



HIGH PRESSURE SCREW COMPRESSOR

# GH-Series

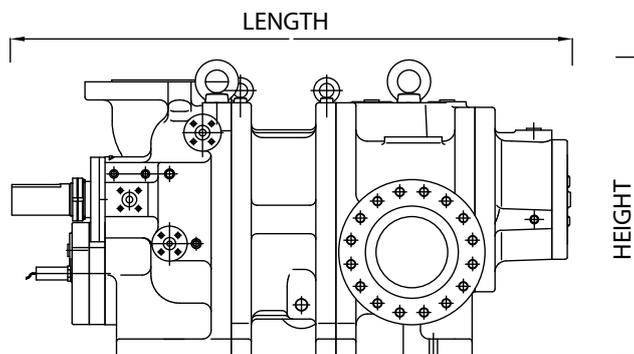
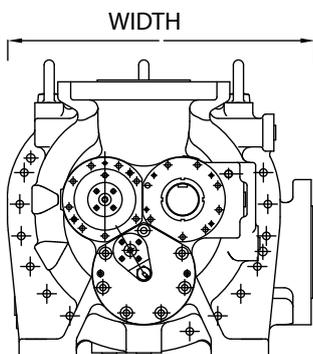


### The GH-series

is a series of oil injection type screw compressors capable of running continuously at a discharge pressure of 50 barG. By employing a special rotor profile the GH-series enables a highly efficient operation. The GH-series compressors are designed for various gases: Hydrocarbons, Helium, Hydrogen, CO<sub>2</sub>, NH<sub>3</sub> and others. Therefore these compressors are ideal for such applications as high pressure fuel gas supply to gas turbines, low temperature freezing systems on CO<sub>2</sub> with a defrost cycle, ammonia heat pumps, etc.

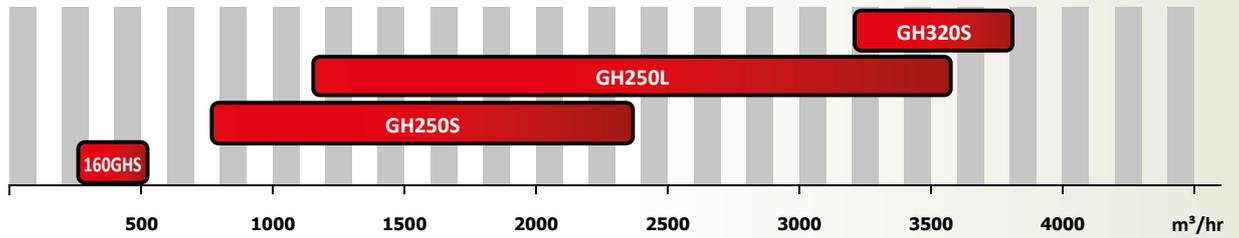
In the GH-series compressors we are using forged steel for the rotors and tilting pads for the thrust bearings<sup>1)</sup>, which results in longer maintenance intervals and, consequently, lower running costs. The GH-series compressors are compliant with API619, EN-378 ATEX, NACE and other standards and are being successfully applied in a great number of fields.

1) Excluded 160GHS



UNIT TYPE	WEIGHT (kg)	WIDTH (mm)	LENGTH (mm)	HEIGHT (mm)
160GHS	570	510	1021	510
GH250S	2250	785	1568	680
GH250L	2410	785	1711	680
GH320S	5000	1095	1938	970

Swept Volume  
V<sub>th</sub>



Item		Unit	Description			
Model			160GHS-V	GH250S	GH250L	GH320S
Handling Gas			CO <sub>2</sub> , NH <sub>3</sub>	CO <sub>2</sub> , Hydrocarbon, Helium, Hydrogen and other gases		
Design Running Condition	Maximum Suction Pressure	BarG	20	20	20	30
	Maximum Discharge Pressure	BarG	45	50	37	50
	Minimum Suction Gas Temperature	°C	-55	30		
	Maximum Discharge Gas Temperature	°C	100°C for setting rotor clearance			
Design Condition	Design Pressure of Casing	BarG	60			
	"Maximum Allowable Working Pressure"	BarG	50 <sup>1)</sup>	50		
	"Maximum Allowable Suction Pressure"	BarG	20 (start up: 25)	20	20	30
	Minimum Allowable Suction Pressure	BarG	5			
	Minimum Pressure Differential Between Suction and Discharge	BarG	9	12		5
	Maximum Allowable Discharge Temperature	°C	100			
	Maximum Drive Shaft Speed	rpm	3600	4500	4500	3600
	Minimum Drive Shaft Speed	rpm	1800	1450	1450	2950
Compressor Data	Rotor Profile	-	MYCOM Original			
	Numbre of lobes / Male Rotor	-	5			
	Numbre of lobes / Female Rotor	-	7			
	Vi Control Range	-	1.8, 4.6	2.3, 3.3, 4.5	1,3	1.3, 2.3, 3.3, 4.5

1). 50 BarG operation is limited to 20% of the total operating range.

•The table above is subject to change without notice..

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- 47 countries / 99 offices
- 11 production plants



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