



# PEDESTAL ROCK BREAKER BOOM SYSTEMS



*• Application Experienced • Proven Robust Design • Profitable • Safety Conscious*

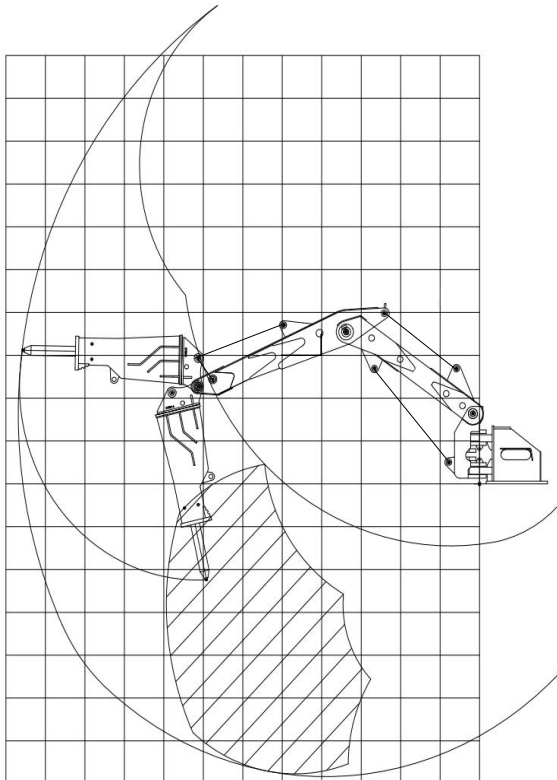


At Okada America Inc., decades of site engineering and breaking experience in quarries and mines throughout the Western Hemisphere have merged with proven Pedestal Rock Breaker Boom System technology. This foundation of success provides operators and owners with peace of mind. It ensures a quick Return On Investment.

Okada offers Pedestal Rock Breaker Boom Systems designed specifically for primary stationary crushing plants, as well as mobile and portable plants. These rock breaker systems work in unison with impact, jaw and gyratory crushers, keeping these crushers fed to achieve their rated capacities.

Okada ensures proper installation by accurately selecting the correct size breaker and boom for each specific application. Each Okada boom system, hydraulic power unit and breaker is motion tested and inspected prior to shipment. We assist by offering installation supervision, first use start-up and commissioning, operator and maintenance training.

Okada Pedestal Rock Breaker Systems not only assist crushers to meet their rated capacity but also provide a safer means of alleviation blockages at the crusher caused by oversize, wedging and bridging materials.



- Choice of 25 pedestal breaker boom models with a horizontal reach of 10 feet to 40 feet.
- Choice of eleven ORV Series, box-housed hydraulic breakers from 375 - 10,000 foot-pound impact energy class
- Choice of 7 electric/hydraulic power units with 20 HP to 150 HP, sized appropriately for optimum breaker power.
- All Electric/Hydraulic operation with optional electrical enclosure with start/stop control, circuit protection, and indicators for maintenance.
- All boom systems include positioning boom, breaker, operator controls and electric power unit.
- Engineered site assessment for proper system selection, breaker size selection and safe working range assurance.
- Electrical/Hydraulic remote controls
- Optional Premium and Radio Remote Controls • Optional Pan-Zoom Camera system with either coax cable control or fiber optic control
- Optional Integrated Package with breaker boom system, power pack and operator's cab, mounted collectively on an upper carriage platform.

# Pedestal Rock Breaker Specifications

## Models for Stationary Applications

Series - Model	Horizontal Reach <sub>1</sub>	Vertical Reach <sub>2</sub>	Maximum Reach <sub>3</sub>	Boom Unit Operating Wt.	Lift Capacity at Max Reach <sub>4</sub>	Hammer Range	Hydraulic Power Unit
<b>S-Duty*</b>	ft. (m)	ft. (m)	ft. (m)	lb. (kg)	lb. (kg)	ORV Series	Horsepower
<b>12S</b>	12 (3.6)	7'-10' (2.1-3.0)	16'-18' (4.8-5.5)	7,400 (3356)	3,500 (1587)	ORV800-ORV3000	30, 50 and 60
<b>14S</b>	14 (4.3)	9'-11' (2.7-3.4)	19'-21' (5.8-86.4)	7,600 (3447)	3,500 (1587)	ORV800-ORV3000	30, 50 and 60
<b>16S*</b>	16 (4.9)	9'-12' (2.7-3.6)	20'-22' (6.0-6.7)	7,700 (3500)	3,500 (1587)	ORV800-ORV3000	30, 50 and 75
<b>18S</b>	18 (5.5)	10'-12' (3.0-3.6)	16'-24' (6.5-7.3)	7,800 (3537)	3,500 (1587)	ORV800-ORV3000	30, 50 and 75
<b>20S*</b>	20 (6.1)	12'-15' (3.6-4.6)	23'-25' (7.0-7.6)	8,000 (3625)	3,500 (1587)	ORV800-ORV3000	30, 50 and 75
<b>22S</b>	22 (6.7)	14'-17' (4.3-5.2)	26'-28' (7.9-8.5)	8,200 (3720)	3,500 (1587)	ORV800-ORV3000	30 and 50
<b>25S</b>	25 (7.6)	16'-19' (4.9-5.8)	29'-31' (8.8-9.4)	8,430 (3820)	3,500 (1587)	ORV800-ORV3000	30 and 50

\*The 16S to 20S units are also available in an extra reinforced versions (16S-X to 20S-X) to accept a 4,000 ft-lb Impact Energy Class hammer (Model ORV4000). These booms have reinforced dipper stick sections with larger mounting hardware. Add 600 lbs. to the operating weight. Contact Okada America Inc. for additional details.

Series Model	Horizontal Reach <sub>1</sub>	Vertical Reach <sub>2</sub>	Maximum Reach <sub>3</sub>	Boom Unit Operating Wt.	Lift Capacity at Max Reach <sub>4</sub>	Hammer Range	Hydraulic Power Unit
<b>H-Duty*</b>	ft. (m)	ft. (m)	ft. (m)	lb. (kg)	lb. (kg)	ORV Series	Horsepower
<b>21H</b>	20 (6.1)	16'-18' (4.9-5.6)	27'-29' (8.2-8.8)	14,000 (6350)	4,400 (1995)	ORV2500-ORV5000	50, 75 and 100
<b>24H</b>	24 (7.3)	19'-21' (5.8-6.4)	30'-32' (9.1-9.7)	14,400 (6530)	4,400 (1995)	ORV2500-ORV5000	50, 75 and 100
<b>28H</b>	28 (8.5)	22'-24' (6.7-7.3)	34'-36' (10.4-11.0)	14,800 (6710)	4,400 (1995)	ORV2500-ORV5000	50, 75 and 100
<b>32H</b>	32 (9.8)	24'-27' (7.3-8.2)	38'-40' (11.6-12.2)	15,590 (7070)	3,500 (1590)	ORV2500-ORV4000	50 and 75

\*All H-Duty units are also available with a Turn-Table slew bearing swing base; example: 20H-T. These booms provide 2 ft. (0.6m) less Horizontal and Maximum Reach due to swing center. Add 2,000 lbs. to the operating weight of these units. Contact Okada America Inc. for additional details.

Series Model	Horizontal Reach <sub>1</sub>	Vertical Reach <sub>2</sub>	Maximum Reach <sub>3</sub>	Boom Unit Operating Wt.	Lift Capacity at Max Reach <sub>4</sub>	Hammer Range	Hydraulic Power Unit
<b>X-T Duty*</b>	ft. (m)	ft. (m)	ft. (m)	lb. (kg)	lb. (kg)	ORV Series	Horsepower
<b>27X-T</b>	27 (8.3)	21'-24' (6.4-7.3)	31'-34' (9.4-10.4)	25,500 (11565)	5,950 (2698)	ORV3000-ORV7500	75, 100 and 125
<b>33X-T</b>	33 (10)	25'-28' (7.6-8.5)	35'-37' (10.6-11.2)	26,200 (11882)	5,950 (2698)	ORV3000-ORV7500	75, 100 and 125
<b>35X-T</b>	35 (10.6)	27'-30' (7.3-9.1)	38'-41' (11.5-12.5)	29,400 (13333)	5,950 (2698)	ORV3000-ORV7500	75, 100 and 125
<b>40X-T</b>	40 (12.2)	29'-32' (8.8-9.8)	42'-45' (12.8-13.7)	29,750 (13500)	5,950 (2698)	ORV3000-ORV7500	75, 100 and 125
<b>40X-T Deluxe</b>	40 (12.2)	28'-30' (8.6-8.9)	41'-44' (12.5-13.4)	66,500 (30159)	8,400 (3810)	ORV7500-ORV10000	125 and 150

(\*) All X-T Duty units are configured with a Turn-Table slew bearing swing base as standard. (^) The 40X-T Deluxe 'goose neck' boom unit.

## Models for Mobile Track and Portable Plant Applications

Series-Model	Horizontal Reach <sub>1</sub>	Vertical Reach <sub>2</sub>	Maximum Reach <sub>3</sub>	Boom Unit Operating Wt.	Lift Capacity at Max Reach <sub>4</sub>	Hammer Range	Hydraulic Power Unit
<b>10MP</b>	10 (3.0)	5'-7' (1.5-2.1)	14'-16' (4.2-4.8)	1,700 (770)	1,390 (630)	ORV400-ORV1300	HPU-20, HPU-30 (or PTO of plant)
<b>13MP</b>	13 (3.9)	5'-7' (1.5-2.1)	17'-19' (5.2-5.8)	2,200 (978)	1,390 (630)	ORV400-ORV1300	HPU-20, HPU-30 (or PTO of plant)

- (1) Approximate Horizontal Reach with hammer in vertical position, from boom swing center to center line of hammer tool.
- (2) Approximate Vertical Reach varies due to length of hammer model. Measures from boom base to tool tip.
- (3) Approximate Maximum Horizontal Reach with hammer stretched out. Measured from platform edge to tool tip.
- (4) Safe Lift Capacity at Maximum Horizontal Reach with hammer stretched out. Capacity increases as hammer approaches the base.
- (T) Turntable 270-330 degree swing; (MP) Mobile / Track & Portable Crusher Plant appropriate

# Breaker Specifications & Hydraulic Power Unit Selection

MODELS	ORV405H	ORV550H	ORV800SH	ORV1100H	ORV1500H	ORV2500H	ORV3000H	ORV4000H	ORV5000H	ORV7500H	ORV10000
<b>Impact Energy Class</b> ft-lb (J)	375 (509)	550 (746)	850 (1153)	1100 (1492)	1500 (2034)	2500 (3390)	3000 (4068)	4000 (5424)	5000 (6780)	7500 (10170)	10000 (13561)
<b>Operating Weight</b> lb (kg)	413 (187)	575 (261)	730 (331)	1118 (507)	1667 (507)	1990 (902)	2550 (1156)	3500 (1587)	4400 (1995)	5950 (2698)	8400 (3810)
<b>Working length</b> in (cm)	55 (139)	62 (157)	63 (160)	75 (190)	83(212)	89 (226)	91(231)	103 (262)	114 (290)	124 (315)	141 (358)
<b>Tool Diameter</b> in (mm)	2.24 (57)	2.75 (70)	2.95 (75)	3.14 (80)	3.54 (90)	4.1 (104)	4.5 (114)	5.3 (135)	5.7 (145)	6.1 (155)	6.7 (170)
<b>Oil Flow</b> gpm (lpm)	8-18 (30-70)	11-18 (42-68)	14-20 (53-76)	15-23 (57-87)	16-26 (61-98)	25-35 (95-132)	32-42 (121-159)	40-53 (151-201)	47-63 (178-238)	63-72 (238-273)	64-85 (238-322)
<b>Operating Pressure</b> psi (bar)	1280-1740 (88-118)	1600-2400 (110-165)	1740-2400 (120-165)	1990-2465 (137-170)	1990-2465 (137-170)	2030-2700 (140-186)	2030-2700 (140-186)	2275-2700 (157-186)	2275-2700 (157-186)	2275-2700 (157-186)	2130-2700 (147-180)
<b>Horsepower</b> HP (kW)	20 (15)	30 (22)	30 (22)	30 (22)	30 (22)	50 (37)	75 (55)	75 (55)	100 (75)	125 (92)	150 (110)
<b>Reservoir</b> gal (liters)	50 (189)	50 (189)	55 (208)	55 (208)	55 (208)	55 (208)	105 (400)	105 (400)	105 (400)	105 (400)	200 (757)
<b>HPU Pump Flow</b> gpm (lpm)	17 (64)	24 (90)	34 (129)	34 (129)	34 (129)	34 (129)	34 (129)	58 (220)	58 (220)	58 (220)	80 (303)
<b>HPU Pump Pressure</b> psi (bar)	2700 (186)	2700 (186)	3000 (207)	3000 (207)	3000 (207)	3000 (207)	3000 (207)	3000 (276)	3000 (276)	4000 (276)	4000 (276)
<b>Reservoir Heater</b>	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Standard
<b>Air-to-Oil Cooler Assembly</b>	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Standard

Breaker Manufacturing is ISO 9001 & 14001 Certified

## Quarry Preferred - Proven Breaker Priority Electro-Hydraulics



NEMA 4 Rated Enclosures



## Premium EHC Remote Controller Package



## Premium Radio Remote Controller Package



Automatic Lubrication System

MOIL CHISEL BLUNT



## Working Tool Selection

**Moil** is ideal for softer, abrasive material where high penetration is needed; similar to the blunt it results in less torque in the front cap

**Chisel** is suitable for angular and slab material; tool provides wedge effect impact and good penetration

**Blunt** is used for oversize boulder and homogeneous material breaking; tool impact delivers the stress wave generated by the hammer causing the material to fracture; best wear resistance



**Okada America (West)**  
12950 SE Hwy 212 BLDG D  
Clackamas, OR 97015  
Tel: 503.557.7033  
Fax: 503.557.7779

**Okada America (East)**  
904 Medina Road  
Medina, OH 44256  
Tel: 330.239.2666  
Fax: 330.239.3670

**Okada America (South)**  
3575 Windmill Rd., Bldg. #2  
Joshua, TX 76058



NSSGA Member