# MOBILE MINING



AHEAD OF THE GRADE

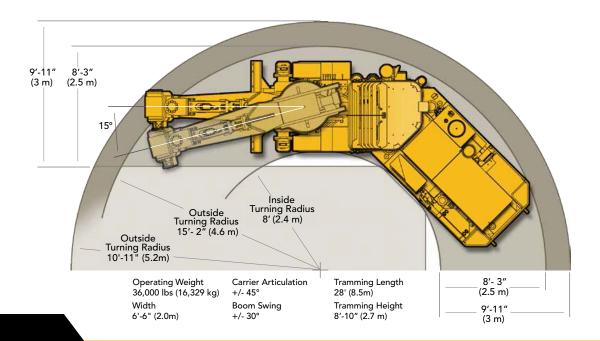




# TOUGH CONDITIONS CALL FOR TOUGH MACHINES

## MACHINES BUILT FOR THE UNDERGROUND

For over fifty years, BTI has worked to evolve the mining industry through innovative machines built for strenuous environments. And nothing is more demanding than underground mechanical scaling. The last thing you need is a machine that doesn't perform or compromises safety on the production line. BTI's new ScaleBOSS 3D provides both reliability and enhanced safety underground, keeping you ahead of the grade.



# SUPERIOR COVERAGE IN A SMALLER PACKAGE

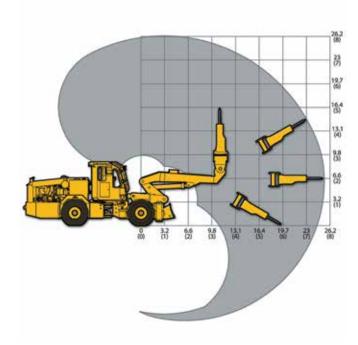
# FLEXIBILITY AND SAFETY COME STANDARD

The new ScaleBOSS 3D Scaler is for a new generation of mining productivity and safety. Its five-axis boom offers enhanced flexibility and superior coverage where other scalers fail. The heavy-duty, compact construction makes

it easy to maneuver while withstanding severe conditions. Ergonomic ROPS/FOPS certified operator cabin and HVAC system maintains excellent personnel safety while providing high visibility and comfort.

## **FEATURES**

- Heavy-duty compact construction
- $\bullet$  Optimal for 3 x 3 to 5½ x 5½ meter headings
- Five-axis boom for excellent maneuverability
- Powerful and reliable Deutz diesel engine
- Spherical roller bearing articulation joint designed for long life
- Closed Loop Hydraulic Wheel Drive with separate reservoir, 4 wheel drive and traction control
- Spring Apply Hydraulic Release(SAHR)parking / emergency brake in each hydraulic wheel motor.
- Closed-loop hydraulic wheel end service brakes via
- Pump-over-center swash plate
- Heavy-duty mining tires
- Load-sensing hydraulic circuit for boom and steering Functions
- Dedicated open-center hydraulic circuit for breaker fire Function
- 24Vdc / 80 amp electrical circuit with CANBus based system, proportional electro-hydraulic control and touch-screen human interface.
- Ergonomic ROPS/FOPS certified operator cabin with excellent visibility and operator comfort, complete with HVAC
- Heavy duty fabricated boom structures with versatil feed, robust slew bearing, and dual rotary actuators for optimized coverage
- CX8SB (800 ft-lb class) scaling breaker



# CLEANER AIR WITH EASY-PEASY MAINTENANCE

Built with our Hydraulic Wheel Drive (HWD) and Advanced Braking & Tramming Control System (ABT, patent pending), the ScaleBOSS 3D gains more traction and power with fewer emissions than conventional mechanical systems. Hydraulic braking means no brake pads to service or replace. With a dedicated, open-center hydraulic circuit for the breaker function, it's easy to identify and address maintenance issues. Cylinders and hydraulic components are protected to avoid damage from contamination.





# **OPERATOR**

# COMFORT

# **OPERATOR COMFORT**

Our ROPS/FOPS certified cabin is fitted for complete operator comfort and safety. Every ScaleBOSS offers BTl's ergonomic seat with joystick control, HVAC system, safety glass windows with front rock guard and rubber isolators between the cabin and chassis for comfort during tramming and scaling.

Engine AN O O O THE O



# **SPECS**

### HYDRAULIC BREAKER

CX8SB
Impact energy 800 ft-lbs
Impact rate 600-1500 bpm
Hydraulic pressure 2,000 psi
Oil Flow 12-24 gpm
Weight 735 lbs

#### CARRIER

Engine TCD2012L04 2V
Power rating at 2,300 RPM 129 hp
Torque 384 ft-lbs
Tramming speed on flat 14 mph
Tramming speed on 1:7 5 mph
Articulation +/- 45°
Axle oscillation +/- 8°
Four wheel drive, hydraulic

Tires 12.00 R20
Service brakes hydrodynamic
Emergency/Park brakes SAHR
Fuel reservoir, volume 50 gal
Fire extinguisher 20 lb

Dry element air intake

Traction control system

Catalytic exhaust purifier/silencer Central lubrication system

## **BOOM**

Boom swing +/- 30°
Breaker tilt 180°
Breaker swing +/- 90

#### YDRAULIC SYSTEMS

Hydraulic pumps 2 variable 1 fixed Propel circuit pressure 6,175 psi Steering/boom circuit pressure 3,400 psi Breaker circuit pressure 2,700 psi Propel circuit reservoir 30 gal Steering/boom circuit reservoir 35 gal 23 gal Breaker circuit reservoir 10 micron Filtration Air/oil hydraulic coolers Low oil indicator on all reservoirs Mineral hydraulic fluid Manual oil fill pump

## FLECTRICAL SYSTEM

24 Vdc 80 amp alternator
2 X 195 Ah 12V batteries, in series
CANBus based electronic control Health
monitoring and diagnostics for engine and
HWD systems
Flame retardant wiring
Lockable battery disconnect
FWD/REV high output LED drive and work
lights
Rear red marker/brake lights and back-up
alarm
Horn
12V 12.5A auxiliary power outlet
Steer by wire, joysticks integrated into
operator seat arm rest

#### OPERATOR CABIN

ROPS/FOPS Certified
Windshield wipers/washer system
HVAC (heating, ventilation, air
conditioning)
Safety glass windows, with rock
guard over front window
Rubber-damped for comfort
during tramming and scaling

#### OPTION:

Pusher blade
Breaker auto-lube system w/ air
flush
Boom auto-lube system
Dust suppression system
Fire suppression system
Parking brakes release system
Radio remote control
BX10SB (1,000 ft-lb class) scaling
breaker
Stereo system
High altitude package
Exhaust wrap & manifold coating
Fuel fast fill







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