

CDB SERIES STATIONARY BOOMS



Tramac's CDB Series Rock Breaker Boom Systems feature massive, heavy-duty steel plate construction to provide years of reliable performance and durability. These designs offer an overall redefined shape, allowing them to be installed in tight restrictive areas while still providing exceptional long-reach capability.

Down-Pressure Emphasized Design: Unlike pedestal boom designs that are based on backhoe technology where digging and lifting are the primary functions, Tramac Boom Systems emphasize down-pressure, which is essential to efficient rock-breaking applications. By placing the lift cylinder on the top of the boom, the strongest function of the cylinder is utilized – pushing, not pulling. This reduces unnecessary stress on the boom which translates into minimal service requirements and longer life.

Protected Boom Cylinders: The CDB boom lift cylinder is installed inside the boom for protection from rocks and/or colliding with platform structures. By placing the lift cylinder on top of the boom, the strongest function of the cylinder is utilized – pushing with the full section of the piston, not pulling.

Heavy-Duty Box-Section Construction: Massive heavy-duty high strength steel box-section construction with multi-plate reinforcement in high stress areas can withstand years of punishment.

Oversized Pins & Self-Aligning Bushings: Heavy-duty oversized pins with teardrop locks and replaceable bushings provide long-lasting reliability. Self-aligning bushings enhance the integrity of the pivot points for long life. Heavy-duty, high-tensile steel cylinder rods provide maximum durability.



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.



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.



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 large breaker to have a 200 gallon (380 liter) reservoir and up to 150 hp (110 kW) electric motor. We will supply, in most cases, motor voltage as site required. Most power units include: drip tray, low level/high temperature shutdown, tank heater, heat exchanger, and all necessary circuitry.

CDB Booms: Approximate Working Ranges

Boom	Breaker	A	B	C	D	E	F	G	H
CDB-40	SC-36	1'8" (.5m)	6'3" (1.9m)	5'3" (1.6m)	13'0" (4m)	16'5" (5m)	13'1" (4m)	8'7" (2.6m)	9'2" (2.8m)
	SC-42	2'0" (.63m)	6'3" (1.9m)	5'6" (1.7m)	13'0" (4m)	16'8" (5.1m)	13'5" (4.1m)	8'7" (2.6m)	9'2" (2.8m)
	SC-50	2'2" (.7m)	6'3" (1.9m)	5'10" (1.8m)	13'0" (4m)	17'0" (5.2m)	13'9" (4.2m)	8'7" (2.6m)	9'2" (2.8m)
	N2000	4'0" (1.2m)	6'3" (1.9m)	7'6" (2.3m)	13'0" (4m)	18'0" (5.5m)	15'4" (4.7m)	8'7" (2.6m)	9'2" (2.8m)
	700	3'7" (1.1m)	6'3" (1.9m)	7'2" (2.2m)	13'0" (4m)	18'0" (5.5m)	15'1" (4.6m)	8'7" (2.6m)	9'2" (2.8m)
501-NG	4'2" (1.3m)	6'3" (1.9m)	7'10" (2.4m)	13'0" (4m)	18'4" (5.6m)	15'8" (4.8m)	8'7" (2.6m)	9'2" (2.8m)	

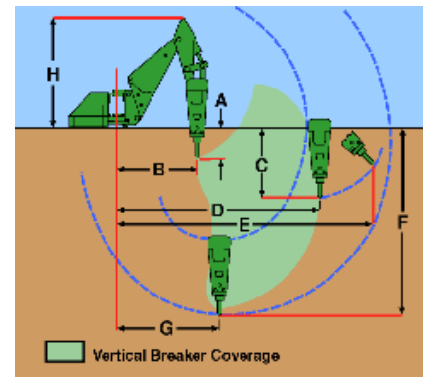
Boom	Breaker	A	B	C	D	E	F	G	H
CDB-61	900	1'11" (.58m)	6'4" (1.9m)	7'10" (2.4m)	15'6" (4.7m)	20'8" (6.3)	14'1" (4.3m)	9'10" (3m)	13'5" (4.1m)
	N3000	2'0" (.64m)	6'4" (1.9m)	7'10" (2.4m)	15'6" (4.7m)	20'10" (6.37m)	14'5" (4.4m)	9'10" (3m)	13'5" (4.1m)
	V32	2'5" (.75m)	6'4" (1.9m)	8'2" (2.5m)	15'6" (4.7m)	21'4" (6.5m)	14'9" (4.5m)	9'10" (3m)	13'5" (4.1m)
	N5000	3'3" (1m)	6'4" (1.9m)	9'2" (2.8m)	15'6" (4.7m)	21'8" (6.6m)	15'5" (4.7m)	9'10" (3m)	13'5" (4.1m)

Boom	Breaker	A	B	C	D	E	F	G	H
CDB-61	900	1'0" (.26m)	9'11" (3m)	3'10" (1.2m)	19'10" (6m)	25'2" (7.7m)	16'7" (5m)	11'5" (3.5m)	16'4" (4.5m)
	N3000	1'11" (.32m)	9'11" (3m)	4'1" (1.25m)	19'10" (6m)	25'4" (7.7m)	16'10" (5.1m)	11'5" (3.5m)	16'4" (4.5m)
	V32	1'5" (.43m)	9'11" (3m)	4'5" (1.3m)	19'10" (6m)	25'7" (7.8m)	17'2" (5.2m)	11'5" (3.5m)	16'4" (4.5m)
N5000	2'2" (.67m)	9'11" (3m)	5'2" (1.6m)	19'10" (6m)	26'1" (8m)	17'11" (5.5m)	11'5" (3.5m)	16'4" (4.5m)	

Boom	Breaker	A	B	C	D	E	F	G	H
CDB-71	900	1'7" (.47m)	11'0" (3.4m)	4'8" (1.4m)	23'4" (7.1m)	28'8" (8.7m)	20'0" (6.1m)	13'6" (4.1m)	17'6" (5.3m)
	N3000	1'9" (.54m)	11'0" (3.4m)	4'10" (1.5m)	23'4" (7.1m)	28'10" (8.8m)	20'3" (6.2m)	13'6" (4.1m)	17'6" (5.3m)
	V32	2'4" (.65m)	11'0" (3.4m)	5'2" (1.6m)	23'4" (7.1m)	29'0" (8.9m)	20'7" (6.3m)	13'6" (4.1m)	17'6" (5.3m)
	N5000	2'11" (.9m)	11'0" (3.4m)	6'0" (1.8m)	23'4" (7.1m)	29'7" (9m)	21'5" (6.5m)	13'6" (4.1m)	17'6" (5.3m)

Boom	Breaker	A	B	C	D	E	F	G	H
CDB-80	SC-50	1'8" (.5m)	6'7" (2m)	5'10" (1.8m)	16'0" (4.9m)	19'8" (6m)	15'1" (4.6m)	10'2" (3.1m)	10'8" (3.3m)
	N2000	2'10" (.88m)	6'7" (2m)	6'10" (2.1m)	16'0" (4.9m)	21'0" (6.4m)	16'5" (5m)	10'2" (3.1m)	10'8" (3.3m)
	700	2'11" (.9m)	6'7" (2m)	7'2" (2.2m)	16'0" (4.9m)	21'0" (6.4m)	16'5" (5m)	10'2" (3.1m)	10'8" (3.3m)
	501-NG	3'7" (1.1m)	6'7" (2m)	7'6" (2.3m)	16'0" (4.9m)	21'4" (6.5m)	17'0" (5.2m)	10'2" (3.1m)	10'8" (3.3m)
	900	3'3" (1m)	6'7" (2m)	7'6" (2.3m)	16'0" (4.9m)	21'4" (6.5m)	17'0" (5.2m)	10'2" (3.1m)	10'8" (3.3m)
N3000	3'7" (1.1m)	6'7" (2m)	7'10" (2.4m)	16'0" (4.9m)	21'4" (6.5m)	17'0" (5.2m)	10'2" (3.1m)	10'8" (3.3m)	

Boom	Breaker	A	B	C	D	E	F	G	H
CDB-90	SC-50	1'7" (.48m)	8'2" (2.5m)	4'11" (1.5m)	19'8" (6m)	23'7" (7.2m)	18'4" (5.6m)	11'2" (3.4m)	12'9" (3.9m)
	N2000	2'11" (.9m)	8'2" (2.5m)	6'5" (1.9m)	19'8" (6m)	24'7" (7.5m)	19'8" (6m)	11'2" (3.4m)	12'9" (3.9m)
	700	2'11" (.9m)	8'2" (2.5m)	6'7" (2m)	19'8" (6m)	24'7" (7.5m)	19'8" (6m)	11'2" (3.4m)	12'9" (3.9m)
	501-NG	3'7" (1.1m)	8'2" (2.5m)	6'11" (2.1m)	19'8" (6m)	25'3" (7.7m)	20'4" (6.2m)	11'2" (3.4m)	12'9" (3.9m)
	900	3'3" (1m)	8'2" (2.5m)	6'11" (2.1m)	19'8" (6m)	25'0" (7.6m)	20'4" (6.2m)	11'2" (3.4m)	12'9" (3.9m)
	N3000	3'7" (1.1m)	8'2" (2.5m)	7'2" (2.2m)	19'8" (6m)	25'3" (7.7m)	20'7" (6.3m)	11'2" (3.4m)	12'9" (3.9m)



CDB Boom Specifications

Boom	Horizontal Reach*	Swing Arc	Boom Weight	Hammer Class
CDB-40	13' (4.0m)	170°	7,900 lbs (3,583kg)	1,000 - 2,000 ft lbs (1,400 - 2,700Nm)
CDB-50	16' (5.0m)	170°	8,600 lbs (3,901kg)	1,500 - 3,000 ft lbs (1,400 - 4,000Nm)
CDB-60	20' (6.0m)	170°	9,600 lbs (4,354kg)	1,500 - 3,000 ft lbs (1,400 - 4,000Nm)
CDB-51	16' (5.0m)	170°	10,000 lbs (4,535kg)	3,000 - 5,000 ft lbs (4,000 - 6,800Nm)
CDB-61	20' (6.0m)	170°	11,000 lbs (4,990kg)	3,000 - 5,000 ft lbs (4,000 - 6,800Nm)
CDB-71	23' (7.0m)	170°	13,000 lbs (5,895kg)	3,000 - 5,000 ft lbs (4,000 - 6,800Nm)

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

