



## AT A GLANCE:

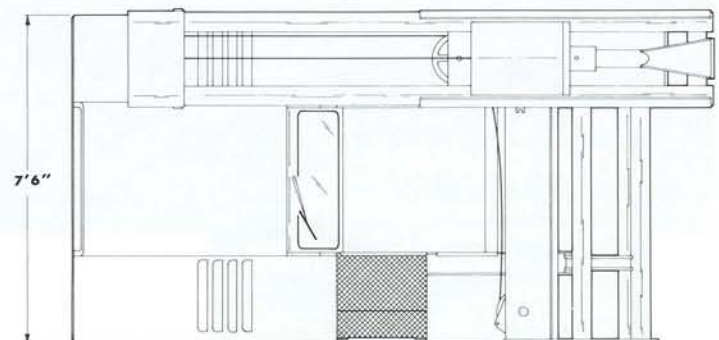
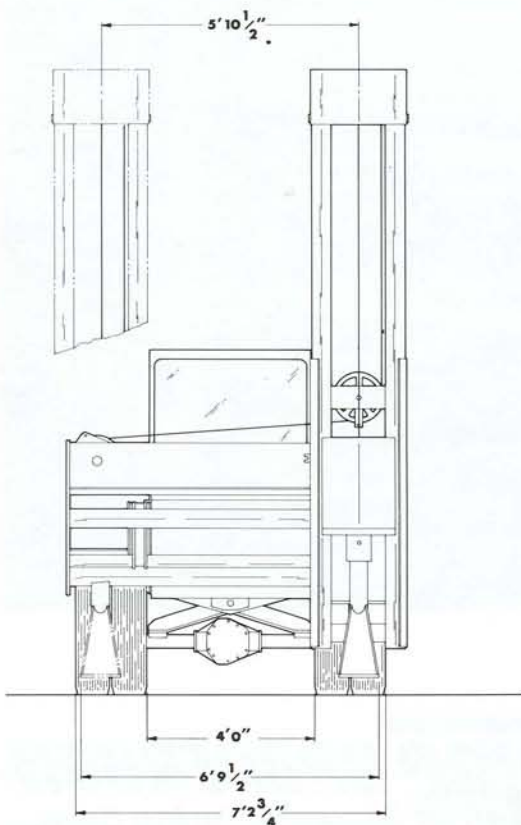
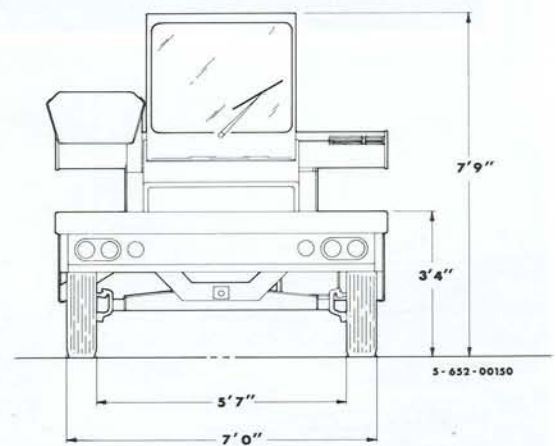
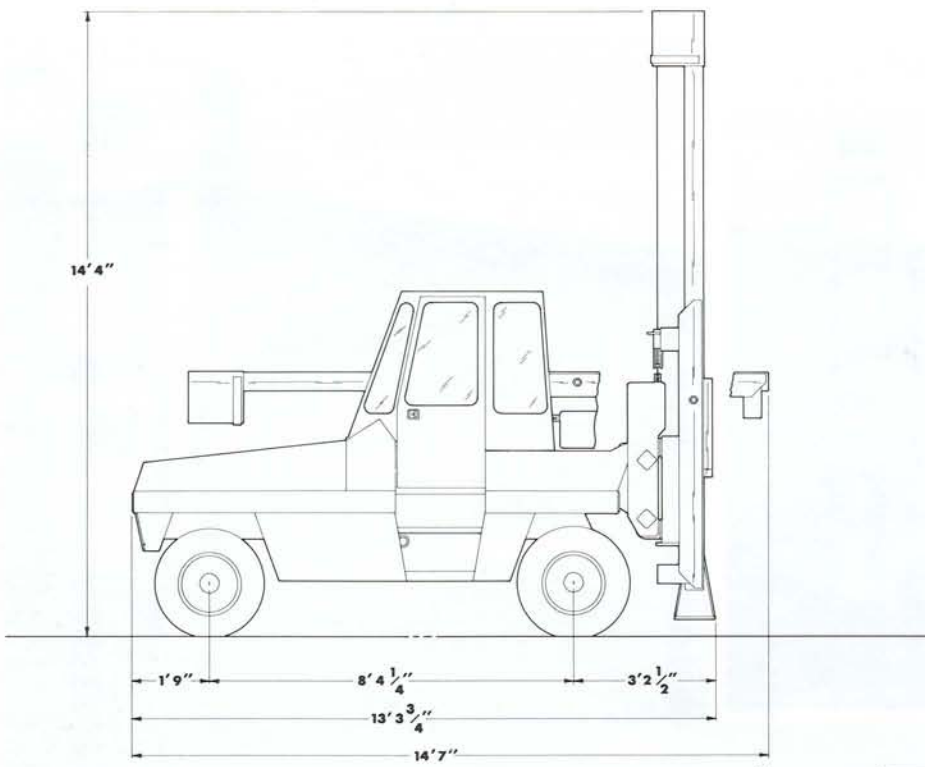
- Up to 240 minimum length hammer strokes per minute
- Up to 34 ten foot length strokes per minute
- 180° reversible operator console
- Creep Speed 0 to 64 feet per minute
- 81½ horizontal tower traverse working travel
- 10° chassis tilt in either direction
- Dual range hammer control

**BMC BRODERSON**  
Manufacturing Corp.

P.O. Box 14770, Lenexa, Kansas 66215  
(913) 888-0606 • FAX (913) 541-0690

# MH-42-B

**MH - 42B**





**General:**

<b>Weight:</b>	9,590 pounds
<b>Overall Length:</b>	
Working Position	13 feet 3 inches
Travel Position	14 feet 7 inches
<b>Overall Width</b>	7 feet 8 inches
<b>Overall Height:</b>	
Working Position	14 feet 4 inches
Travel Position	
Without Cab	6 feet 2 1/2 inches
With Cab	7 feet 9 inches
With ROPS	8 feet 1 inch
<b>Maximum Road Speed:</b>	20 MPH

**Engine:**

	Standard	Optional	Optional
<b>Make</b>	Ford	Deere	Cummins
<b>Model</b>	CSG-649	4239D	4B3.9
<b>Type</b>	Gas	Diesel	Diesel
<b>No. of Cyl.</b>	6	4	4
<b>Displacement</b>	300 C.I.D.	239 C.I.D.	239 C.I.D.
<b>HP at Governed Speed</b>	112	78	75
<b>Fuel Tank:</b>	Capacity: 30 gallons		

**Transmission:**

	Standard	Optional
<b>Make:</b>	Gas	All Diesels
<b>Model:</b>	Warner Gear	Warner Gear
<b>Type:</b>	T-19	T-18
<b>Gear Ratio</b>	3-speed Manual	3-speed Manual
1st	6.32	6.32
2nd	3.09	3.09
3rd	1.69	1.69
Rev.	6.96	7.44

**Transmission Creep Interlock:**

Kills engine when the transmission is inadvertently engaged while creep mechanism is engaged.

**Creep Gearbox:**

Gear ratio	5.28:1
Creep Speed	0 to 64 FPM

**Axles:**

**Front:** Non-driving steering axle, 67 inch inside tire dimension  
**Rear:** Driving axle, single-reduction hypoid gear ratio of 7.17:1 with dual tires, 48 inch inside tire dimension

**Brakes:**

Front non-driving axle - Disc type  
 Rear drive axle - Drum type, shoes 12 inches by 3 inches  
 Parking - Rear service brakes engaged by over-center lever

**Tires:**

Front non-drive axle:  
 8.00 x 16.5, 6-ply rating, highway tread, tubeless  
 Rear drive axle:  
 7.50 x 16, 8-ply rating, extra grip, tubeless

**Steering:**

Full-hydraulic steering unit with two inch cylinder attached to front axle. Reversing valve and linkage automatically reverses power-steering hydraulic circuit when operator's station is turned 180 degrees. Provides machine movement which corresponds with direction the steering wheel is turned.

**Chassis tilt:**

Double-acting hydraulic cylinders actuates driving axle to affect ten degrees chassis tilt and tower leveling ability.

**Control Station:**

Provides manually actuated hydraulic controls for tower elevation, tower traverse, chassis creep, hammer actuation, steering, brakes, and clutch. Also provides manual foot throttle, hand throttle, creep engage lever and parking brake. Automatic hammer control is also located in the control station.

**Electrical System:**

12 volt D.C.

**Battery:**

Gas Units: Group 27 with 540 CCA rating  
 Diesel Units: Group 31 with 950 CCA rating

**Instrument Group:**

Located at operator's station and include fuel gauge, ammeter, oil pressure, water temperature gauges and hour meter.

**Lighting Group**

Consists of two sets of 12V lamps, one set at either end of machine; integral tail, brake, and turn-signal lights in rear; front turn signals and emergency flashers. Driving lights provide high and low beam. 12V horn included.

**Hydraulic System:**

Tandem pump, direct-driven by engine crankshaft, rated at 32.5 and 16 GPM at rated RPM. Hydraulic oil tank capacity of 40 gallons. System includes a heavy-duty oil cooler.

**Tower:****Tower Elevation:**

Double-acting hydraulic cylinder provides full-power positioning of tower from horizontal stowed position to five degrees past vertical.

**Tower Traverse:**

Hydraulic motor-driven chain and sprocket system provides positive placement of tower structure. Maximum horizontal working distance with chassis level is 81 1/2 inches.

**Hammer:****Automatic Hammer Control:**

Solid-state electronic timing device provides control for hammer stroke. Up to 240 minimum length strokes and up to 34 ten foot strokes per minutes.

**Dual-Range Hammer Control:**

Allows the operator to shift from high range to low range operation which has substantially more pull-up power.

**Hammer Actuation:**

The weight is raised by a single-acting, horizontally mounted hydraulic cylinder, working through a floating self-compensating wire rope and sheave system. The cylinder is equipped with hydraulic cushion and long life, low-friction seals.

**Hammer Weight:**

Cast iron, equipped with heat-treated steel toolholder. The hammer weight, less tools, is 1,075 pounds.

# MH-42-B

## OPTIONS:

### Engine:

#### John Deere Diesel Engine (2)

Model 4239D, 4-cyl., 239 CID, rated 78 HP at governed speed

#### Cummins Diesel Engine (3)

Model 4B3.9, 4-cyl., 239 CID, rated 75 HP at governed speed

#### Engine Shut Down Gauges (4)

Shuts engine off when high water temperature or low engine oil pressure occurs

### Tires

#### Spare tires and wheels

Front non-driving axle, wheel and tire (5)  
Rear driving axle, wheel and tire (6)

### Chassis Accessories

#### Tool Tray (7)

Welded to front of chassis for carrying blades, punches

#### Tool Box (8)

Box with hinged lid, mounts into right hand deck, 36 inches long by 17 inches wide by 9 inches deep

#### Tamper Carrier (9)

Tubular structure welds in front of chassis and allows tamper stem to be inserted into tube and carried

#### Rear View Mirror (10)

Mirror mounts to left-hand front corner of operator's station

### Operators Compartment Accessories

#### Rollover Protective Structure (ROPS) (11)

Tubular steel structure welds to chassis and meets OSHA requirements for ROPS and FOPS.

#### All Weather Cab (12)

Rugged mounted to operators compartment. Includes tinted safety glass, removable door with keyed lock, hot-water heater, electric windshield wiper, defroster fan, locking fuel and hydraulic reservoir caps

#### Vandalism Kit (13)

Locking steel dashboard cover for protection of all gauges, knobs and switches. Also includes locking fuel and hydraulic reservoir caps, and locking engine compartment.

### Electrical Accessories

#### Back-Up Alarm (14)

Provides pulsating sound when the transmission is in reverse.

#### Lighted Instrument Gauges (15)

Instrument gauges equipped with lights for night operation.

#### Speedometer (16)

Speedometer for gas or diesel engines

### Tool Options

#### Frost Chisel (17)

Tapered blade 16 inches long for frozen earth

#### Round Demolition Punch (18)

4 1/2 inch diameter by 21 inches long punch of heat-treatable steel, hard face. For heavy-duty demolition.

### Tamper Heads

#### Tamper Head, 39 inches long (19)

121 square inch of square tamping area.

#### Tamper Head, 75 inches long (20)

121 square inch of square tamping area.

#### Blade Holder (21)

Required for use with asphalt, demolition and scoring blades listed in the blade section.

#### Super Duty Flexpin Kit (22)

Used to attach tools into tool holder. Includes super duty flexpin and tool for removal.

### Blade Options

#### Asphalt Blades

Used for breaking (cutting) asphalt over rock bade. The blades have a long taper cutting edge.

#### Asphalt Blade (23)

1 1/16 inch thick, 10 inches long and 7 inches wide

#### Asphalt Blade (24)

1 1/16 inch thick, 12 inches long and 9 1/4 inches wide

#### Demolition Blades

Used for breaking to a controlled saw or scored line. The blades have a blunt edge with Hard-surface weld.

#### Demolition Blade (25)

1 1/16 inch thick, 10 inches long and 7 inches wide

#### Demolition Blade (26)

1 1/16 inch thick, 14 inches long and 7 inches wide

#### Scoring Blade (27)

Used for scoring concrete. The scoring blade has a short taper cutting edge. The blade is 1 1/16 inch thick, 10 inches long and 7 1/2 inches wide.

#### Flexpin Kit (six each) (28)

Used to attach above blades to the blade holder. The kit includes six flexpins and a tool for flexpin removal.

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