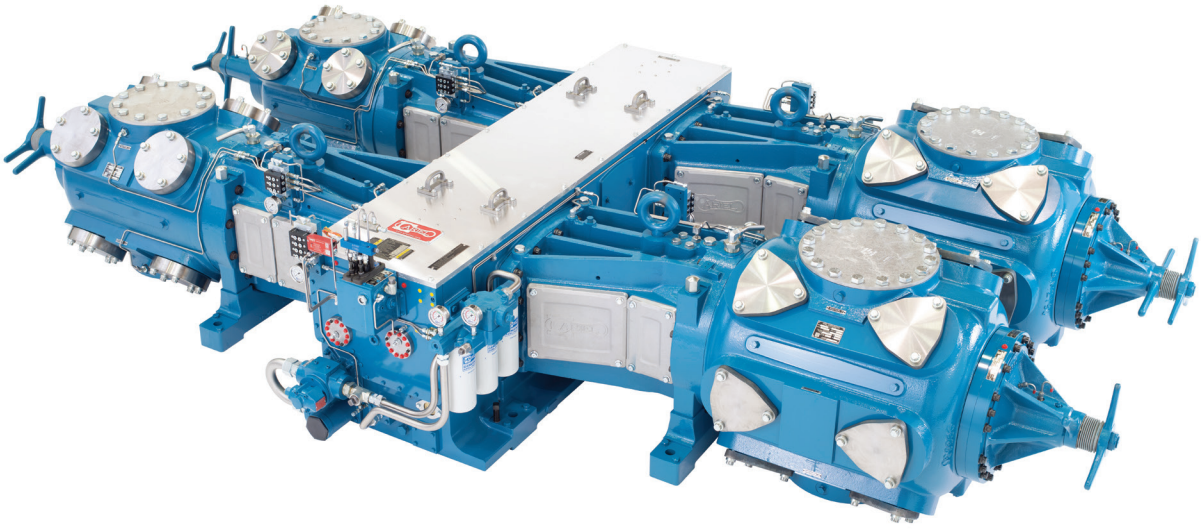
ARIEL CORPORATION

KBK / KBT

WORLD STANDARD COMPRESSORS

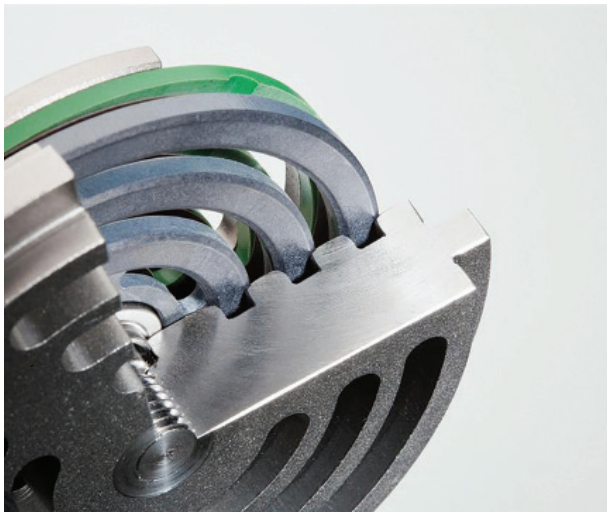


	KBK			KBT		
Number of Throws	2	4	6	2	4	6
Rated Power (BHP)	1,840	3,680	5,520	1,840	3,680	5,520
Rated Power (kW)	1,372	2,744	4,116	1,372	2,744	4,116
Stroke (in)	6			5		
Stroke (mm)	152.4			127		
Maximum RPM	1,200			1,500		
Piston Speed (FPM)	1,200			1,250		
Piston Speed (m/s)	6.10			6.35		
Total Rod Load (lbs)	92,000					
Total Rod Load (N)	409,236					
Rod Load Tension (lbs)	46,000					
Rod Load Tension (N)	204,618					
Rod Load Compression (lbs)	50,000					
Road Load Compression (N)	222,411					
Rod Diameter (in)						
Rod Diameter (mm)						
Crankshaft Centerline, from bottom (in)						
Crankshaft Centerline, from bottom (mm)						

KBK:T FEATURES

- Similar dimensions as current JGE:K:T with increased rod load and bhp.
- Integrated frame oil thermostat into the filter header simplifies the auxiliary end piping.
- ELP and dual chain drive std on all versions.
- “KB” styled angled guide design with through - bolt guide support fasteners provide increased stiffness.
- 2, 4, & 6 throw frames capable of using Torsional Vibration Damper and aux end flywheels, when needed.
- Piston, piston rods, crossheads, and connecting rods have been redesigned for increased strength.
- Crossheads, connecting rods, and bearings are backward compatible with JGE:K:T.
- New cylinder line uses existing KTCD cylinder bodies with “NC” (non-collared) rods.
- Cylinders utilize uncut pressure packing rings and CP valves as standard.

CP/CP’s Compressor Valves



CP and CPs valves demonstrated a significant increase in reliability leading to extended service life as compared to valves with traditional design. The CP and CPs design implements new plate and seat port geometry along with a profiled sealing surface resulting in improved operating efficiency at a lower plate lift.

- Increased reliability
- Greater efficiency
- Lower cost of operation
- Simplified inventory management