# MRHT SERIES



## Rock Breaker System



#### Maximum Strength

Oversized hardened alloy pins, aluminum-bronze bushings, and thrust washers deliver maximum service under adverse conditions. Our induction-hardened chrome cylinder rods resist damage from fly rock. Four plate variable cross-section booms are specifically designed to minimize stress concentrations that typically lead to fatigue cracks

#### Longer Lifespan

Astec implements many design features that contribute to the overall life of the rock breaker. Clevis-type, high-pressure hydraulic cylinders equipped with high tensile steel-cast cylinder lugs provide maximum strength in rock breaking applications. The cylinder's self-aligning spherical ball bushings keep the equipment properly aligned and flexible during production hours throughout its lifespan

#### **High Production**

For high production applications, Astec combines enhanced motion control and boom position feedback for continuous speed giving the highest level of controllability while minimizing cycle times, improving operator fatigue and production

#### **Pedestal Design**

Astec offers three pedestal designs, swing post or turntable. The cost-effective MRH swing-post design provides 170-degrees of swing action. The MRHT turntable design offers a 330-degree full rotation with a hydraulic-driven slew-bearing drive producing a constant swing torque for consistent force during operation. On limited MRHT models, Astec can supply a hybrid 140-degree slew bearing with cylinder drive, for maximum service life on grizzly applications. All models are fitted with relief functions and back drive capability to absorb shock loading from the crusher without damaging the rock breaker system

#### **Low Profile Design**

The MRHT LP series offers a low profile design, optimal for low headings in an underground mining environment or enclosed space. The MRHT LP model is available with 330-degree gearbox drive or 160-degree cylinder swing drive.

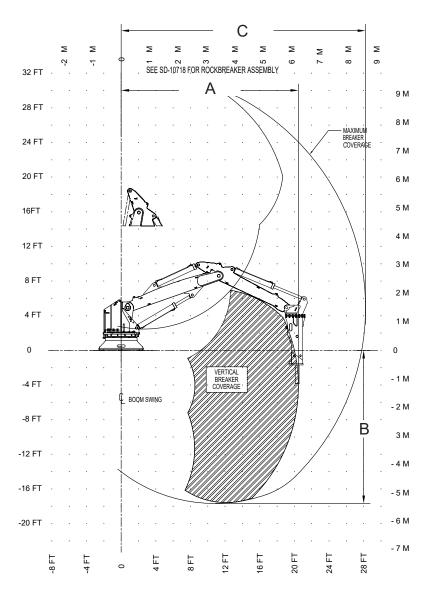
#### **Premium Controls**

Astec offers a wide range of controls for all rock breaker systems. The breaker intel control system, Astec's premium controls, provides long-distance controls for single or multiple rock breaker operations, enhanced motion control and position feedback with collision avoidance, programmable ramp generation and flow sharing that easily integrate into your current plant. The system also provides monitoring and diagnostics. Our standard proportional control comes with your choice of game-style or joysticks controller

### **Physical/Operating Characteristics**

| Model     | Operating Weight Range* |                | A                                   |     | В                                |     | С                          |      | Recommended Breaker<br>Range |
|-----------|-------------------------|----------------|-------------------------------------|-----|----------------------------------|-----|----------------------------|------|------------------------------|
|           |                         |                | Vertical Breaker<br>Reach Forward** |     | Vertical Breaker<br>Reach Down** |     | Maximum Reach<br>Forward** |      |                              |
|           | lb                      | kg             | ft                                  | m   | ft                               | m   | ft                         | m    |                              |
| MRHT16    | 16,350 - 20,800         | 7,416 - 9,434  | 16                                  | 4.8 | 13.08                            | 4.2 | 24                         | 7.3  | BX20 to BXR85                |
| MRHT20    | 16,818 - 19,648         | 7,629 - 8,899  | 20.16                               | 6.1 | 16.33                            | 4.9 | 27                         | 8.3  | BX20 to BXR65                |
| MRHT21LP  | 20,100 - 22,910         | 9,117 - 10,392 | 22                                  | 6.7 | 10                               | 3.0 | 24                         | 7.3  |                              |
| MRHT24LP  | 21,100 - 23,910         | 9,570 - 10,840 | 24                                  | 7.3 | 16                               | 4.9 | 31.75                      | 9.7  |                              |
| MRHT20/25 | 17,138 - 19,968         | 7,774 - 9,044  | 21.75                               | 6.6 | 18.75                            | 5.7 | 28.83                      | 8.7  |                              |
| MRHT25    | 17,658 - 19,808         | 8,010 - 8,985  | 24.58                               | 7.5 | 19.75                            | 6   | 31                         | 9.5  | BX20 to BXR50                |
| MRHT28    | 17,482 - 19,262         | 7,930 - 8,737  | 27                                  | 8.2 | 21.58                            | 6.5 | 33.75                      | 10.2 | BX20 to BX40                 |
| MRHT31    | 19,246 - 19,864         | 8,730 - 9,011  | 31.08                               | 9.4 | 24.33                            | 7.4 | 37.5                       | 11.4 | BX20 to BX30                 |

<sup>\*\*</sup>Dimensions nominal and subject to change based on final breaker selection





All specifications are subject to change without notice. All results may vary.

\* Operating weight is dependent on final breaker size, power pack configuration and optional equipment

<sup>\*\*</sup>Dimensions based on references from center of swing rotation