

DATASHEET

HMG & CMG PRO HYDRAULIC MAGNET GENERATOR





HMG & CMG PRO HYDRAULIC MAGNET GENERATOR TABLE OF CONTENTS

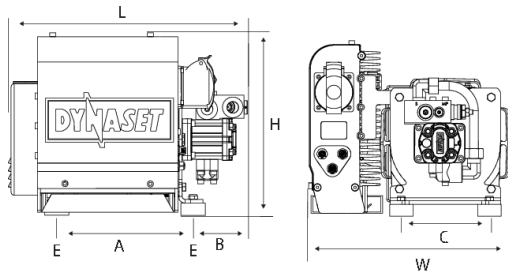
v.2.0 06/2023 WNu

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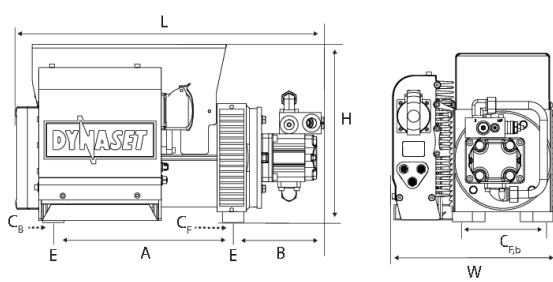
1. HMG PRO

1.1 DIMENSIONS

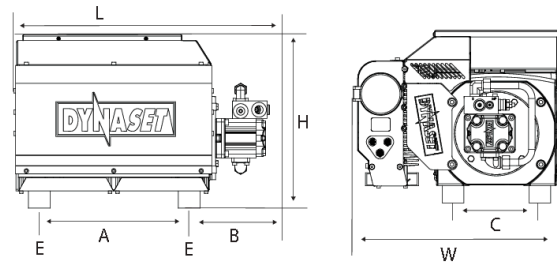
HMG 3KW



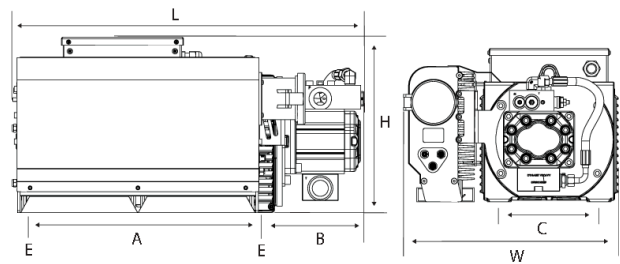
HMG 6KW & HMG 10KW



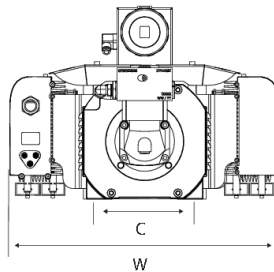
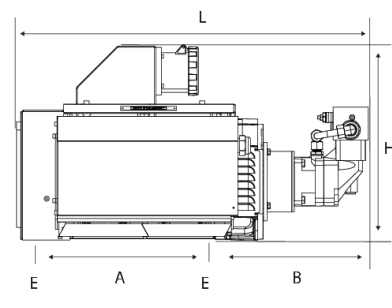
HMG 15KW



HMG 20KW



HMG 30KW & HMG 40KW



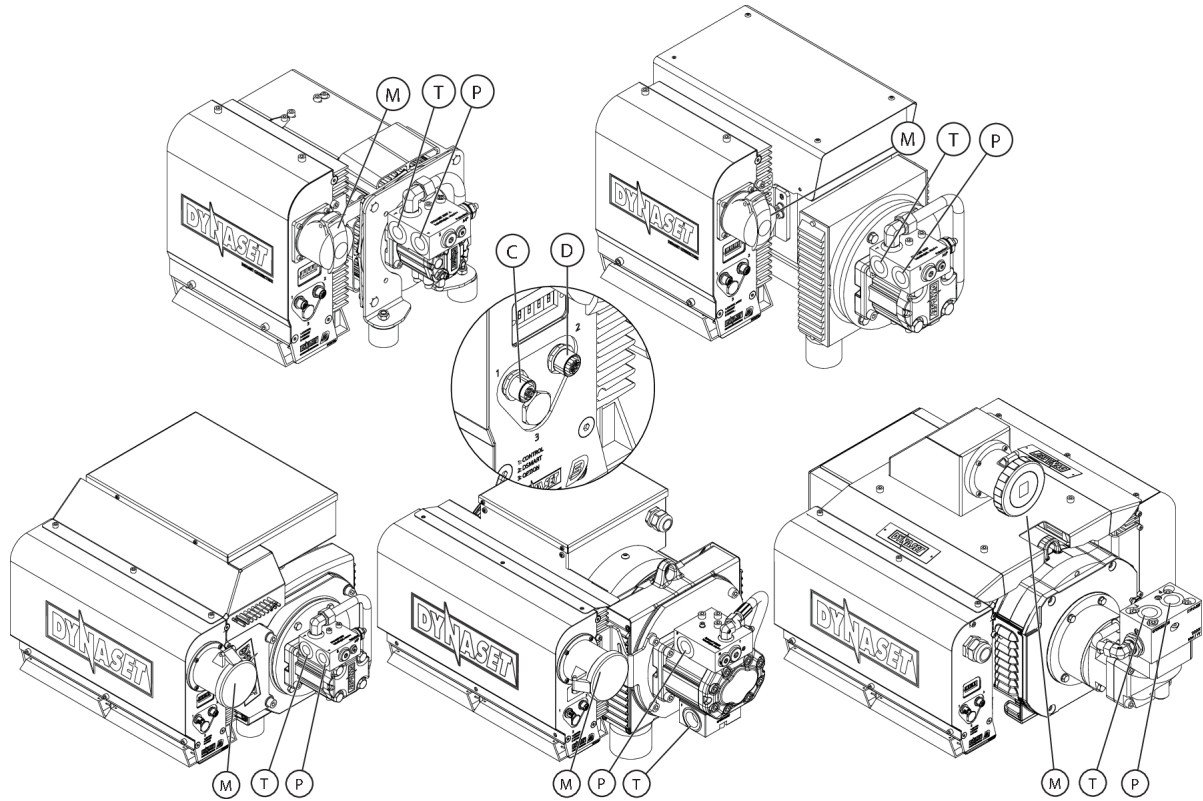


HMG & CMG PRO HYDRAULIC MAGNET GENERATOR HMG PRO

Model	Dimensions, mm (in)									Weight
	L	W	H	A	B	C	CF	CB	E	kg (lbs)
HMG PRO 3kW-18	392 (15.4)	342 (13.5)	298 (11.7)	223.5 (8.8)	89 (3.5)	150 (5.9)	()	()	8 (0.3)	34 (75)
HMG PRO 6kW-30	522 (20.6)	325 (12.8)	336 (13.2)	282 (11.1)	169 (6.7)	()	160 (6.3)	110 (4.3)	10 (0.4)	52 (115)
HMG PRO 10kW-41	580 (22.8)	325 (12.8)	336 (13.2)	338 (13.3)	171 (6.7)	()	160 (6.3)	110 (4.3)	10 (0.4)	74 (163)
HMG PRO 15kW-64	585 (23.0)	451 (17.8)	389 (15.3)	343 (13.5)	184 (7.2)	200 (7.9)	()	()	10 (0.4)	76 (168)
HMG PRO 20kW-95	652 (25.7)	456 (18.0)	375 (14.8)	390 (15.4)	193 (7.6)	220 (8.7)	()	()	12 (0.5)	114 (252)
HMG PRO 30kW-108	850 (33.5)	660 (26.0)	523 (20.6)	482 (19.0)	304 (12.0)	220 (8.7)	()	()	12 (0.5)	190 (419)
HMG PRO 40kW-108	850 (33.5)	660 (26.0)	523 (20.6)	482 (19.0)	304 (12.0)	220 (8.7)	()	()	12 (0.5)	190 (419)

Notice! Measurements may change if optional accessories are installed.

1.2 CONNECTIONS



Model	Pressure line, P	Return line, T	Magnet cable connection, M	Control Connection, C	Dsmart Connection, D
			mm ²		
HMG PRO 3kW-18	BSPP 1/2	BSPP 1/2	3x2.5	M12	M12
HMG PRO 6kW-30	BSPP 1/2	BSPP 1/2	5x2.5	M12	M12
HMG PRO 10kW-41	BSPP 1/2	BSPP 1/2	5x2.5	M12	M12
HMG PRO 15kW-64	BSPP 1/2	BSPP 1/2	5x6	M12	M12
HMG PRO 20kW-95	BSPP 3/4	BSPP 1	5x6	M12	M12
HMG PRO 30kW-108	BSPP 1	BSPP 1	5x10	M12	M12
HMG PRO 40kW-108	BSPP 1	BSPP 1	5x16	M12	M12



HMG & CMG PRO HYDRAULIC MAGNET GENERATOR

HMG PRO

1.3 TECHNICAL SPECIFICATIONS

		HMG PRO 3kW-18	HMG PRO 6kW-30	HMG PRO 10kW-41	HMG PRO 15kW-64	HMG PRO 20kW-95	HMG PRO 30kW-108	HMG PRO 40kW-108
OUTPUT CHARACTERISTICS								
Generator Power max.	kW	3	6	10	15	20	30	40
Magnet coil power max.	kW	0.5-3	0.5-5.5	1.0-9.1	14.5-	19.5-	29.5-	39.5-
Magnet coil resistance (20 °C)	Ohm	15-100	8.8-100	5.4-100	3.6-50	2.6-50	-	-
Magnet Operating voltage	V	220	220	220	220	220	220	220
IP		23	23	23	23	23	23	23
HYDRAULIC POWER REQUIREMENTS								
Flow min.	l/min (gpm)	21 (5.55)	32 (8.45)	44 (11.62)	68 (17.97)	100 (26.42)	112 (29.59)	112 (29.59)
Flow max.	l/min (gpm)	31 (8.19)	48 (12.68)	69 (18.23)	102 (26.95)	150 (39.63)	168 (44.39)	168 (44.39)
Pressure at nominal power output	bar (psi)	200 (2,901)	160 (2,321)	215 (3,118)	230 (3,336)	180 (2,611)	230 (3,336)	300 (4,351)
Pressure max.	bar (psi)	210 (3,046)	210 (3,046)	250 (3,626)	260 (3,771)	210 (3,046)	350 (5,076)	350 (5,076)
Pressure when unloaded	bar (psi)	30 (435)	30 (435)	30 (435)	25 (363)	30 (435)	30 (435)	30 (435)
Return line pressure max.	bar (psi)	5 (73)	5 (73)	5 (73)	5 (73)	5 (73)	5 (73)	5 (73)
HYDRAULIC FLUID REQUIREMENTS								
Viscosity (Range / Optimum)	cSt	10-200 / 25-35	10-200 / 25-35	10-200 / 25-35	10-200 / 25-35	10-200 / 25-35	10-200 / 25-35	10-200 / 25-35
Temperature max.	°C(°F)	70 (158)	70 (158)	70 (158)	70 (158)	70 (158)	70 (158)	70 (158)
Filter ratio	µm	25	25	25	25	25	25	25
Cooling capacity requirements	KW	1.4	2.4	3.1	3.9	4.5	10	12
Gallons are U.S. liquid gallons								

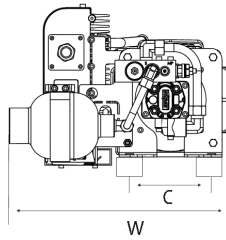
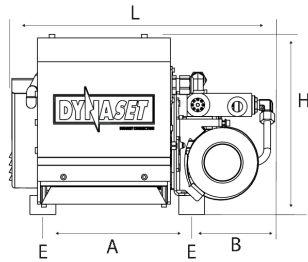


HMG & CMG PRO HYDRAULIC MAGNET GENERATOR
HMG PRO

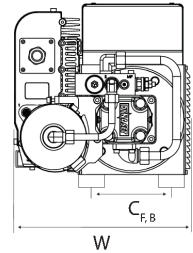
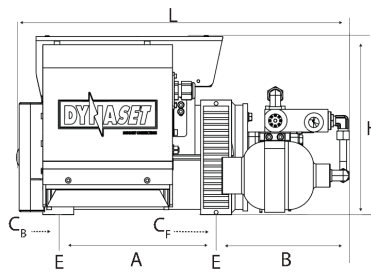
2. CMG PRO

2.1 DIMENSIONS

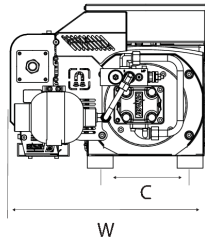
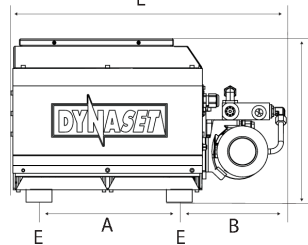
CMG 3KW



CMG 6KW & 10KW



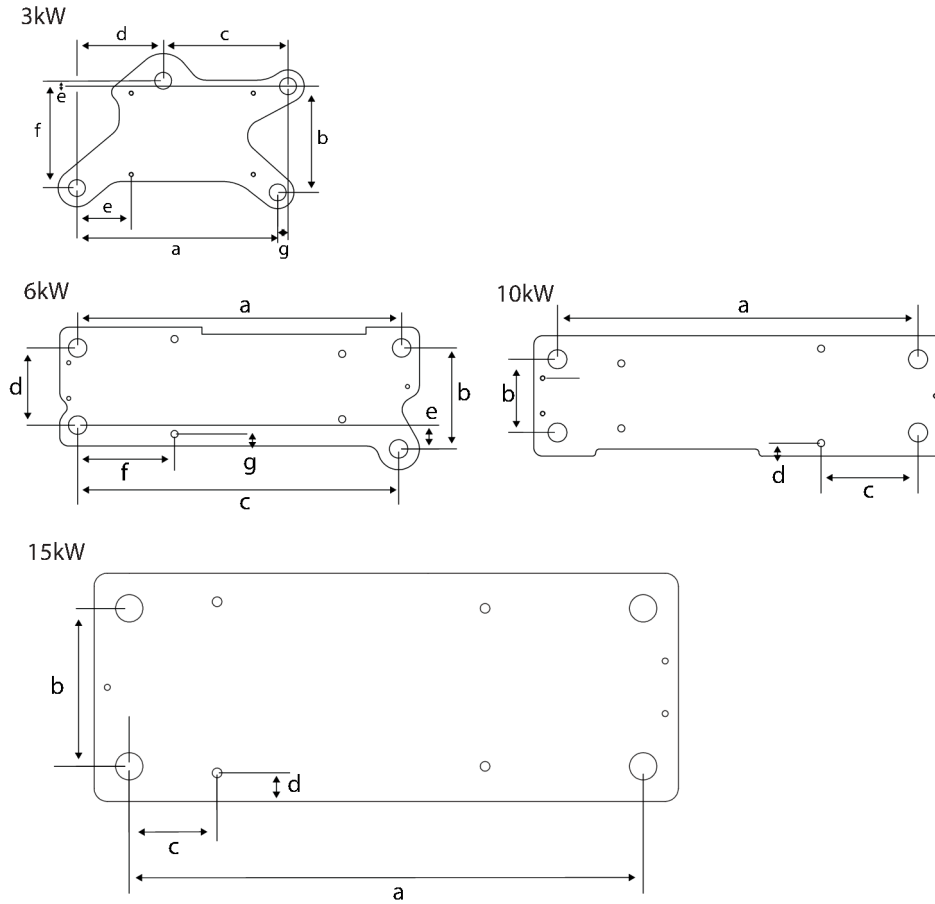
CMG 15KW



Model	Dimensions, mm (in)									Weight kg (lbs)
	L	W	H	A	B	C	CF	CB	E	
CMG PRO 3kW-18	459 (18.1)	407 (16.0)	298 (11.7)	223.5 (8.8)	89 (3.5)	150 (5.9)	()	()	8 (0.3)	34 (75)
CMG PRO 6kW-30	587 (23.1)	325 (12.8)	336 (13.2)	282 (11.1)	169 (6.7)	()	160 (6.3)	110 (4.3)	8 (0.3)	58 (128)
CMG PRO 10kW-41	650 (25.6)	325 (12.8)	336 (13.2)	338 (13.3)	171 (6.7)	()	160 (6.3)	110 (4.3)	8 (0.3)	74 (163)
CMG PRO 15kW-64	680 (26.8)	446 (17.6)	354 (13.9)	343 (13.5)	184 (7.2)	200 (7.9)	()	()	10 (0.4)	145 (320)

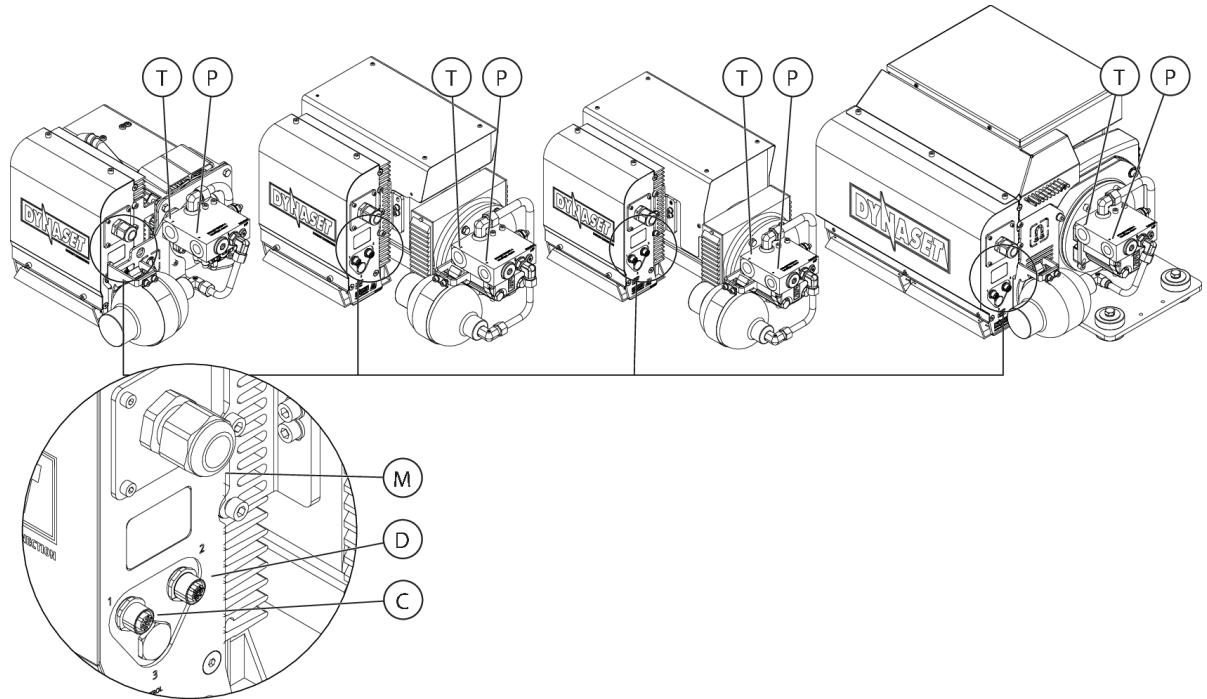
Notice! Measurements may change if optional accessories are installed.

2.2 ATTACHMENT PLATE



Model	Dimensions, mm (in)						
	a	b	c	d	e	f	g
CMG PRO 3kW-18	370 (14.6)	196 (7.7)	230 (9.1)	159 (6.3)	10 (0.4)	100.5 (4.0)	19 (0.7)
CMG PRO 6kW-30	545 (21.5)	170 (6.7)	540 (21.3)	130 (5.1)	40 (1.6)	163 (6.4)	20 (0.8)
CMG PRO 10kW-41	610 (24.0)	124 (4.9)	164 (6.5)	22 (0.9)	()	()	()
CMG PRO 15kW-64	585 (23.0)	180 (7.1)	65 (2.6)	30 (1.2)	()	()	()

2.3 CONNECTIONS



Model	Pressure line, P	Return line, T	Magnet cable connection, M	Dsmart Connection, D
			mm²	
CMG PRO 3kW-18	BSPP 3/4	BSPP 3/4	3x2.5	M12
CMG PRO 6kW-30	BSPP 3/4	BSPP 3/4	5x2.5	M12
CMG PRO 10kW-41	BSPP 3/4	BSPP 3/4	5x2.5	M12
CMG PRO 15kW-64	BSPP 3/4	BSPP 3/4	5x6	M12

2.4 TECHNICAL SPECIFICATIONS

		CMG PRO 3kW-18	CMG PRO 6kW-30	CMG PRO 10kW-41	CMG PRO 15kW-64
OUTPUT CHARACTERISTICS					
Generator Power max.	kW	3	6	10	15
Magnet coil power max.	kW	0.5-3	0.5-5.5	1.0-9.1	14.5-
Magnet coil resistance (20 °C)	Ohm	15-100	8.8-100	5.4-100	3.6-50
Magnet Operating voltage	V	220	220	220	220
IP		23	23	23	23
HYDRAULIC POWER REQUIREMENTS					
Flow min.	l/min (gpm)	21 (5.55)	32 (8.45)	44 (11.62)	68 (17.97)
Flow max.	l/min (gpm)	31 (8.19)	48 (12.68)	69 (18.23)	102 (26.95)
Pressure at nominal power output	bar (psi)	200 (2,901)	160 (2,321)	215 (3,118)	230 (3,336)
Pressure max.	bar (psi)	350 (5,076)	350 (5,076)	350 (5,076)	260 (3,771)
Pressure when unloaded	bar (psi)	30 (435)	30 (435)	30 (435)	25 (363)
Return line pressure max.	bar (psi)	50 (725)	50 (725)	50 (725)	50 (725)
HYDRAULIC FLUID REQUIREMENTS					
Viscosity	cSt	10-200/ 25-35	10-200/ 25-35	10-200/ 25-35	10-200/ 25-35
Temperature max.	°C(°F)	70 (158)	70 (158)	70 (158)	70 (158)
Filter ratio	µm	25	25	25	25
Cooling capacity requirements	KW	1.4	2.4	3.1	3.9
Gallons are U.S. liquid gallons					



**HMG & CMG PRO HYDRAULIC MAGNET GENERATOR
CMG PRO**



POWERED BY HYDRAULICS

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ELECTRICITY

HG Hydraulic Generator
HGV POWER BOX Variable Hydraulic
Generator System
HGV Variable Hydraulic Generator System
HWG Hydraulic Welding Generator
HGG Hydraulic Ground Power Generator



HIGH PRESSURE WATER

HPW Hydraulic High Pressure Water Pump
HPW Hydraulic Power Washer
KPL High Pressure Street Washing Unit
KPL-WEED Weed Killing Unit
SCU Surface Cleaning Unit
HPW-DUST High Pressure Dust Suppression
System
PPL High Pressure Pipe Cleaning Unit
HPW-FIRE High Pressure Firefighting System
FP Fire Fighting Piercing Kit
HDF Hydraulic Drilling Fluid Pump
JPL High Pressure Bin Washing System
HSP Hydraulic Submersible Pump



COMPRESSED AIR

HK Hydraulic Piston Compressor
HKL Hydraulic Rotary Vane Compressor
HKR Hydraulic Screw Compressor



MAGNET POWER

HMG PRO Hydraulic Magnet Generator
MAG Lift Magnet
HMAG PRO Hydraulic Magnet



VIBRATION

HVB Hydraulic Vibration Pump
HVD Hydraulic Directional Vibra
HRC Hydraulic Reversal Cylinder



POWER BOOSTING

HPI Hydraulic Pressure Intensifier
HPI-C Hydraulic Pressure Intensifier for
Cylinder



VACUUM

HCF Hydraulic Centrifugal Fan
HRVB Hydraulic Recycling Vacuum Bucket



KNOW-HOW

Hydraulic Power Take-off (PTO)
Hydraulic Power Unit Technology
HEU Hydraulic Expansion Unit
HRU Hydraulic Rescue Units
De-Icing Technology
Installation Valves
HHK Hydraulic Grinder
HV/HVY Hydraulic Winch / Winch Unit

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