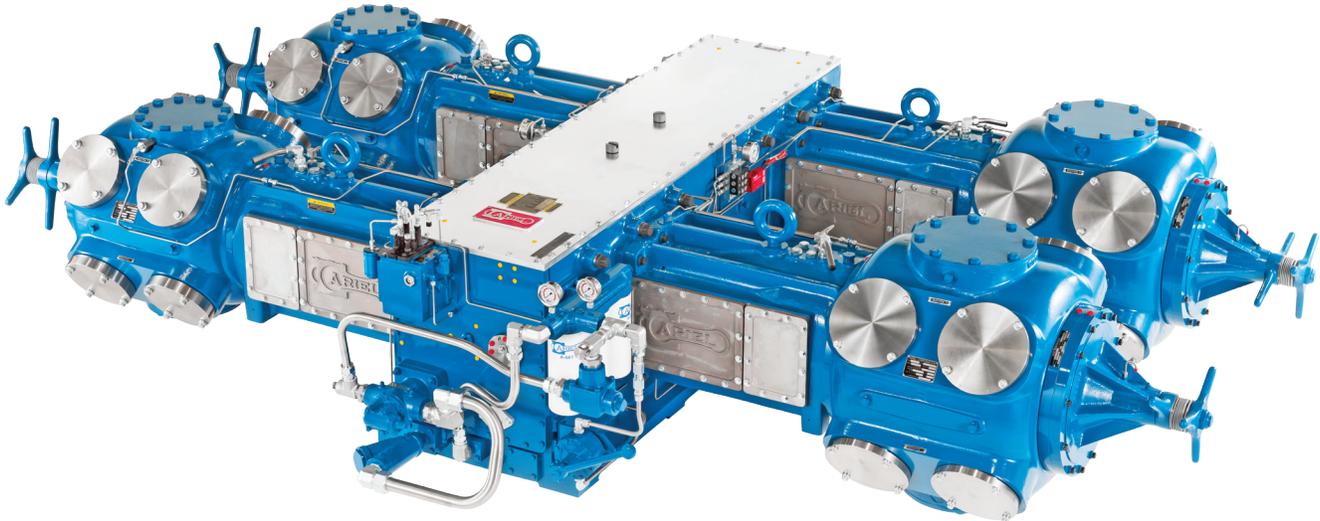


ARIEL CORPORATION

JGE/JGK/JGT



WORLD STANDARD
COMPRESSORS



	JGE			JGK			JGT		
	2	4	6	2	4	6	2	4	6
Number of Throws	2	4	6	2	4	6	2	4	6
Rated Power (BHP)	1,070	2,140	3,210	1,270	2,540	3,810	1,300	2,600	3,900
Rated Power (kW)	798	1,596	2,394	947	1,894	2,841	969	1,939	2,908
Stroke (in)	4.5			5.5			4.5		
Stroke (mm)	114			140			114		
Maximum RPM	1,500			1,200			1,500		
Piston Speed (FPM)	1,125			1,100			1,125		
Piston Speed (m/s)	5.72			5.59			5.72		
Total Rod Load (lbs)	60,000			74,000					
Total Rod Load (kN)	267			329					
Rod Load Tension (lbs)	30,000			37,000					
Rod Load Tension (kN)	133			165					
Rod Load Compression (lbs)	32,000			40,000					
Rod Load Compression (kN)	142			178					
Rod Diameter (in)	2.0								
Rod Diameter (mm)	51								
Crankshaft Centerline, from bottom (in)	17								
Crankshaft Centerline, from bottom (mm)	432								

FEATURES

Designed for continuous duty in the gas and oil industry, these medium-speed separable reciprocating compressors feature a wide range of cylinders, making them the industry choice for standard and specialized applications.



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:

JGE/JGK/JGT compressors feature forged steel, precision-machined crankshafts with integral counter-weights manufactured by Ariel Corporation.

High-Efficiency Spin-on Oil Filters:

Ariel JGE/JGK/JGT 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 JGE/JGK/JGT 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:

JGE/JGK/JGT 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.