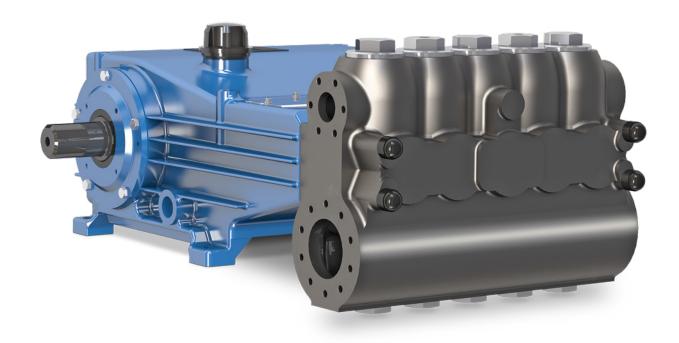


100 HCH SERIES

Quintuplex Plunger Pumps



Quality Products, Exceptional Customer Service

RAM Pumps Ltd.'s portfolio of Triplex & Quintuplex pump packages are designed and manufactured to the highest degree of precision to ensure total reliability and durability is maintained throughout our range.

RAM Pumps design is in full compliance to API674 along with most industry standards including, ISO 9001/2008, ATEX, EC P.E.D., NACE, Norsok, and GOST. These standards are rigorously maintained to ensure complete inclusion into the most arduous and demanding applications worldwide.

RAM Pump's commitment to flexible design and scope conformance has supported the evolution of a truly comprehensive supply. Including such auxiliary options as:

- Self-driven lubrication systems for both drive and seal arrangements.
- Condition monitoring to customer expectation and specification
- Multiple drive options and adaptations
- Direct mounting of dampers, PVS's etc. to the process fluid end for maximum effectiveness.

Common Applications Include:

Oil and Gas

Glycol Injection or Regeneration Methanol Injection Hydrocarbon Conde

Hydrocarbon Condensate

Hydro Test

Water Production
Drill Cutting Re-Injection
Miscible Gas Injection
Fracking

Liquid Condensate Injection

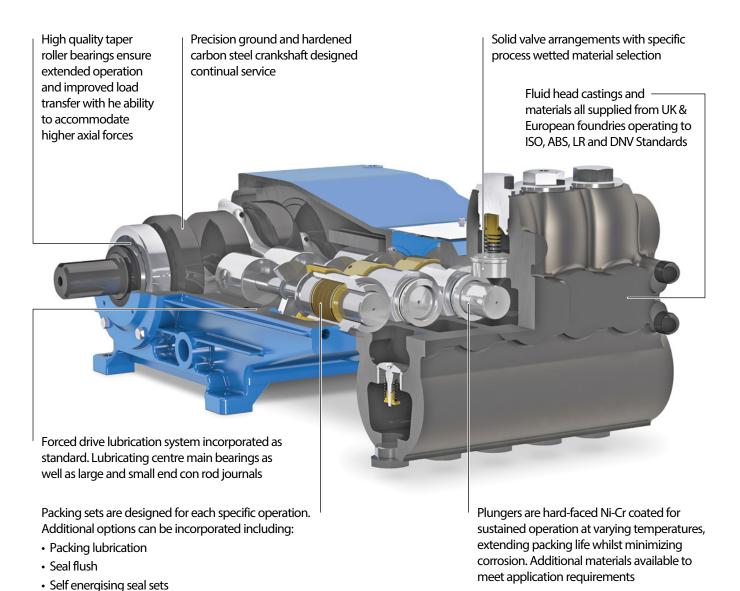
Reverse Osmosis

Desalination
Food Processing
Pharmaceutics

Industrial

Water Jetting
De-Scaling
Boiler Feed

Quality Focused Design and Manufacturing



RAM 100 HCH PERFORMANCE

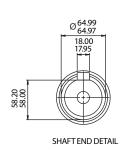
· Leak detection and monitoring

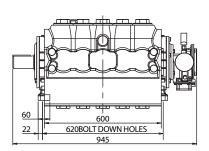
Bore	Stroke	Max RPM (API)	Max RPM (Non API)	Max Flow (API) Ipm / gpm	Max Flow (Non-API) Ipm / gpm
65	100	350	450	552 / 145	709 / 187.4
60	100	350	450	470 / 124.2	604 / 159.7
55	100	350	450	395 / 104.3	508 / 134.2
50	100	350	450	326 / 86.2	420 / 110.9
45	100	350	450	264 / 69.8	340 / 89.8
40	100	350	450	209/55.2	269 / 71
35	100	350	450	160 / 42.3	206 / 54.3

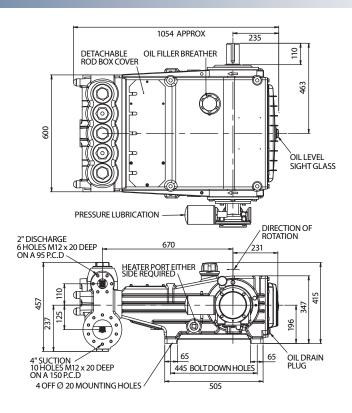
MAXIMUM PRESSURES					
Material	BAR G	PSI			
Carbon Steel WCB	173	2,510			
Carbon Steel Gr 90 60	437	6,338			
316 Stainless Steel	152	2,205			
Duplex 22% CR	287	4,163			
Super Duplex 25% Crome	312	4,525			
Inconel 625	313	4,540			

*Maximum absorbed power rating for the Ram 100 HCH Series is 110 kW – Please ensure specific application data is calculated to determine maximum absorbed power required.

Dimensional Drawing







Standard Supply Scope





Inspection & Testing

Packaged Equipment

Motors & Drives

Diesel / Gas Engines

Transmission

Structural Fabrication

Pulsation Management

Valves & Filtration

Instrumentation

Electrical Control

Lubrication Systems

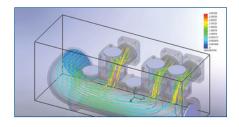
VSD / VFD Units

PLC Control Systems

Heating & Cooling

Specialist Painting

Material Certification 3.1, 3.2
Hydrostatic Testing
Performance Testing
Mechanical Testing
NDE - PMI, UT, DP, RT, MPI
NPSH Testing
Pulsation Analysis API674
Mechanical Response Analysis
ISO 9001 2008 Accredited
ISO 14001 Accredited
Supply to ABS, DNV, LR, KR
Supply to NORSOK Standards
NACE Compliance



Project Services

Dedicated Project Teams
In House 3D Design
FEA Analysis Verification
Comprehensive Project Documentation
Automated Document Tracking
TPI Support Service
Global Commissioning Service
On Site Testing Verification
Onshore / Offshore Engineering Support
Aftersales & Support Network
Global Representation
Comprehensive Warranty Scheme
Global Logistics Support

Ram Pumps Ltd.