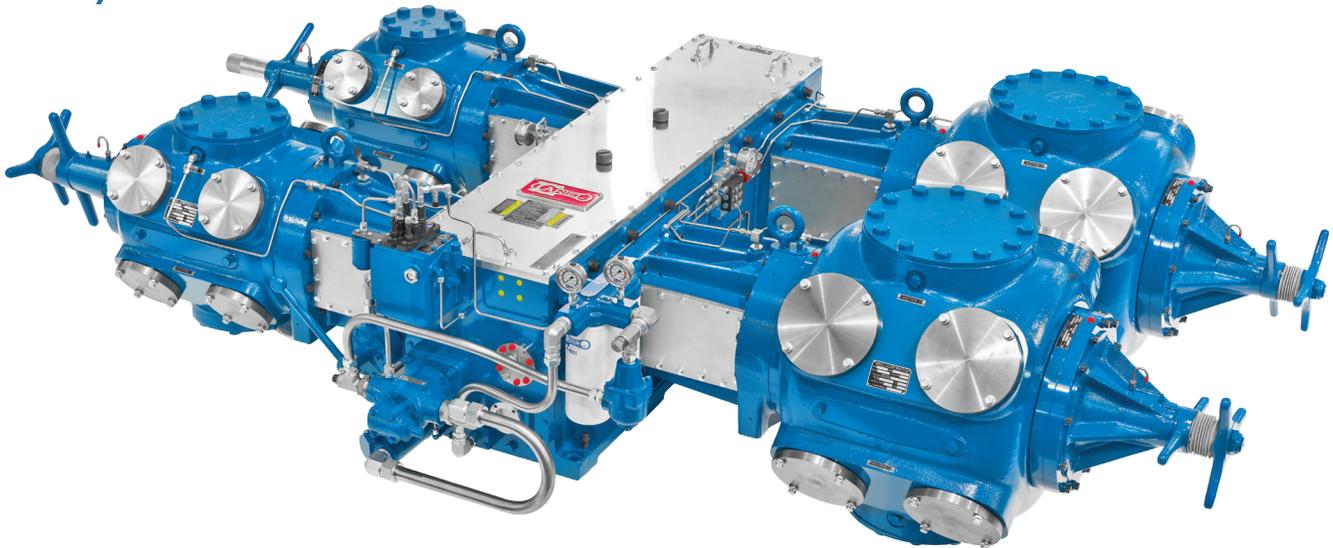


# ARIEL CORPORATION

## JGR/JGJ



WORLD STANDARD  
COMPRESSORS



	JGR		JGJ		
Number of Throws	2	4	2	4	6
Rated Power (BHP)	430	860	620	1240	1860
Rated Power (kW)	321	641	462	925	1387
Stroke (in)	4.25		3.5		
Stroke (mm)	108		89		
Maximum RPM	1,200		1,800		
Piston Speed (FPM)	850		1,050		
Piston Speed (m/s)	4.32		5.33		
Total Rod Load (lbs)	32,000		42,000		
Total Rod Load (kN)	142		187		
Rod Load Tension (lbs)	16,000		21,000		
Rod Load Tension (kN)	71		93		
Rod Load Compression (lbs)	20,000		23,000		
Road Load Compression (kN)	89		102		
Rod Diameter (in)	1.5				
Rod Diameter (mm)	38				
Crankshaft Centerline, from bottom (in)	12				
Crankshaft Centerline, from bottom (mm)	305				

# FEATURES

The JGR and JGJ are medium-size separable reciprocating compressors, well-suited for gas gathering on moderate-sized wells. These models are particularly effective for fuel-boosting applications and are packager-friendly, pairing easily with electric motors and natural gas engines.



Rigid Conrod With  
Bronze Bushing



Application-Specific  
Efficient Valves



Rugged One-Piece  
Crosshead



Ariel "Necked-Down"  
Piston Rod Design

## Precision Bearing Shells:

Every Ariel compressor features precision-machined tri-metal main and connecting rod bearings.

## Versatile Unloading Devices:

Ariel offers manual, head-end variable volume clearance pockets on most cylinders. Pneumatic suction valve un-loaders are available on a limited basis.

## Efficient Valving:

Plate-type valves are designed for modern speeds, utilizing non-metallic sealing elements as standard. Valves are selected to comply with established low-valve velocity standards.

## Heavy-Duty Crankshafts:

The JGR/JGJ compressors feature forged steel, precision-machined crankshafts with integral counter-weights manufactured by Ariel Corporation.

## High-Efficiency Spin-on Oil Filters:

Ariel JGR/JGJ compressors feature high-efficiency non-bypassing spin-on oil filters rated at 5 micron nominal and 17 micron absolute.

## Rugged Crankcases:

Ariel crankcases are designed for long service life and ease of access during maintenance. Our crankcases feature a heavily-ribbed, high-strength, cast iron base with a removable, lightweight aluminum top cover.

## Full Pressure Lubrication:

A frame-driven lube oil pump provides cooled oil through a full-flow oil filter to all moving parts in the frame. A divider-block system supplies metered oil to cylinder bores and rod packings.

## High-Strength Bolting:

Durable Grade 8 bolting on all loaded joints combined with specially designed fatigue-fighting bolts on all valve caps ensure ultimate holding strength.

## Rigid Connecting Rods:

The JGR/JGJ compressors feature durable connecting rods manufactured from forged steel with 4 bolts and a heavy-duty "I" section.

## Rugged Crossheads:

One-piece, long-life crossheads with hardened, ground steel crosshead pins and direct, full-pressure lubrication at the top and bottom for minimum wear.

## Innovative Cylinders:

Ariel's single and double-acting non-cooled cylinders eliminate the cost and maintenance associated with water cooling.

## Durable Pistons and Rods:

JGR/JGJ compressors feature wear-resistant ductile or gray iron pistons, and precision-ground alloy steel piston rods with locking crosshead nuts. Rolled threads are 1/4" under rod diameter for easy installation.

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