

INSTALLATION EQUIPMENT

— FOR —

THERMAL & INTEGRATED MATERIALS



ALLIED
MINERAL
PRODUCTS

Global **Refractory** Solutions



ABOUT ALLIED

Allied Mineral Products is a world leader in the design and manufacture of monolithic refractories and precast shapes. With strong sales and service teams in the foundry, aluminum, steel, heat treat/forge and industrial markets, our success is based on our dedication to *Being There Worldwide with Refractory Solutions*.

Producing quality, consistent products is top priority at Allied and we have the products to meet your refractory needs. Our extensive product line includes innovative refractory technology and longstanding refractory alternatives.

Allied's focus on quality at every stage in the production process is unparalleled. A stringent raw material standard and global quality control testing before and after each batch is produced, provides customers with consistent products. We provide quick response times to any urgent request through flexible manufacturing systems at all our manufacturing facilities.

Global Refractory Solutions





IDEAL AIR RAMMERS

Air rammers are a rotating air driven device used on the walls or floor of DRI-VIBE® installation materials.

MINI AIR RAMMERS

5300000068 AIR 2-ARM WALL RAMMER 13"-20"

THREE ARM AIR RAMMERS

5300000085 AIR 3-ARM WALL RAMMER 20"-35"

5AIR6 AIR 3-ARM WALL RAMMER 20"-35"

5300000087 AIR 3-ARM WALL RAMMER 28"-43"

5300002264 AIR 3-ARM WALL RAMMER 32"-47"

5300000089 AIR 3-ARM WALL RAMMER 36"-51"

5300000078 AIR 3-ARM WALL RAMMER 40"-55"

5AIR11 AIR 3-ARM WALL RAMMER 44"-59"

*Other rammer sizes available for larger furnaces

TWO ARM AIR RAMMERS

5300000077 AIR 2-ARM WALL RAMMER 15"-24"

5300000083 AIR 2-ARM WALL RAMMER 19"-28"

5AIR3 AIR 2-ARM WALL RAMMER 20"-35"

5300000084 AIR 2-ARM WALL RAMMER 24"-39"

FIVE ARM AIR RAMMERS

5AIR12 AIR 5-ARM WALL RAMMER 36"-51"

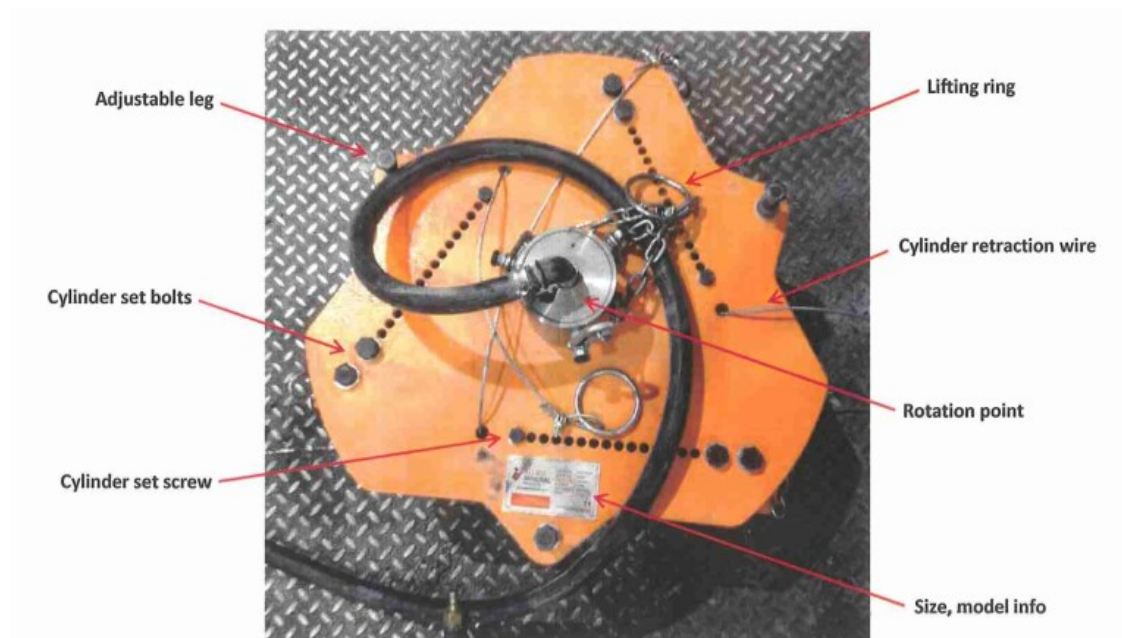
5AIR13 AIR 5-ARM WALL RAMMER 40"-55"

5300000081 AIR 5-ARM WALL RAMMER 44"-59"

5AIR15 AIR 5-ARM WALL RAMMER 48"-63"

5AIR16 AIR 5-ARM WALL RAMMER 52"-67"

5AIR17 AIR 5-ARM WALL RAMMER 56"-71"



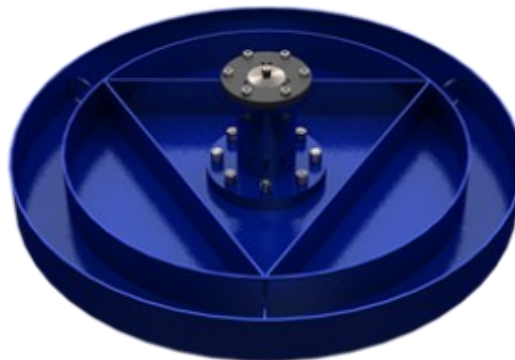


BOTTOM RAMMERS

Bottom rammers help to compact refractory to an equal density, while also extending the life of the refractory. This allows manpower to become more efficient and economic – helps save time and reduce risk.

ITEM CODE	DESCRIPTION
5AIRBRM1	AIR BOTTOM RAMMER 12" DIAMETER
5AIRBR1	AIR BOTTOM RAMMER 16" DIAMETER
5AIRBR2	AIR BOTTOM RAMMER 20" DIAMETER
5AIRBR3	AIR BOTTOM RAMMER 24" DIAMETER
5300002687	AIR BOTTOM RAMMER 28" DIAMETER
5300000062	AIR BOTTOM RAMMER 32" DIAMETER
5300000063	AIR BOTTOM RAMMER 35" DIAMETER
5AIRBR10	AIR BOTTOM RAMMER 51" DIAMETER
5AIRBR11	AIR BOTTOM RAMMER 55" DIAMETER
5AIRBR12	AIR BOTTOM RAMMER 59" DIAMETER
5AIRBR13	AIR BOTTOM RAMMER 63" DIAMETER
5AIRBR14	AIR BOTTOM RAMMER 67" DIAMETER
5AIRBR15	AIR BOTTOM RAMMER 26" DIAMETER

*Other sizes available





AIR RAMMER REPLACEMENTS

ITEM CODE	DESCRIPTION
5AIRWR.SP.SO1	PISTON/THRUSTPLATE SO1-SO17
5AIRWR.SP.SO2	PISTON SLOT(BODY) SO1-SO17
5300000070	THRUST PLATE SO1-SO17
5300000071	THRUST SPRING FOR 12.5" PISTON
5300000072	THRUST SPRING FOR 10" PISTON
5AIRWR.SP.SO6	PISTONSLOT CONNECTOR BOLTS (3)
5AIRWR.SP.007	(1) SUPPORT LEG SO1-SO17
5300000075	10" COMPLETE PISTON ASSEMBLY
5300000076	12.5" COMPLETE PISTON ASSEMBLY
5AIRWR.SP.010	WALL RAMMER PISTON ONLY
5AIRWR.SP.011	EA PISTON ONLY W/TP FOR MO1
5AIRWR.SP.012	EA PISTON SLOT FOR MO1
5AIRWR.SP.013	EA PISTON THRUST PLATE FOR MO1
5300001406	COMPLETE PISTON ASSEMBLY-MO1
5300001500	CENTER ROTATION UNIT 3-ARM
5300001590	CENTER ROTATION UNIT-TWO ARM
5300001649	BEARINGS FOR ARM ROTATION UNIT
5AIRWR.SP.019	AIR RAMMER CHAIN+RING+EYEBOLTS

*Other replacement parts available by request



WYCO PENCIL VIBRATORS

994 ELECTRIC MOTOR VIBRATOR

The 994 electric motor vibrator is ready tackle your toughest consolidation jobs. Whip cords available in lengths of 7 or 14 feet and square head sizes of 1' to 2.25'

Features:

- Drives any head and shaft combination—one motor for all your consolidation needs
- Conforms to current UL and OSHA regulations for safety
- Lightweight with ergonomic hand grip and shoulder strap
- Powers through your most challenging concrete applications

ITEM CODE	DESCRIPTION
5WYCO10	WYCO PENCIL VIB 994/7'/1.50"SQ
5WYCO11	WYCO PENCIL VIB 994/14'/2"SQHD
5WYCO4	WYCO PENCIL VIB 994/7'/2.25"SQ HD
5WYCO8	WYCO PENCIL VIB 994/7'/2"SQ HD
5WYCO9	WYCO PENCIL VIB 994/14'/2.25"





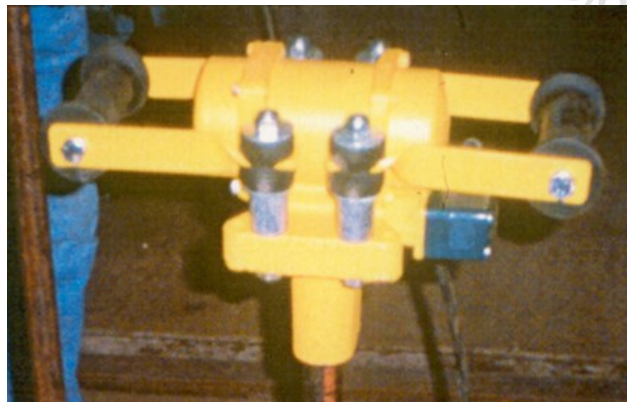
BRECON BOSCH VIBRATORS

The BRECON Tamper is the ideal handheld tool for powerful compaction of any material and is light and easy to handle. The Tamper is made to fulfill the highest requirements when it comes to precise compaction combined with durability in rough work places like foundries. Its proven design assures a powerful compaction while reducing transmission of the vibration to the operator. The quick tool change combined with various accessories provides a very flexible and accurate work result.

ITEM CODE	DESCRIPTION	CENTIFUGAL FORCE (lbf)	FREQUENCY (Hz)	VOLTAGE (V)	PHASE	WEIGHT (lbs)
5300000115	BOSCH/BRECON TAMPER 18902-60HZ	315 lbf	3600	220-265 380-460	3	25
5300000118	BOSCH/BRECON TAMPER 18902-50HZ	315 lbf	3000	220-260 380-440	3	25

BOSCH VIBRATOR ATTACHMENTS

ITEM CODE	DESCRIPTION
5300002462	EACH BOSCH FOOT #1 10X5
5300000384	EACH BOSCH FOOT #2 10X4
5300000385	EACH BOSCH FOOT #3 8X3
5300000386	EACH BOSCH FOOT #4 6X2
5300000387	EACH BOSCH FOOT #5 6" ROUND
5FOOT6	EACH BRECON FOOT 100X80 MM
5300002647	EA BOSCH SIDEWALL FOOT 6"X1.5"
5300001858	EA BOSCH SPADE TOOL 4"WIDE
5300000389	EACH FORKING TOOL #1
5300000391	EACH SMALL FORKING TOOL (1.5")



Dimensions without accessories: Height 9.4" x Width 17.0" x Depth 7.2"
All models include 12.8 ft power cable without plug.



HIGH FREQUENCY PNEUMATIC VIBRATORS

This simple, long-lasting High-Frequency Pneumatic Vibrator provides effective high-frequency vibration at an economical price. Apply to hoppers, bins, railcars, chutes, molds, screens, and tables to keep materials flowing as they should. Also great for use in pre-cast concrete applications. These vibrators offer many benefits which include, multiple vibrations on each orbit, a bearing free design which eliminates wear problems and extends service life.

ITEM CODE	DESCRIPTION
5CCR2600	EACH MARTIN VIBRATOR CCR-2600
5CCR4400	EACH MARTIN VIBRATOR CCR-4400
5300000278	EACH MARTIN VIBRATOR CCR-6500



BRUTE VIBRATORS CCV SERIES

With an integral clamp foot, these powerful vibrators suit portable applications like railcar unloading. Brute Vibrators are also available for hydraulic power.

ITEM CODE	DESCRIPTION
5CCV4-2A	EA MARTIN VIBTR CCV4-2A BRUTE
5300000279	EA MARTIN VIBTR CCV6-6A BRUTE



CCV Series

- High-Grade Ductile Iron Case provides maximum durability
- Low-Maintenance Bearings require lubrication after 500 hours of service
- Integral Clamp Foot on CCV Series provides portability and positive mounting
- Powerful, Efficient Motor for long service life, minimal power consumption
- Tapped Exhaust Port allows muffler installation to reduce operating noise
- Adjustable Eccentrics allow tuning of force output of most models to match applications



ELECTRIC VIBRATION SYSTEM

Allied's Electric Vibration System and Sled utilize patented technology designed to eliminate air pressure and air quality problems associated with pneumatic or air-driven piston vibrators. The EVS can be used to install linings in coreless furnaces, inductors and forging/heat treat furnace, car deck and hearths. Benefits of the systems include high installed density with a moisture-free refractory ceramic, reduced installation time, labor savings and lower dust levels.

CONTROL PANEL FEATURES

- Operates in manual or automatic mode
- Programmable unit can be preset with 7 process timers to operate at multiple frequencies (vpm)
- Can be mounted for easy usage

ELECTRIC VIBRATOR FEATURES

- Can be operated for 240 or 280 voltages
- Vibrator is supplied 60 Hz compatible, but can be used in 50 Hz applications with the control panel
- Life expectancy is 2x longer than pneumatic vibrators

480 VOLT KIT

ITEM CODE	DESCRIPTION
5300000359	EA EVS SYSTEM 480V W/G5 PANEL

Kit contains (1) of the following items:

ITEM CODE	DESCRIPTION
5300000262	EA WELD-ON BRACKET FOR EVS
5300001374	EA EVS GEN4 CONTOL PANEL 480V
5300000581	EA ELECTRIC VIB/MOTOR FOR EVS
5300000735	SIROMETER VIBRATION TACHOMETER

Optional:

5300000263	EACH CLAMP-ON BRACKET-EVS
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MUDHOG MIXERS

MODEL	RMH 9	RMH 12	RMH 12HD	RMH 20	RMH 29
ITEM CODE	5300002807	5300000577	5300002658	5300002657	5300002491
DIMENSIONS (L x W x H)	75" x 36" x 46"	82" x 42" x 49"	88" x 42" x 49"	122" x 44" x 56"	137" x 44" x 56"
DRUM CAPACITY	300 lb (114 kg)	500 lb (227 kg)	750 lb (340 kg)	1000 lb (454 kg)	2000 lb (907 kg)
HYDRAULIC RESERVOIR	15 gallon	15 gallon	15 gallon	30 gallon	60 gallon
WILL MIX AGGREGATE SIZE UP TO	3/4" (1.9 cm)	3/4" (1.9 cm)	3/4" (1.9 cm)	3/4" (1.9 cm)	3/4" (1.9 cm)
EMPTY WEIGHT	1500 lb (681 kg)	2000 lb (909 kg)	2200 lb (998 kg)	3600 lb (1632 kg)	4600 lb (2090 kg)
AXLE KIT (FOR PORTABILITY AND TOWING)	✓	✓	✓		
HYDRAULIC DUMP SYSTEM	✓	✓	✓	✓	✓
HYDRALUIC DRIVE SYSTEM	✓	✓	✓	✓	✓
CUSTOM MODIFICATIONS AVAILABLE	✓	✓	✓	✓	✓
BOLT-IN ABRASION RESISTANT DRUM LINERS	✓	✓	✓	✓	✓





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NOTES

refractory



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research



$$\frac{\Delta L}{L_0} = \alpha_L \Delta T$$

thermal expansion



The Allied Difference

Being There Worldwide with Refractory Solutions



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Global **Refractory** Solutions



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