



HP-CD

"WE HIT HARDER, SO YOU DRILL FASTER"



CLUSTER DRILL

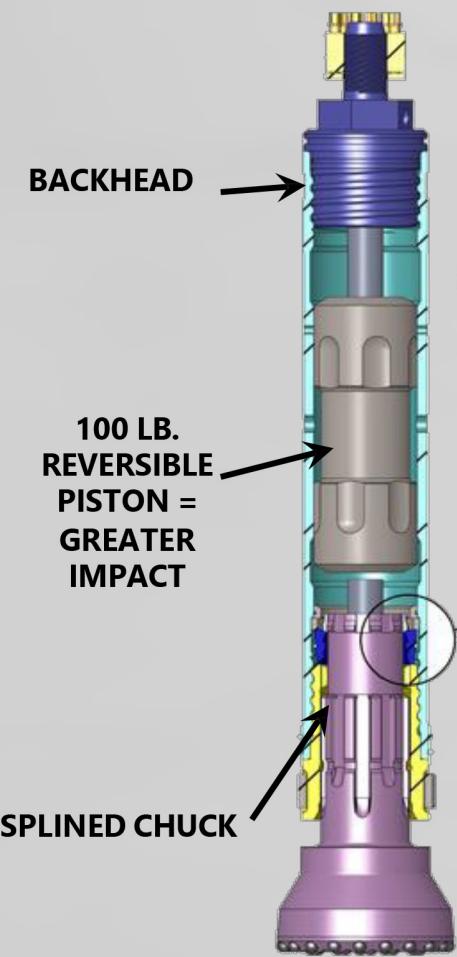
Heavy Duty Design Coupled With Hard Hitting CS8 Hammers And 10" Quick-change Bits Makes The Keystone Hp Superior For Large Hole Applications



CHANGE BITS IN THE FIELD

- Patented Quick Change Technology Allows Bits To Be Replaced In The Field
- Bit Installation With All- Thread And Wrench
- Bit Removal With Air Powered Hydraulic Power Pack

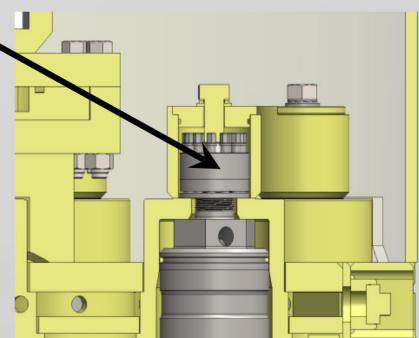
POWERFUL CS8 8" HAMMER



"LESS PARTS,
SIMPLE DESIGN"

SUPERNUT

- NO NEED FOR TORQUE MULTIPLIER
- SUPERIOR HAMMER RETENTION SYSTEM



QUICK
CHANGE BIT
RETAINER

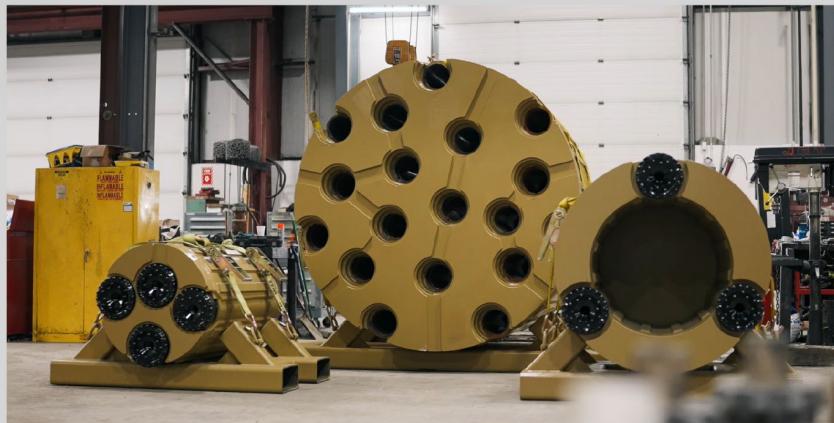


SERVICE AND RENTALS

AIR COMPRESSOR SALES AND RENTAL



- 750 – 1600 Cfm / 150 Psi Compressors
- 1170 – 1250 Cfm / 350 Psi Compressors
- Air Hose And Accessories
- Tier 3 And Tier 4f Diesel Packages
- Electric And Natural Gas Driven Packages



IN-HOUSE HAMMER AND BIT REPAIR

- Individual Broken Carbide Replacement
- Robotic Arm Dressing Of Worn Carbide
- Total Bit Face Reconstruction
- DTH Hammer Analysis, Service And Repair

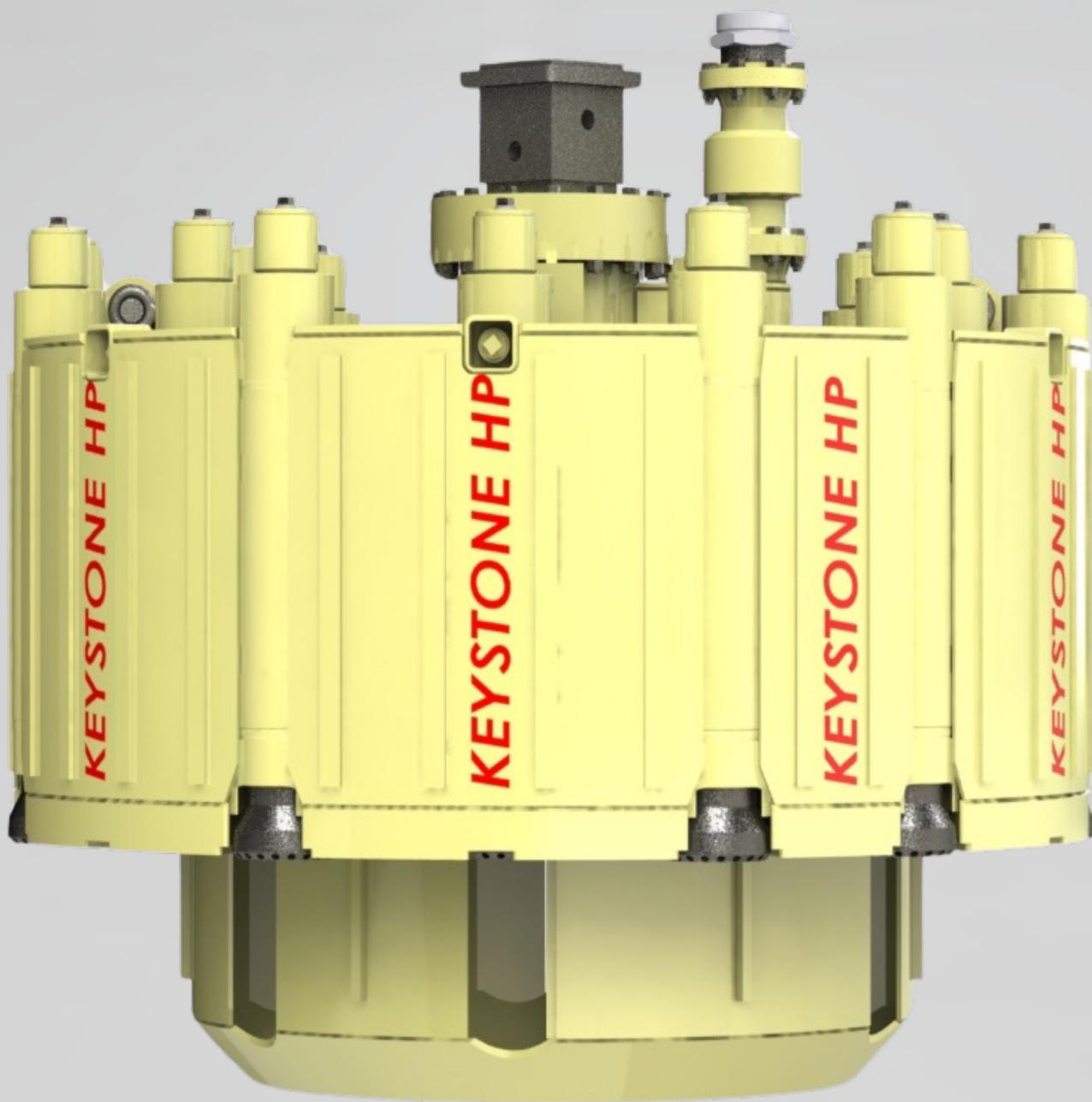
Service

- Customer Support
- Field Service Available 24 / 7
- Startup Service Available





HP-HO



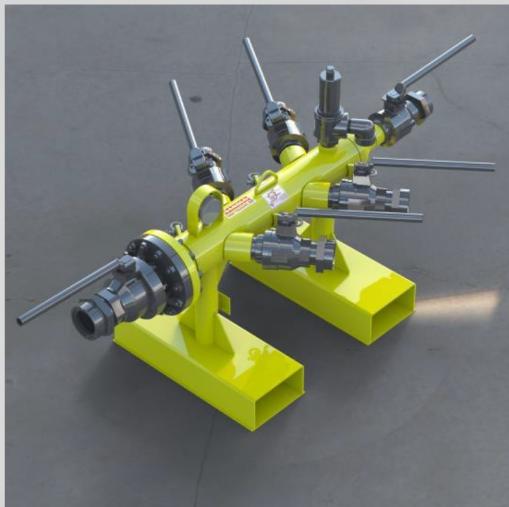
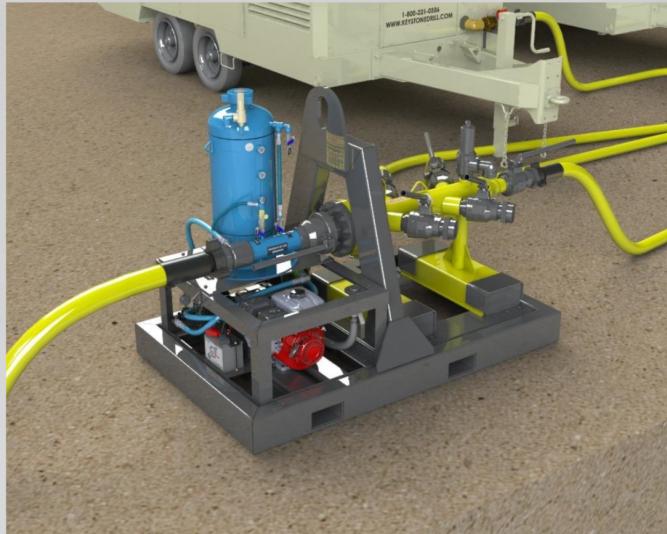
HOLE OPENER



HP-ACCESSORIES

KEYSTONE SUPPORT MODULE

- COMBINATION OF AIR MANIFOLD, LUBRICATOR, AND WATER INJECTION ON A SINGLE PLATFORM
- HEAVY DUTY FRAME WITH FORKLIFT POCKETS
- SINGLE POINT LIFT
- MOVE ALL YOUR ACCESSORIES IN ONE TRIP!
- ELIMINATES 4" HOSE BETWEEN MANIFOLD AND LUBRICATOR

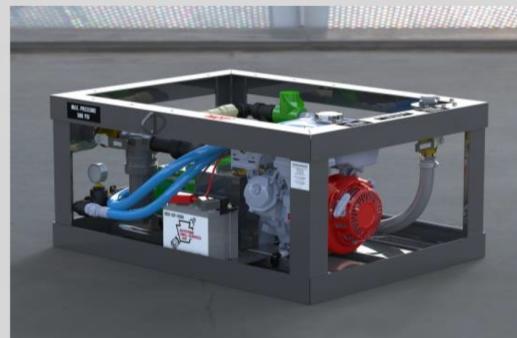


5-INLET AIR MANIFOLD

- (5) 3" INLETS W/VALVES, (1) 4" OUTLET VALVE
- CAN ADD A 6TH INLET IF REQUIRED
- RECONFIGURABLE FOR EITHER A 6" OUTLET OR 2" INLETS
- FORKLIFT POCKETS
- 600 PSI RELIEF VALVE (FULL FLOW)
- ASME CERTIFIED PRESSURE VESSEL (NATIONAL BOARD REGISTERED)

5-21 GPM WATER INJECTION

- SILICA DUST CONTROL
- 8.4 HP HONDA ENGINE W/ ELECTRIC START
- FLOW/PRESSURE CONTROL VALVE
- 500 PSI RELIEF VALVE



17-GALLON LUBRICATOR

- VENTURI STYLE (NO MOVING PARTS)
- NEEDLE VALVE TO ADJUST FLOW
- ASME CERTIFIED PRESSURE VESSEL (NATIONAL BOARD REGISTERED)
- 1000 PSI RELIEF VALVE



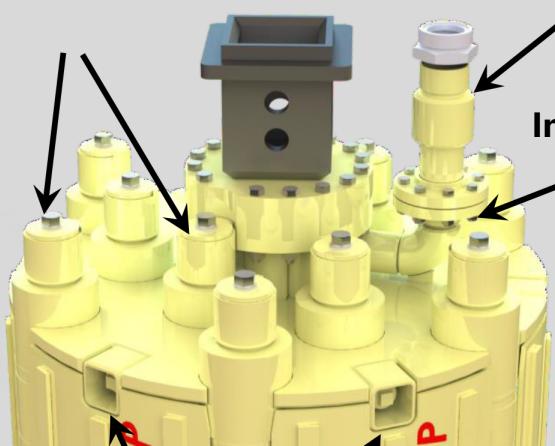
HP-AIR



CRAWLER COMPRESSOR

- 30° Gradeability
- Top Speed Of 3 mph
- Triple Grouser Track Shoes
- Industry Proven Undercarriage
- Heavy Duty Cab Body Frame

Easy access
to hammers



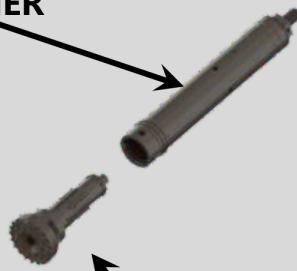
Chiksan swivel

Integrated "ratchet" air inlet

Calyx basket

Clean-out
ports

8"
HAMMER



10" bit

Optimized Bit Layout For
Maximum Performance
And Minimum Tool Wear

SUPERNUT



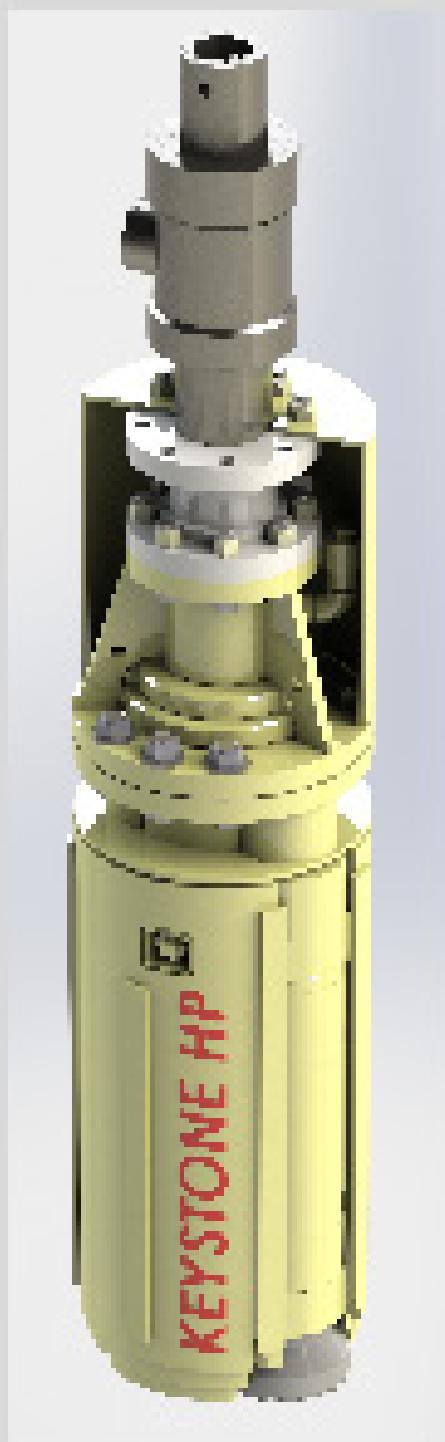
Kelly box

Kelly box
adapter plate





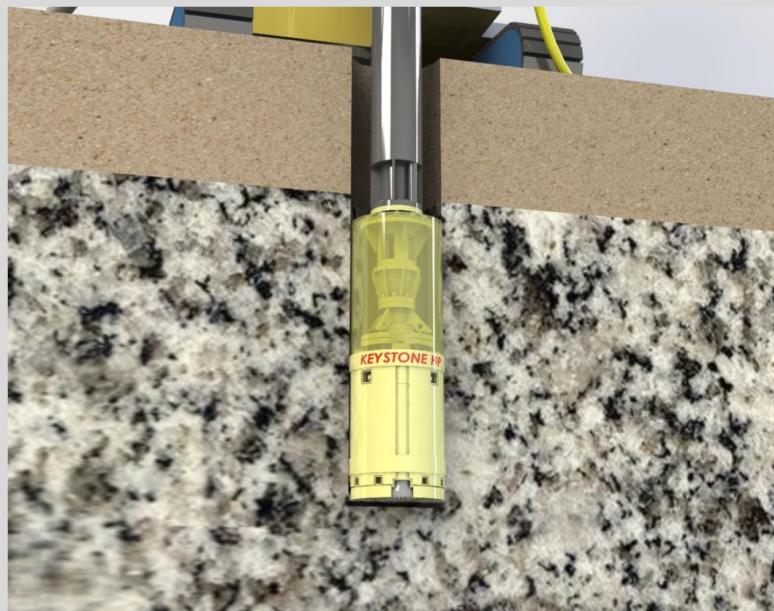
HP-PD



CLUSTER POLE DRILL



REVERSE CIRCULATION



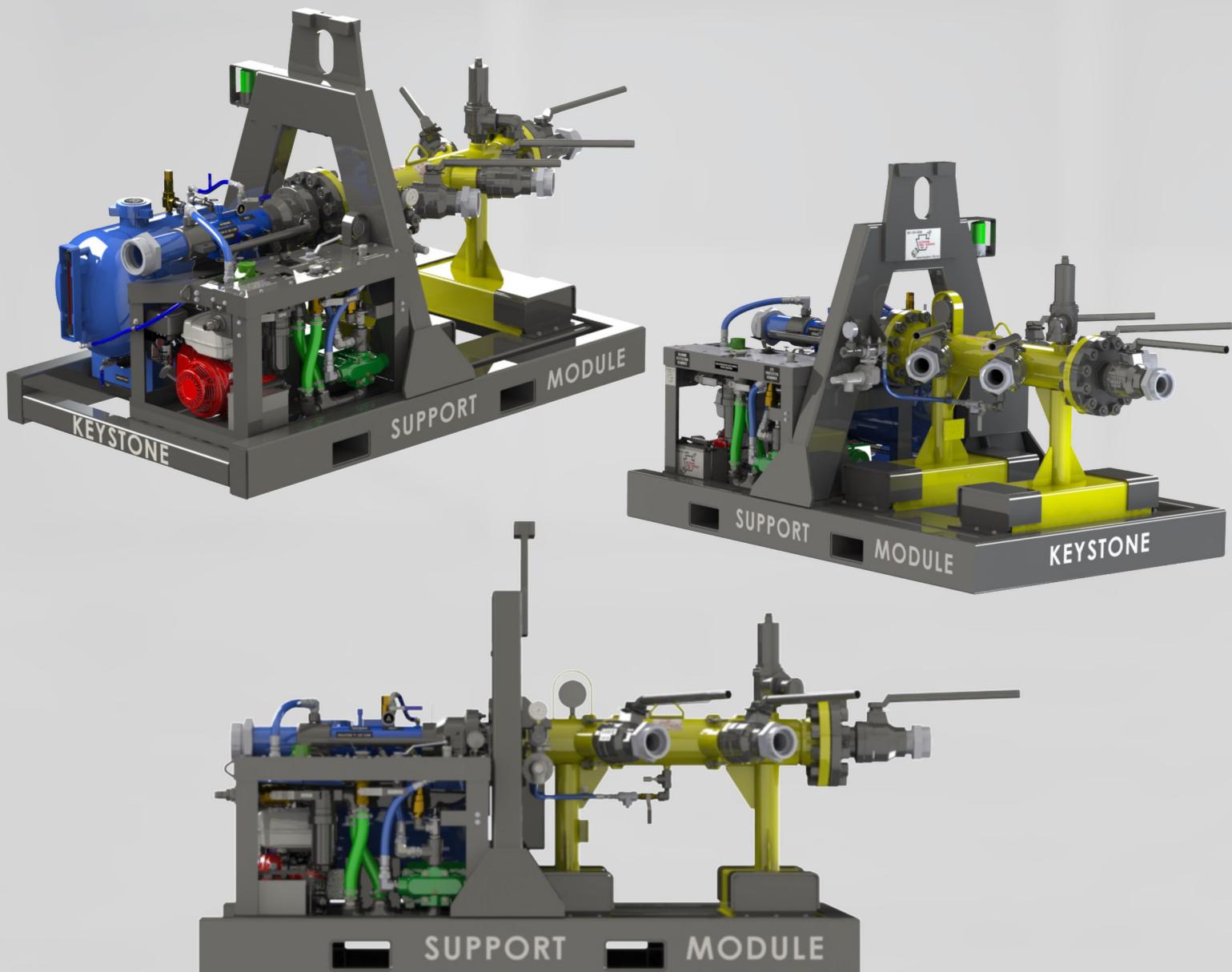
- Use A Conventional Cluster Drill In A Reverse Circulation Application
- Add Reverse Circulation Interchange /Crossover
- Add Sealing Plate To Direct Cuttings Into Interchange



- Continuous Rotation Drilling
- No Need To Trip Out Of The Hole
- Fastest, Most Efficient Way To Drill
- All The Benefits Of RC Without A Specialized Canister



HP-AC



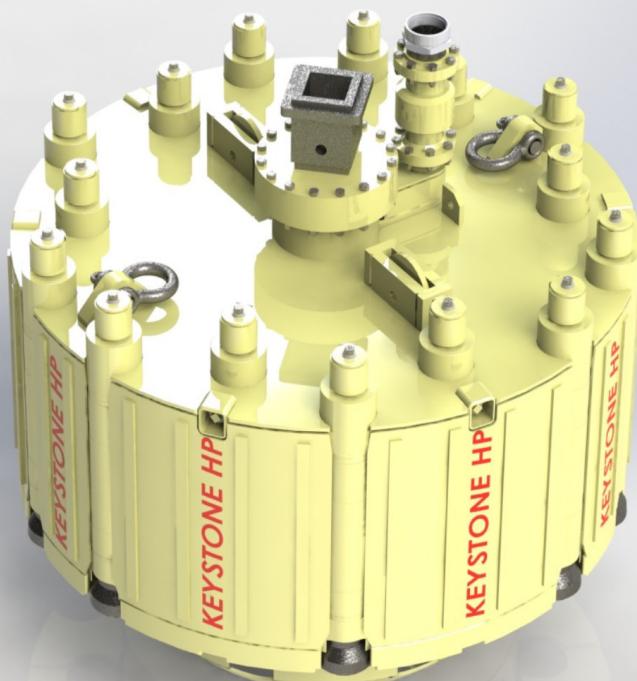
ACCESSORIES

HOLE OPENER



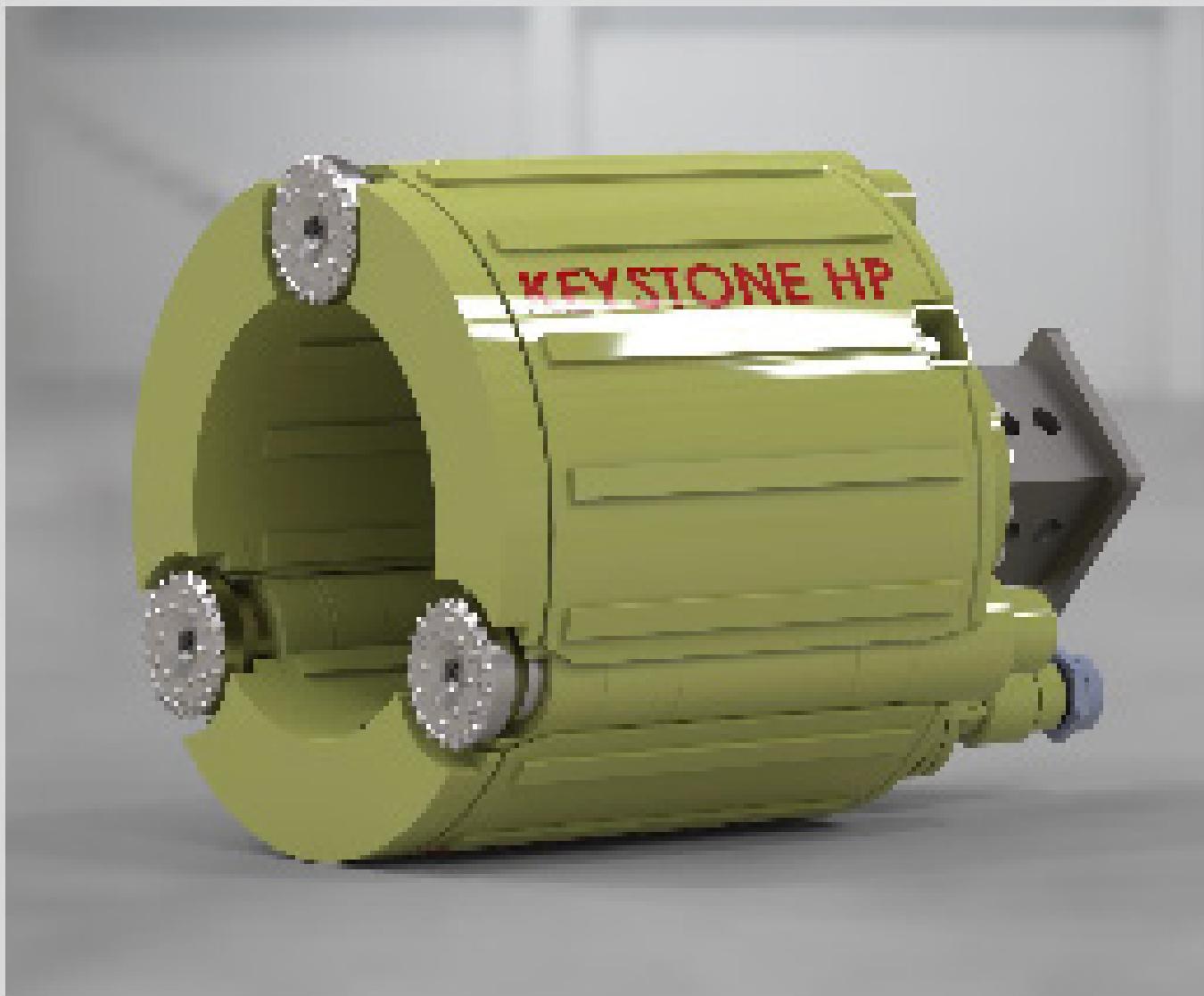
- Drill Large Diameter Holes With Less Bits/Hammers And Air Compressors
- Customizable Sizes Up To 144"

- Hole Openers Have A Guide Ring Designed To Follow A Smaller Pilot Hole
- Divide Hole Drilling Into Progressive Steps With The Same Bits, Hammers, And Air Requirements





HP-CB



PERCUSSION CORE BARREL



PERCUSSION CORE BARREL

- Reduce Number Of Compressors, Bits, And Hammers Needed To Drill Hole
- 1 x, 18" Core Barrel - 3 Bits / Hammers, 18" Cluster Drill - 7 Bits / Hammers



- 5-1/2' Drilling Depth Until Stub Removal

- Integrated 'Ratchet' Air Inlet
- 10" Width Kerf (48" Core Barrel Leaves 28" Stub)
- Same Low Height As Traditional Cluster Drill
- Reduced Overall Weight
- Reduced Overall Weight On Bit Requirement
- Reduced Operating Torque
- Custom Sizes Available





HP-RC



REVERSE CIRCULATION



CLUSTER POLE DRILL



- Continuous Rotation Swivel Drilling
- Mark Vi, Side Inlet Swivel Included (4" NPT Inlet)
- 4,700 Lbs. Fully Loaded (24")
- Approximately 9-1/2' Tall
- Available In 24", 30", And 36" Diameters



KEYSTONE **HP** DRILL SPECIFICATIONS - STANDARD SIZES

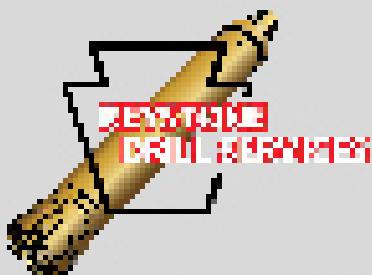
Diameter (In)	Hammers/Bits	Air Requirements ⁽¹⁾ (SCFM)	Ratchet Air Inlet Size	Fully Loaded Weight (LBS)	Oil Required per Hour ⁽²⁾ (GAL)
24	3	1,605	2"	4,600	1.0
30	4	2,140	3"	6,100	1.0
34	5	2,675	4" (4)	7,600	1.5
36	5	2,675	4" (4)	8,300	1.5
40	6	3,210	4"	10,100	2.0
42	6	3,210	4"	10,600	2.0
46	7	3,745	4"	12,400	2.0
48	7	3,745	4"	12,800	2.0
52	9	4,815	4"	14,600	2.5
54	9	4,815	4"	15,100	2.5
58	11	5,885	4"	17,600	3.0
60	11	5,885	4"	18,000	3.0
66	13	6,955	4"	21,693	3.5
70	15	8,025	6"	24,200	4.0
72	15	8,025	6"	24,900	4.0
78	18	9,630	6"	28,600	5.0
84	18	9,630	6"	30,900	5.0
96	22	11,770	6"	38,600	6.0

CUSTOM SIZES (24"-144")

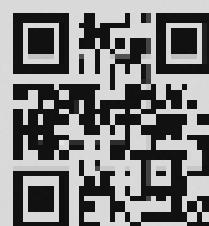
MADE TO ORDER IN ANY CONFIGURATION

CLUSTER DRILL HOLE OPENER PERCUSSION CORE BARREL

ALL OPTIONS AVAILABLE IN REVERSE CIRCULATION



WWW.KEYSTONEDRILL.COM



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12655 ROUTE 536
PUNXSUTAWNEY, PA 15767
800-626-2298

24 HOURS A DAY / 7 DAYS A WEEK