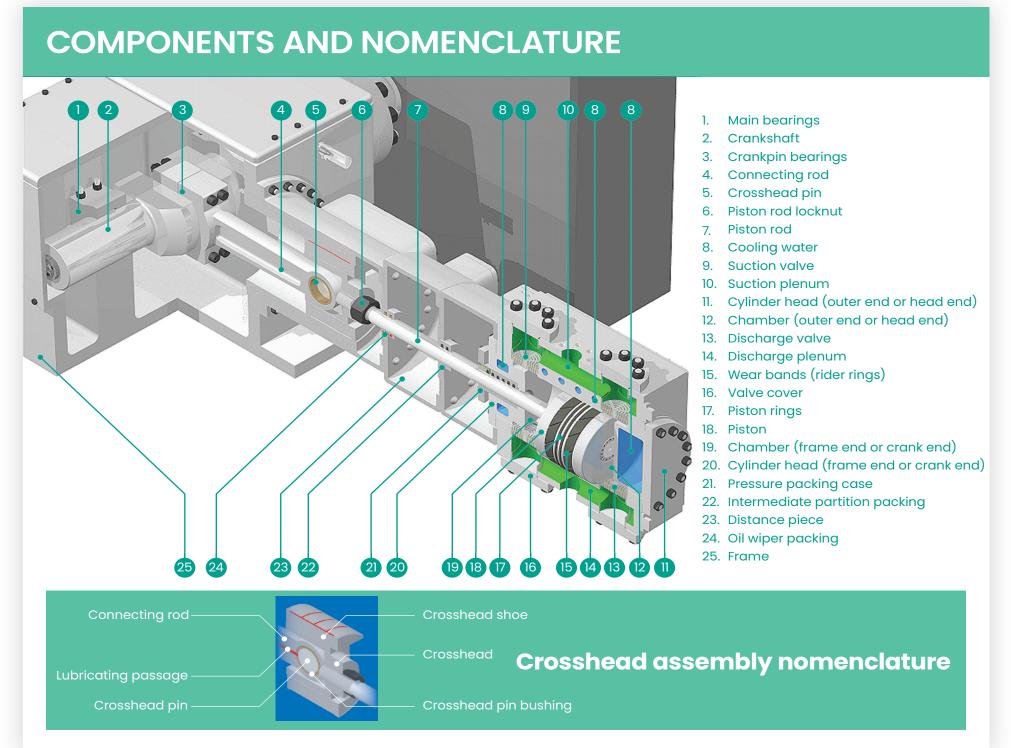
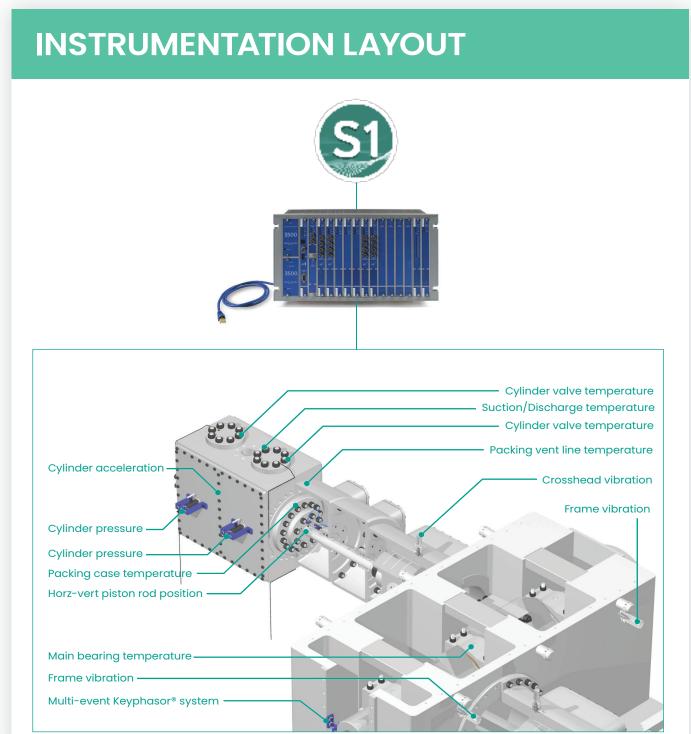
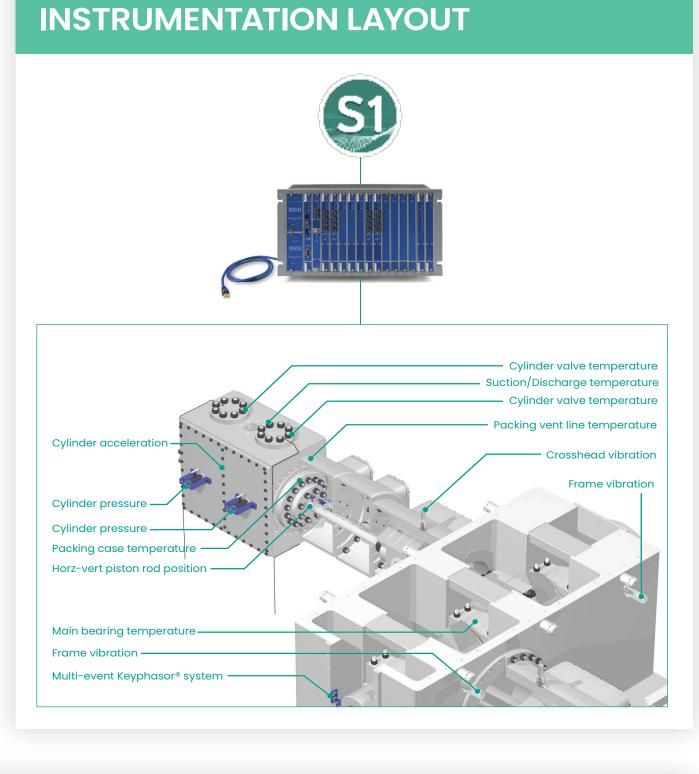
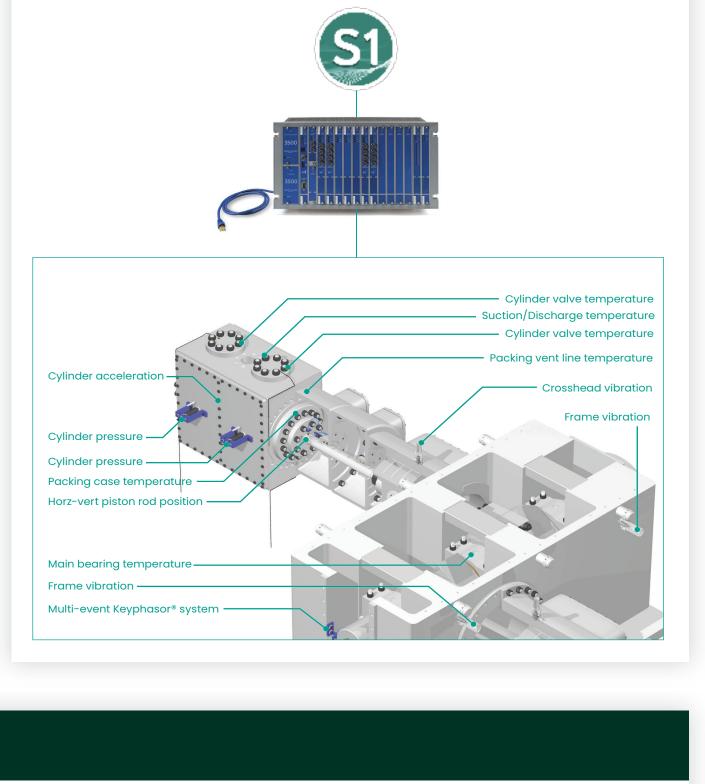
Reciprocating Compressor Instrumentation and Condition Monitoring

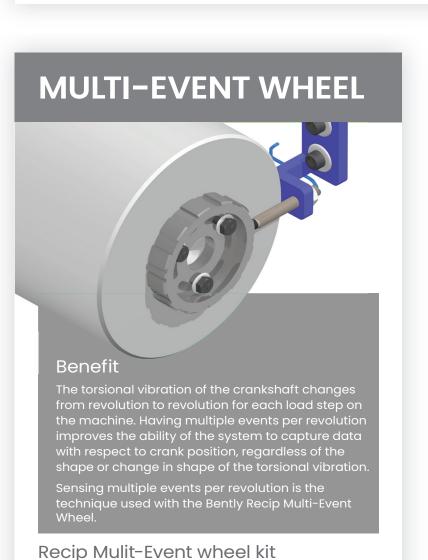












Custom Recip Multi-Event band (Part No. 105M5964-xx)

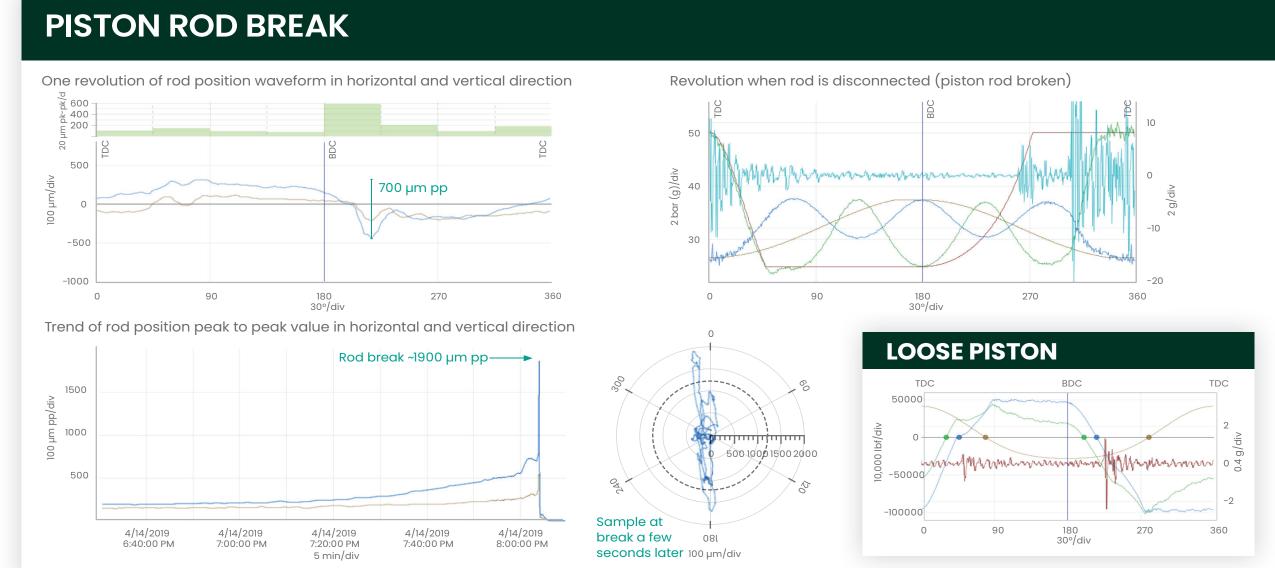
For more information visit

bntechsupport.com

or call +1 775 215 1818

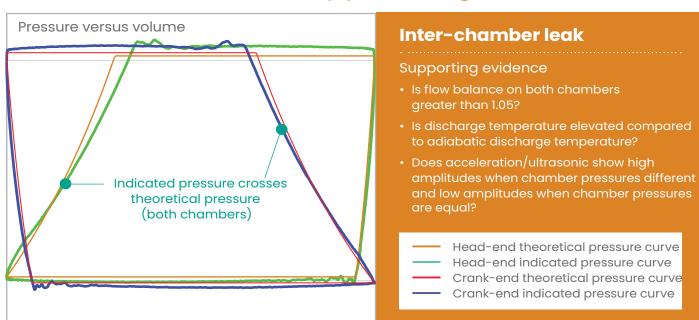
(Part No. 146973-01)

Our machinery diagnostic engineers help you reach your safety and efficiency goals increasing uptime, while reducing operatio and maintenance costs.



ROD LOAD MONITORING Combined (inertia and gas) rod loads calculated at the crosshead provide information --- Red gas load about the lubrication condition of the crosshead pin. Insufficient reversal or excessive Blue combined load rod load can be identified and corrected before costly running gear damage occurs. 50,000 Combined load Maximum allowable continuous combined rod load (MACCRL) A value determined by the original equipment manufacturer (OEM) based on design limits of the various components in the compressor frame and the running gear (bearings, crankshaft, connecting rod, crosshead assembly, piston rod, piston assembly). Maximum allowable continuous gas load (MACGL) Rod reversal A value determined by the OEM based on the design limits of the static components (frame, distance piece, cylinder, and bolting). -100,000 The shortest distance, measured in degrees of crank revolution, between each change in sign of force in the combined rod-loading curve.

LEAK Leak to low pressure side (suction valves or pressure packing leak, if CE chamber) Pressure versus volume Leak to low pressure reservoir crank end shown, head end similar) Rounded heel Indicated pressure falls faster than theoretical on expansion stroke (if theoretical curve uses cylinder nameplate clearance) Indicated pressure rises slower than theoretical on compression stroke Theoretical pressure curve Indicated pressure curve Leak to high pressure side (discharge valves) Pressure versus volume Leak from high pressure reservoi crank end shown, head end similar) ndicated pressure falls slower than neoretical on expansion stroke (if theoretical curve uses cylinder the other discharge valve covers? nameplate clearance) Indicated pressure rises faster than theoretical on compression stroke Rounded toe Theoretical pressure curve Indicated pressure curve Inter-chamber leak (usually piston rings)



CAPACITY CONTROL STEPLESS UNLOADER

