Greater Availability, Better Reliability, Long Life, Easy Serviceability

Reliable Engine & Simple Direct-Drive Powertrain
The Cummins after-cooled, turbo-charged 6CTAA8.3 Tier II engine is optimized for efficient operation. It provides 260 hp (194 kW) @ 2,200 rpm. The automatic throttle control lowers engine rpm during non-drilling operations to save up to 15 percent in fuel costs. Pumps and air compressors are coupled directly to the engine. No power divider, gear box, clutches or hydraulic motors are required, reducing maintenance and increasing efficiency. Full-length doors provide complete access for service.

Simple, Low-Pressure Hydraulic System
No microprocessors or complicated control systems are used. All controls for drilling functions (rotation, feed, percussion) are hydraulic instead of electric. This simple design basically eliminates troubleshooting time and increases machine uptime.

Superior Cutting Removal With High-Volume Air Compressor
The GH-HRand air compressor produces 350 cfm @ 140 psi (10 m³/min @ 9.7 kg/cm²). It is a perfect match for the high production of the HC160 drifter. This powerful combination reduces regrounding of cuttings, increases drilling speed and ensures optimum balling velocity for holes up to 4-1/2” (114 mm) in diameter.
Comfortable Operating Environment

High Visibility
Excavator-style drilling controls, full-surface front glass and a large roof window provide excellent visibility of the hole during drilling and of the auto rod changer (ARC) during rod addition and retrieval. The cab is mounted to the main frame and is independent of track movement for better hole visibility on uneven terrain.

Easy Drilling Without Complex Electronics
Drilling is easier using two arm-mounted hydraulic pilot joystick controls. Full-flow hydraulics for boom and guide positioning provide smooth responsive movements for quicker setup between holes. Rod changing is simplified with one-lever control.

Quiet, Clean Environment
Pressurized air conditioning and heating system (using external, filtered air) provides a clean, comfortable operating environment. Noise in the cab has been reduced for quiet operation. The powerful dust suppression system keeps the air around the drill even cleaner.

Clever Hose Management
Use of sliding hose reel, steel pipe sections and separation of percussion hoses from other (non-vibrating) hoses reduces hose wear and damage. Hose segmentation into shorter, uniform lengths and the use of individual hose brackets improves maintenance costs and serviceability.
Strata-Sense® Drill Automatics
Optimization of drilling speed, hole straightness and trouble
avoidance with Strata-Sense® Drill Automatics can increase
the life of your drill accessories up to 200 percent.

High-performance Features
• Function-dedicated pumps provide optimal hydraulic loading
• Reversible fans for cold weather operation
• Tier II emission compliant engine
• Perimeter access for routine maintenance
• Rod changer automation with single-lever control
• 500-hour oil change interval

PRO-TECH Advantage
5-year/10,000-hour warranty on all arends when you use
genuine Ingersoll-Rand parts, service and fluids.

World-class Drifter Control Technology
Experience powerful drilling with load-sense, progressive-percussion pressure control while the progressive-feed control reduces jamming and senses
voids. Automatic reverse percussion, automatic air protection circuit — vital when drilling through clay — and auto-collaring increase productivity.
GENERAL SPECIFICATIONS

DRIFTER

Model: HC160
Diameter: 3 - 4-1/2" (76 - 114 mm)
Rotation Speed: 0 - 130 rpm
Max Rotation Torque: 904 ft-lb (1225 Nm)
Frequency: 2500 bph
Impact Energy: 413 ft-lb (560 J)
Fronthead Lubricator: 0.7 qt (0.66 L)
Accessory Size Standard (Optional): 51R (409)

ENGINE

Model: Cummins 6CTAA8.3
Rated Power: 260 hp (194 kW)
Operating Speed: 2200 rpm
Fuel Capacity: 106 gal (400 L)

BOOM AND GUIDE

Drifter Travel: 13' 11" (4250 mm)
Feed Force/pullback: 4,400 lb (19.6 k)
Feed Speed-Fast: 132 ft/min (40 m/min)
Feed Speed-Slow: Max 33 ft/min (10 m/min)
Guide Extension: 59" (1500 mm)
Bore Extension: 14" (4.3 m)
Auto Rod Changer: 13.5" (300 mm)
Drill Depth: 82' (25 m)

ROPS/FOPS CAB

Safety Shutdown: Standard
Wipers, Top and Front: Standard
Noise Level: 83 dbA
Cooling - External Air: 11,904 BTU (3500 k calories) AC
Heating: 13,890 BTU (3500 k calories) Heat
Seat: 5-way adjustable, air cushion
Glass: Safety

GHH-RAND ROTARY SCREW COMPRESSOR

Compressor Volume: 350 cfm (10 m³/min)
Max Compressor Pressure: 140 psi (9.7 kgf/cm²)

GENERAL

Gradeability: 30° (60%)
Ground Clearance: 16.6" (420 mm)
Track Oscillation: 18" (450 mm)
Frame Speed: 0 - 2 mph (0 - 3.2 km/h)
Gruver Width: 13" (330 mm)
Hydraulic Oil Tank: 53 gal (200 L)
Ambient Temperature Rating: 52°C (125°F)

DUST COLLECTOR

Suction Capacity: 988 cfm (25 m³/min)
Air Vacuum: 7,845 Pa (800 mm Hg)
Filter Area: 27.5 yd² (23 m²)
Dust Hood: Remote-controlled, vertical sliding
Pre-Skimmer: Optional
Vaposol: Optional 40 gal (151 L)

SHIPPING:

Weight: 28,870 lb (13000 kg)
Shipping Width: 8' 2" (2470 mm)
Shipping Length: 32' 9" (9860 mm)
Shipping Height: 9' 5" (2870 mm)

STANDARD EQUIPMENT

Extenda boom
HC160 reverse percussion hydraulic drifter
Strata-Sense drilling automatics
Two-lever drilling controls (arm-mounted)
One-lever ARC control
350 CFM@140 psi (10 m3@9.7 kg/cm²) air compressor
90 degree indexed drill guide
Auto rod changer with auto greaser
Carries 6' x 12" (1.83 x 3.66 m) x 751 rods
ROPS/FOPS cab with heat/air & full front glass
Hydraulic centralizer (72 mm half bushing)
Engine auto throttle
Dust collector with vertical sliding hood
Rear mirror
Night lights (front-3, rear-1)
Fire extinguisher (6.0 kg, 13.2 lb)
24-volt electric system
JIC fittings
Two-speed tram motors
Full-length track guards
Three-grouser pads
Warning horn
Back buzzer
Drifter hour meter
Filter kit
Low level indicator for fuel & hyd. oil
Three sets of operation/parts manuals

OPTIONAL EQUIPMENT

6' x 12" (1.83 x 3.66 m) x T45 ARC
with 63 mm or 66 mm half bushing
ARC lockout system
Anti-freezing system (compressor)
Pre-skimmer
Vaposol set up (less tank)
Vaposol - with tank 40 gal/ASME (150 L)
Accumulator charge kit (CPN 86323532)
Electric angle indicator (12 dim)
Hydraulic pressure test kit
Single-grouser pads
77 mm half bushing for T51 ARC
Extra set of parts book/operation manuals
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Ingersoll-Rand is your number one source for everything from genuine replacement parts and rebuilt hydraulic components to fluids and filtration. We keep you informed with instructional maintenance videos, preventive maintenance audits and overhaul programs. You'll find our factory and field equipment specialists to be an invaluable resource well after the sale.

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**Financing Solutions**

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Our streamlined loan application and credit approval process can make your purchase intent a reality.

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