

# TSH SERIES STATIONARY BOOMS



*Tramac's TSH Series Rock Breaker Boom Systems provide unmatched reliability when the job calls for breaking light to medium hard rock with breakers up to 3,000 ft. lbs. These designs offer overall value, are heavy-duty constructed and relatively light in weight for easy installation.*

**Increased Safety & Production:** Increase safety around your primary. Eliminate the need for a worker to enter the area. Increase your up-time. Provide a steady flow of materials. Break rock, pull, poke, and stir material. Reach back into the hopper, work down along the feeder area, and into the crusher with smooth precision of control.

**Oversized Pins & Heavy-Duty Cylinders:** For equipment safety and long life, boom and cylinder pins are made with diameters that exceed requirements. Cylinders are high strength, heavy duty designs with oversized rods and built-in cushioning.

**Proper Set-Up:** The key to long equipment life and top production is to start with the boom placed in exactly the right spot. When working in your target area, a boom should be positioned in its sweet spot. In this position, it is arched symmetrically and the cylinders are in their mid-positions. Tramac engineering will gladly work with you to find the right boom base position so you can reach the areas of top priority.



**Advanced Controls:** Tramac's standard control system is fully proportional electro-hydraulic. In most cases it will be controlled by a joystick box connected to a panel at the operator's position. It's optionally possible to unplug the box from this location and move it to another plug-in location, such as near the boom base when used for maintenance and concave liner removal. Radio control—often somewhat easier to use for the local applications—is also available, normally supplied in addition to the tethered box. We're also able to interface with mine site PLC systems for monitoring alarms and for remote control functions.

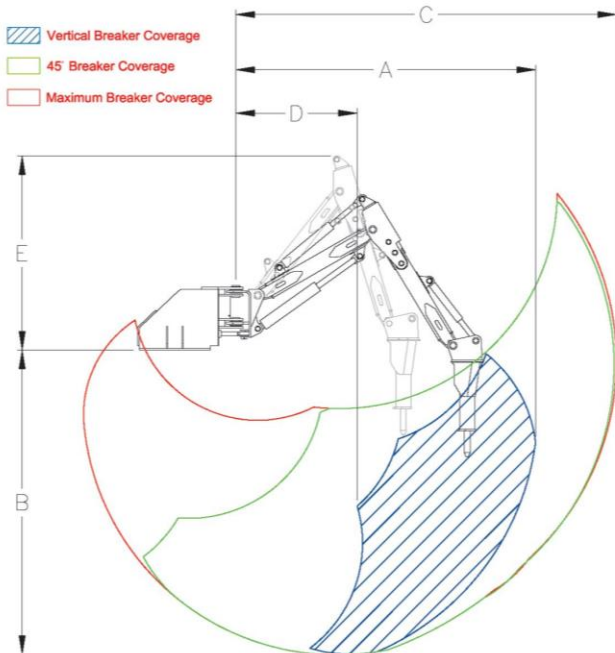
**Hydraulic Power Units:** Our proprietary designed hydraulic power units position the tank above the pump for a smaller footprint and flooded inlet. The power rating of the electric motor is determined by the selection of the breaker and its hydraulic requirements. It's not unusual for a power unit and breaker to have up to a 100 gallon (380 liter) reservoir and 50 hp (37 kW) electric motor.

**Auto Lubrication:** Auto lube systems are frequently specified. They include the breaker and all boom lube points. Also available is a manually fed lube system that brings the lines serving all points to two bulkhead locations.

### TSH Boom Specifications

Tramac Boom Model	Horizontal Reach*	Swing Rotation	Boom Weight	Hammer Class
TSH-14	14' (4.3m)	180°	6,680 lbs (3,030kg)	750 - 3,000 ft lbs (1,000 - 4,000Nm)
TSH-16	16' (4.9m)	180°	6,980 lbs (3,165kg)	750 - 3,000 ft lbs (1,000 - 4,000 Nm)
TSH-18	18' (5.5m)	180°	7,330 lbs (3,325kg)	750 - 3,000 ft lbs (1,000 - 4,000Nm)
TSH-20	20' (6.1m)	180°	7,680 lbs (3,485kg)	750 - 2,000 ft lbs (1,000 - 2,700Nm)

\*Nominal reach to centerline of breaker in a vertical position.



### TSH Booms: Example Working Ranges w/ SC-50 Hammer

Tramac Boom Model	TSH-14	TSH-16	TSH-18	TSH-20
Hammer	SC-50	SC-50	SC-50	SC-50
A	14'2" (4.3m)	16'0" (4.9m)	18'0" (5.5m)	20'0" (6.1m)
B	14'2" (4.3m)	16'2" (4.9m)	17'9" (5.4m)	19'9" (6.0m)
C	19'4" (5.9m)	20'2" (6.1m)	23'1" (7.0m)	25'1" (7.6m)
D	7'3" (2.2m)	6'5" (2.0m)	8'5" (2.6m)	7'9" (2.4m)
E	10'4" (3.2m)	10'4" (3.2m)	11'10" (3.6m)	11'10" (3.6m)

**NSSGA** NATIONAL STONE, SAND & GRAVEL ASSOCIATION

