,5	8	15
030	85	14	24	8	15
040	100	14	31,5	10	18
050	100	14	38,5	10	18
063	150	14	49	10	18
075	200	25	47,5	20	30
090	200	25	57,5	20	30
110	250	30	62	25	35
130	250	30	69	25	35

Reductor y motorreductor
tipo sinfín/corona combinado

Combination worm
gear units



BWQ + BWQ

SELECCIÓN COMBINADO / *PARAMETER TABLE* n1=1400 rpm

TIPO	i	n2	kw1	M2 Nm	i1	i2
BWQ 30/40	300	4,7	0,08	73	10	30
	400	3,5	0,06	65	10	40
	500	2,8	0,04	61	20	25
	600	2,3	0,04	73	20	30
	750	1,9	0,04	73	25	30
	900	1,6	0,03	73	30	30
	1200	1,2	0,02	65	30	40
	1500	0,9	0,02	73	50	30
	1800	0,8	0,02	73	60	30
	2400	0,58	0,01	65	60	40
	3200	0,5	0,01	65	80	40
	4000	0,35	0,01	33	50	80
	5000	0,28	0,01	29	50	100

TIPO	i	n2	kw1	M2 Nm	i1	i2
BWQ 40/90	300	4,7	0,56	610	7,5	40
	400	3,5	0,43	610	10	40
	500	2,8	0,34	560	10	50
	600	2,3	0,3	610	15	40
	750	1,9	0,23	560	15	50
	900	1,6	0,19	505	15	60
	1200	1,2	0,17	610	30	40
	1500	0,90	0,14	560	30	50
	1800	0,78	0,11	505	30	60
	2400	0,58	0,11	610	60	40
	3000	0,5	0,08	560	60	50
	4000	0,35	0,08	460	50	80
	5000	0,28	0,06	410	50	100

TIPO	i	n2	kw1	M2 Nm	i1	i2
BWQ 30/50	300	4,7	0,15	145	10	30
	400	3,5	0,1	124	10	40
	500	2,8	0,09	120	10	50
	600	2,3	0,08	145	20	30
	750	1,9	0,07	145	25	30
	900	1,6	0,06	145	30	30
	1200	1,2	0,04	124	30	40
	1500	0,90	0,04	145	50	30
	1800	0,78	0,04	145	60	30
	2400	0,58	0,03	124	60	40
	3000	0,5	0,02	120	60	50
	4000	0,35	0,02	82	50	80
	4800	0,28	0,02	82	60	80

TIPO	i	n2	kw1	M2 Nm	i1	i2
BWQ 50/110	300	4,7	0,95	1100	10	30
	400	3,5	0,69	1030	10	40
	500	2,8	0,56	1000	10	50
	600	2,3	0,48	1030	15	40
	750	1,9	0,43	1100	25	30
	900	1,6	0,38	1100	30	30
	1200	1,2	0,27	1030	30	40
	1500	0,90	0,28	1100	50	30
	1800	0,78	0,23	1100	60	30
	2400	0,58	0,17	1030	60	40
	3000	0,5	0,14	1000	60	50
	4000	0,35	0,12	780	50	80
	5000	0,28	0,09	710	50	100

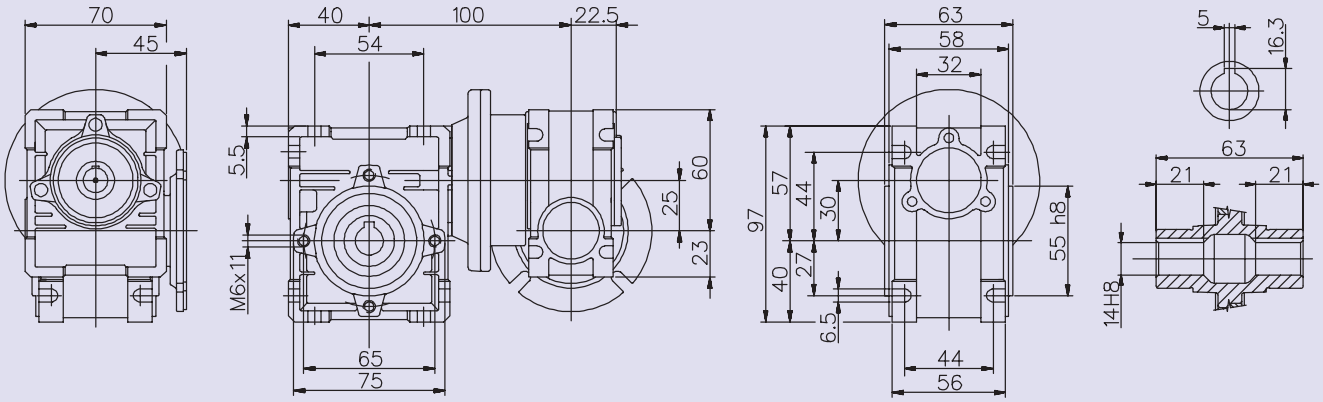
TIPO	i	n2	kw1	M2 Nm	i1	i2
BWQ 30/63	300	4,7	0,24	230	7,5	40
	400	3,5	0,19	230	10	40
	500	2,8	0,15	216	10	50
	600	2,3	0,13	230	15	40
	750	1,9	0,11	216	15	50
	900	1,6	0,09	198	15	60
	1200	1,2	0,08	230	30	40
	1500	0,90	0,06	216	30	50
	1800	0,78	0,05	198	30	60
	2400	0,58	0,05	230	60	40
	3000	0,5	0,04	216	60	50
	4000	0,35	0,03	172	50	80
	5000	0,28	0,02	150	50	100

TIPO	i	n2	kw1	M2 Nm	i1	i2
BWQ 63/130	300	4,7	1,48	1760	10	30
	400	3,5	1,09	1650	10	40
	500	2,8	0,86	1550	10	50
	600	2,3	0,76	1650	15	40
	750	1,9	0,66	1760	25	30
	900	1,6	0,58	1760	30	30
	1200	1,2	0,43	1650	30	40
	1500	0,90	0,39	1760	50	30
	1800	0,78	0,35	1760	60	30
	2400	0,58	0,25	1650	60	40
	3000	0,5	0,2	1550	60	50
	4000	0,35	0,15	1220	50	80
	5000	0,28	0,11	1100	50	100

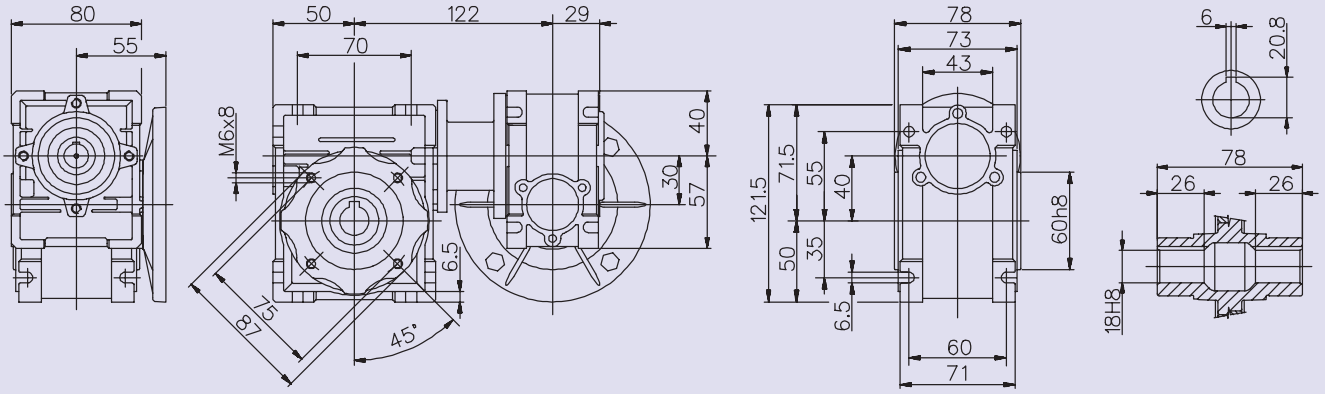
TIPO	i	n2	kw1	M2 Nm	i1	i2
BWQ 40/75	300	4,7	0,36	390	10	30
	400	3,5	0,27	360	10	40
	500	2,8	0,21	320	10	50
	600	2,3	0,19	390	20	30
	750	1,9	0,16	390	25	30
	900	1,6	0,14	390	30	30
	1200	1,2	0,11	360	30	40
	1500	0,90	0,1	390	50	30
	1800	0,78	0,09	390	60	30
	2400	0,58	0,07	360	60	40
	3000	0,5	0,05	320	60	50
	4000	0,35	0,04	250	50	80
	5000	0,28	0,03	230	50	100

DIMENSIONES BWQ+BWQ COMBINADO / *DIMENSIONS BWQ+BWQ COMBINATION*

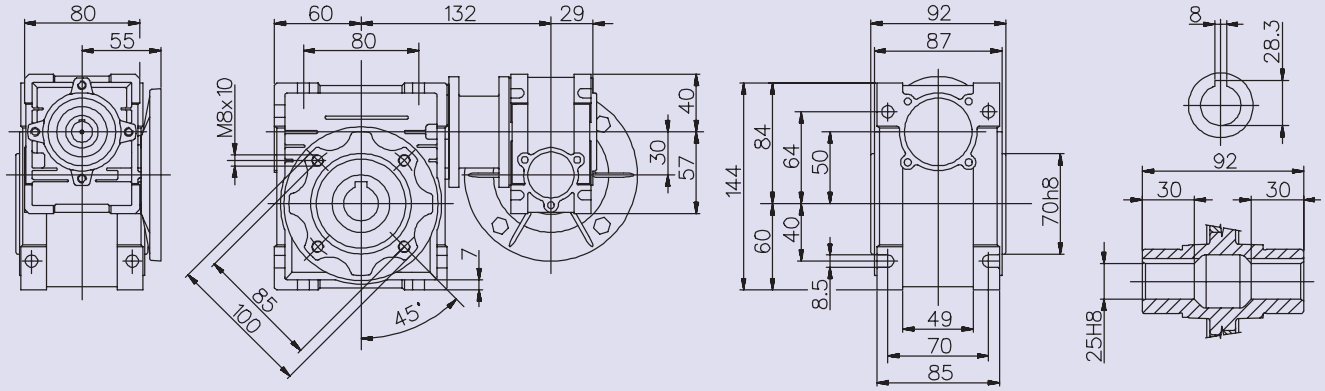
BWQ30 + 25



BWQ40 + 30

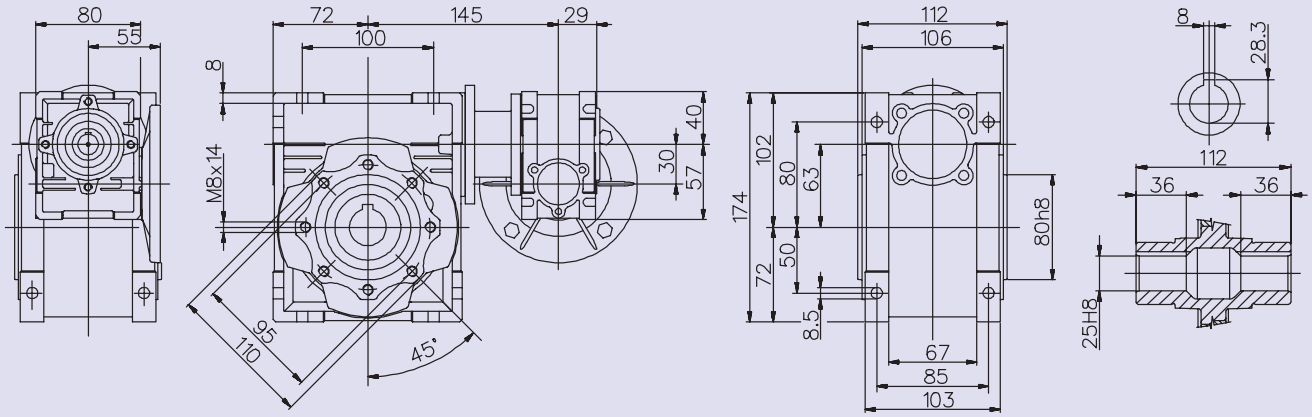


BWQ50 + 30

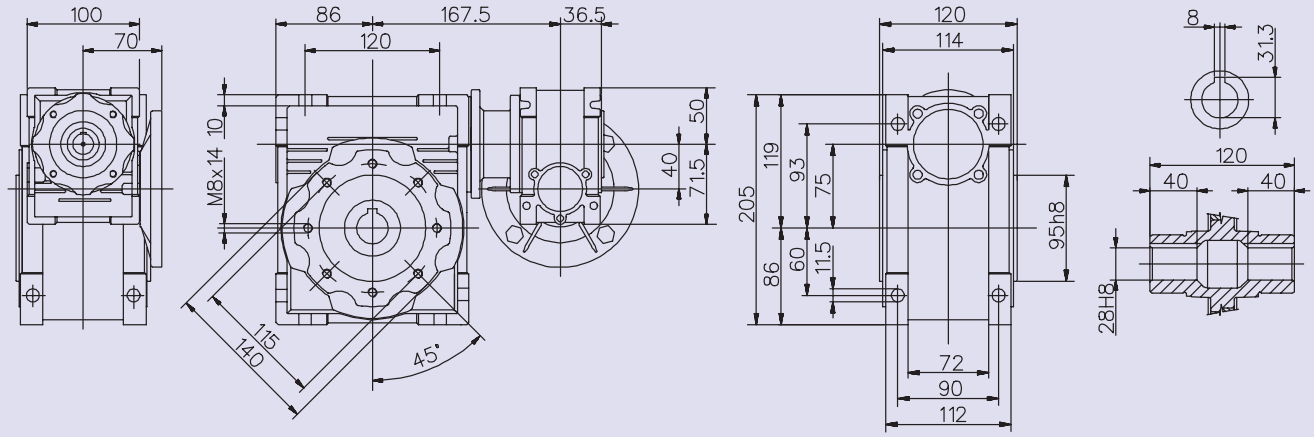


DIMENSIONES BWQ+BWQ COMBINADO / *DIMENSIONS BWQ+BWQ COMBINATION*

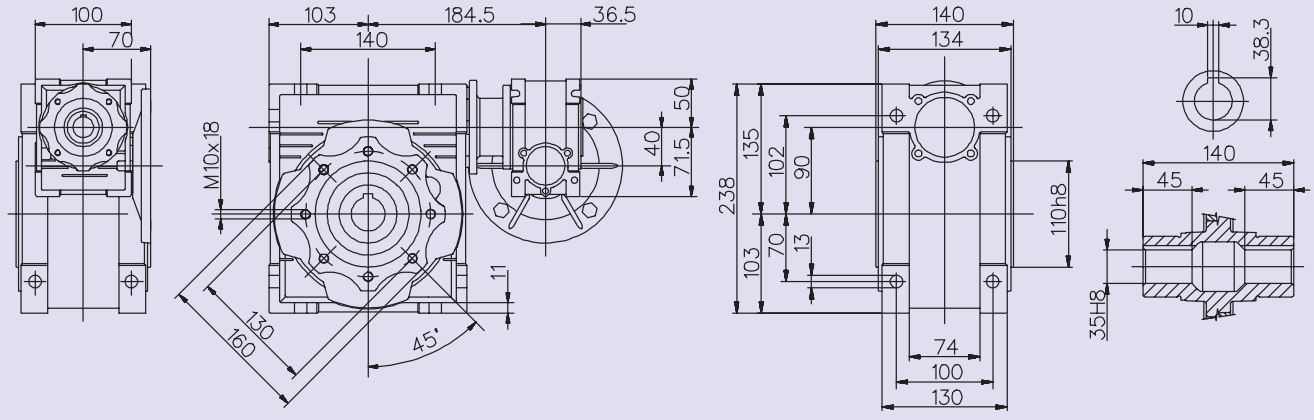
BWQ63 + 50



BWQ75 + 40

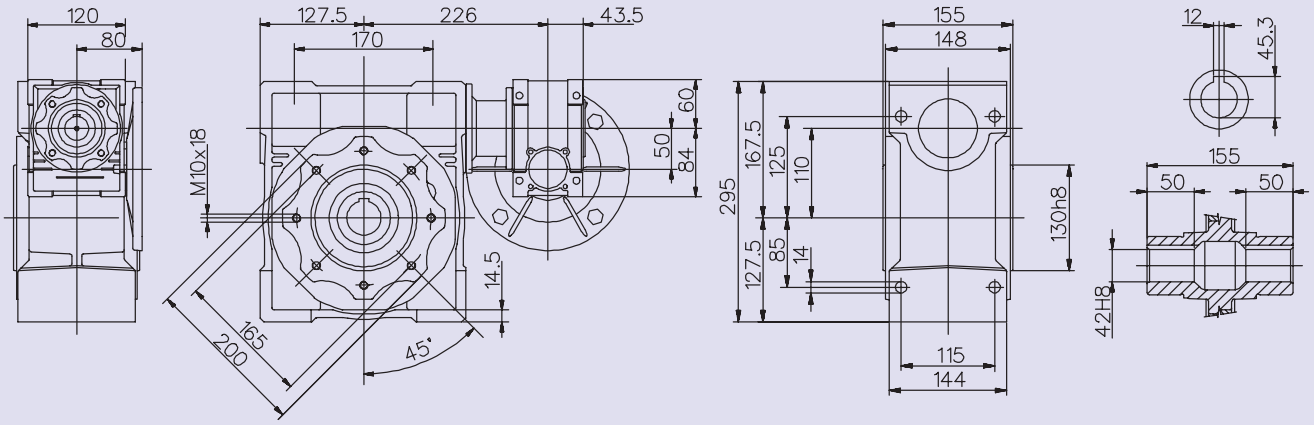


BWQ90 + 40

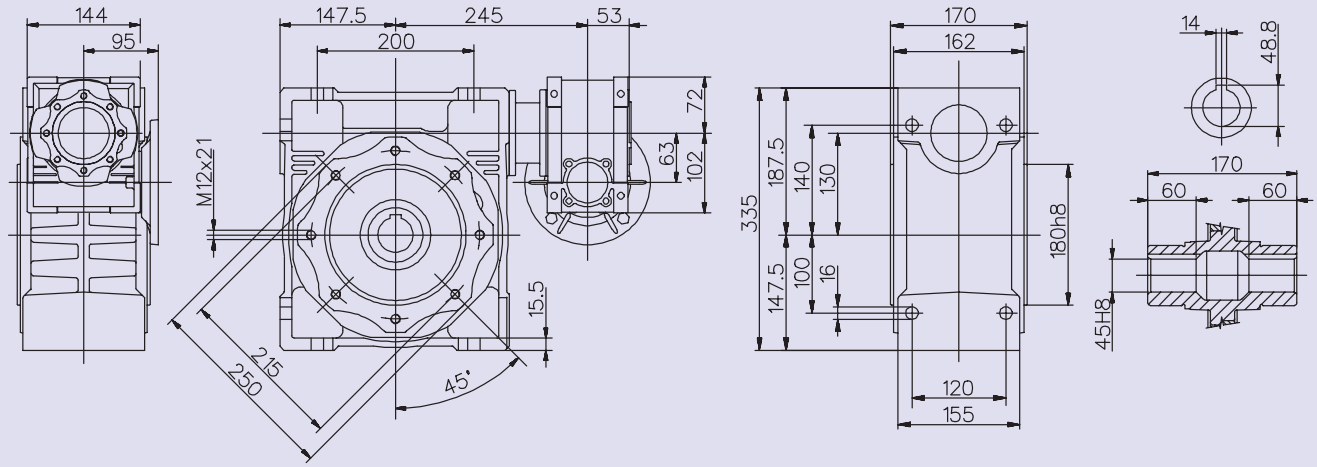


DIMENSIONES BWQ+BWQ COMBINADO / *DIMENSIONS BWQ+BWQ COMBINATION*

BWQ110 + 50



BWQ130 + 63



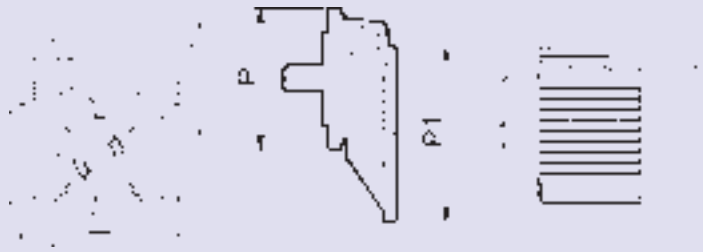
Reductor y motorreductor
tipo sinfín/corona
con prerreducción

Worm gear unit with
pre-stage helical unit

BWQ + BH

BWQ+BH / *BWQ+BH*

BWQ	i	BH 63		BH 71		BH 80			BH 90		
		105 / 11 i = 3	105 / 14 i = 3	120 / 14 i = 3	120 / 19 i = 3	160 / 19 i = 3	160 / 24 i = 3	160 / 28 i = 3	160 / 19 i = 2,42	160 / 24 i = 2,42	160 / 28 i = 2,42
040	25	■	■								
	30	■	■								
	40	■	■								
	50	■									
	60	■									
	80	■									
	100	■									
050	25		■	■	■						
	30		■	■	■						
	40	■	■	■							
	50	■	■	■							
	60	■	■	■							
	80	■	■	■							
	100	■									
063	25				■						
	30				■						
	40		■	■	■						
	50		■	■	■						
	60		■	■	■						
	80		■	■							
	100		■	■							
075	25				■	■	■		■	■	
	30				■	■	■		■	■	
	40				■	■	■		■	■	
	50			■	■	■			■		
	60			■	■	■			■		
	80			■	■	■			■		
	100			■	■	■			■		
090	25						■	■		■	■
	30						■	■		■	■
	40				■	■	■		■	■	
	50				■	■	■		■	■	
	60				■	■	■		■	■	
	80				■	■			■		
	100				■	■			■		
110	25						■	■		■	■
	30						■	■		■	■
	40						■	■		■	■
	50						■	■		■	■
	60						■	■		■	■
	80					■	■	■	■	■	
	100					■	■		■	■	
130	25							■			■
	30							■			■
	40							■			■
	50							■			■
	60							■			■
	80						■	■		■	■
	100						■	■		■	■

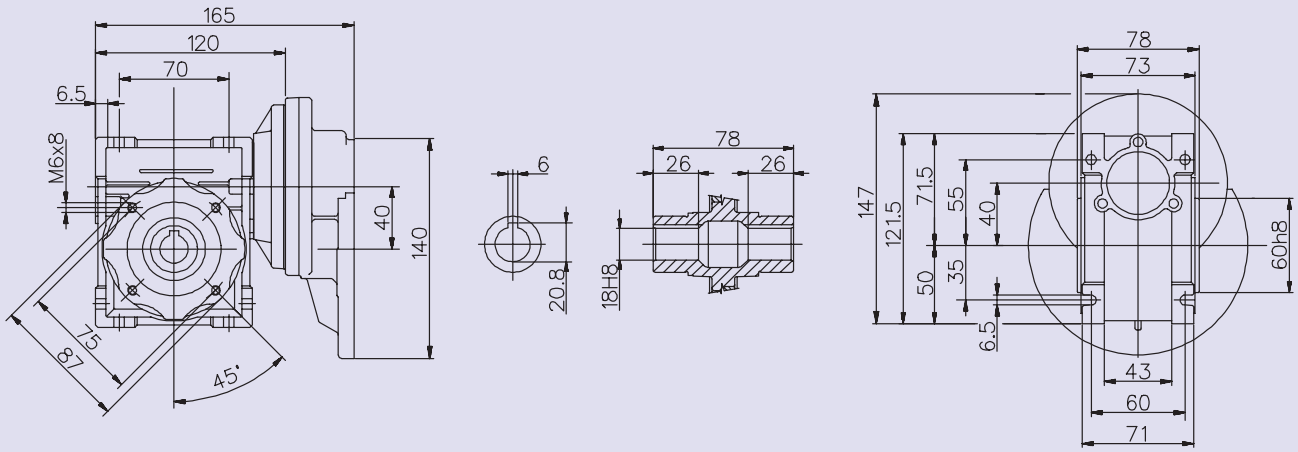


	P1	P	(P)
BH063	63B5 - 140/11	105/11	(105/14)
BH071	71B5 - 160/14	120/14	(120/19)
BH080	80B5 - 200/19	160/19	(160/24) (160/28)
BH090	90B5 - 200/24	160/24	(160/19) (160/28)

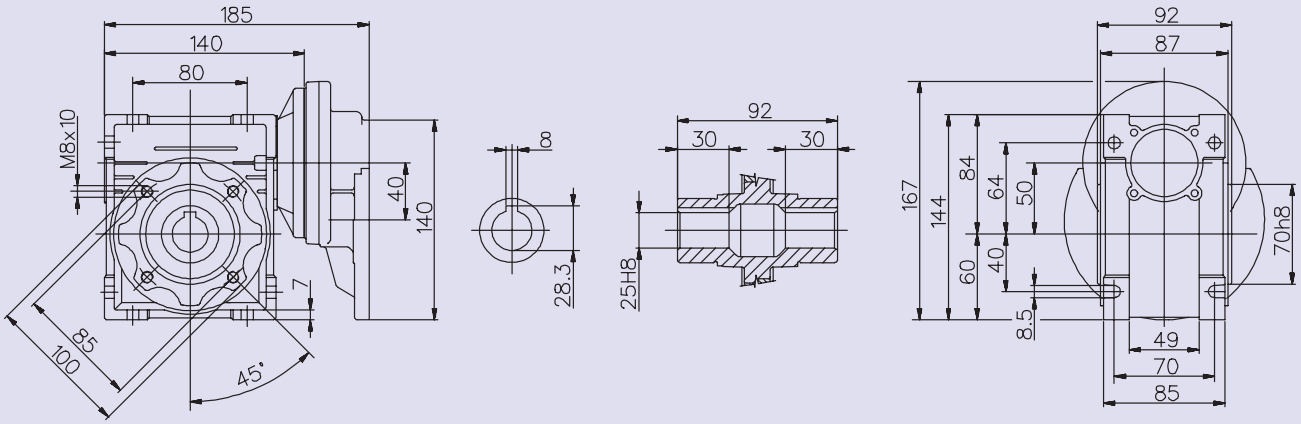
Sólo bajo pedido / *Only on request*

DIMENSIONES BWQ+BH / *DIMENSIONS BWQ+BH*

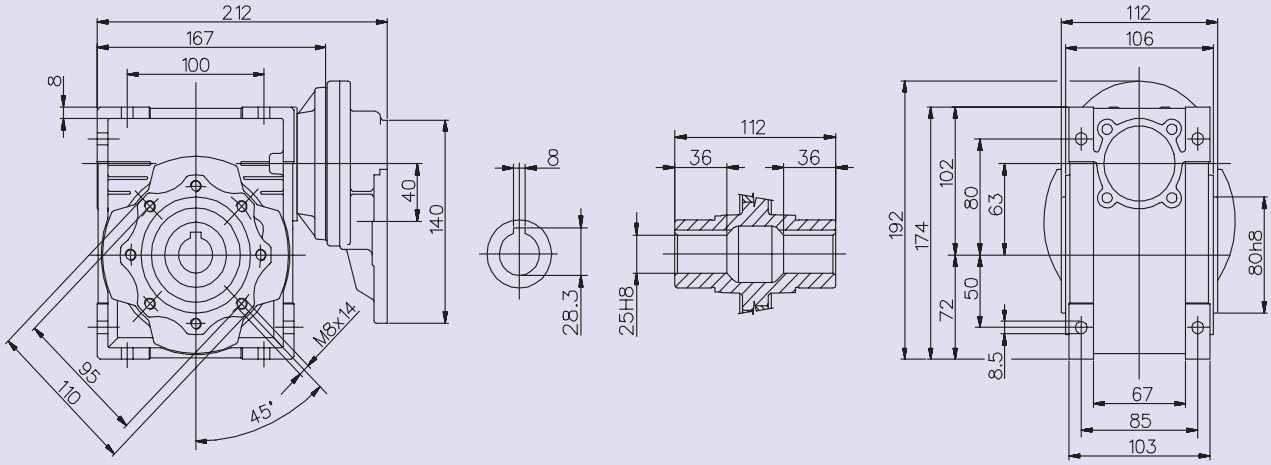
BWQ40 + BH063



BWQ50 + BH063

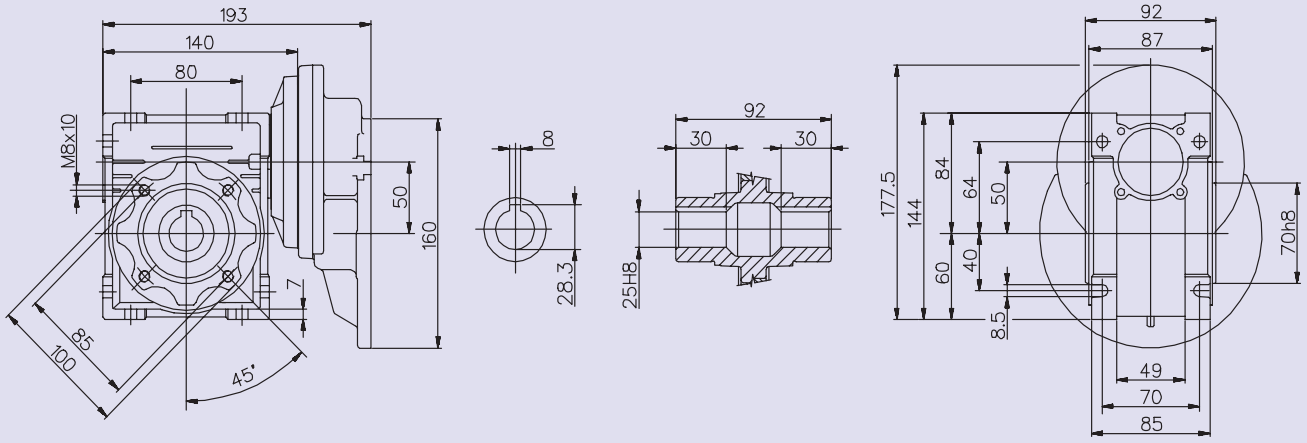


BWQ63 + BH063

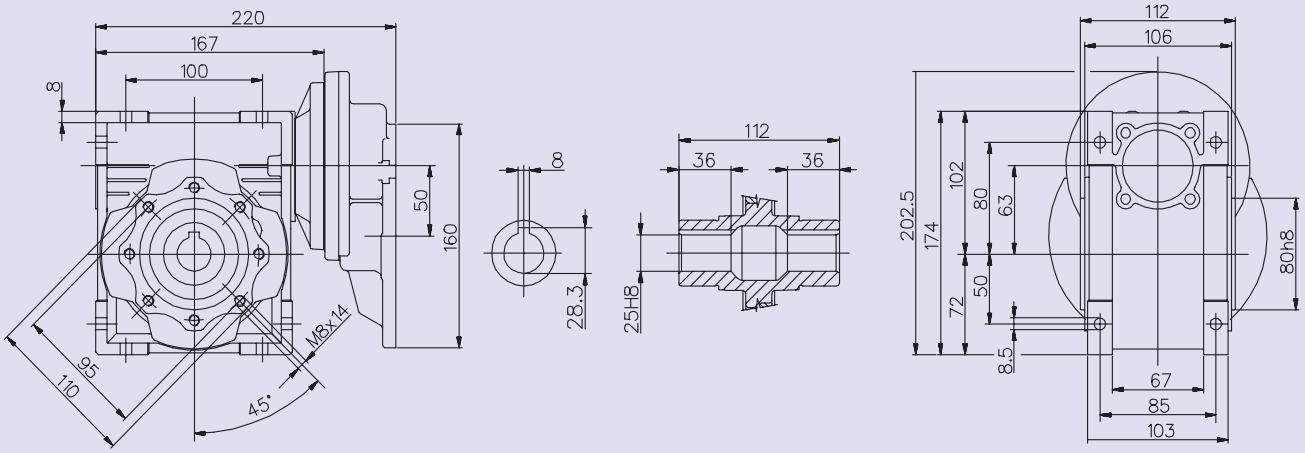


DIMENSIONES BWQ+BH / *DIMENSIONS BWQ+BH*

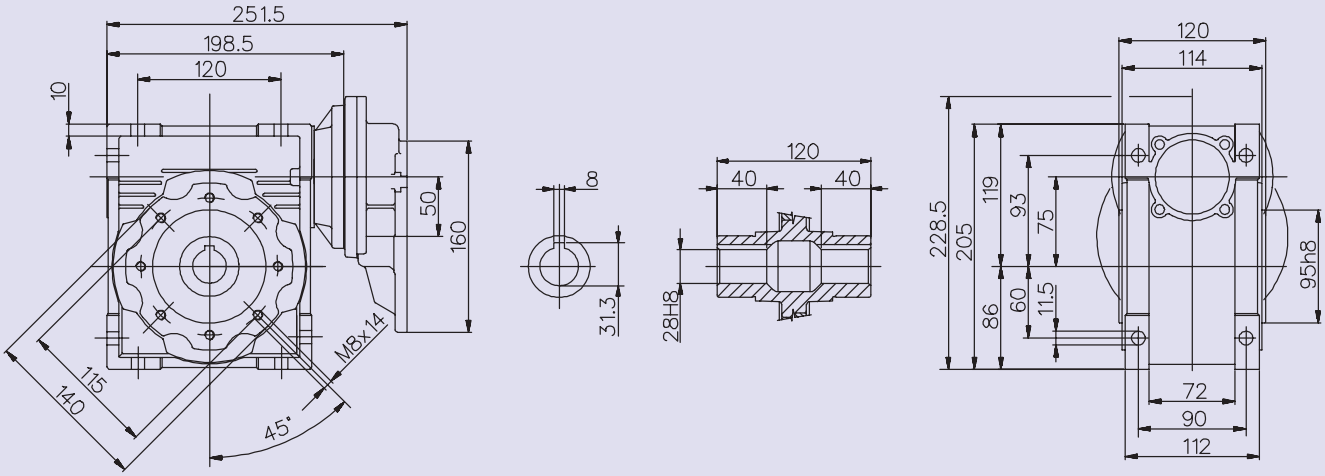
BWQ50 + BH071



BWQ63 + BH071

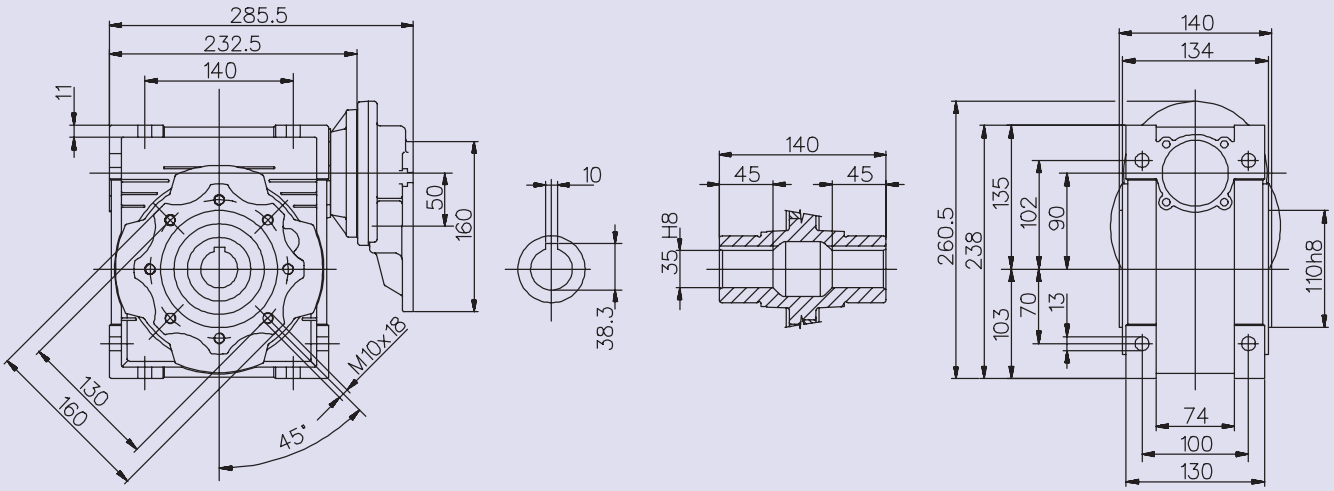


BWQ75 + BH071

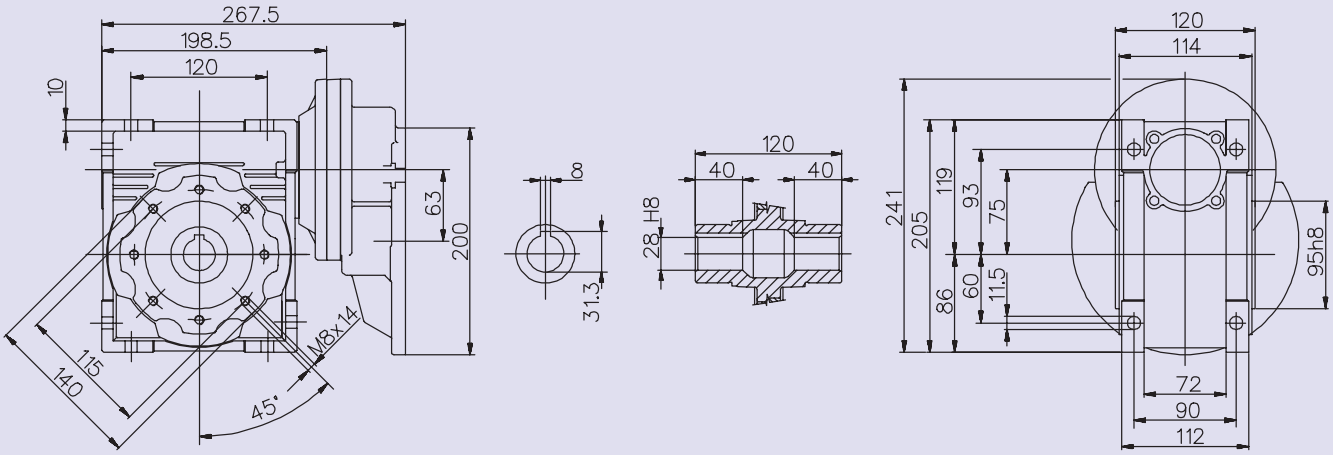


DIMENSIONES BWQ+BH / *DIMENSIONS BWQ+BH*

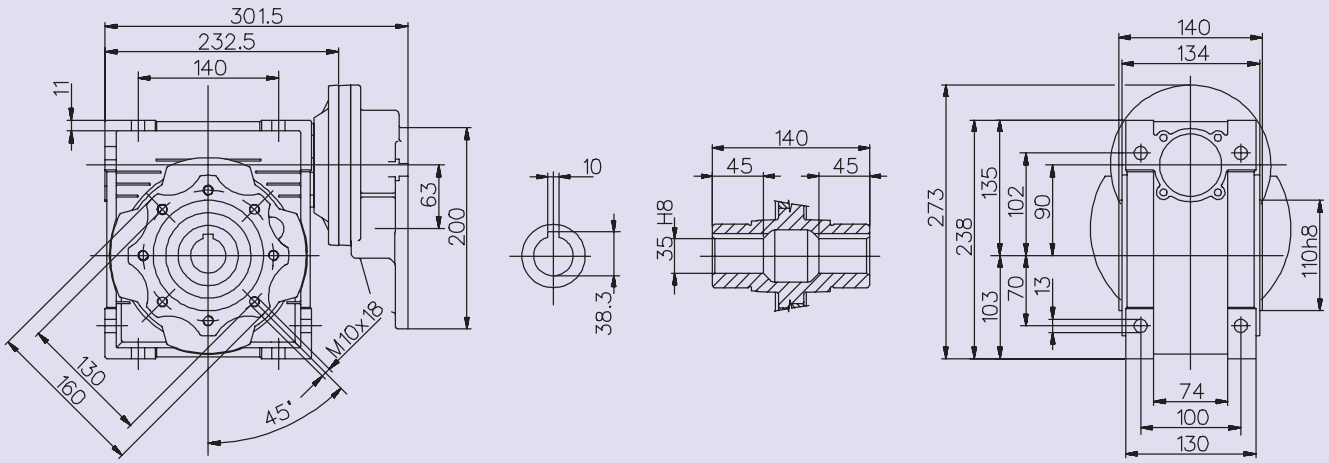
BWQ90 + BH071



BWQ75 + BH080

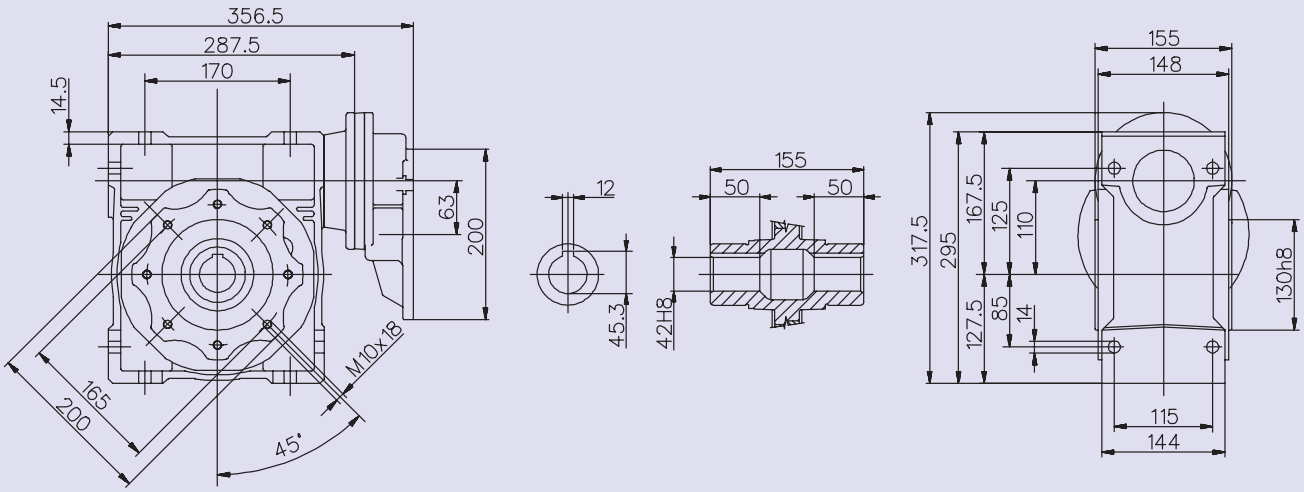


BWQ90 + BH080

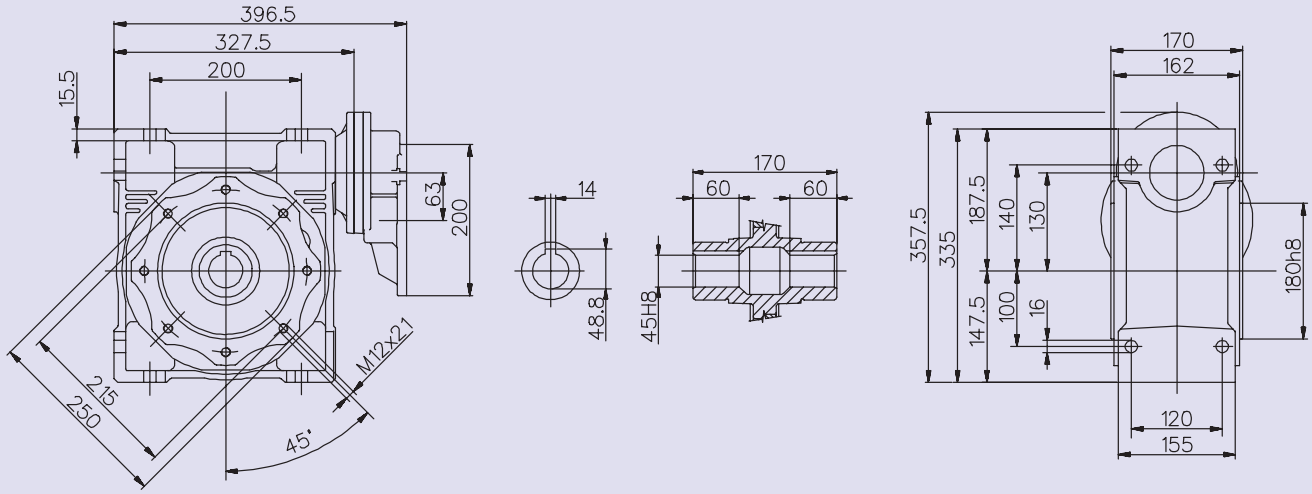


DIMENSIONES BWQ+BH / *DIMENSIONS BWQ+BH*

BWQ110 + BH080
BWQ110 + BH090



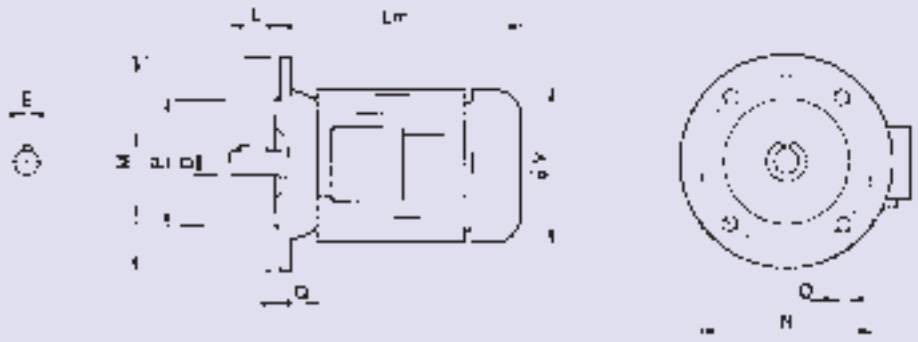
BWQ130 + BH080
BWQ130 + BH090



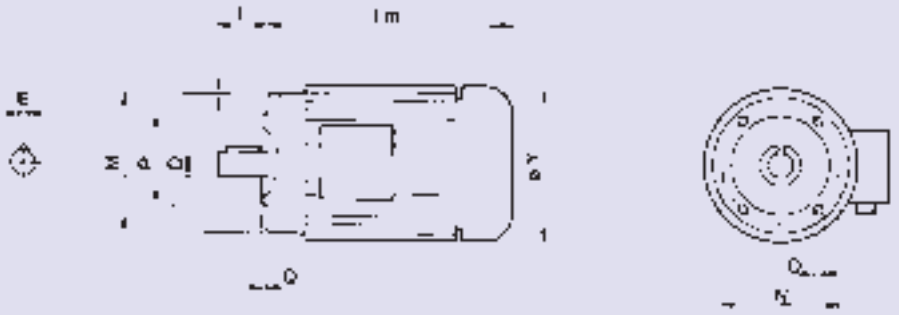
MOTORES ELÉCTRICOS / *ELECTRIC MOTORS*

Dimensiones y datos técnicos / *Dimensions and technical data*

B5



B14



	2 / poles			4 / poles			6 / poles			B5-B14					B5					B14					Kg
	kW	Nm	A (400V)	kW	Nm	A (400V)	kW	Nm	A (400)	D	E	L	Lm	Y	P	N	M	O	Q	P	N	M	O	Q	
56 A	0.09	0.3	0.38	0.06	0.4	0.38	--	-	–	9	3	20	169	107	80	100	120	9	2.5	50	65	80	M5	2.5	2.7
56 B	0.12	0.5	0.53	0.09	0.6	0.43	--	-	–																2.9
63 A	0.18	0.6	0.58	0.12	1.0	0.57	0.09	1.0	0.54	11	4	23	191	123	95	115	140	9.5	3	60	75	90	M5	2.5	3.8
63 B	0.25	0.9	0.90	0,18	1.4	0.65	0.12	1.4	0.67																4.2
71 A	0.37	1.2	1.0	0.25	1.7	0.86	0.18	1.9	0.75	14	5	30	213	142	110	130	160	9.5	3.5	70	85	105	M6	2.5	5.9
71 B	0.55	1.9	1.5	0.37	2.6	1.3	0.25	2.8	0.9																6.5
80 A	0.75	2.5	1.8	0.55	3.9	1.6	0.37	4.0	1.4	19	6	40	237	160	130	165	200	11.5	3.5	80	100	120	M6	3	8.5
80 B	1.1	3.8	2.5	0.75	5.2	2.2	0.55	5.8	2.0																10
90 S	1.5	5.0	3.9	1.1	7.8	3.0	0.75	8.0	2.2	24	8	50	257	180	130	165	200	11.5	3.5	95	115	140	M8	3	12,5
90 L	2.2	7.5	5.5	1.5	10	4.0	1.1	12	3.2				282												15
90 LL	–	--	–	1.8	12	5.2	--	--	–				282												17
100 LA	3	10	6.4	2.2	15	5.9	1.5	15	4,3	28	8	60	313	198	180	215	250	13	4	110	130	160	M8	3.5	20
100 LB	--	--	–	3	20	7.5	1.8	19	5.0				313	198											22
112 M	4	13.8	9.0	4	27	9.6	2.2	23	5.8				332	224											35
132 S	5.5	18	12.7	5.5	37	12.4	3	31	7.2	38	10	80	362	252	230	265	300	14	4						41
	7.5	25	17.0										402												51
132 M	9	30	18.5	7.5	50	16	4	42	10.8				402												51
132 L	--	--	–	9	62	19.5	5.5	56	14.0				402												61
160 M	11	37	24	11	74	25	7.5	74	17.0	42	12	110	491	316	250	300	350	18	5						102
	15	48	29										491												102
160 L	18.5	63	35	15	98	34	11	113	25				536												115
180 M	22	75	42	18.5	123	41	--	--	–	48	14	110	555	360	250	300	350	18	5						121
180 L	--	--	–	22	147	45	15	150	31				597												140
200 L	--	--	–	30	195	56	18.5	196	37	55	14	110	745	395	300	350	400	18	5						250
	--	--	–	--	--	--	22	233	43				745												250