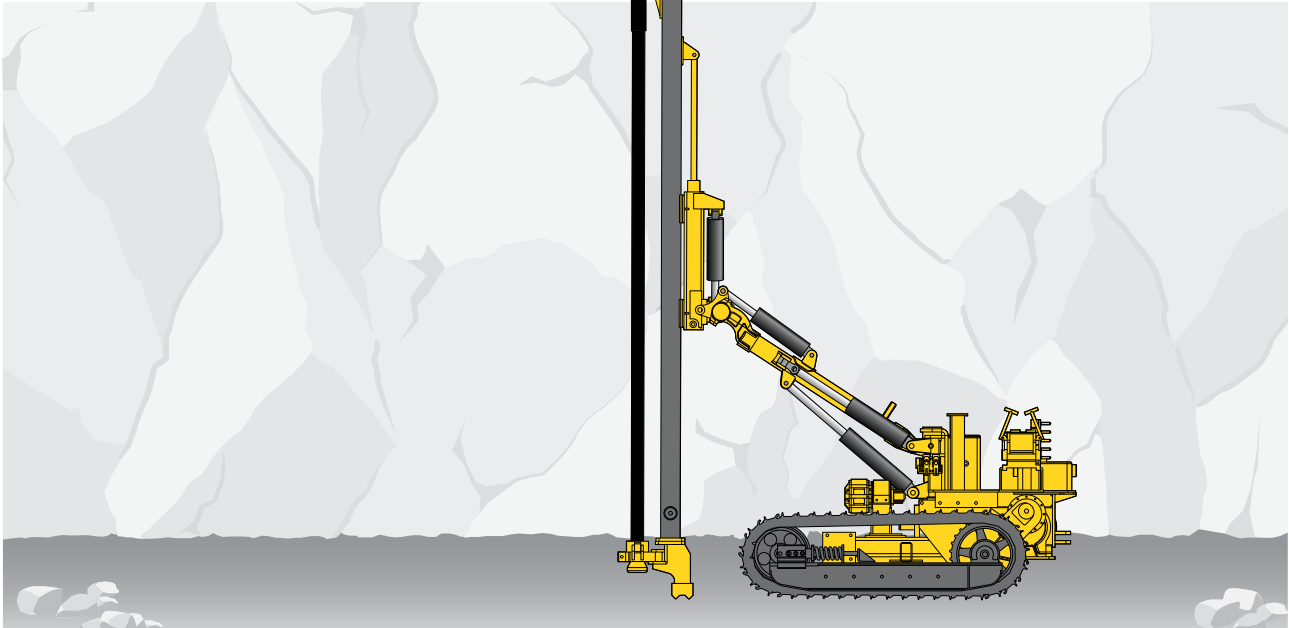


Atlas Copco Surface drill rig

LM 100

Technical specification



The small master

1. Proven surface air drill rig with outstanding performance
2. Economic and reliable
3. Compact in size and simple mechanical air control system

LM 100 is intended for construction, quarrying and open pit mining. The main components are:

- Pneumatic-operated hydraulic power pack for hydraulic cylinders
- Pneumatic-powered traction motors with gear and chain drive
- Track chains with 204 mm track shoes
- Mechanical track oscillation
- De-clutching crawler drive mechanism
- Towing hook
- 7 bar and 12 bar air line and oil lubrication system
- Single section boom system
- Pneumatic-operated chain feed for 3 000 mm (10ft.) drill tubes
- Manual drill steel support
- Feed extension
- Feed repining for toe hole drilling
- Side-mounted fixed drilling control panel
- Side-mounted tramming and positioning controls
- Extra air outlet for cleaning or running air tools (e.g. grinding equipment)

Hole range			
Pipe size		Recommended hole range	
76	3"	102-115 mm	4" - 4 1/2"

Specifications

LM 100

Carrier

- Trimming speed, max 3.2 km/h 2 mph
- Traction force, max 17 kN 3 821 lbf
- Track oscillation $\pm 20^\circ$
- Ground clearance 225 mm 8.9"
- Hill climbing ability 30 deg max. (w/o compressor)

Volumes

- Hydraulic oil tank 22 l 5.8 US gal
- Hydraulic system, total 22 l 5.8 US gal
- Traction gear 2 l 0.53 US gal
- Lubrication tank (HECL) 7.6 l 2 US gal

All performance parameters above are valid for 7 bar air pressure

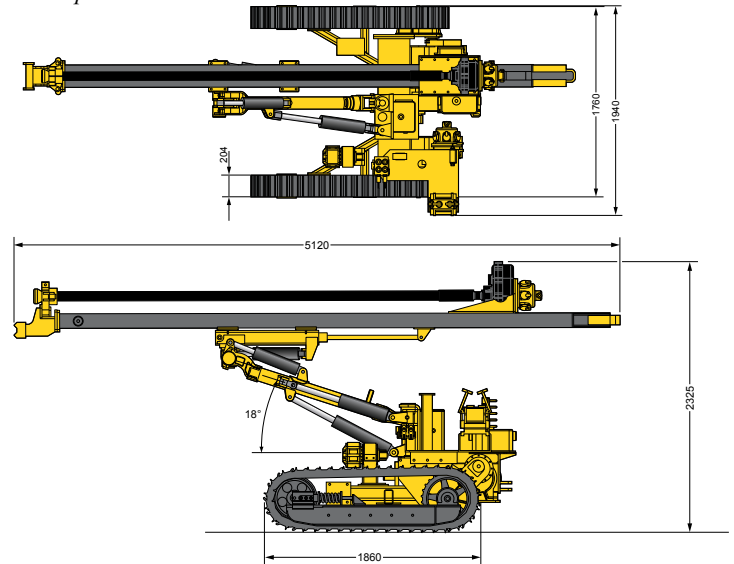
Steel feed

- Pneumatic-driven chain feed
- Feed extension 750 mm 29.4"
 - Feed rate, max 0.3 m/s 59 ft/min
 - Feed force, max 21 kN 4 720 lbf
 - Tractive pull, max 15 kN 3 372 lbf
 - Total length 5 130 mm 202"
 - Travel length 3 565 mm 140.4"

Transport dimensions

Height and length		
Tramming position		
Height	1 720 mm	5'8"
Length	5 120 mm	201 1/2"
Transportation position		
Height	2 325 mm	7'7 1/2"
Length	5 120 mm	16'9 1/2"
Width	1 940 mm	6'4 1/2"

Transport dimensions



Weight

Weight	
<i>Standard unit excluding all options and drill steel</i>	
2 690 kg	5 930 lb

Optional equipment

- Water injection system with pneumatic pump
- Water mist flushing system with pressurised tank

Air consumption and compressor recommendation

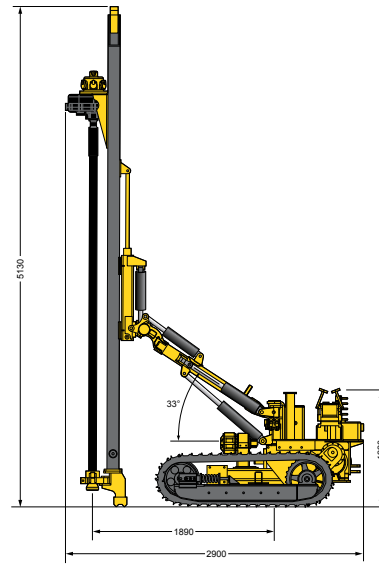
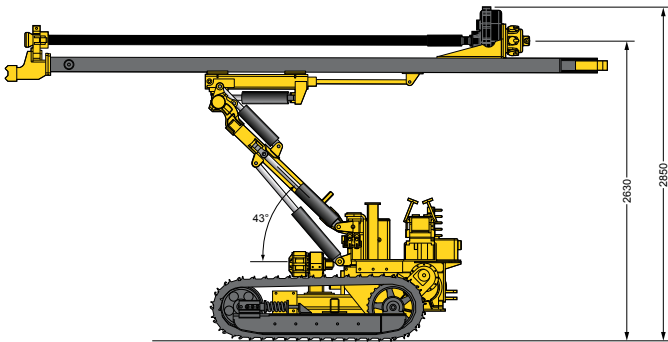
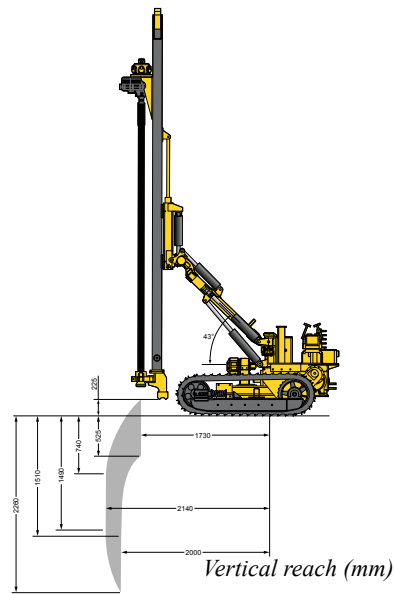
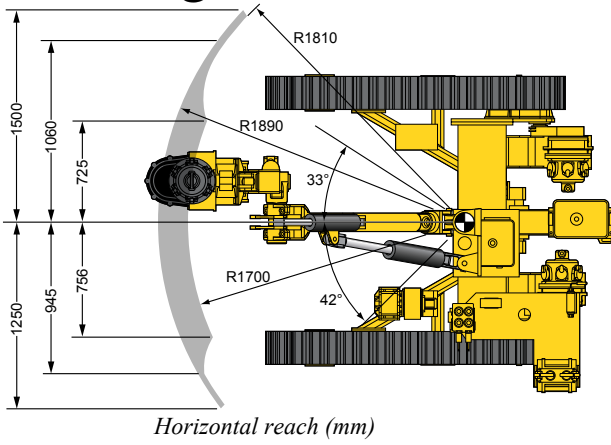
Component	Production country	Operating pressure (bar)	Air consumption (l/sec)	DTH hammer		
DTH hammers:						
TD 35	India	10.5	108	108		
QL 40	India	10.5	116		116	
COP 44	India	10.5	95			95
Chain feed:						
DD6 FM1+CMFM	India	7	52	52	52	52
Rotation unit:						
BRH	India	7	61	61	61	61
Total air consumption excl. DCT				221	229	208
Compressor recommendation:						
XAH 210 (Cummins)		10.5	214	(X)	(X)	(X)
XAHS 675 (Cummins)		12	318	X	X	X

Note

(X) on the margin

Air consumptions given are required volume for the respective hammer/drifter/DCT to function - additional volume of air required for flushing can vary. This depends on drilling depth and rock formation.

Coverage areas



Feed swing angles

