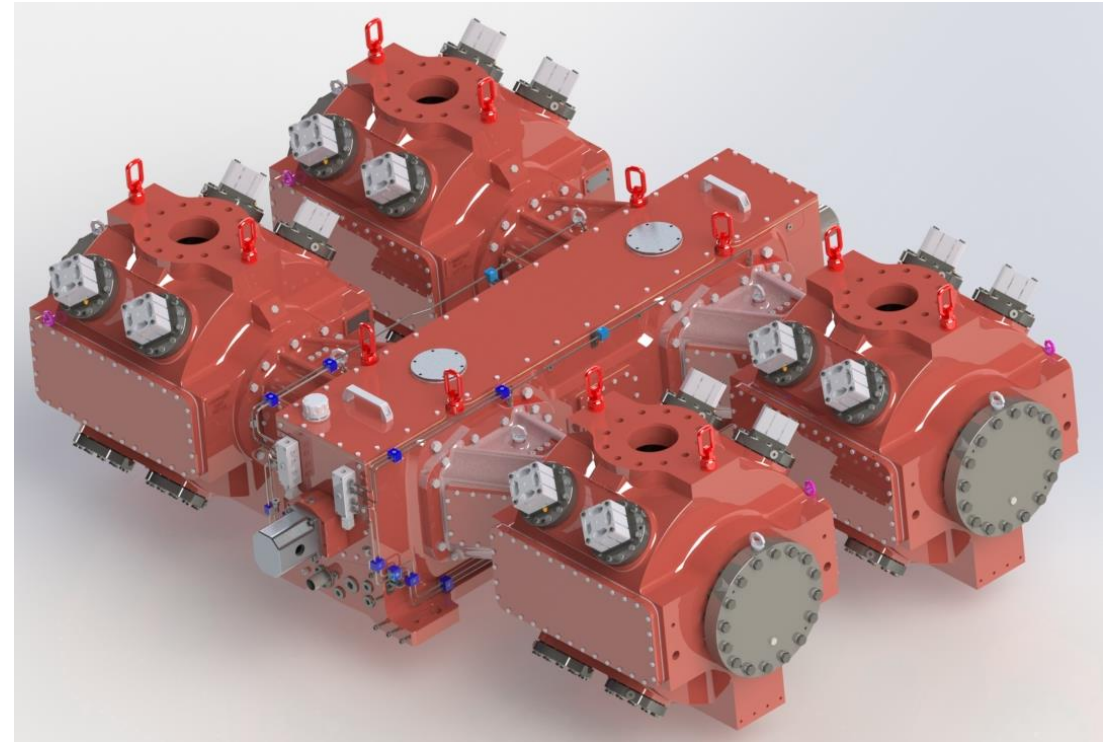


DA500

HORIZONTAL RECIPROCATING
COMPRESSOR FAMILY

PRODUCT INFORMATIONS



PRESENTATION INDEX

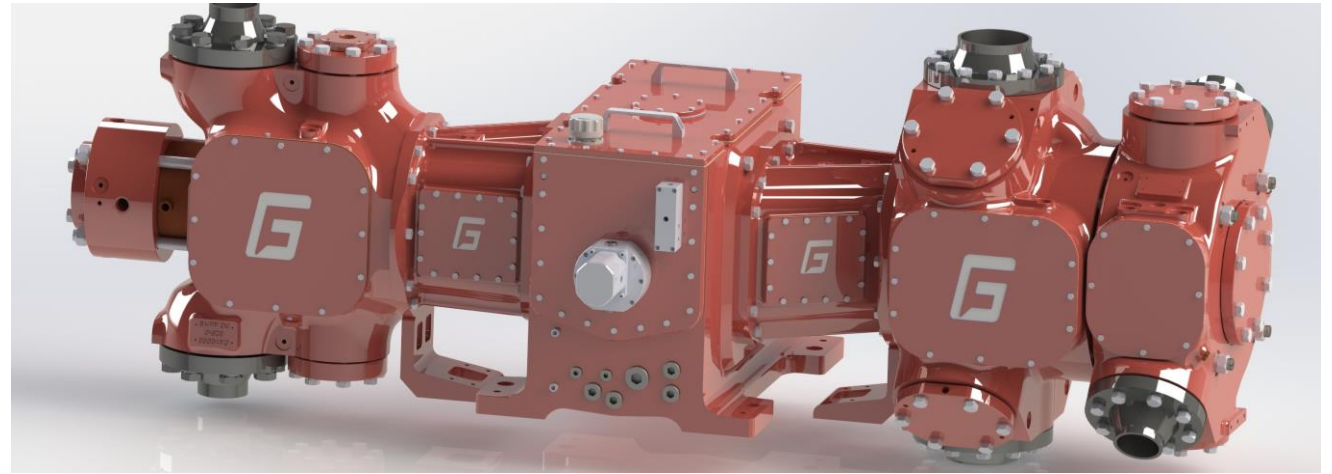
1. Main Technical features

2. Cylinder bore and MAWP

3. Main Construction materials

1. Main Technical features

- Reciprocating compressor with non lubricated and **OIL-FREE** cylinders
- Maximum power: 250 kW for each cylinder line
- Maximum gas load: 125 kN
- Stroke : 3 different strokes 80 mm; 90 mm; 110 mm;
- Maximum speed: 1500 rpm ÷ 1800 rpm
- Minimum speed : 750 rpm
- Configuration: Horizontal 2 or 4 cylinders
- Cylinder Cooling type: Water or Air cooler
- Distance piece : type “B” and “C” according to API 618
- Flow rate regulation: VFD,UN-Loader, VVCP , By-pass
- Compliance: API 618 –ISO 13631 with deviation
- Cylinders Bore: from 500 mm to 160/80 mm (tandem)
- MAWP: from 17,5 bar to 275 bar



Max speed Vs stroke

Speed	RPM	1800
Stroke	mm	80
Piston speed	m/s	4,8
Speed	RPM	1500
Stroke	mm	90
Piston speed	m/s	4,5
Speed	RPM	1500
Stroke	mm	110
Piston speed	m/s	5,5

2. Cylinder Bore and MAWP

	CILINDER	BORE [mm]	MAWP [bar]
DOUBLE ACTING	DE500	500	17,5
	DE450	450	17,5
	DE400	400	34,7
	DE350	350	34,7
	DE300	300	62,0
	DE260	260	62,0
	DE220	205	70,5
	DE185	185	100,0
	DE150	150	140,0
TANDEM	T370-190	370/190	22-48
	T240-140	240/140	62-143
	T160-80	160/80	143-275
	T160-80HP	160/80	209-275

ALL
POSSIBLE
BORES

- 500
- 490
- 480
- 470
- 460
- 450
- 440
- 430
- 420
- 410
- 400
- 390
- 380
- 370
- 360
- 350
- 340
- 330
- 320
- 310
- 300
- 290
- 280
- 270
- 260
- 250
- 240
- 230
- 220
- 205
- 185
- 170
- 150
- 135

3. Main construction materials

Description	Material
Cylinder	GJS400/Ductil cast Iron
Cylinder liner	42CrMo4
Piston	42CrMo4 or Al
Piston rings	PTFE
Piston Rod	42CrMo4
Valve seat and counter-disk	X30Cr13
Valve disk	PEEK
Crankshaft	42CrMo4
Connecting rod	42CrMo4
Main/Big end Bearings	Steel +bronze SAE 799
Crosshead /Slides	GJS400/Ductil cast Iron
Frame	GJS400/Ductil cast Iron
Seal rings	PTFE
Stuffing box	Stainles Steel
Distance piece	GJS400/Ductil cast Iron

