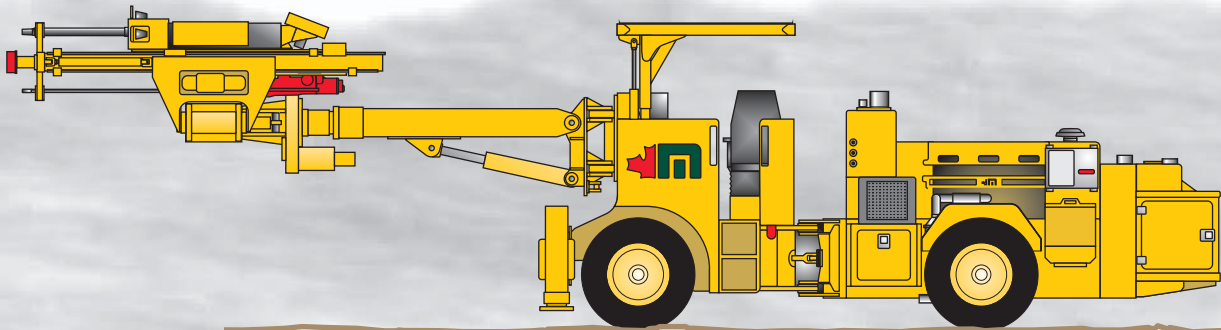




# SBR-6 Ro-Bust™ Blockholer

The original system for breaking oversized rocks in the ore production cycle. Integrating the patented Ro-Bust™ system and MacLean's PLC-controlled operating system the SBR-6 Ro-Bust™ Blockholer provides the tools to safely and effectively break rocks without high explosives.

Engineered around the mechanical properties of fluids to enable maximum containment of energy from a low-order detonation, the Ro-Bust™ system has proven to be the most efficient tool for reducing oversized boulders to a manageable size for LHDs, grizzlies and crushers. MacLean logic embedded in the control system prevents unsafe operations protecting both operator and machine from harm.



## FEATURES:

- Fully self-contained drilling system; no air or water services necessary
- Radio and optional video system designed for underground environment
- Hydraulic rock drilling
- Patented Ro-Bust™ rock breaking technology
- Heavy duty frame construction
- High-powered, electronically controlled Caterpillar™ engine
- Reliable, proven power train components
- Four wheel drive carrier

## BENEFITS:

- Oversize is fragmented at source, without damage to draw point infrastructure
- Greatly reduces fly rock and virtually eliminates blast-induced dust and noxious gases.
- Significantly increases productivity of a stoping area by reducing ore flow interruptions.
- Particularly effective in reducing LHD maintenance costs by eliminating overloading when carrying large boulders.
- Increases stope value in NPV terms by allowing faster extraction of developed resources (blasted or caved ore).
- More effective than mechanical/hydraulic rock breaking, particularly boulders larger than 2m<sup>3</sup> in volume.

## APPLICATIONS:

- Situations requiring fast, real-time reduction of boulders to maintain continuous ore production.
- Block cave and sub-level cave operations where interruptions in ore flow directly affect behaviour of the cave.
- Any other bulk mining method desiring to eliminate delays waiting for boulder breakage and blocked draw point blasts

# TECHNICAL SPECIFICATIONS

## OPERATING SYSTEM - SBR-6 - RO-BUST™ BLOCKHOLER

### CARRIER - MACLEAN SERIES 955

- Caterpillar™ 3056E diesel engine, 6-cylinder, liquid cooled, 111 kW, EPA Tier II certified, MSHA approved
- Caterpillar™ 928-G Series 3-speed powershift transmission
- Caterpillar™ 938-G Series axles, 16,000 kg capacity, 10° oscillation (front axle)
  - › Independent front/rear hydraulically operated service brakes
  - › Automatic brake application (ABA) with manual re-set
  - › Spring applied, hydraulically released wet disc driveline brake
  - › Braking system to CAN/CSA-M424-3-M90 Standard
- Steering angle 40°; centre articulated; dual hydraulic cylinders; orbital or stick steer control
- Tires: 12:00 x 20 mine-rated, pneumatic or solid
- 24-volt electrical system, 95-amp alternator
- Closed centre hydraulic steering and brake circuit; system pressure 200 bar
- Exhaust (heat shielded) catalytic purifier/muffler
- Air cleaner
- 95-litre fuel tank
- Operator's compartment (open or enclosed cab)
- Speed range (level):
  - 1st gear . . . . . 6 km/h
  - 2nd gear . . . . . 10 km/h
  - 3rd gear . . . . . 20 km/h
  - 15% ramp . . . . . 8.5 km/h
- Maximum Grade . . . . . 20%

### OVERALL DIMENSIONS

- Length: . . . . . 11160 mm
- Width: . . . . . 2355 mm
- Height -Tramming . . . . . 2795 mm
- - FOPS raised . . . . . 3100 mm
- Turning radius: Inner . . . . . 5130 mm
- Outer . . . . . 7570 mm
- Shipping weight: . . . . . 14,500 kg

### BOOM AND FEED

- Extendable Boom 1600 mm
- Boom Lift/Dump +48 to -15°
- Boom swing 30° L/R
- Integrated rock drill/Ro-Bust™ chain feed with centralizer
- Feed crowd 600 mm
- Feed actuator - 90° L/R
- Feed dump 85°
- 270° hydraulic rollover
- 1600 mm hole depth
- Ro-Bust™ charge accumulator
- Ro-Bust™ magazine 12 or 30 cartridge
- Furukawa HD-90 hydraulic drill and saddle

### CONTROL SYSTEM

- Integrated PLC Control System
- 900 MHz radio system Transmitter/Receiver

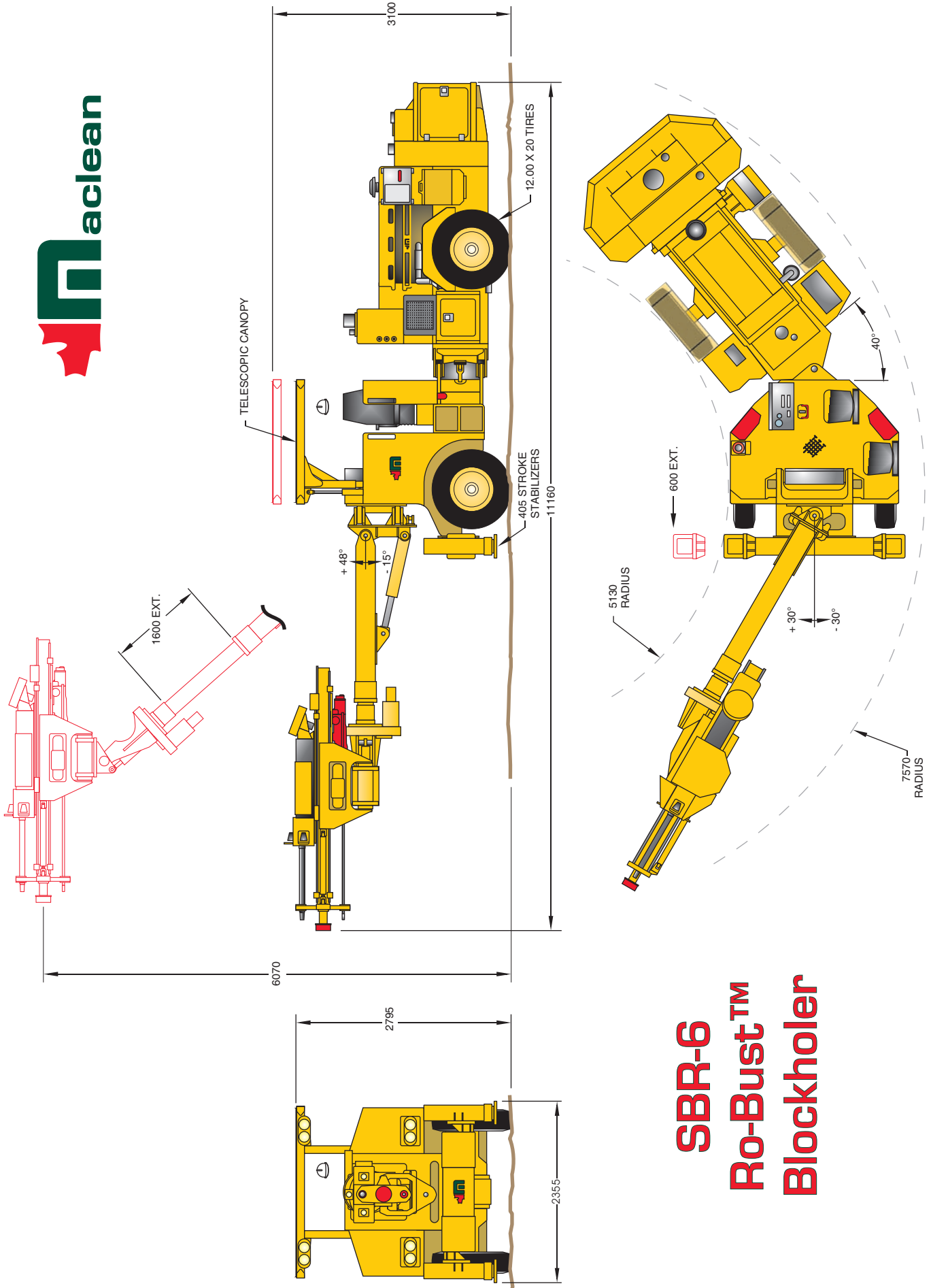
### MISCELLANEOUS EQUIPMENT

- Fire suppression system
- Portable fire extinguisher
- Articulation lock bar
- Strobe light
- Tow hooks
- Outriggers (2) - 600 x 405 mm stroke
- 650 litre water tank
- High pressure centrifugal water pump
- Compressor - Engine driven (drill lube)
- - Hydraulic (air/mist flushing)
- Rock drill lubricator

### AVAILABLE OPTIONS\*

- Certified ROPS (open canopy)
- Telescopic FOPS
- Enclosed cab, heated, air-conditioned (ROPS certified)
- 2400 MHz Video System

*\*All options must be pre-approved by MacLean Engineering & Marketing Co. Ltd.*



# SBR-6 Ro-Bust™ Blockholder

# NOTES



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