

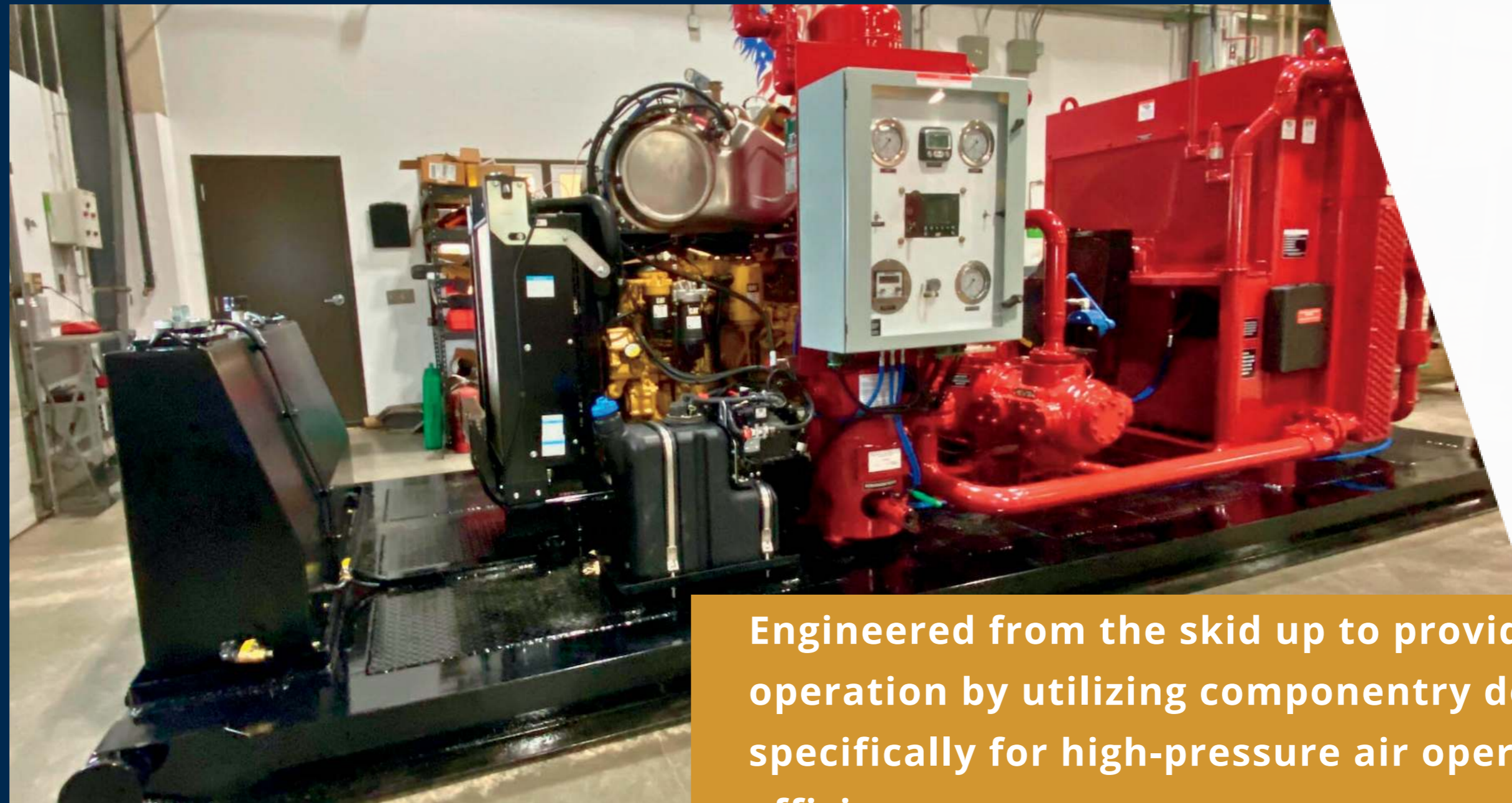


KEYSTONE ARIEL SINGLE-STAGE AIR BOOSTER^{CE}



A TRUSTED PARTNER

KEYSTONE ARIEL SINGLE-STAGE AIR BOOSTER



Engineered from the skid up to provide continuous duty operation by utilizing componentry designed specifically for high-pressure air operation and efficiency.

CATERPILLAR C7.1 EU STAGE V



- C7.1 ACERT EU STAGE V
- SPEED RATED(RPM) 1800
- BHP at Rated Speed 186kW (250bhp)
- FUEL/COOLING DIESEL/WATER

CATERPILLAR POWERED

CONSERVATIVE HORSEPOWER RATING

ARIEL JGQ-2 SINGLE-STAGE



- ARIEL JGQ-2
- SINGLE - STAGE HORIZONTAL OPPOSED
- RPM - 1800
- DOUBLE ACTING/JG
- STROKE 76.2mm

ARIEL 85.7MM (3.375")

Specifications on Keystone Ariel 85.7mm (3.375") Single-Stage Air Booster - Heavy Duty Skid

Booster	
Make	Ariel
Frame	JGQ-2
Type	Single Stage Horizontally Opposed
RPM (Maximum)	1800
Stroke - mm (in)	76.2 (3)

Left Cylinder (Throw #2)	
Cylinder Bore - mm (in)	85.7 (3.375)
Style	Double Acting / JG
MAWP - bar (psi)	88 (1270)
Cooling	Air

Right Cylinder (Throw #1)	
Cylinder Bore - mm (in)	85.7 (3.375)
Style	Double Acting / JG
MAWP - bar (psi)	88 (1270)
Cooling	Air

Coolers	
Construction	Steel Tube and Fin
Precooler MAWP - bar (psi)	47 (675)
Aftercooler MAWP - bar (psi)	88 (1270)
CE/PED Certified	
ASME Code Stamp and National Board Registered	

Scrubber Bottle	
Rated MAWP - bar (psi)	41 (600)
CE/PED Certified	
ASME Code Stamp and National Board Registered	

Engine	
Make	Caterpillar
Model	C7.1 ACERT EU Stage V
Speed Rated (rpm)	1800
Speed Idle (rpm)	1000
BHP @ Rated Speed - kW (bhp)	186 (250)
Fuel/Cooling	Diesel/Water
Electrical System (volts)	24
Fuel Tank (Day or Fuel)	Fuel Tank
Capacity - L (gal)	322 (85)
Starting System	Electric, 24V

Heavy Duty Skid Details	
(4) 203mm (8") Wide Flange Beams	
Cross Braced/Reinforced	
Top Plated - 3mm (1/8") Material	
Bottom Plated - 6mm (1/4") Material	

Approximate Unit Dimensions	
Overall Length - mm (in)	6248 (246)
Overall Width - mm (in)	2426 (95.5)
Overall Height - mm (in)	2286 (90)
Weight, Working - kg (lbs)	8165 (18000)

Miscellaneous	
Inlet Piping Size, NPT - mm (in)	51 (2)
Number of Piping Inlets	2
Disch. Piping Size, NPT- mm (in)	51 (2)
Number of Piping Outlets	1
Final Safety Relief Valve Set Pressure - bar (psi) (Booster M.A.W.P.)	86 (1250)

Unit Includes the Following Safety Shutdowns and Gauges:

Booster Shutdowns
High Discharge Temp, Each Cyl. - 160°C (320°F)
High Oil Temperature Shutdown - 88°C (190°F)
Low Oil Pressure Shutdown - 3.1 bar (45 psi)
Low Oil Level / No Oil Flow Shutdown
Booster Vibration Shutdown
Manual Liquid Drain on Scrubber Bottle

Booster Gauges
Suction Pressure
Discharge Pressure
Booster Oil Pressure
Booster Oil Temperature
Suction Temperature
Discharge Temperature* (Each Cylinder)
* Temperatures Displayed on Temp Scanner

Engine Shutdowns
Caterpillar ECM with Standard Shutdowns



Engine Gauges *
Voltmeter
Tachometer/Hour Meter
Engine Oil Pressure
Engine Water Temperature
* Displayed on Caterpillar Panel

Additional Comments

Booster Bypass Piping Included
All Piping Is 100% Hydrotested
Booster Oil Cooler and Thermostatic Valve Included
Manual Vent to Atmosphere Valve

Performance of Keystone Ariel 85.7mm (3.375") x 85.7mm (3.375") Air Booster

Engine RPM	Booster RPM	Suction Pressure	Disch. Pressure	Flow
1800	1800	31 bar (450 psi)	55 bar (800 psi)	74 m ³ /m (2853 cfm)
1800	1800	31 bar (450 psi)	62 bar (900 psi)	71 m ³ /m (2516 cfm)
1800	1800	31 bar (450 psi)	69 bar (1000 psi)	69 m ³ /m (2427 cfm)
1800	1800	31 bar (450 psi)	76 bar (1100 psi)	66 m ³ /m (2339 cfm)

Booster Rated Discharge Pressure (RDP) = 79 bar (1,150 psi)



EFFICIENT COOLING SYSTEM:

Advanced cooling mechanisms maintain optimal operating temperatures during prolonged use, preventing overheating, and ensuring consistent performance.





DIGITAL CONTROL PANEL:

User-friendly digital control panel for easy monitoring of equipment parameters, allowing precise adjustments and enhancing overall control.

SAFETY FEATURES:



- Final safety relief valve set
- Manual Vent to atmosphere
- Caterpillar ECM standard shutdown



Integrated safety mechanisms, such as pressure relief valves and automatic shut-off, prevent over-pressurization and enhance user safety.

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