CHIARAVALLI GROUP SpA

CHM WORM GEARED MOTORS AND WORM GEAR UNITS

CHME

CHM

CHMRE

CHMR

INTRODUCTION

The worm gears made by Chiaravalli Group S.p.A. are square and are considerably versatile for mounting. The machining of the components, carried out using numeric control machines, guarantees maximum precision for the restricted tolerances, producing a product that will remain reliable over time.
The groups are constructed with aluminium casings from sizes 025 to 090, while the sizes 110, 130 and 150 are made from cast iron.
All of the bodies are painted with RAL 9022 aluminium colour to protect the parts from aging and to give better protection against microblowholes that may be present in the aluminium.
The gears are supplied with at least one filling plug that is also used during testing to check for possible leaks.
A connection flange allows two gears to be combined in order to obtain high gear ratios.
Four sizes of CHPC pre-stage gears are available to pair with the gears; these are also constructed in aluminium and are painted like the worm gears.
All of the groups are supplied with a lubricant whose characteristics are described in the following table.

LUBRICATION

	CHM 025/090	CHM 110/150			CHPC
Lubricant	Synthetic	Mineral	Mineral	Mineral	Synthetic
°C ambient	-25°C/+50°C	-25°C/+50°C	-5°C/+40°C	-15°C/+25°C	-25°C/+50°C
ISO	VG320	VG320	VG460	VG220	VG320
AGIP	TELIUM VSF 320	BLASIA 320	BLASIA 460	BLASIA 220	TELIUM VSF 320
SHELL	TIVELA OIL S 320	OMALA OIL 320	OMALA OIL 460	OMALA OIL 220	TIVELA OIL SC 320
IP	TELIUM VSF	MELLANA OIL 320	MELLANA OIL 460	MELLANA OIL 220	TELIUM VSF

LUBRICATION

The size 025 to 090 gears are supplied complete with synthetic oil and therefore do not require any maintenance.
The size 110, 130 and 150 gears are supplied with the quantity of mineral oil foreseen for the B3 assembly position. It is the client's responsibility to adapt the quantity of oil to the assembly position and in addition, to substitute the filling plug, supplied closed for transport reasons, with the one equipped with a hole attached to the gear.
If the breather plug is not installed it may create internal pressure with a consequent leakage of oil from the oil seals.
For the sizes 110, 130 and 150 we recommend that the oil is changed after the running in period, approx. 300 working hours.

*2D and 3D drawings available on the web site **www.chiaravalli.com***
Quantity, availability and prices with Chiaravalli B2B

QUANTITY OF OIL IN LITRES

CHM	025	030	040	050	063	075	090	110	130	150	CHPC	63	71	80	90
B3	0.02	0.04	0.08	0.15	0.30	0.55	1	3	4.5	7		0.05	0.07	0.15	0.16
B8	0.02	0.04	0.08	0.15	0.30	0.55	1	1.4	1.7	5.1		0.05	0.07	0.15	0.16
B6/B7	0.02	0.04	0.08	0.15	0.30	0.55	1	2.2	3.3	5.4		0.05	0.07	0.15	0.16
V5	0.02	0.04	0.08	0.15	0.30	0.55	1	3	4.5	7		0.05	0.07	0.15	0.16
V6	0.02	0.04	0.08	0.15	0.30	0.55	1	2.2	3.3	5.1		0.05	0.07	0.15	0.16

MOTOR MOUNTING FLANGES

Gears that are supplied with mounting flanges must be assembled with motors whose shaft and flange tolerances correspond to a "normal class" of quality in order to avoid vibration and forcing of the input bearing. Motors supplied by Chiaravalli Group S.p.A. guarantee that this requirement is fulfilled.
For ease of consultation, the correspondence of the size of the B5 and B14 motor with the sizes of the shaft and the motor connection flange are shown in the following table.
Remember that, as the motor connection flanges are separate from the body it is also possible to have a shaft / flange combination that does not correspond to the table, e.g. 19/140, thereby offering adaptability for other non-unified models such as the brushless or direct current types.

MMF	056	063	071	080	090	100	112	132
B5	9/120	11/140	14/160	19/200	24/200	28/250	28/250	38/300
B14	9/80	11/90	14/105	19/120	24/140	28/160	28/160	38/200

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Quantity, availability and prices with Chiaravalli B2B

CHM/CHMR/CHME/CHMRE DESIGNATION

TYPE (1)	SIZE (2)	VERSION (3)	FLANGE POS. (4)	i	M.M.F.	MOUNT. POS. (4)
CHM	025	FA	1	7.5		U UNIVERSALE
	030	FB	2	10		B3
CHMR	040	FC		15		B8
	050	FD		20		B6
CHME	063	FE		25	**SEE FROM**	B7
	075			30	**PAGE 31 TO 40**	V5
CHMRE	090			40		V6
	110			50		
	130			60		
	150			80		
				100		

ORDER EXAMPLE

CHM	090	FA (5)	2 (5)	30	90 B14	V5

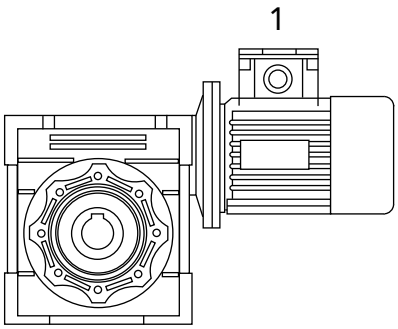
If the motor is also required, please specify:

Size	es. 90 L4
Power	es. Kw 1.5
Poles	es. 4
Voltage	es. V230/400
Frequency	es. 50 Hz
Flange	es. B14

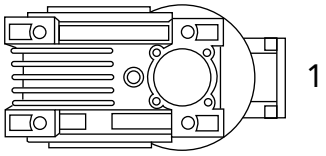
N.B. From size 25 to 63 the gears are always supplied in the Universal position and can therefore be mounted in any position, from size 75 to size 130 if the position required differs from B3 it must be specified.
In particular, in the event that a gear in position B3 is to be mounted in positions V5 or V6, the bearing positioned in the upper side must be lubricated using suitable grease that ensures proper lubrication.
We have tested Tecnolubeseal POLYMER 400/2 grease.

1) see page 26
2) see from page 31 to page 40
3) see from page 31 to page 40
4) see page 30
5) lack of instructions indicates that the gear is not equipped with an output flange.

B3



B6



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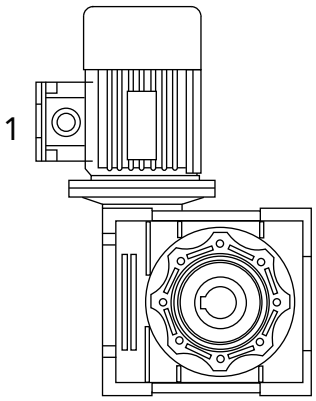

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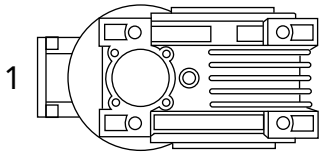

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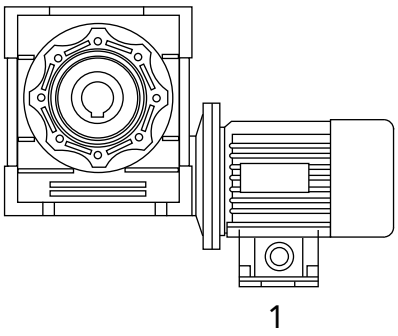
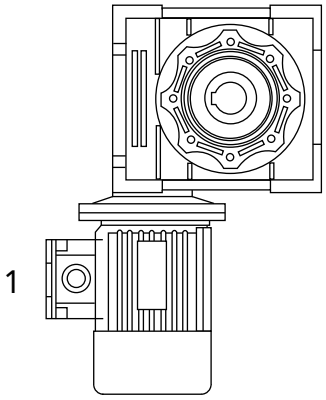


V6



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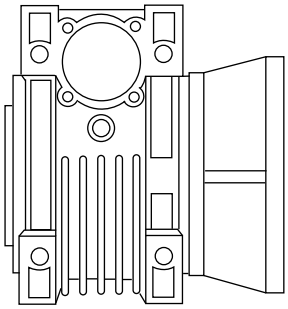

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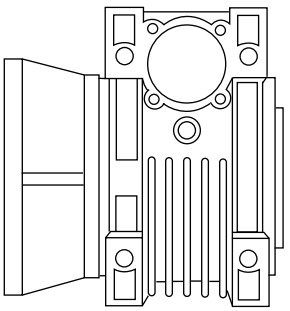
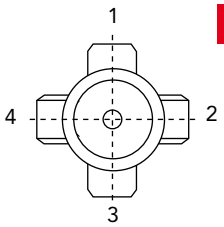
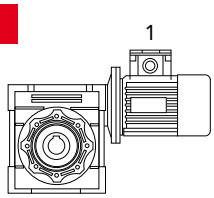


B3





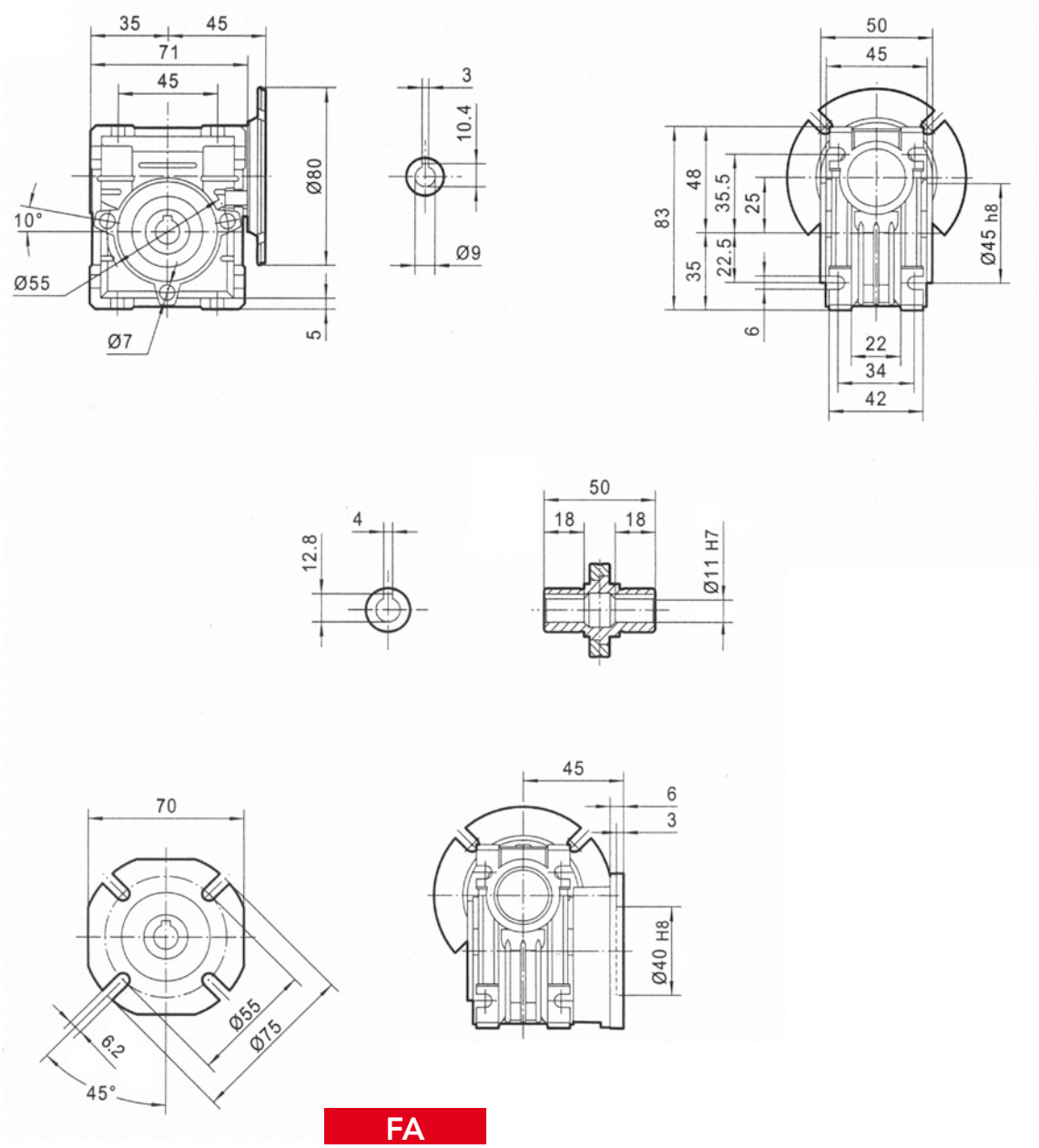
TERMINAL BOX POSITION

N.B. The position of the terminal box always refers to the B3 position.

CHM 025 - PERFORMANCE WITH 4-POLE MOTORS 1400 REVS. INPUT

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2	f.s.	Possible types of motor connections	
CHM 025	7.5	186.7	0.09	3.8	2.8	56	B14
	10	140.0	0.09	5	2.4	56	B14
	15	93.3	0.09	7.2	1.6	56	B14
	20	70.0	0.09	9	1.3	56	B14
	25	56.0	0.09	10	1.0	56	B14
	30	46.7	0.09	12.3	1.1	56	B14
	40	35.0	0.09	13	1.0	56	B14
	50	28.0	0.09	14	0.7	56	B14
	60	23.3	0.09	14	0.6	56	B14

DIMENSIONS



FA

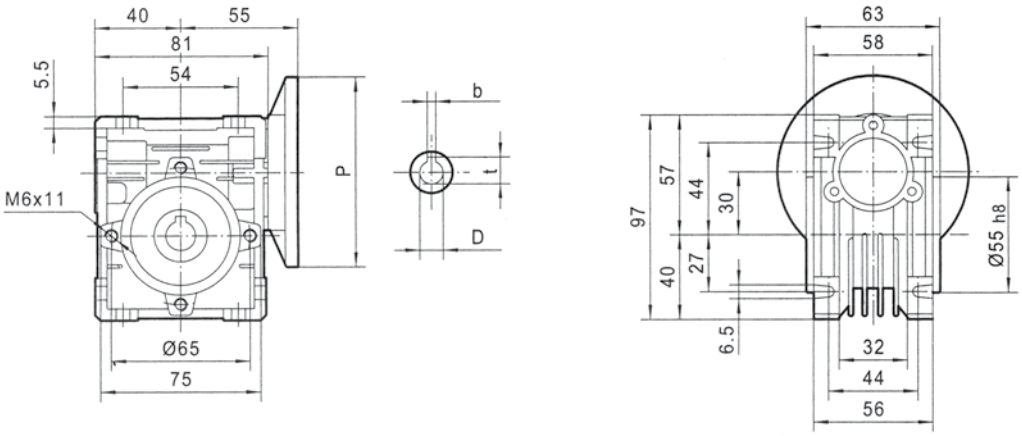
Weight 0.7 Kg excluding motor

2D and 3D drawings available on the web site ***www.chiaravalli.com***
Quantity, availability and prices with Chiaravalli B2B

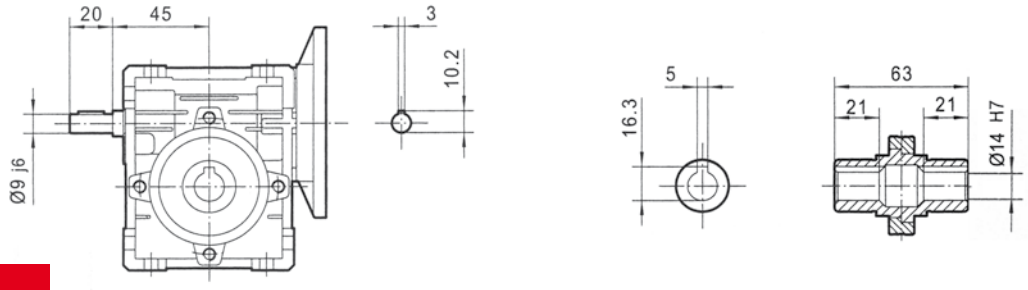
CHM 030 - PERFORMANCE WITH 4-POLE MOTORS 1400 REVS. INPUT

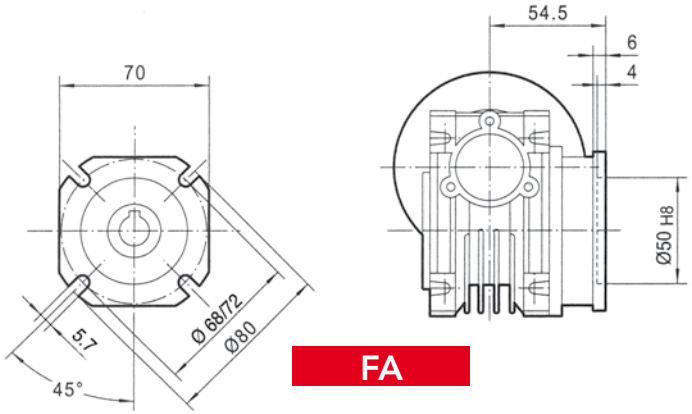
TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2	f.s.	Possible types of motor connections	
CHM 030	7.5	186.7	0.22	9	2.1	63/56	B5/B14
	10	140.0	0.22	11	1.6	63/56	B5/B14
	15	93.3	0.22	16	1.0	63/56	B5/B14
	20	70.0	0.22	20	0.9	63/56	B5/B14
	25	56.0	0.18	20	1.0	63/56	B5/B14
	30	46.7	0.18	22	0.9	63/56	B5/B14
	40	35.0	0.18	21	0.8	63/56	B5/B14
	50	28.0	0.18	19	0.8	63/56	B5/B14
	60	23.3	0.09	18	0.9	56	B5/B14
	80	17.5	0.09	13	0.9	56	B5/B14

DIMENSIONS



E





FA

PAM IEC	P	DE8	b	t	PAM IEC	P	DE8	b	t
63B5	140	11	4	12.8	63B14	90	11	4	12.8
56B5	120	9	3	10.4	56B14	80	9	3	10.4

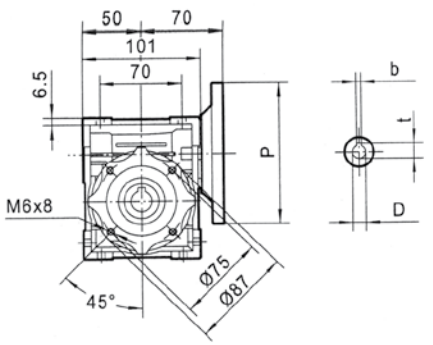
Weight 1.2 Kg excluding motor

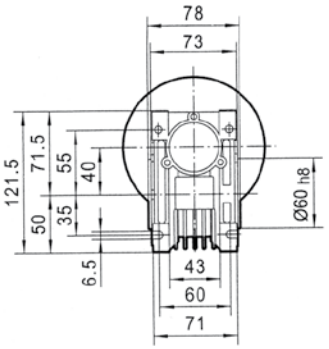
CHM 040 - PERFORMANCE WITH 4-POLE MOTORS 1400 REVS. INPUT

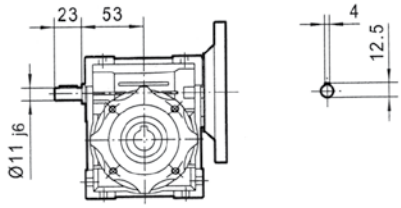
TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2	f.s.	Possible types of motor connections	
CHM 040	7.5	186.7	0.55**	22	1.6	71/63	B5/B14
	10	140.0	0.55**	30	1.4	71/63	B5/B14
	15	93.3	0.55**	44	0.9	71/63	B5/B14
	20	70.0	0.55**	38	1.0	71/63	B5/B14
	25	56.0	0.37	45	0.9	71/63	B5/B14
	30	46.7	0.37	52	0.8	71/63	B5/B14
	40	35.0	0.25	43	0.9	71/63	B5/B14
	50	28.0	0.22	44	0.9	63/56	B5/B14*
	60	23.3	0.18	42	0.8	63/56	B5/B14*
	80	17.5	0.18	36	0.8	63/56	B5/B14*
	100	14.0	0.18	35	0.8	63/56	B5/B14*

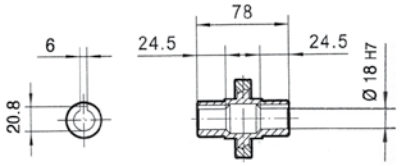
* 56 only B5 ** Size 71 Motors

DIMENSIONS









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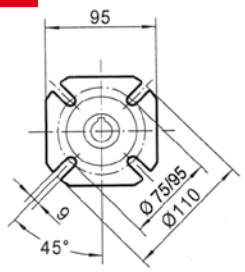

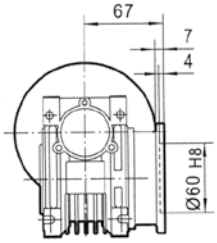

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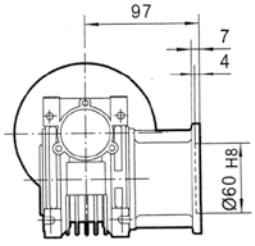

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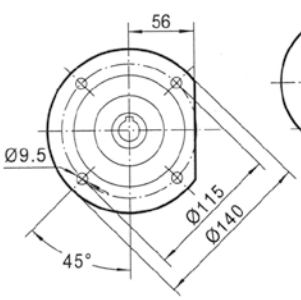

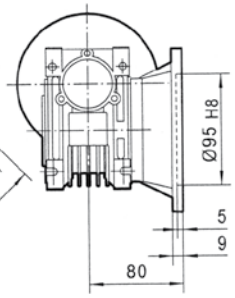

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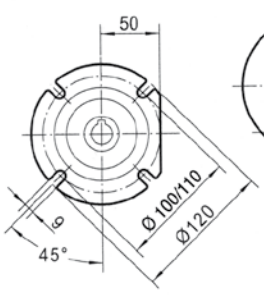
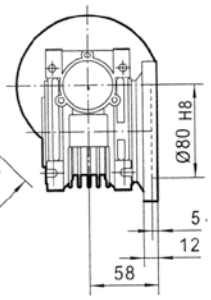




FD

PAM IEC	P	DE8	b	t
71B5	160	14	5	16.3
63B5	140	11	4	12.8
56B5	120	9	3	10.4

PAM IEC	P	DE8	b	t
71B14	105	14	5	16.3
63B14	90	11	4	12.8

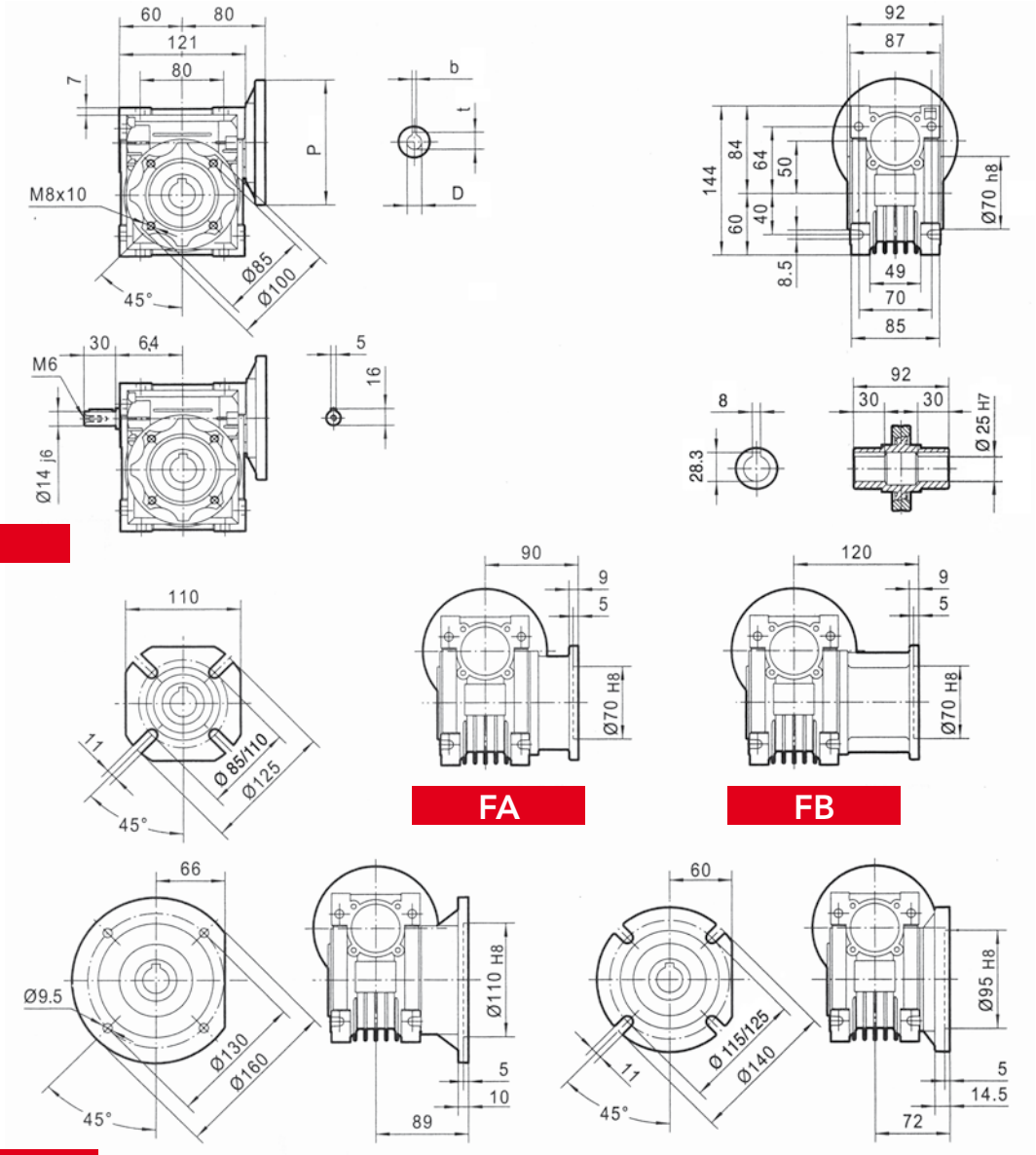
Weight 2.3 Kg excluding motor

CHM 050 - PERFORMANCE WITH 4-POLE MOTORS 1400 REVS. INPUT

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2	f.s.	Possible types of motor connections	
CHM 050	7.5	186.7	0.75	33.3	2.0	80/71	B5/B14
	10	140.0	0.75	43.9	1.6	80/71	B5/B14
	15	93.3	0.75	62.6	1.2	80/71	B5/B14
	20	70.0	0.75	80	0.9	80/71	B5/B14
	25	56.0	0.55	70	1.0	80/71	B5/B14
	30	46.7	0.55	80	1.0	80/71	B5/B14
	40	35.0	0.37	67	1.1	80/71/63	B5/B14*
	50	28.0	0.37	78	0.9	71/63	B5/B14*
	60	23.3	0.37	87	0.8	71/63	B5/B14*
	80	17.5	0.25	70	0.9	71/63	B5/B14*
	100	14.0	0.18	59	0.9	71/63	B5/B14*

* 63 only B5

DIMENSIONS



PAM IEC	P	DE8	b	t
80B5	200	19	6	21.8
71B5	160	14	5	16.3
63B5	140	11	4	12.8

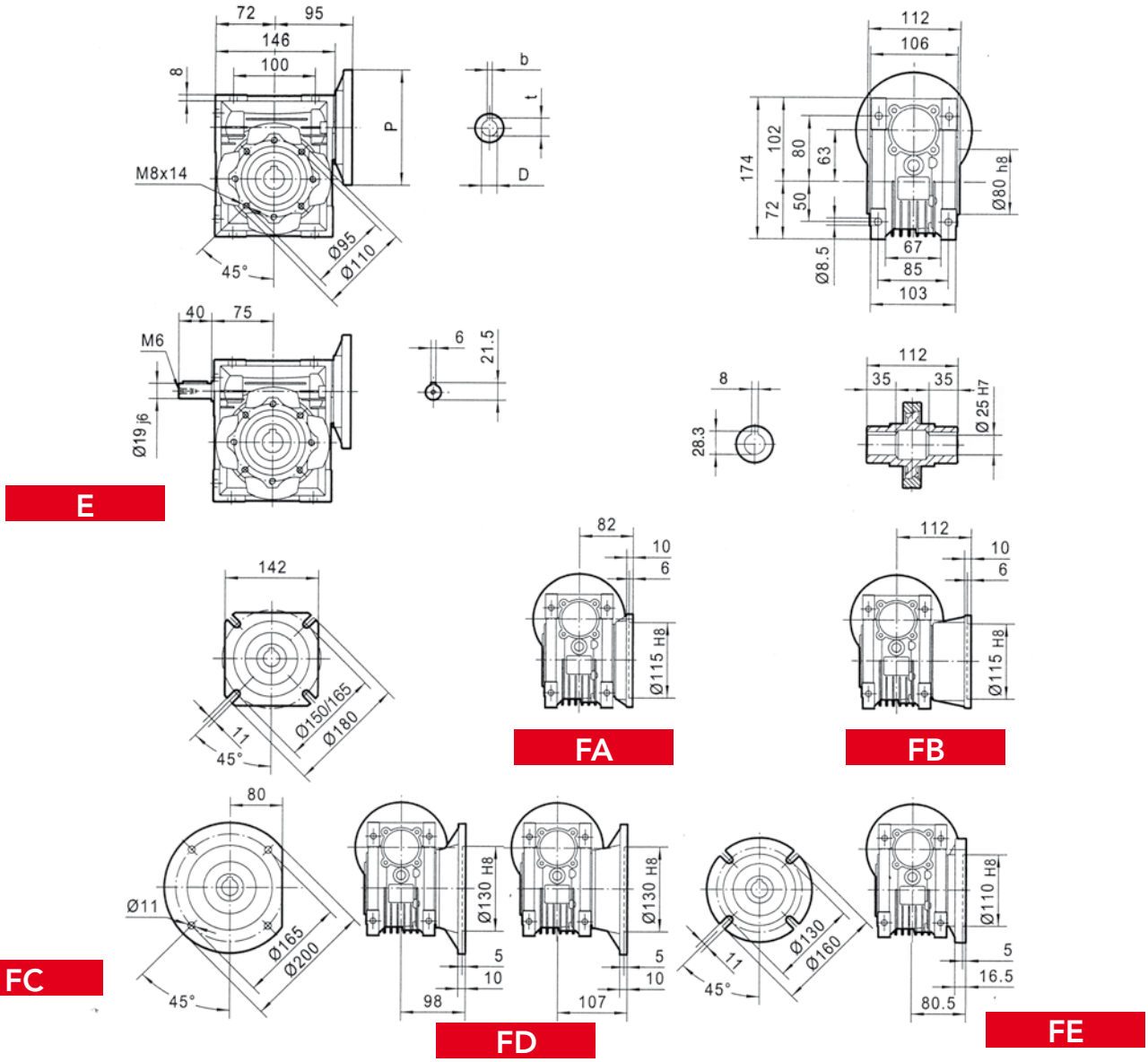
PAM IEC	P	DE8	b	t
80B14	120	19	6	21.8
71B14	105	14	5	16.3

Weight 3.5 Kg excluding motor

CHM 063 - PERFORMANCE WITH 4-POLE MOTORS 1400 REVS. INPUT

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2	f.s.	Possible types of motor connections	
CHM 063	7.5	186.7	1.50	67.4	1.8	90/80	B5/B14
	10	140.0	1.50	88.6	1.4	90/80	B5/B14
	15	93.3	1.50	126	1.19	90/80	B5/B14
	20	70.0	1.50	164	0.8	90/80	B5/B14
	25	56.0	1.10	145	0.9	90/80	B5/B14
	30	46.7	1.10	165	1.0	90/80	B5/B14
	40	35.0	0.75	143	1.0	80/71	B5/B14
	50	28.0	0.55	122	1.1	80/71	B5/B14
	60	23.3	0.55	138	0.9	80/71	B5/B14
	80	17.5	0.37	114	1.1	80/71	B5/B14
	100	14.0	0.37	127	0.9	71	B5/B14

DIMENSIONS



PAM IEC	P	DE8	b	t
90B5	200	24	8	27.3
80B5	200	19	6	21.8
71B5	160	14	5	16.3

PAM IEC	P	DE8	b	t
90B14	140	24	8	27.3
80B14	120	19	6	21.8
71B14	105	14	5	16.3

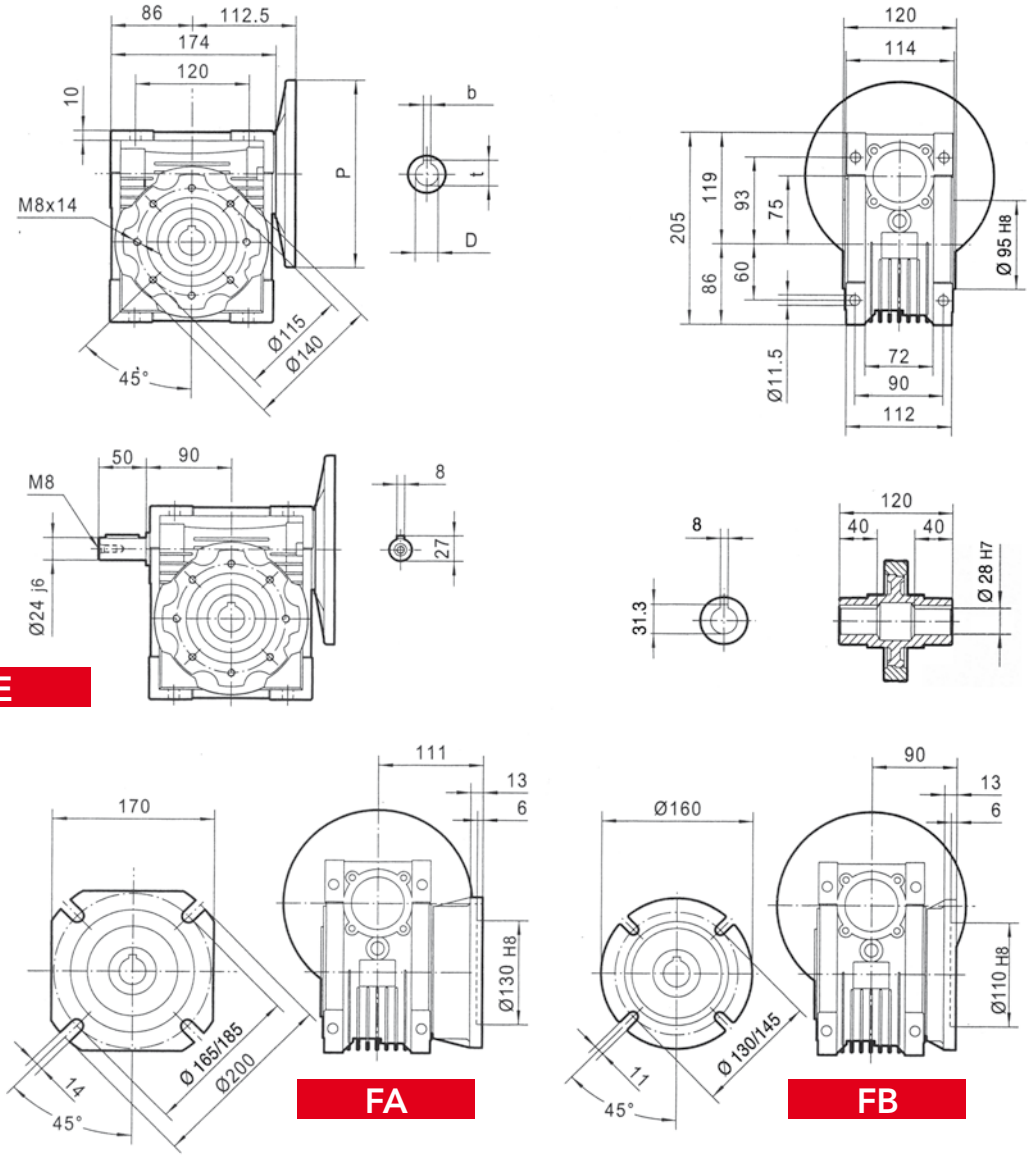
Weight 6.2 Kg excluding motor

CHM 075 - PERFORMANCE WITH 4-POLE MOTORS 1400 REVS. INPUT

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2	f.s.	Possible types of motor connections	
CHM 075	7.5	186.7	4.00	180	1.0	100/90	B5/B14
	10	140.0	4.00	237	0.8	100/90	B5/B14
	15	93.3	3.00	260	0.8	100/90	B5/B14
	20	70.0	1.50	167	1.2	90/80	B5/B14
	25	56.0	1.50	204	1.0	90/80	B5/B14
	30	46.7	1.50	232	1.0	90/80	B5/B14
	40	35.0	1.10	214	1.0	90/80	B5/B14
	50	28.0	0.75	176	1.2	90/80/71	B5/B14*
	60	23.3	0.75	199	1.0	80/71	B5/B14*
	80	17.5	0.55	178	1.1	80/71	B5/B14*
	100	14.0	0.55	203	0.9	80/71	B5/B14*

* 71 only B5

DIMENSIONS



PAM IEC	P	DE8	b	t
100/112B5	250	28	8	31.3
90B5	200	24	8	27.3
80B5	200	19	6	21.8
71B5	160	14	5	16.3

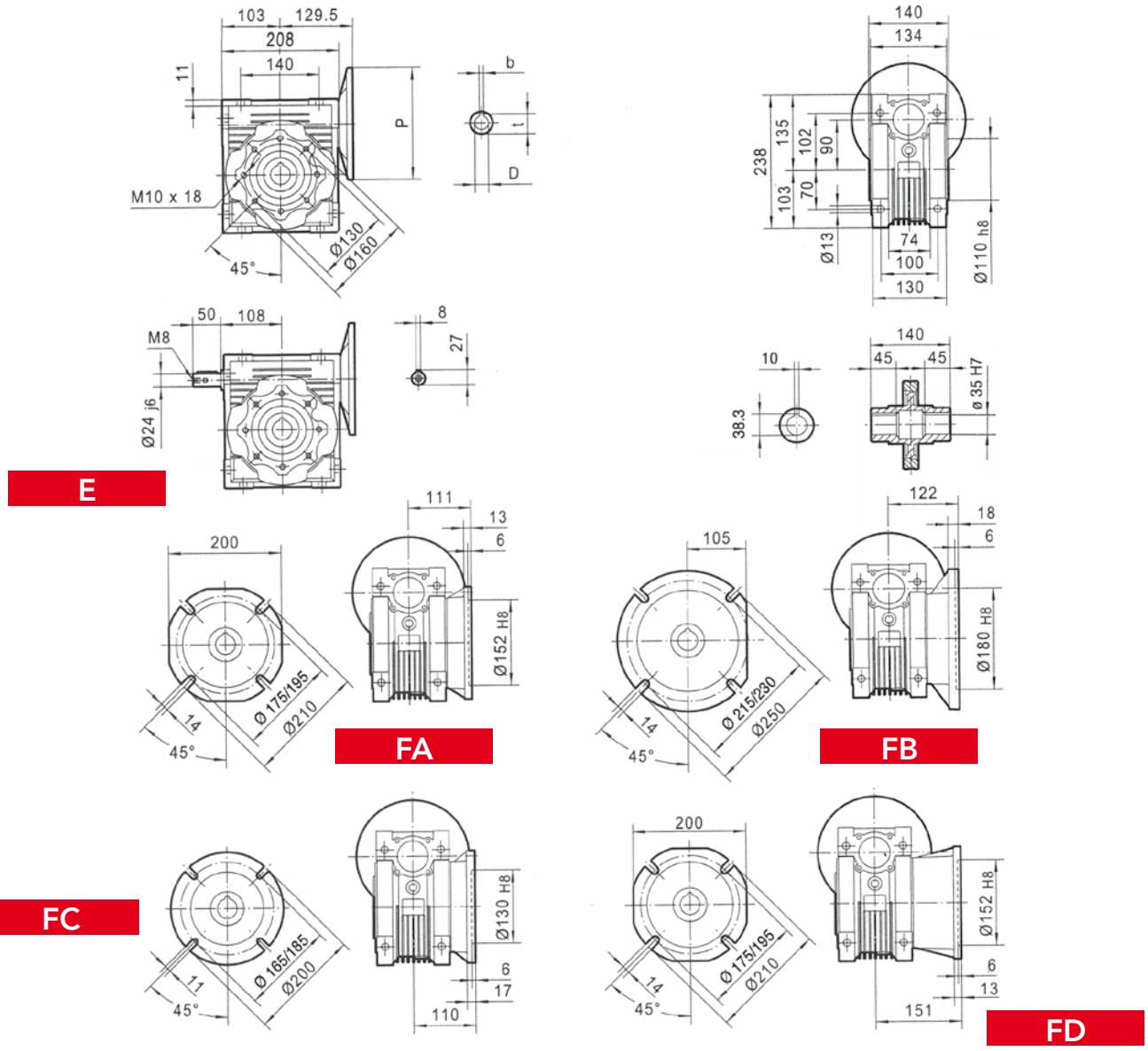
PAM IEC	P	DE8	b	t
100/112B14	160	28	8	31.3
90B14	140	24	8	27.3
80B14	120	19	6	21.8

Weight 9 Kg excluding motor

CHM 090 - PERFORMANCE WITH 4-POLE MOTORS 1400 REVS. INPUT

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2	f.s.	Possible types of motor connections	
CHM 090	7.5	186.7	4.00	184	1.5	100/90	B5/B14
	10	140.0	4.00	242	1.3	100/90	B5/B14
	15	93.3	4.00	351	1.1	100/90	B5/B14
	20	70.0	4.00	456	0.8	100/90	B5/B14
	25	56.0	3.00	417	0.8	100/90	B5/B14
	30	46.7	3.00	478	0.9	100/90	B5/B14
	40	35.0	1.50	306	1.2	90/80	B5/B14
	50	28.0	1.50	367	1.0	90/80	B5/B14
	60	23.3	1.50	421	0.8	90/80	B5/B14
	80	17.5	0.75	257	1.1	80	B5/B14
	100	14.0	0.75	300	0.9	80	B5/B14

DIMENSIONS



PAM IEC	P	De8	b	t
100/112B5	250	28	8	31.3
90B5	200	24	8	27.3
80B5	200	19	6	21.8

PAM IEC	P	De8	b	t
100/112B14	160	28	8	31.3
90B14	140	24	8	27.3
80B14	120	19	6	21.8

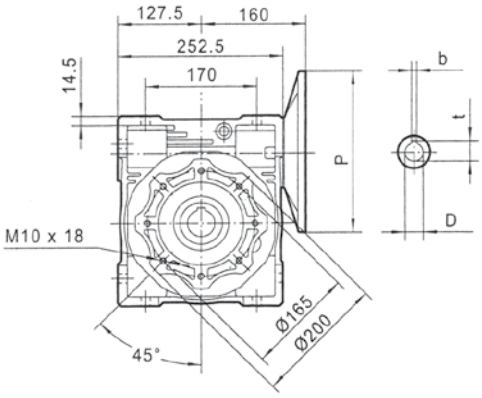
Weight 13 Kg excluding motor

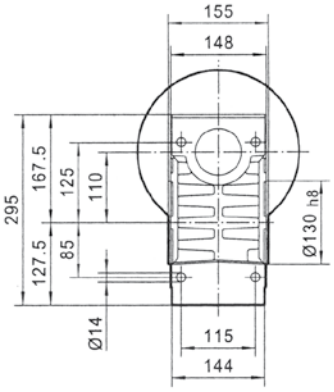
CHM 110 - PERFORMANCE WITH 4-POLE MOTORS 1400 REVS. INPUT

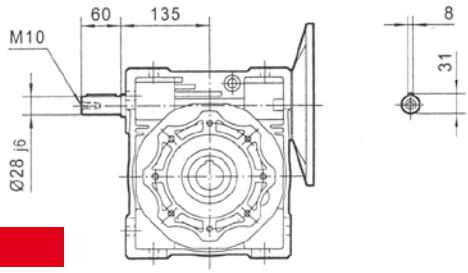
TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2	f.s.	Possible types of motor connections	
CHM 110	7.5	186.7	7.50	344	1.6	132/112/100	B5/B14
	10	140.0	7.50	453	1.3	132/112/100	B5/B14
	15	93.3	7.50	659	1.0	132/112/100	B5/B14
	20	70.0	5.50	635	1.0	132/112/100	B5/B14
	25	56.0	4.00	573	1.2	112/100	B5/B14
	30	46.7	4.00	645	1.1	112/100	B5/B14
	40	35.0	3.00	636	1.1	112/100/90	B5/B14*
	50	28.0	3.00	764	0.9	112/100/90	B5/B14*
	60	23.3	2.20	645	1.0	112/100/90	B5/B14*
	80	17.5	1.50	546	0.9	90	B5/B14*
	100	14.0	1.10	470	1.0	90	B5/B14*

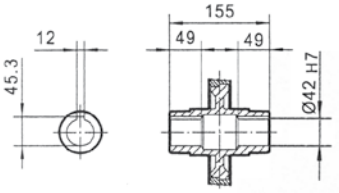
* 90 only B5

DIMENSIONS

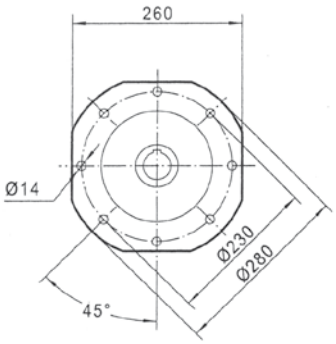


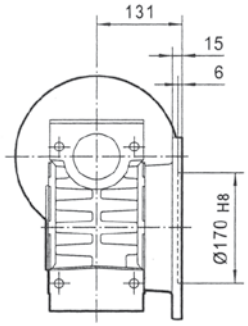




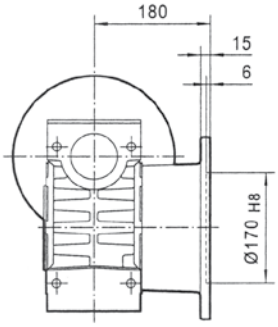


E





FA



FB

PAM IEC	P	DE8	b	t
132B5	300	38	10	41.3
112B5	250	28	8	31.3
100B5	250	28	8	31.3
90B5	200	24	8	27.3
80B5	200	19	6	21.8

PAM IEC	P	DE8	b	t
132B14	200	38	10	41.3
112B14	160	28	8	31.3
100B14	160	28	8	31.3

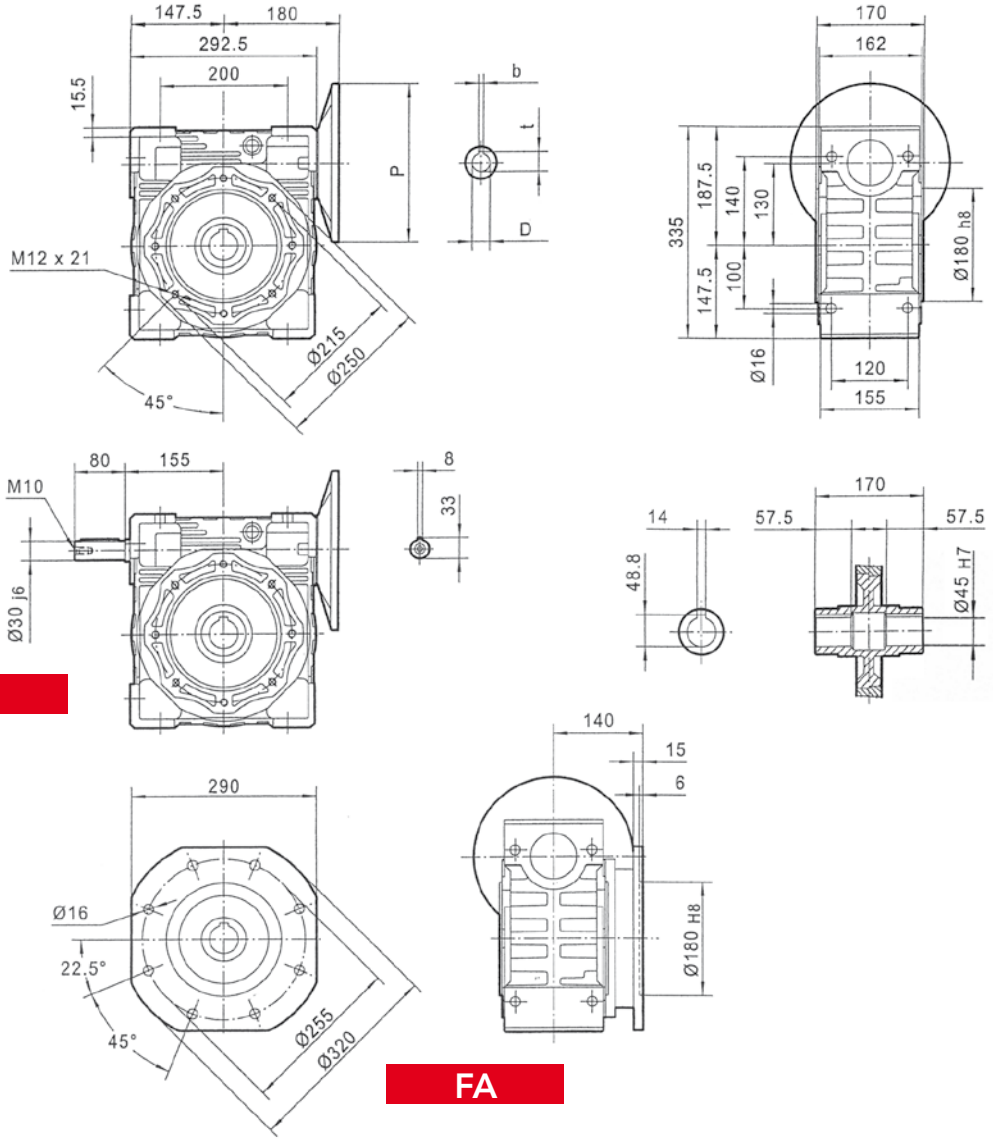
Weight 35 Kg excluding motor

CHM 130 - PERFORMANCE WITH 4-POLE MOTORS 1400 REVS. INPUT

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2	f.s.	Possible types of motor connections	
CHM 130	7.5	186.7	7.50	348	2.2	132	B5/B14
	10	140.0	7.50	455	1.8	132	B5/B14
	15	93.3	7.50	660	1.2	132	B5/B14
	20	70.0	7.50	877	1.0	132	B5/B14
	25	56.0	7.50	1071	0.9	132	B5/B14
	30	46.7	7.50	1225	0.8	132/112/100	B5/B14
	40	35.0	5.50	1173	0.9	132/112/100	B5/B14
	50	28.0	4.00	1023	0.9	100	B5/B14
	60	23.3	3.00	886	1.1	100	B5/B14
	80	17.5	3.00	1112	0.8	100/90	B5/B14*
	100	14.0	1.50	652	1.1	100/90	B5/B14*

* 90 only B5

DIMENSIONS



PAM IEC	P	DE8	b	t
132B5	300	38	10	41.3
112B5	250	28	8	31.3
100B5	250	28	8	31.3
90B5	200	24	8	27.3

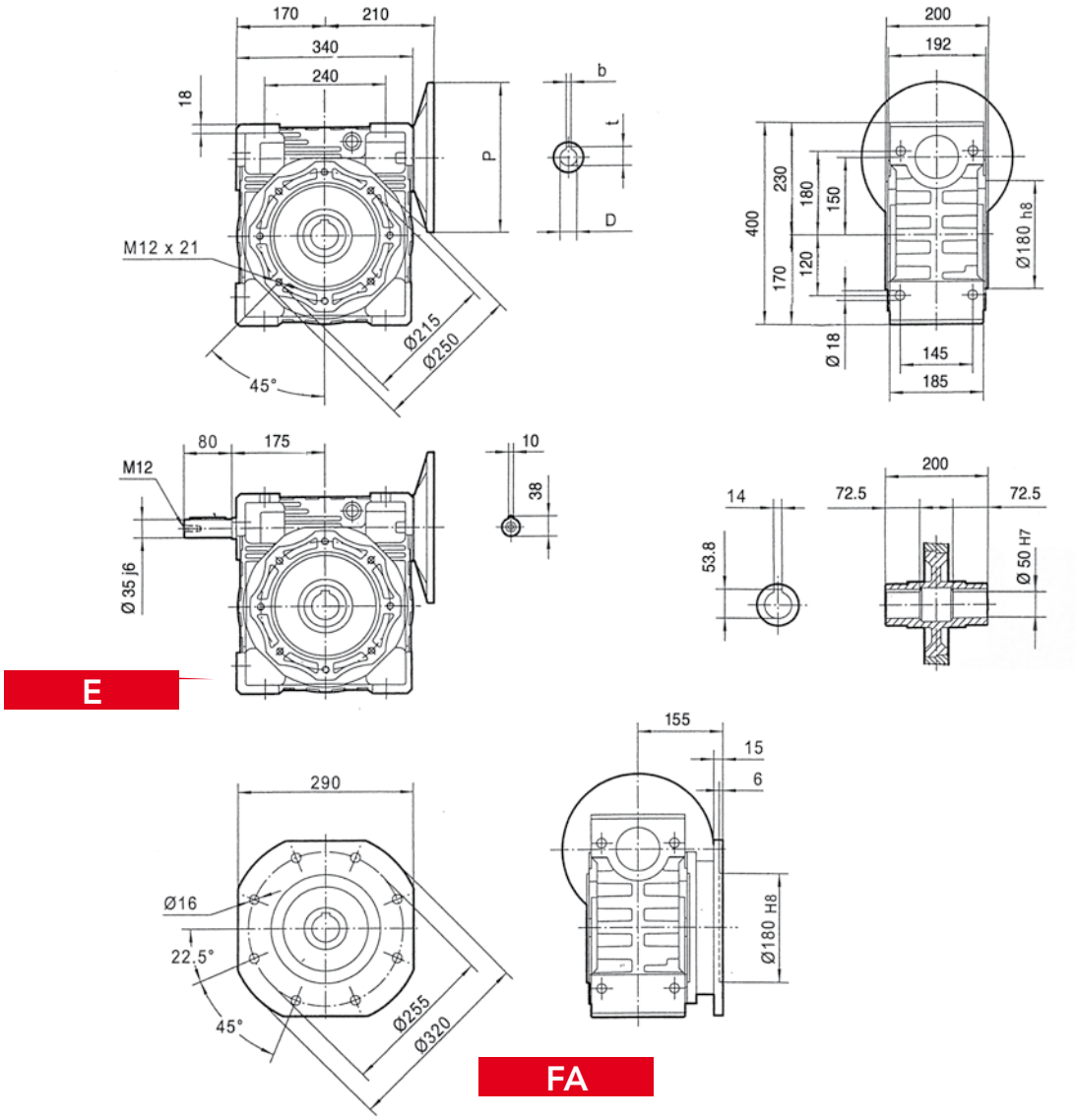
PAM IEC	P	DE8	b	t
132B14	200	38	10	41.3
112B14	160	28	8	31.3
100B14	160	28	8	31.3

Weight 48 Kg excluding motor

CHM 150 - PERFORMANCE WITH 4-POLE MOTORS 1400 REVS. INPUT

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2	f.s.	Possible types of motor connections	
CHM 150	7.5	186.7	15	680	1.6	160	B5
	10	140.0	15	905	1.2	160	B5
	15	93.3	15	1310	0.9	160	B5
	20	70.0	11	1270	1.0	160	B5
	25	56.0	11	1520	0.8	160	B5
	30	46.7	7.50	1240	0.8	132	B5
	40	35.0	7.50	1560	0.9	132	B5
	50	28.0	5.50	1405	0.9	132	B5
	60	23.3	5.50	1610	0.8	132	B5
	80	17.5	4	1430	0.8	112/100	B5
	100	14.0	3	1300	0.8	112/100	B5

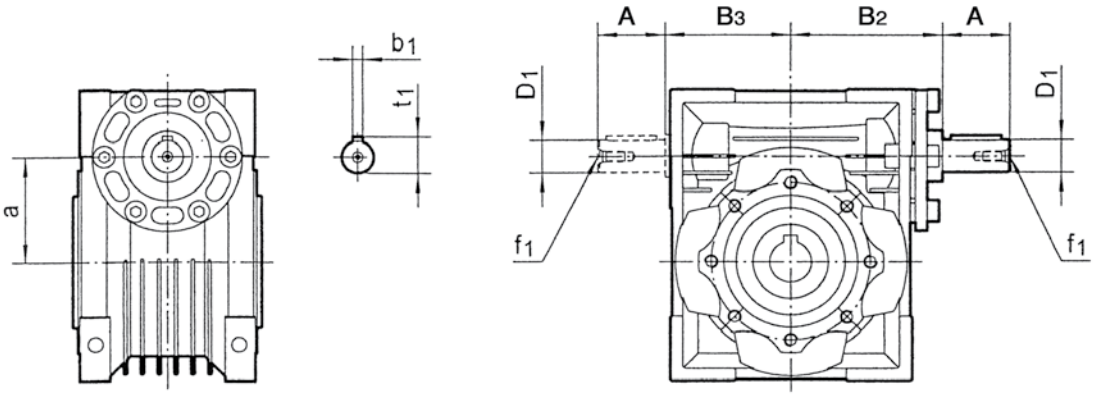
DIMENSIONS



PAM IEC	P	DE8	b	t
160B5	350	42	12	45.3
132B5	300	38	10	41.3
112B5	250	28	8	31.3
100B5	250	28	8	31.3

Weight 84 Kg excluding motor

CHMR	030	040	050	063	075	090	110	130	150
A	20	23	30	40	50	50	60	80	80
D1 j6	9	11	14	19	24	24	28	30	35
B2	51	60	74	90	105	125	142	162	195
B3	45	53	64	75	90	108	135	155	175
a	30	40	50	63	75	90	110	130	150
b1	3	4	5	6	8	8	8	8	10
f1	-	-	M6	M6	M8	M8	M10	M10	M12
t1	10.2	12.5	16	21.5	27	27	31	33	38



For the missing dimensions, please refer to the CHM correspondent

2D and 3D drawings available on the web site ***www.chiaravalli.com***
Quantity, availability and prices with Chiaravalli B2B

DESIGNATION CHPC/CHM - CHME

TYPE	SIZE	i =	M.M.F.	MOUNT. POS
CHPC	63	3	63B5	If supplied coupled with CHM or CHME types specify
	71	3	71B5	the position of these, when the pre-stage module
	80	3	80B5	is supplied by itself it is prepared for
	90	2.45	90B5	universal assembly.

ORDER EXAMPLE FOR A CHPC COUPLED TO A CHM OR CHME GEAR

CHPC	**90**	**CHM**	**110**	**i=245 (2.45x100)**	**M.M.F.**	**90B5**	**POS. B3**

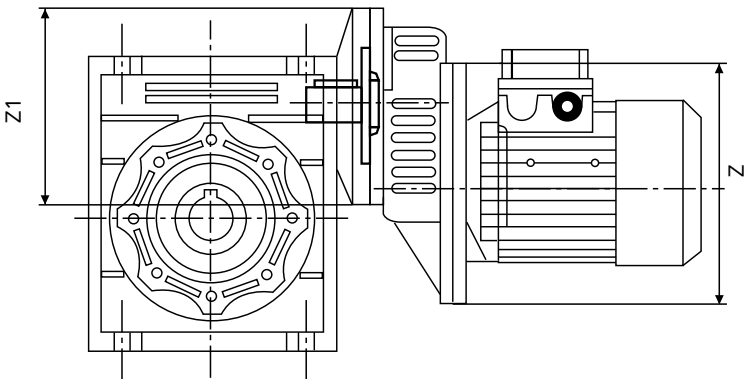
If the motor is also required, please specify:

Size	es. 90 L4
Power	es. Kw 1.5
Poles	es. 4
Voltage	es. V230/400
Frequency	es. 50 Hz
Flange	es. B5

N.B. From size 25 to 63 the gears are always supplied in the Universal position and can therefore be mounted in any position, from size 75 to size 130 if the position required differs from B3 it must be specified.
In particular, in the event that a gear in position B3 is to be mounted in positions V5 or V6, the bearing positioned in the upper side must be lubricated using suitable grease that ensures proper lubrication.
We have tested Tecnolubeseal POLYMER 400/2 grease.

	Z	Z1
CHPC 63	11/140	11/105
CHPC 71	14/160	14/120
CHPC 80	19/200	19/160
CHPC 90	24/200	24/160

ATTENZIONE: The gearbox connected with the pre-stage must have input dimension Z1



CHPC/CHM - PERFORMANCE WITH 4-POLE MOTORS 1400 REVS. INPUT

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2
CHPC63 CHM040	90	15.6	0.18	61
	120	11.7	0.18	52
	150	9.3	0.18	46
	180	7.8	0.18	46
	240	5.8	0.18	40
	300	4.7	0.18	36

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2
CHPC71 CHM075	90	15.6	0.37	153
	120	11.7	0.37	190
	150	9.3	0.37	220
	180	7.8	0.37	236
	180	7.8	0.25	159
	240	5.8	0.25	208
	300	4.7	0.25	210

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2
CHPC63 CHM050	90	15.6	0.18	69
	120	11.7	0.18	85
	150	9.3	0.18	89
	180	7.8	0.18	88
	240	5.8	0.18	76
	300	4.7	0.18	65

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2
CHPC80 CHM075	90	15.6	0.75	307
	120	11.7	0.55	278
	150	9.3	0.55	260

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2
CHPC71 CHM050	90	15.6	0.25	97
	120	11.7	0.25	110
	150	9.3	0.25	112

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2
CHPC71 CHM090	180	7.8	0.37	260
	240	5.8	0.37	320
	300	4.7	0.37	345

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2
CHPC63 CHM063	150	9.3	0.18	101
	180	7.8	0.18	115
	240	5.8	0.18	136
	300	4.7	0.18	121

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2
CHPC80 CHM090	90	15.6	0.75	320
	120	11.7	0.75	397
	150	9.3	0.75	426
	180	7.8	0.75	425
	240	5.8	0.55	374

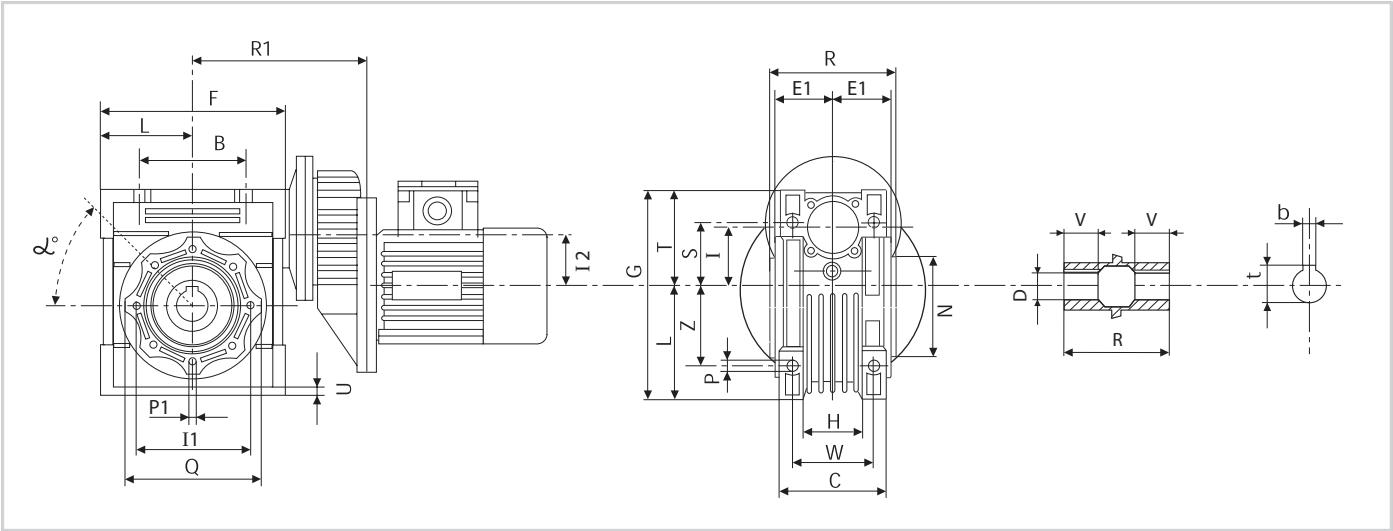
TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2
CHPC71 CHM063	90	15.6	0.37	145
	90	15.6	0.25	98
	120	11.7	0.37	184
	120	11.7	0.25	124
	150	9.3	0.37	192
	150	9.3	0.25	129
	180	7.8	0.25	164
	240	5.8	0.25	139
	300	4.7	0.25	128

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2
CHPC80 CHM110	120	11.7	0.75	421
	150	9.3	0.75	496
	180	7.8	0.75	569
	240	5.8	0.75	617
	300	4.7	0.55	585

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2
CHPC90 CHM110	98	14.3	1.50	679
	122.5	11.4	1.50	801
	147	9.5	1.50	810
	147	9.5	1.10	595
	196	7.1	1.10	660

TYPE	i=ratio	n2 r/min	Kw=P1	Nm=T2
CHPC90 CHM130	98	14.3	1.50	679
	122.5	11.4	1.50	813
	147	9.5	1.50	917
	196	7.1	1.50	1013
	245	5.7	1.10	848

The choice of power installed is tied to the unification of the motors, therefore it is sometimes in exuberance compared to the gear; always verify the maximum torque indicated when making the selection and if in doubt please contact our technical office.



CHPC CHM	B	F	D(H7)	G	H	R1	R	L	I	I2	C	I1	N(h8)	E1	P	Q	S	T
63+040	70	100	18	121.5	43	117	78	50	40	40	71	75	60	36.5	6.5	87	55	71.5
63+050	80	120	25	144	49	127	92	60	50	40	85	85	70	43.5	8.5	100	64	84
71+050	80	120	25	144	49	135	92	60	50	50	85	85	70	43.5	8.5	100	64	84
63+063	100	144	25	174	67	142	112	72	63	40	103	95	80	53	8.5	110	80	102
71+063	100	144	25	174	67	150	112	72	63	50	103	95	80	53	8.5	110	80	102
71+075	120	172	28	205	72	167,5	120	86	75	50	112	115	95	57	11	140	93	119
80+075	120	172	28	205	72	187,5	120	86	75	63	112	115	95	57	11	140	93	119
71+090	140	208	35	238	74	184,5	140	103	90	50	130	130	110	67	13	160	102	135
80+090	140	208	35	238	74	204,5	140	103	90	63	130	130	110	67	13	160	102	135
80(90)+110	170	252.5	42	295	-	235	155	127.5	110	63	144	165	130	74	14	200	125	167.5
80(90)+130	200	292.5	45	335	-	255	170	147.5	130	63	155	215	180	81	16	250	140	187.5

CHPC CHM	U	V	Z	W	P1	α	b	t	Weight in kg. excluding motor
63+040	6.5	26	35	60	M6x8n.4	45°	6	20.8	3.9
63+050	7	30	40	70	M8x10n.4	45°	8	28.3	5.2
71+050	7	30	40	70	M8x10n.4	45°	8	28.3	5.8
63+063	8	36	50	85	M8x14n.8	45°	8	28.3	7.9
71+063	8	36	50	85	M8x14n.8	45°	8	28.3	8.5
71+075	10	40	60	90	M8x14n.8	45°	8	31.3	11
80+075	10	40	60	90	M8x14n.8	45°	8	31.3	12.6
71+090	11	45	70	100	M10x18n.8	45°	10	38.3	14.3
80+090	11	45	70	100	M10x18n.8	45°	10	38.3	16.2
80(90)+110	14	50	85	115	M10x18n.8	45°	12	45.3	39
80(90)+130	15	60	100	120	M12x21n.8	45°	14	48.8	67.2

N.B. For the side flange and double extended input worm dimensions see the corresponding size of the CHM series. See pages 34 and 35.

*2D and 3D drawings available on the web site **www.chiaravalli.com***
Quantity, availability and prices with Chiaravalli B2B