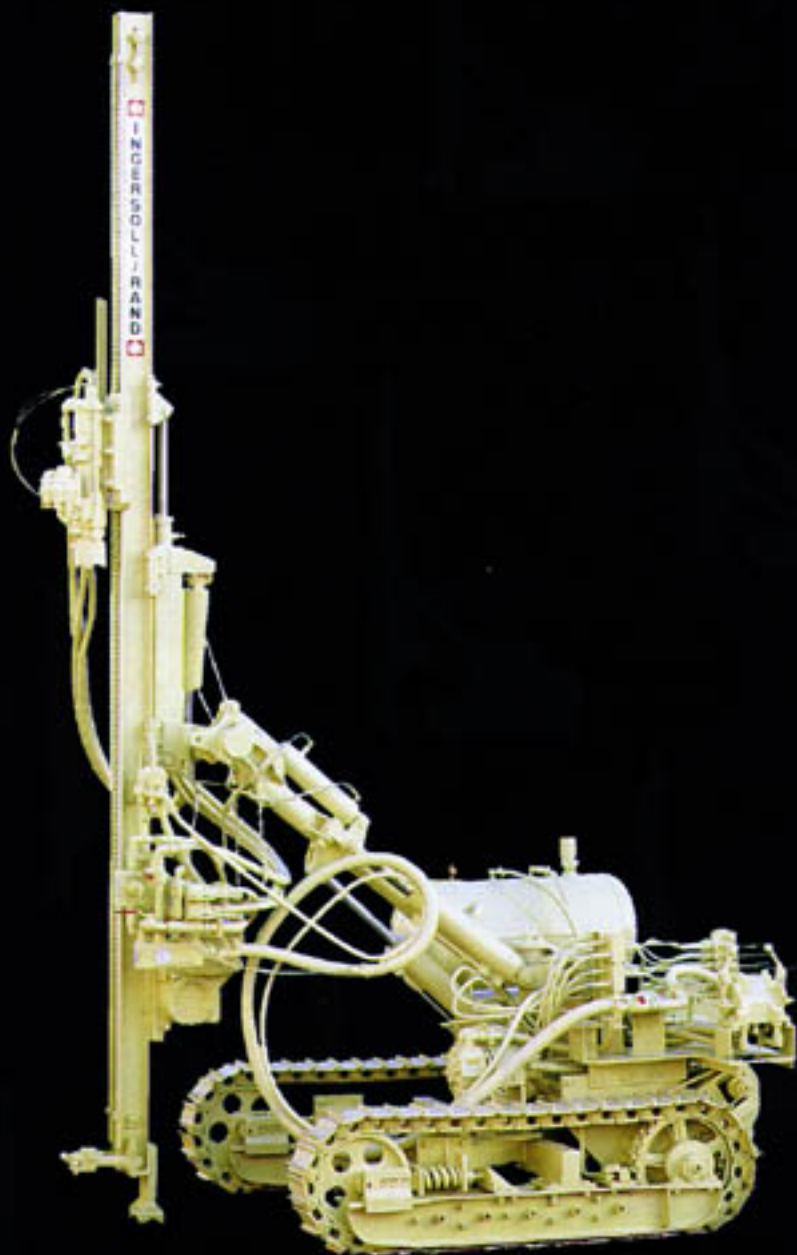


LM100A *Crawler[®] Drill*



INGERSOLL-RAND
DRILLING EQUIPMENT

The LM100A is a small class pneumatic crawler[®], capable of drilling 1 3/4 to 4 1/2 inch (44 - 114 mm) diameter holes. It can be equipped with either of two drifters or a BRH rotary head for downhole drilling. The LM100A is ideal for applications in confined areas where hand-held tools are not enough, and is light enough to transport by helicopter. Like all Ingersoll-Rand crawler[®] drills, the LM100A is "Abuse Resistant"... It keeps coming back for more!



General Specifications

		U.S.	Metric
Guide			
Guide Dump (without pin change)	degrees	75	-
Guide Swing (L/R)	degrees	45/45	-
Guide Extension	in-mm	29	750
Drill Rod Length	ft-m	10	3
Feed Motor Pull*	lb-kg	3000	1360
Boom			
Boom Swing (L/R)	degrees	30/35	-
Boom Lift (up/down)	degrees	45/30	-
Coverage Length-vert. holes (L/R)	in-mm	107	2720
Max. drill height (horiz.)	in-mm	99	2510
Carrier			
Overall Track Length	in-mm	72	1845
Ground Clearance	in-mm	9	230
Oscillation	degrees	20	-
Air motors (each)*	hp	4.5	-
Gradeability	degrees	30	-
Tromming Speed	mph-km/hr	0-2	0-3.2
Operating Dimensions			
Length (boom at 45 degrees, guide horiz.)	in-mm	195	4950
Width	in-mm	75	1905
Minimum Height	in-mm	44	1120
Height (boom at 45 degrees, guide vert.)	in-mm	188	4775
Weight (less drifter)	lbs.-kg	5400	2450
Hole Size	in.-mm	1.75-4.5	44-114
* at air pressure 100 PSI (7 kg/cm ²)			

Drifter Options- The LM100A has a choice of two drifters, adding to its versatility. The Ingersoll-Rand YD90 drifter is capable of drilling holes from 1 3/4 - 2 1/2" (44 - 64 mm), or for more demanding applications, the powerful VL120 will drill holes from 2 - 3 1/2" (51 - 89 mm).

DHD Option- The LM100A may be purchased with an Air Rotary Head (BRH)/Downhole Drill (DHD) combination, allowing the LM100A to drill holes from 3 1/2 - 4 1/2" (89 - 114 mm) in diameter.

Drill Controls- The LM100A drill controls are offered either on the guide or on the side of the machine, giving you the flexibility to build the rig to your specifications.

Drifter/BRH Specifications

Drifter	model	YD90	VL120*
Hole Range	in. (mm)	1.75-2.5 (44-64)	2-3.5 (51-89)
Weight	lb (kg)	187 (85)	375 (170)
Frequency	RPM	1600	1900
Air Consumption	SCFM (m ³ /min)	375 (10.6)	600 (17.0)
@ 50 RPM & 100 psi (7 kg/cm ²)			
Bore	in (mm)	3.5 (90)	4.75 (120)
Stroke	in (mm)	3.4 (85)	3.62 (92)
Rod Length (standard)	ft (mm)	10 (3048)	10 (3048)

BRH Rotary Head

Weight	lb (kg)	304 (138)
Torque Max.	lb.ft (kg.m)	700 (96.7)
Rotation Range	RPM	0-50
Air Consumption	SCFM (m ³ /min)	120 (3.39)
@ 50 RPM & 100 psi (7 kg/cm ²)		
Gear Ratio		20:1
Horse Power	hp (kw)	4.5 (3.35)
@ 100 psi (7 kg/cm ²)		

* This drifter is authorized as an alternate drifter for use with the LM100A with a special heavy duty feed chain.

Nothing contained in this brochure is intended to extend any warranty or representation, expressed or implied, regarding the products described herein. Any such warranties or other terms and conditions of sale of products shall be in accordance with Ingersoll-Rand's standard terms and conditions of sale for such products, which are available upon request.