



**SCHWING  
AMERICA INC.**

## KVM 42 Truck Mounted Concrete Pump Standard Features and Options

### Standard Features:

- M Rock Valve (Rebuildable Cast Steel with Cutting Ring and Rectangular Pressure Spring)
- Slewing Gear Bearing Turntable
- 400 Degree Boom Rotation
- Stroke Limiter
- Digital Electronics
- Oil Cooler (ASA)
- Steel Hopper with Agitator
- Hard Surfaced Replaceable Inserts of the Valve Housing & Material Cylinders
- Full Hydraulic Front and Rear telescoping outriggers
- 5" x 12.5' Boom Tip Hose (Coupled Both Ends)
- External Mount, High Pressure Water Pump with 130 Gallon water tank, Low Level Sensor, Low Point Drain and 33' of 3/4 inch water hose with nozzle
- Tool Kit and Accessories
- Loading Deck (13') for Pipeline and Accessories
- Side Mounted Tool Compartments
- Fold Down Side Board
- Full Fenders (Rear)
- Operation, Parts and Safety Manuals (Two Sets)
- Remote Control (Hard Wire, 100' Cable), functions include: Emergency Stop, Concrete Pump On/Off-Forward/Reverse, Throttle Actuation, Concrete Pump Volume Control.
- Twin Circuit Hydraulic with MPS (Multi Port Switching)
- Proportional Boom Controls with CPC Controller with keyed bypass and reset button
- Wooden Laminated Outrigger Pads
- Sealed Water Box with Integrated Grate

### Available Pump Kits

Pump Kit	Pump Cyl	DIFFERENTIAL CYLINDER	MAX CONCRETE OUTPUT		MAX. PRESS. ON CONC.*		MAX. THEOR. STROKES/MIN.		STROKE LENGTH
			ROD	PISTON	ROD	PISTON	ROD	PISTON	
	(Dia.)	(Diameter)	(cu. Yd/hr)	(cu. Yd/hr)	(psi)	(psi)			(IN.)
2023-4	9"	5.1" (130mm)	170	-	1007	-	26	-	79
2023-5	10"	5.1" (130mm)	209	-	1007	-	32	-	79
2023H-6	10"	4.7" (120mm)	-	182	-	1233	-	28	79



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## **KVM 42 Truck Mounted Concrete Pump Standard Features and Options (Continued)**

### **Optional Accessories:**

- Auto Greaser (Rock Valve Only)
- Auto Greaser (Pump and Boom Only)
- Auto Greaser (Pump, Boom and Chassis)
- Carbide Wear Parts
- Esser Twin Wall Pipe and Elbows
- Extended Life Kit (Includes Esser Twin Wall Pipe, Elbows, Deck Pipe Reducer and Carbides)
- Extended Rock Valve (E-Rock, Available on 9" Diameter Pump Cylinders Only)
- Harsh Mix Kit
- High Pressure Washer w/Wand
- Hopper Vibrator
- Hose & Fitting Kit
- Night Light Kit
- Radio Remote Control- Omnex Spread Spectrum
- Water Tank Heater

### **Truck Selection:**

- Mack MR688S, 400 Horse Power, Electronic
- Freightliner FLL
- Other Trucks Available Upon Request

**NOTE: Specifications Subject to Change Without Notice**

**Specifications**  
**KVM 42 Placing Boom**

<b><u>Vertical Reach</u></b>		138 ft.
<b><u>Horizontal Reach</u></b>	<ul style="list-style-type: none"> <li>• center of slewing axis</li> <li>• front of truck</li> </ul>	125 ft 115 ft.
<b><u>Slewing Range</u></b>		400 degrees
<b><u>Boom Material</u></b>		All Steel
<b><u>Design</u></b>		Full Articulation, Roll & Fold
<b><u>Number of Sections</u></b>		Four
<b><u>Section Lengths</u></b> <b><u>(Pin to Pin)</u></b>	<ul style="list-style-type: none"> <li>• main section</li> <li>• second section</li> <li>• third section</li> <li>• tip section</li> </ul>	33 ft. 10 in. 30 ft. 4 in. 30 ft. 4 in. 30 ft. 4 in.
<b><u>Folding point heights</u></b>	<ul style="list-style-type: none"> <li>• main section</li> <li>• second section</li> <li>• third section</li> <li>• tip section</li> </ul>	12 ft. 4 in. 46 ft. 2 in. 76 ft. 6 in. 106 ft. 10 in.
<b><u>Minimum Boom Unfolding Height</u></b>		32 ft. 10 in.
<b><u>Boom Section Working Range</u></b>	<ul style="list-style-type: none"> <li>• main section</li> <li>• second section</li> <li>• third section</li> <li>• tip section</li> </ul>	115 degrees 180 degrees 180 degrees 240 degrees
<b><u>Boom Pipeline</u></b>	<ul style="list-style-type: none"> <li>• inside diameter</li> <li>• wall thickness</li> <li>• ends</li> </ul>	5 in. Hardened (4.5 mm wall) Raised
<b><u>Deck Pipeline</u></b>	<ul style="list-style-type: none"> <li>• inside diameter</li> <li>• wall thickness</li> <li>• ends</li> </ul>	5 in. Hardened (4.5 mm wall) Schwing Raised
<b><u>Pipeline elbows</u></b>	<ul style="list-style-type: none"> <li>• quantity</li> <li>• radius</li> <li>• wall thickness</li> <li>• material</li> </ul>	10 @ 90 degrees 9-1/2 in. centerline 1-1/2 in. outside radius Heavy duty cast steel
<b><u>Boom end hose</u></b>	<ul style="list-style-type: none"> <li>• material</li> <li>• rated burst pressure</li> <li>• maximum length</li> </ul>	Rubber, 4-ply steel carcass 2400 psi 12 ft. 6 in.
<b><u>Pipeline clamp size</u></b>		5-1/2 in. raised end

## Outriggers

### Design

Hydraulic telescoping  
with extension and jacking

### Outrigger spread

- front (side to side) 27 ft. 11 in.
- rear (side to side) 27 ft. 7 in.
- length 27 ft. 9 in.

### Maximum outrigger load

- Front 43,400 lbs.
- Rear 45,400 lbs.

### Outrigger footplate dimensions

- Front 15-3/4 in. x 19-5/8 in.
- Rear 15-3/4 in. x 19-5/8 in.

### Maximum Outrigger soil pressure

- Front 140 psi (W/O Dunnage Block) 76 psi (With Dunnage Block)
- Rear 146 psi (W/O Dunnage Block) 76 psi (With Dunnage Block)

### Assembled Unit

### Charging hopper

- height 57 in.
- capacity 17.5 cu. ft.

### Water Pump

- maximum output 5.5 gal./min.
- maximum pressure 150 psi

### Painting

- preparation Shot blasted & steam cleaned
- primer One Coat
- finish One coat, cream colored enamel

## Overall Dimensions and Weights

### Estimated overall dimensions

- Maximum height 13 ft. 2 in.
- Maximum length 44 ft. 4 in.
- Maximum width 8 ft. 0 in.

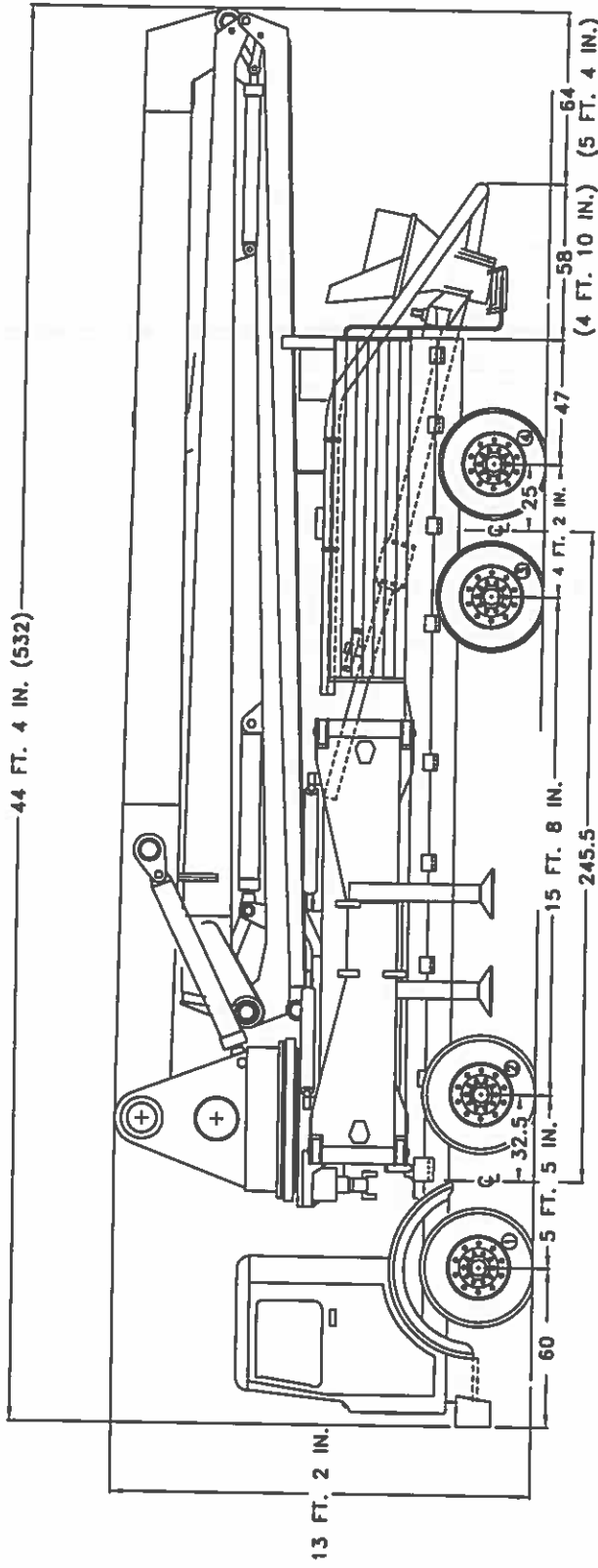
### Estimated complete unit weight

- Front axle 33,640 lbs.
- Rear axle 39,340 lbs.
- Total weight 72,980 lbs.

Values apply to units mounted on Schwing America supplied Mack trucks only.

Values may vary slightly not only from unit to unit but from other makes or model trucks as well.

NOTE: All specifications are subject to change without notice.



44 FT. 4 IN. (532)

13 FT. 2 IN.

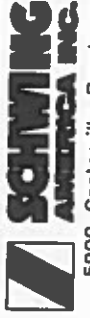
60  
5 FT. 5 IN.  
15 FT. 8 IN. (245.5)  
4 FT. 2 IN.  
4 FT. 10 IN. (5 FT. 4 IN.)  
58  
64

AXLE/GROUP	#1	#2	#3	#4
SUSP. TYPE	SPRING	SPRING/AIR	SPRING	SPRING
EQUALIZE	NO		YES	
TIRE SIZE	425/65R22.5	425/65R22.5	11R22.5	11R22.5
RATED LOAD	20,000 LB.	20,000 LB.	22,000 LB.	22,000 LB.
GROUP LOAD	33,640 LB.		39,340 LB.	

TOTAL WEIGHT: 72,980 LB.

FOR REFERENCE ONLY.  
WEIGHTS AND DIMENSIONS WILL VARY  
DEPENDING UPON OPTIONS SELECTED.

- NOTES:
1. DOES NOT INCLUDE WATER (1,400 LBS), HOSE, PIPE, ETC.
  2. TRUCK SUSPENSION MUST BE LEAF SPRING TYPE
  3. AXLE CAPACITY IS LESSER OF AXLES, TIRES & SUSPENSION.

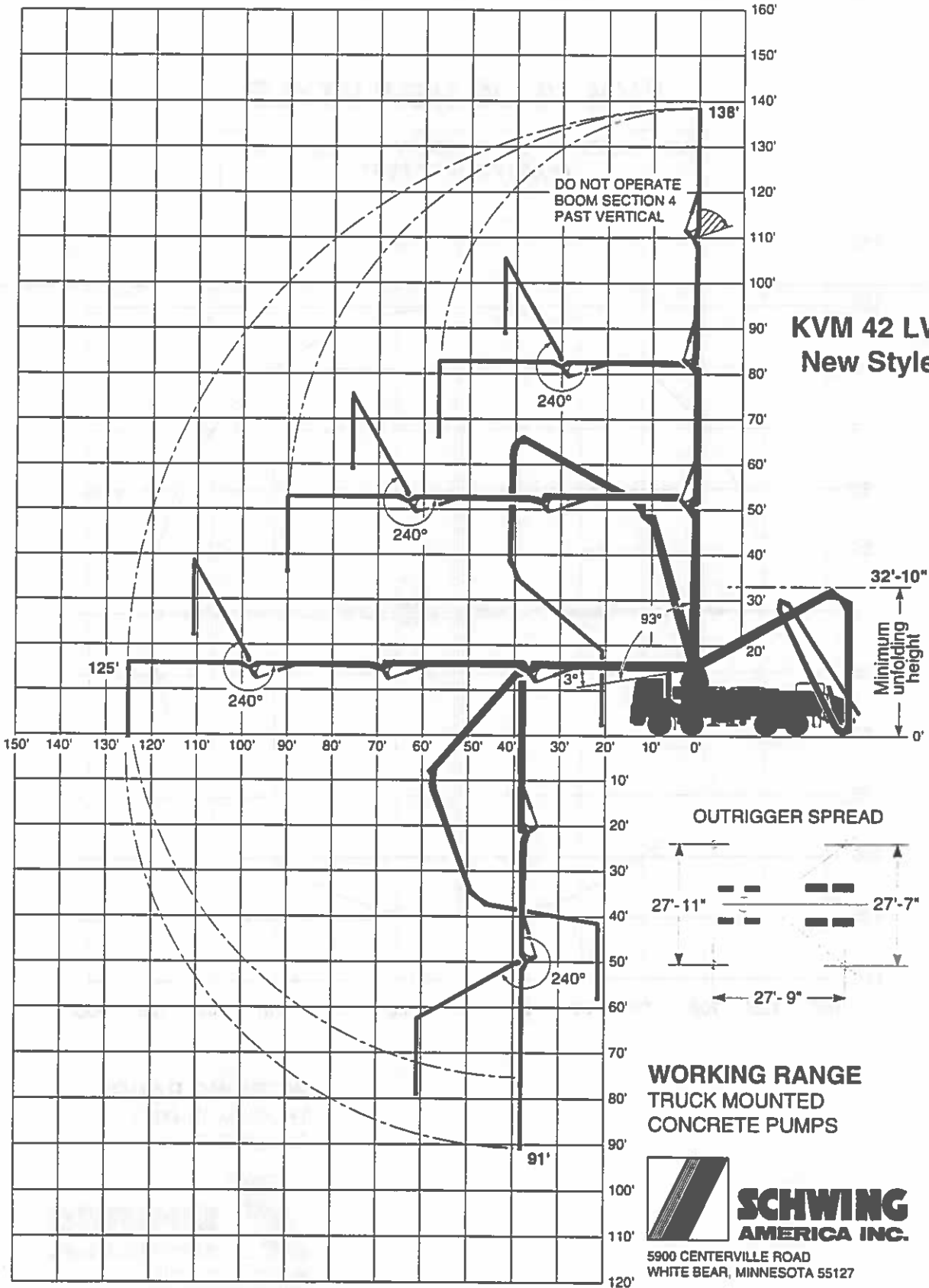


5900 Centerville Road  
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SCHWING CONCRETE PUMP  
BPL 2023-4 M-ROCK KVM 42  
MOUNTED ON A MR 68BS MACK  
TWIN-STEER

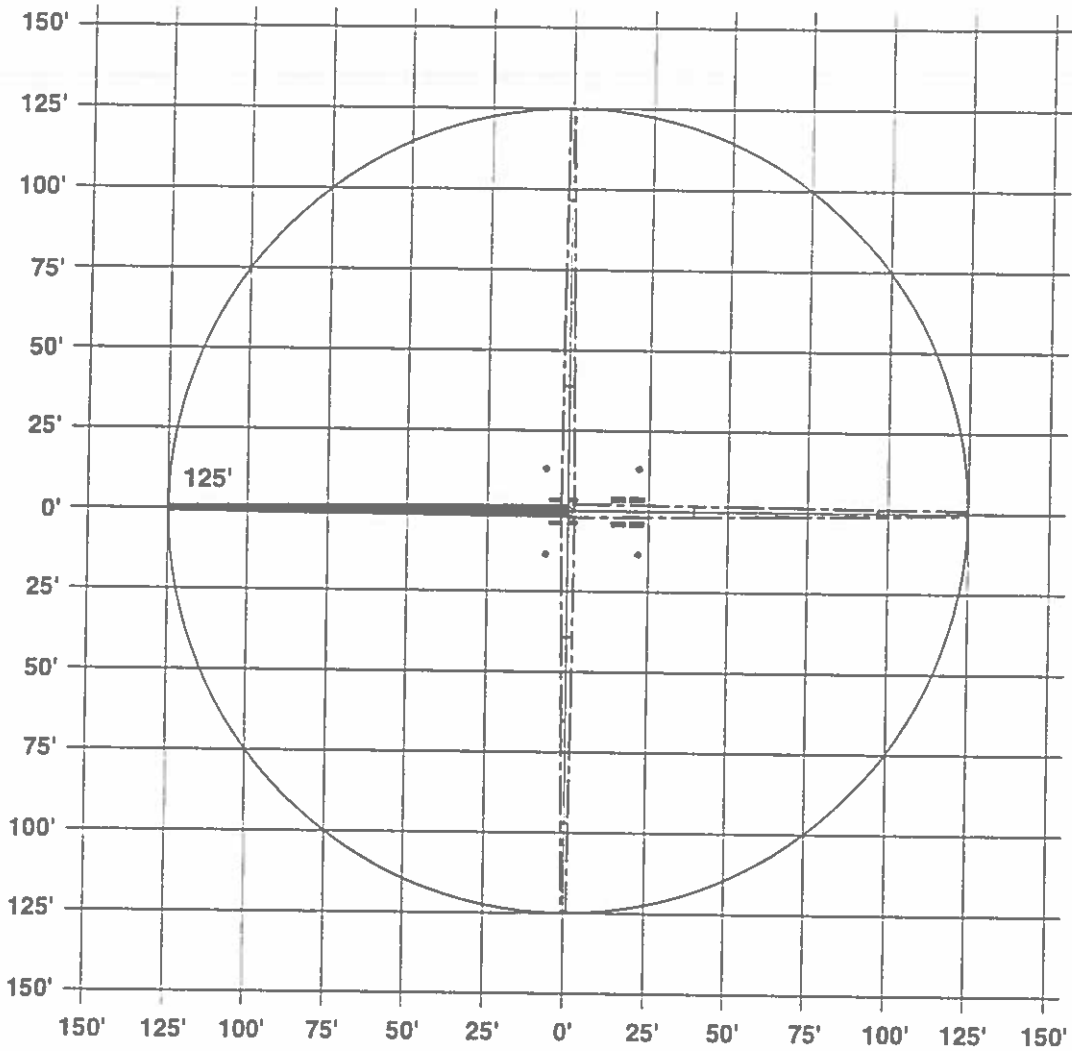
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42 STD M4



# KVM 42 LW NEW STYLE

**BOOM AREA OF COVERAGE (AT HORIZONTAL)  
49,090 SQUARE FEET**



**WORKING RANGE  
TRUCK MOUNTED  
CONCRETE PUMPS**



**SCHWING  
AMERICA INC.**

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