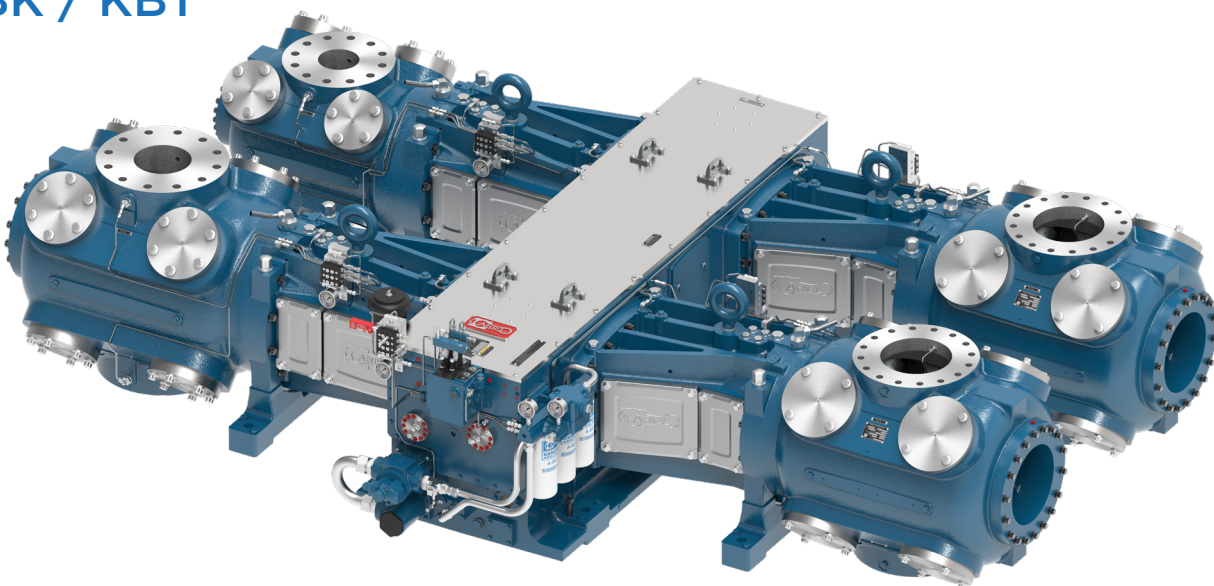


# ARIEL CORPORATION

KBK / KBT



WORLD STANDARD  
COMPRESSORS



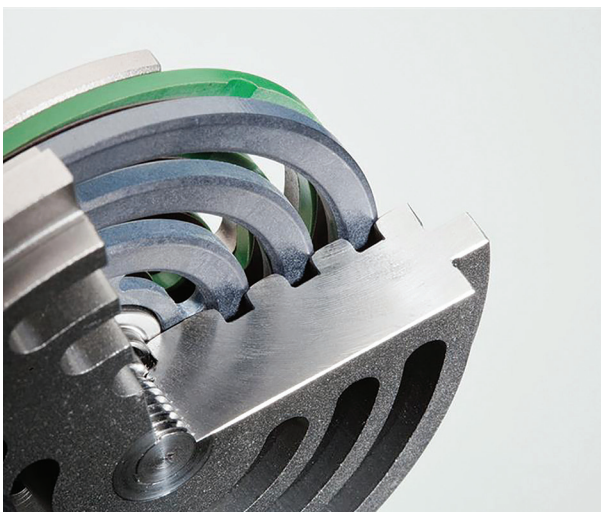
|                                         | KBK    |       |       | KBT   |       |       |
|-----------------------------------------|--------|-------|-------|-------|-------|-------|
| Number of Throws                        | 2      | 4     | 6     | 2     | 4     | 6     |
| Rated Power (BHP)                       | 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 (kN)                     | 409    |       |       |       |       |       |
| Rod Load Tension (lbs)                  | 46,000 |       |       |       |       |       |
| Rod Load Tension (kN)                   | 205    |       |       |       |       |       |
| Rod Load Compression (lbs)              | 50,000 |       |       |       |       |       |
| Road Load Compression (kN)              | 222    |       |       |       |       |       |
| Rod Diameter (in)                       | 2.0    |       |       |       |       |       |
| Rod Diameter (mm)                       | 51     |       |       |       |       |       |
| Crankshaft Centerline, from bottom (in) | 17     |       |       |       |       |       |
| Crankshaft Centerline, from bottom (mm) | 432    |       |       |       |       |       |

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# KBK:T FEATURES

- Similar dimensions as current JGK: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 JGK: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 CP's valves demonstrated a significant increase in reliability leading to extended service life as compared to valves with traditional design. The CP and CP's 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