

Sullair Air Tools

Model details & specifications inside

PAVING BREAKERS

- Greater operator comfort – less fatigue
- Less air consumption
- No special lubrication required
- 50% fewer parts than conventional breakers
- Parts interchangeability between models
- Smoother operation – reduced kickback
- Non-protrusive housing – more operating comfort
- One piece housing – leakproof air cushion
- Quieter – direct piston impact on steel shank, rather than tappet, reduces noise level
- Variable speed throttle for controlled starting
- Swivel air inlet with standard hose coupling
- Plated finish
- Exhaust deflector
- Replaceable chuck bushing
- Anti-vibration and super silent model options



UTILITY DRILLS

- Ratchet springs have been eliminated
- Built-in oil reservoir for rotating parts
- Air flush blows debris from the hole
- Variable speed throttle
- Squared handle allows drilling close to wall or floor
- Quick change retainer for easy bit changing
- Air inlets 3/8" NPT internal standard
- Swivel air inlet optional



CLAY DIGGER, DEMOLITION TOOLS

- Greater operator comfort – less fatigue
- Less air consumption
- No special lubrication required
- 50% fewer parts than conventional models
- Parts interchangeability between models
- Smoother operation – reduced kickback
- Non protrusive housing, comfortable operation
- One-piece housing – leakproof air cushion
- Quieter – direct piston impact on steel shank, rather than tappet, reduces noise level
- Variable speed throttle for controlled starting
- Swivel air inlet with standard hose coupling
- Plated finish
- Exhaust deflector
- Replaceable chuck bushing



RIVET BUSTERS

- D-handle standard with inside trigger throttle
- OH - Open handle design with thumb throttle
- Muffler and screened inlet bushing on D-handle models
- Rotating metal exhaust deflector on open handle models
- Interchange parts within model types reduces inventory
- Variable throttle speed control



CHIPPING HAMMERS

- Four bolt backhead reduces handle breakage
- D-handle
- No special lubrication required
- Smoother operation
- Smooth nylon trigger
- Exhaust deflector
- Plated finish on barrel
- Two air inlet bushings – 7/8-24 and 3/8 NPT internal
- Choice of stroke length 2", 3" or 4"
- Choice of bushings – round or hex
- Choice of retainers – oval collar standard universal ball type; round collar; or screw on universal ball retainer (oval collar only on MLC-10)



ROCK DRILLS

- Throttle safety lever
- Variable drilling speeds
- One piece control for drilling and blowing
- Fewer parts – less maintenance
- Continuous hole cleaning
- No special lubrication required
- Built-in oil reservoir for rotating parts
- Direct rotation or piston – eliminates wear on parts
- Swivel air inlet



MRD-55 ROCK DRILL

- Rubber handle grips reduce vibration
- Adjustable throttle control allows for variable speed
- Reversible rotation pawls lengthen life
- Replaceable bushings
- Front exhaust and cleaner operating conditions
- Optional "Wet Kit" available for dustless drilling



MRD-60 ROCK DRILL

- Rubber handle grips reduce vibration
- Dual controls for drilling and blowing
- Adjustable exhaust valve
- Built-in reservoir, requires line oiler
- Replaceable chuck and piston bushing and rifle nut



MRD-9 ROCK DRILL

- Inside trigger throttle
- Screw-on retainer
- 7/8 x 3-1/4 chuck size
- Lightweight for less fatigue



BACKFILL TAMPER

- Greater operator comfort – less fatigue
- Plated finish
- Self lubricating piston rod seals prevent dirt from entering tool
- No packing adjustment required
- Exhaust deflector
- No special lubrication required



*Normal oil carryover from the compressor, combined with moisture in the air, will usually provide sufficient lubrication under normal operating conditions.

Sullair Air Tools

Model No.	Description	Bore & Stroke	BPM	cfm	Warranty
PAVING BREAKERS – STANDARD “T” HANDLE					
MPB-90A	92 lb 1-1/8" HX x 6" Chuck	2-7/16" x 5-9/32"	1380	62	B
MPB-90A	92 lb 1-1/4" HX x 6" Chuck	2-7/16" x 5-9/32"	1380	62	B
MPB-60A	69-1/2 lb 1-1/8" HX x 6" Chuck	2-5/32" x 5-5/32"	1360	48	B
MPB60A	69-1/2 lb 1-1/4" HX x 6" Chuck	2-5/32" x 5-5/32"	1360	48	B
MPB-35C	39 lb 1" HX x 4-1/4" Chuck	1-3/4" x 5-5/16"	1200	49	B
MPB-30A	35-1/2 lb 7/8" HX x 3-1/4" Chuck	12-5/32" x 32-5/32"	1850	37	B
MPB-30A	35-1/2 lb 1" HX x 4-1/4" Chuck	12-5/32" x 32-5/32"	1850	37	B

PAVING BREAKERS – ANTI-VIBRATION OPTION WITH GUARD

MPB-90AF	99-1/2 lb 1-1/8" HX x 6" Chuck	2-7/16" x 5-9/32"	1380	62	B
MPB-90AF	99-1/2 lb 1-1/4" HX x 6" Chuck	2-7/16" x 5-9/32"	1380	62	B
MPB-60AF	77 lb 1-1/8" HX x 6" Chuck	2-5/32" x 5-5/32"	1360	48	B
MPB-60AF	77 lb 1-1/4" HX x 6" Chuck	2-5/32" x 5-5/32"	1360	48	B

PAVING BREAKERS – SUPER SILENT OPTION

MPB-90AS	94 lb 1-1/8" HX x 6" Chuck	2-7/16" x 5-9/32"	1380	62	B
MPB-90AS	94 lb 1-1/4" HX x 6" Chuck	2-7/16" x 5-9/32"	1380	62	B
MPB-60AS	71-1/2 lb 1-1/8" HX x 6" Chuck	2-5/32" x 5-5/32"	1360	48	B
MPB-60AS	71-1/2 lb 1-1/4" HX x 6" Chuck	2-5/32" x 5-5/32"	1360	48	B

PAVING BREAKERS – ANTI-VIBRATION – SILENT OPTION WITH GUARD

MPB-90AFS	101 lb 1-1/8" HX x 6" Chuck	2-7/16" x 5-9/32"	1380	62	B
MPB-90AFS	101 lb 1-1/4" HX x 6" Chuck	2-7/16" x 5-9/32"	1380	62	B
MPB-60AFS	78-1/2 lb 1-1/8" HX x 6" Chuck	2-5/32" x 5-5/32"	1360	48	B
MPB-60AFS	78-1/2 lb 1-1/4" HX x 6" Chuck	2-5/32" x 5-5/32"	1360	48	B

CLAY DIGGERS AND DEMOLITION TOOLS

MCD-30A	33-3/4 lb "D" Handle 7/8" HX x 3-1/4" Chuck	12-5/32" x 3-25/32"	1850	37	B
MCD-30A	33-3/4 lb "D" Handle 1" HX x 4-1/4" Chuck	12-5/32" x 3-25/32"	1850	37	B
MDT-22	24.7 lb "D" Handle 7/8" HX x 3-1/4" Chuck	12-5/32" x 3-25/32"	1850	37	C
MDT-30	33 lb "D" Handle 1 1/2" Jumbo Shank	1.4" x 7.4"	1000	37	C

BACKFILL TAMPERS

MBT-6	40-1/2 lb with 6" Diagonal Butt	1-1/2" x 5-1/2"	500	32	C
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RIVET BUSTERS

MRB-11	33 lb 11 x Jumbo	1-3/16" x 11"	850	50	D
MRB-11-OH	32 lb 11 x Jumbo	1-3/16" x 11-5/16"	680	33	C
MRB-9-OH	31 lb 11 x Jumbo	1-3/16" x 8-5/16"	700	36	C
MRB-8	30 lb 11 x Jumbo	1-3/16" x 8"	1140	44	D
MRB-6	29 lb 11 x Jumbo	1-3/16" x 6"	900	35	C

SCALERS

SANS	Needle Scaler (19)	1" x 1-1/8"	4600	7	D
SCWF	Weld Flux Scaler (19)	1" x 1-1/8"	4600	7	D

Model No.	Description	Bore & Stroke	BPM	cfm	Warranty
ROCK DRILLS – DRY BLOW TYPE					
MRD-60	60 lb 7/8" HX x 4-1/4" Chuck	2-5/8" x 2-3/5"	1800	91	D
MRD-60	60 lb 1" HX x 4-1/4" Chuck	2-5/8" x 2-3/5"	1800	91	D
MRD-55	56 lb 7/8" HX x 4-1/4" Chuck	2-5/8" x 21-1/16"	1650	95	D
MRD-55	56 lb 1" HX x 4-1/4" Chuck	2-5/8" x 21-1/16"	1650	95	D
MRD-50	48-1/2 lb 7/8" HX x 3-1/4" Chuck	3" x 2-5/8"	1800	123	C
MRD-50	48-1/2 lb 7/8" HX x 4-1/4" Chuck	3" x 2-5/8"	1800	123	C
MRD-50	48-1/2 lb 1" HX x 4-1/4" Chuck	3" x 2-5/8"	1800	123	C
MRD-40	45-1/2 lb 7/8" HX x 3-1/4" Chuck	21-1/16" x 2-3/8"	1800	82	C
MRD-40	45-1/2 lb 7/8" HX x 4-1/4" Chuck	21-1/16" x 2-3/8"	1800	82	C
MRD-40	45-1/2 lb 1" HX x 4-1/4" Chuck	21-1/16" x 2-3/8"	1800	82	C
MRD-30	34 lb 7/8" HX x 3-1/4" Chuck	2-9/32" x 1-3/4"	2300	55	C
MRD-30	34 lb 7/8" HX x 3-1/4" Chuck	2-9/32" x 1-3/4"	2300	55	C
MRD-12	12 lb 7/8" HX x 4-1/4" Chuck	1-1/2" x 1-7/32"	3200	28.5	C
MRD-9	9 lb. "D" Handle 9/16" Hex Chuck	11-1/32" x 1-3/8"	2800	21	C

CHIPPING HAMMERS – 4 BOLT HANDLE – SOLID RETAINER FOR OVAL COLLAR STEEL (OPTIONAL RETAINERS AVAILABLE)

MCH-2	2" Stroke .680 Round Chuck	1-1/8" x 3"	3600	26	E
MCH-3	3" Stroke .680 Round Chuck	1-1/8" x 3-3/4"	2280	29	E
MCH-4	4" Stroke .680 Round Chuck	1-1/8" x 4-1/4"	1800	33	E
MCH-2	2" Stroke .580 Hex Chuck	1-1/8" x 3"	3600	26	E
MCH-3	3" Stroke .580 Hex Chuck	1-1/8" x 3-3/4"	2280	29	E
MCH-3S	3" Stroke .580 Hex Chuck	1-1/8" x 3-3/4"	2280	29	E
MCH-4	4" Stroke .580 Hex Chuck	1-1/8" x 4-1/4"	1800	33	E

CHIPPING HAMMERS – LIGHT WEIGHT WITH SOLID RETAINER FOR OVAL COLLAR STEEL

MLC-10	12 lb with .680 Round Chuck	1-7/64" x 11-3/16"	2940	17	E
MLC-10	12 lb with .580 Hex Chuck	1-7/16" x 11-3/16"	2940	17	E

CONCRETE VIBRATORS

MCV-300	5.3 lbs	13/16" 18K	Hertz	16	A
MCV-400	9.0 lbs	1-5/8" 17K	Hertz	17	A
MCV-580	18.0 lbs	2-1/4" 16K	Hertz	35	A
MCV-780	33.0 lbs	3-1/16" 13K	Hertz	51	A

SPIKE DRIVERS

SSD-60	64 lbs	2.25" x 4.1"	1400	59	D
SSD-90	89 lbs	2.65" x 6.06"	1250	75	D

Warranty:

A = 6 Months

B = 2 Years

C = 1 Year

D = 90 Days

E = 2 Years on Handle, 2 Year on Barrel and 1 Year Internal Parts excluding Retainer and Retainer Spring

AIR CONSUMPTION MULTIPLIERS FOR ALTITUDE OPERATION OF PNEUMATIC TOOLS

The air consumption rate of various pneumatic tools is set by manufacturers at sea level conditions. To allow proper application of the tool at altitude, the required free air volume must be increased above the normal rating. The Altitude Multiplier Table gives the multipliers for this increase.

Although pneumatic tools vary somewhat due to design and manufacturer, the use of this multiplier provides reliable values. The table does not take into account any reduction in compressor capacity due to altitude operation or loss of performance due to worn parts.

Air Consumption Altitude Multiplier

Altitude-Feet	Multiplier
0 (Sea Level)	1.000
1,000	1.032
2,000	1.065
3,000	1.100
4,000	1.136
5,000	1.174
6,000	1.213
7,000	1.255
8,000	1.298
9,000	1.343
10,000	1.391
12,500	1.520
15,000	1.665

Effect of Altitude on Oil Cooled Rotary Screw Compressor Capacity at 100 psig Discharge Pressure

Altitude Feet	Compression Ratio	Correction Factor
Sea Level	7.81	1.0
1,000	8.05	1.0
2,000	8.35	0.999
3,000	8.63	0.997
4,000	8.94	0.993
5,000	9.27	0.989
6,000	9.55	0.983
7,000	9.93	0.977
8,000	10.26	0.969
9,000	10.62	0.961
10,000	11.00	0.951

GUNITE APPLICATIONS

Due to the wide variety of applications, various sizes of guns, types of drive mechanisms and the experience of different nozzle men, the compressed air requirements for gunite applications cannot be charted.

Air flow requirements must be obtained from the manufacturer of the gunite equipment. Air pressure requirements are generally in the 55-85 psig range. To protect the compressor, only about 70 percent of its rated free air capacity should be used in gunite applications.

Average Guide for Portable Air Compressor Requirements

Compressor cfm	125	130	185	260	375	
Model	Number of Tools/Compressor					
MPB-90A	Paving Breaker	2	2	3	4	8
MPB-60A	Paving Breaker	2	2	4	6	10
MPB-35B	Paving Breaker	3	3	5	7	11
MPB-30A	Paving Breaker	4	4	6	8	12
MCD-30A	Clay Digger	4	4	6	8	12
MBT-6	Tamper	4	4	7	10	16
MRD-50	Rock Drill	1	1	2	3	4
MRD-40	Rock Drill	1	1	2	4	6
MRD-30	Rock Drill	2	2	4	6	9
MCH-2	Chipping Hammer	4	4	7	10	15
MRD-9	Utility Drill	6	6	8	10	14

cfm x Number of Tools Ratio

For operation of several tools with one compressor use the following table.

Number of Tools	1	2	3	4	5	6	7	8
Factor	1	1.8	2.7	3.4	4.1	4.8	5.4	6.0

Example: To operate eight Model MPB-90A Paving Breakers air for each is 62 cfm; multiplier is 6 x 62 cfm = 372 cfm. Consequently a 375 portable would handle eight breakers.

Metric Conversion Factors

To Convert From	To	Multiply By
bar	lbs/sq in (psi)	14.5033
Kilopascal-kPa	lbs/sq in (psi)	0.1450
m ³ /min	cfm	35.3107
liter per minute- l/min	gallons per minute-gph	0.2642
kilometer/hour- km/h	miles/hour-mph	0.6125
kilowatt-kW	horsepower-hp	1.3405
meter-m	feet-ft	3.2808
kilogram-kg	pounds-lb	2.2046
cubic centimeter-cm ³	cubic inches-in ³	0.0610
Newton meter-N•m	pound feet-lb-ft	0.7375

Sullair Air Tools

Applications Guide

Sullair Model	Tool Class	Description	Weight	Applications	cfm @ 90 psig
MLC-10	10#	Light Chipping Hammer	12 lbs	For light chipping and overhead work, also fine detail and restoration work.	18
MCH-2/3/4	15#	Chipping Hammer	16-19 lbs	For chipping in horizontal and overhead applications. Also used in industrial applications.	26-33
MRB-6/8/11	30#	Rivet Buster	30-33 lbs	For cutting and driving large rivets, and heavy duty demo work.	44-50
MPB-30A	30#	Light Paving Breaker	35.5 lbs	For breaking light concrete and other light jobs.	37
MPB-35C	40#	Light Paving Breaker 3	9 lbs	For concrete bridge deck and general demo work.	49
MPB-60A	60#	Medium Paving Breaker	69.5 lbs	For concrete road breaking and general demo work.	48
MPB-90A	90#	Heavy Paving Breaker	92 lbs	For difficult, heavy demo work breaking tough, reinforced concrete.	62
MDT-22	20#	Light Digger	24.7 lbs	For excavation of clay and hardpan. Also for light demolition work in horizontal position.	33.4
MDT-30	30#	Medium Demolition	33 lbs	Medium to heavy duty demolition work.	37
MCD-30	30#	Medium Digger	33.8 lbs	For excavation of clay and hardpan. Also for light demolition work in horizontal position.	37
MBT-6	35#	Backfill Tamper	40.5 lbs	For compacting backfill in ditches and trenches. Also used around foundations and poles.	32
MRD-9	9#	Hammer Drill	9 lbs	For construction and maintenance, setting anchors and drilling holes in concrete and bricks.	21
MRD-12	12#	Light Rock Drill	12 lbs	For construction and maintenance, setting anchors and drilling holes in concrete and bricks.	12
MRD-30	30#	Light Rock Drill	34 lbs	For construction and maintenance, setting anchors and drilling holes in concrete and bricks.	53
MRD-40	40#	Light Rock Drill	45.5 lbs	Drill for depths up to 6 feet and 1-1/2" diameter.	80
MRD-50	50#	Medium Rock Drill	48.5 lbs	Drill for depths up to 10 feet and 1-3/4" diameter.	123
MRD-55	55#	Heavy Rock Drill	56 lbs	Drill for depths up to 20 feet and 2" diameter.	95
MRD-60	60#	Heavy Rock Drill	59 lbs	Drill for depths up to 25 feet and 3" diameter.	98
MCV-300	1-3/16"	Concrete Vibrator	5.3 lbs	For low slump pours of concrete footings, slabs and walls. Choose diameter for wall and slab thickness.	16
MCV-400	1-5/8"	Concrete Vibrator	9 lbs		17
MCV-580	2-1/4"	Concrete Vibrator	18 lbs		35
MCV-780	3-1/16"	Concrete Vibrator	33 lbs		51