

Pedestal Breaker System™

Allied's stationary boom systems



- World-class engineering
- Long-term reliability
- High productivity
- Crew safety
- Three series available

The Allied Pedestal



PowerBoom™ Series

The best power to weight ratio for a 180° swing boom.

- Allied PowerBooms come in 18 standard models with horizontal reach from 10 ft. to 25 ft.
- These units work with hydraulic breakers from 550 ft. lbs. through 3,500 ft. lbs.
- Ideal for portable, mobile or stationary installations utilizing jaw and impact crushers with a vibratory feeder and rock box.
- Designed for concrete and asphalt recycling, limestone, granite or any other operation requiring 180° swing or 190° swing with Type A Series.
- Fully assembled, factory tested, ready to operate when oil and electrical power is added.

Designed, built, installed and backed

Allied has led the field in stationary pedestal boom systems for more than a quarter of a century. This experience, combined with a quality engineered product, ensures that Allied pedestal boom systems will operate under the most severe applications. An Allied system will allow crushers to achieve capacity and improve safety in your mining and quarry applications.

Allied builds boom systems to last.

We use high strength, structural grade steel. These tubular steel sections have minimum tensile strengths of 58,000 psi. Allied utilizes large diameter, hardened alloy steel pins and bushings

for all pivot points. These carry the torsional and structural loads safely to the base.

Allied assures proper installation by accurately selecting the correct size boom for the job. Proposal drawings illustrate the correct elevation and set-back. Operational range diagrams demonstrate the pedestal boom system's capabilities. Foundation moment and load specifications are also provided.

Operational-tested. Maintenance training.

Each pedestal hydraulic system, power unit and attachment is operational-tested and

inspected prior to delivery. This guarantees the unit is ready for installation right off the truck. An Allied technical representative provides on-site system operation and maintenance training.

Reliability. Productivity. Safety.

Allied pedestal boom systems are at work on mobile, portable or stationary crushing plants in mines, quarries and industrial sites throughout the world. They are built to work three-shift days, even under the most severe conditions. Allied pedestal boom systems are mounted at the primary jaw, impact or gyratory crusher for secondary breaking applications. These systems quickly

Breaker System™ (With four systems



PowerPlus™ Series

The heavyweight for a 185° swing boom.

- Allied PowerPlus booms come in 4 standard models with horizontal reach from 20 ft. to 31 ft.
- These are the heaviest booms in the industry for a 185° swing pedestal mounted unit, and are matched to breakers from 1,500 ft. lbs. through 5,500 ft. lbs.
- Ideal for jaw, impact or gyratory crushing plants set-up to handle large trucks with an increased duty-cycle up to 5,500 ft. lb. breakers for the largest, hardest rock.
- Designed for raking bridged material or breaking oversize material.

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and safely break and rake oversize, bridged or frozen material to maintain constant flow and keep the primary crusher working at its maximum capacity. Downtime is reduced and dangerous removal procedures, such as personnel entering the crusher to break oversize material with hand-held tools and blasting, are eliminated. Operators are placed a safe distance away from the open crusher and flying debris.

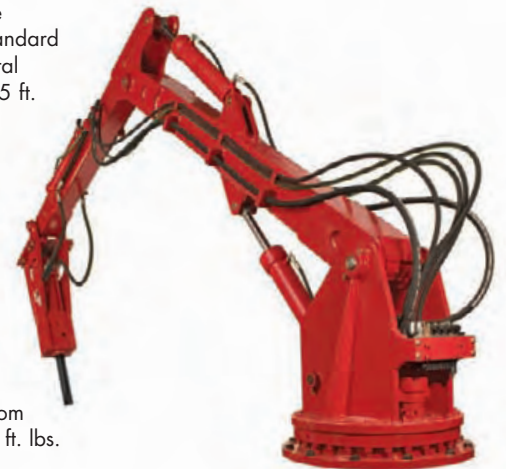
Product Support and Warranty.

Allied pedestal boom systems are backed by the strongest product support and warranty in the industry.

PowerPortable™ Series

The lightweight system with heavy-duty attributes.

- Allied PowerPortable booms come in 9 standard models with horizontal reach from 8 ft. to 15 ft. with custom configurations available to specifically match an application.
- Turntable-mounted systems provide up to 300° of swing rotation.
- Well-suited to handle hydraulic breakers from 200 ft. lbs. to 1,600 ft. lbs.



- Ideal for portable and mobile crusher applications especially where transport weight and dimensions are a primary concern.
- Specifically-designed power units and hydraulic interface kits that tie into existing crusher hydraulic systems are available.

to choose from, one is right for your Primary Crusher.)



PowerMax™ Series

The ultimate performance in a turntable system.

- Allied PowerMax booms come in 5 standard models with horizontal reach from 26 ft. to 40 ft.
- These turntable-mounted, 300° swing units offer the highest duty-cycles in the industry and are matched with hydraulic breakers from 2,000 ft. lbs. through 7,000 ft. lbs.
- Designed to operate continuously on the largest gyratory or stationary plants in mining or quarry operations with the toughest, hardest, most abrasive raking and breaking applications.
- Ideal to operate over large pits, these units have constant swing torque throughout their rotation for the best raking and breaking efficiency.
- Allied turnable systems do not interfere with crusher production as they rotate free of the pit during routine boom and breaker maintenance.

The Allied Advantage

- Choice of 40 standard models, ranging from 8 ft. to 40 ft. horizontal reach with custom configurations available.
- 180°, 185° (PowerPlus Series), 190° (Type A Series) swing frame or 300° (PowerMax Series) turntable-style.
- Choice of 24 hydraulic impact breakers from 550 ft. lbs. to 7,000 ft. lbs.
- Choice of 5 power units from 30 HP to 100 HP.
- All hydraulic operation.
- Variety of attachments available including Sandvik, AR Series™ and Hy-Ram® breakers, grapples, picks, etc.
- All systems include positioning boom, attachment, operator controls and electric power unit.
- Engineered site analysis and reach drawings for proper system selection.
- Customized unit can be designed and built for specific application.
- Each system is shipped completely assembled and ready to mount onto a structural or concrete base.
- On-site start-up supervision *and* operator and maintenance training.
- Original parts, technical and product support available through Allied and Authorized Distributors.

Many standard features and options to choose from:



Sandvik, AR Series™ and Hy-Ram® Hydraulic Breakers

Allied hydraulic breakers are built to do the toughest jobs and engineered for dependability and long life. With 24 models to choose from, ranging from 550 ft. lbs. to 7,000 ft. lbs., Allied will help you select the right one for your breaking or raking application. Sandvik, AR Series™ and Hy-Ram® breakers feature:

- Optimized designs to increase energy output and efficiency.
- Longer length tools available for extended reach.
- Long-stroke design to protect booms from damaging recoil.
- Optimized performance by using oil from the pump combined with an all oil hydraulic operation to increase energy output and efficiency.
- Heavy-duty abrasion-resistant mounting brackets.
- Longer length tools available for extended reach.
- Specially treated tools designed for longer service life.
- Hydraulic brake to prevent blank-firing and protect against excessive heat build-up.
- A design that allows for cold ambient temperature warm-up of the breaker.
- Constant blow energy for maximum breaking power with every blow.
- Tool bushings are slip-fit for easy removal reducing service time.



Allied Power Units

Allied offers power units from 30 hp up to 100 hp, which operate both the pedestal boom and breaker, are carefully matched to your pedestal boom system to ensure maximum performance and productivity. Since the power is separate from the boom, it can be mounted in any convenient location near the work station. Allied power units include:

- Variable volume, pressure compensated, load sensing piston pump.
- Pressure, return and air filters to protect against contamination.
- Low oil, high temperature and filter bypass switches.
- Immersion heater.
- Tank cleanout cover.
- Coupling guards.
- Flooded pump inlets.
- Combination sight level and temperature gauges.



System Options

Customize your pedestal boom system by adding:

- Electrohydraulic joystick remote control.
- Radio, coaxial cable and fiber optics.
- Auto lubrication systems for boom and breaker
- Specialized attachments such grapples, spades, picks and compaction plates.
- Diesel Power Unit
- Climate controlled cabs.



Electrohydraulic joystick remote control.

Standard package includes manual control valve console and stand.

Breakers

Model	AR 70C*	BR623*	HR230**	AR 75B*	BR825*	HR270**	HR290**	AR 85B*	BR927*	HR330**	AR 95B*	BR1229**	AR 110B**	E 64**	AR 120B**	HR390**	BR2155**	HR470**	AR 130B**	BR2577**	HR560**	AR 140B**	BR3288**	HR600**
Impact Energy Class ft. lbs.	500	500	500	750	750	750	1000	1100	1150	1400	1500	1600	2000	2000	2500	2500	3000	3000	3500	4000	5000	5500	5500	7000

*Model has bolt-on ("T-Style") side-plates and includes bolt-on Top-Mounting Bracket).
 **Model has abrasion-resistant Box-Style housing with rock hook and includes Top-Mounting Bracket.

Power Units

Model	Use With	Electric/Diesel Motor hp (kW)	Pump Capacity Maximum gpm (lpm)	System Pressure Maximum psi(kg/cm ²)	Capacity Maximum Oil Volume gal. (liter)	Length in. (mm)	Width in. (mm)	Height in. (mm)	Empty Weight lbs. (kg)	Description
3430	PowerBoom	30 (22) E	34 (130)	3000 (210)	55 (210)	50 (1270)	40 (1020)	42 (1065)	1500 (680)	• Variable Volume/Pressure
3450	PowerBoom PowerPlus	50 (37) E	34 (130)	3000 (210)	55 (210)	50 (1270)	40 (1020)	42 (1065)	1750 (795)	• Compensated/Load Sensing Piston Pump
5875	All Models	75 (55) E	58 (220)	4000 (280)	105 (400)	68 (1725)	60 (1525)	60 (1525)	2275 (1035)	• Immersion Heater Pressure/Return/Air Filtration
58100	PowerPlus PowerMax	100 (75) E	58 (220)	4000 (280)	105 (400)	71 (1805)	60 (1525)	70 (1780)	3150 (1430)	• Low Oil Level/High Temperature/Filter Bypass Switches

Booms

Series	Weights lbs. (kg)	Description
PowerBoom		
1102	7430 (3380)	180° Swing Rotation
1404	7620 (3460)	6 1/4" (160 mm) Diameter Boom Cylinders
1505	7700 (3500)	Dual 4" (100 mm) Diameter Swing Cylinders
1505HD	8200 (3730)	Manual Control Console and Stand
1610	7700 (3500)	Pedestal Base 37 1/4" x 48" (946 mm x 1219 mm)
1704	7810 (3550)	Bolt-Down Style
1705	7750 (3520)	Options include:
1807	7990 (3630)	Electrohydraulic Controls (EHC) Remote
1807HD	8590 (3900)	Joystick Box with Cable
1811	7830 (3560)	Radio Controls
1906HD	8650 (3930)	Auto Lubrication Systems
2013	7990 (3630)	Air/Heat Control Cabin
2109	8210 (3730)	
2209	8270 (3760)	
2215	8210 (3730)	
2317	8350 (3800)	
2411	8590 (3900)	
2518	8590 (3900)	
PowerBoom Type A Series		
1607	7150 (3300)	190° Swing Rotation
1809	7400 (3400)	4.3" (110 mm) Diameter Boom Cylinders
2010	7650 (3500)	Dual 3.9" (100 mm) Diameter Swing Cylinders
2112	8300 (3800)	Manual Control Console and Stand
		Pedestal Base 37 1/4" x 48" (946 mm x 1219 mm)
		Bolt-Down Style
		Options include: (see PowerBoom listed above)

Series	Weights lbs. (kg)	Description
PowerPlus		
2009	12600 (5700)	185° Swing Rotation
2311	13000 (5900)	Boom and Stick Cylinder 5 1/8" (130 mm)
2714	13500 (6100)	Hammer Cylinder 4.3" (110 mm)
3117	14100 (6400)	Dual 3.9" (100 mm) Diameter Swing Cylinders
		Remote Control Console for Boom with Foot Switch for Breaker Operation
		Pedestal Base 58" x 58" (1473 mm x 1473 mm)
		Bolt-Down Style
PowerMax		
2615	25500 (11600)	300° Turntable Rotation
3217	26200 (11900)	Dual 5 1/8" (130 mm) Diameter High Pressure Boom and Stick with Single Attachment Cylinders
3319	28900 (13100)	Single Ball Bearing Turntable
3418	29400 (13400)	Bearing, Driven by Low Speed, High Torque Piston Motor through a Single Pinion and Ring Gear Manual Control Console and Stand with Foot Switch for Breaker Operation
3922	29800 (13500)	Electrohydraulic Controls (EHC) Remote Joystick Box with Cable
		Pedestal Base 89" (2260 mm) Diameter Bolt-Down Style, with Integral Shock-Absorbing Base Assembly
PowerPortable Application Specific		
	1700(782) to 2600 (1180)	Horizontal reaches from 8' to 15'
		300° Swing Rotation
		3 1/2" Cylinders
		21" or 26" Diameter Swing Bearings
		High-Torque Swing Motor
		Electrohydraulic Controls (EHC) Standard
		Radio Controls (Optional)

For sales and service, contact your Allied Distributor:



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