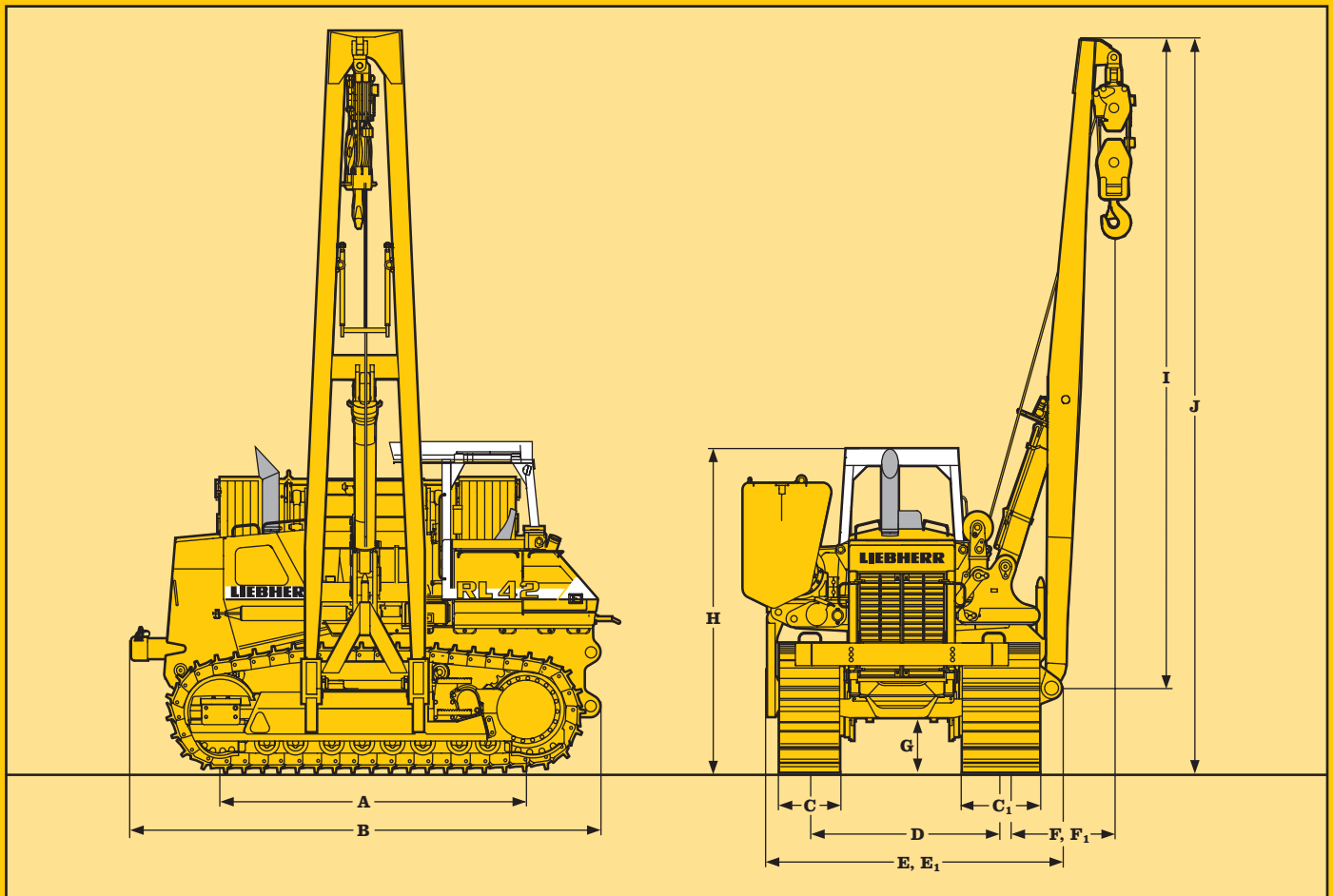


Technical Description Pipe Layer

RL 42 B MP

Litronic®

Engine output 172 kW/234 HP
Max. lift capacity 50 tons/110,250 lb
Operating weight 41.6 tons/91,750 lb



	mm / ft-in
A Distance idler/sprocket center	3275 / 10'9"
B Total length	4741 / 15'7"
C Ground pad width - right hand side	711 / 28"
C1 Ground pad width - left hand side	914 / 36"
D Track gauge	2080 / 6'10"
E Transport width	3490 / 11'5"
E1 Width counterweight extended	5130 / 16'10"
F Boom overhang, min.	1180 / 3'10"
F1 Boom overhang, max.	5985 / 19'8"
G Ground clearance	482 / 1'7"
H Transport height	3305 / 10'10"
I Boom length	6010 / 19'9"
J Total height, max.	6890 / 22'7"

Basic Machine Contents

- Pipe layer RL 42 B with Liebherr Diesel engine D 926 TI-E
- Chain D7G, single grouser track pads 914/711 mm / 28"/36", 43 links, lubricated
- Canopy
- Hoist winch
- Counter weight 8186 kg / 18,050 lbs
- Boom 6010 mm / 19'9"

LIEBHERR

The Better Machine.



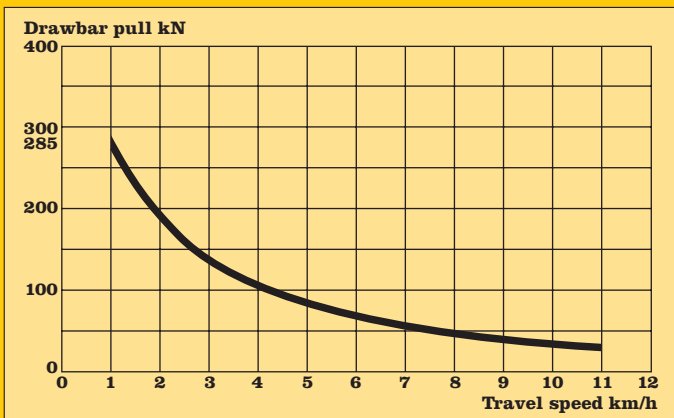
Diesel Engine

Liebherr-Diesel Engine	D 926 TI-E
Rating per ISO 9249	172 kW (234 HP) at 1800 RPM
Displacement	10 l / 610 cu.in.
Bore/stroke	122/142 mm / 4.8"/5.6"
Design	6 cylinder in-line engine, water-cooled, turbocharged, intercooled
Injection	direct fuel injection with in-line injection pump, mechanical governor
Fuel filter	pre-cleaner with water separator and fine filters
Lubrication	pressurized lube system with full flow filter and integrated oil cooler, deep oil pan for inclinations, engine lubrication to an inclination of up to 45° to each side
Operating voltage	24 V
Alternator	55 Amp.
Starter	6,6 kW / 9 HP
Main fuse	35 A



Travel Drive

Design	closed-loop hydrostatic drive, each track is driven by one variable flow swash plate-type pump and one variable displacement motor
Pump flow	max. 272 l/min / 71.8 gal/min
Max. pressure	adjusted to 420 bar / 6090 PSI
Travel speed	0 - 11 km/h / 0 - 6.8 mph infinitely variable, forward and reverse
Steering	hydrostatic
Service brake	hydrostatic
Parking/emergency brake	automatic multi disc brake in final drives
Cooling system	hydraulic oil cooler with separate cooling circuit with gear pump and front mounted cooler
Filter system	cartridge fine filters in the cooling circuit
Final Drive	2-stage planetary reduction gear



Track Frame

Design	maintenance-free tractor-type track frames
Mount	elastic components at a separate pivot shaft
Chains	lubricated, track chain tension with grease tensioner, single grouser pads
Chain links	43
Sprockets	5 replaceable segments
Track rollers	8
Carrier rollers	2
Ground contact area	5,32 m ² / 8,246 sq.in.
Ground pressure	0,78 kg/cm ² / 11.12 PSI



Travel Control

1 Joystick lever	with electronic control for all travel functions: travel direction, speed, steering and counter-rotation
Speed range 1	0 - 5 km/h / 0 - 3.5 mph
Speed range 2	0 - 11 km/h / 0 - 6.8 mph
Electronic engine speed sensing control	electronic regulation assures a constant balance between travel speed and necessary drawbar pull through engine speed sensing avoiding engine overload, even in partial load range
Straight line travel	electronically controlled
Parking/emergency brake	automatically applied after the joystick lever is put in neutral position
Safety lever	inactivates complete travel and working hydraulic circuit and automatically activates parking brake
Emergency shut off	push button on instrument panel immediately activates parking and emergency brake



Operator's Compartment

Mount	resiliently mounted
Operator's seat	fully adjustable swing seat, adjustable to operator weight
Monitor	comprehensive instrument panel on the right hand side of the operator's seat
Canopy	can be tilted with hand pump to 40° to the rear for accessibility to machine components



Refill Capacities

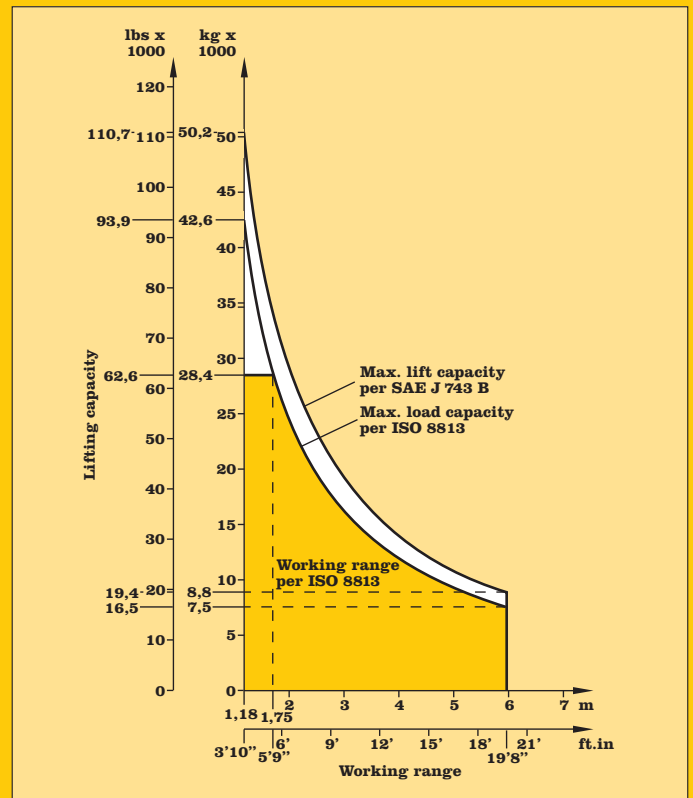
Fuel tank	450 l / 118.8 gal
Cooling system	62 l / 16.4 gal
Engine oil	22 l / 5.8 gal
Splitterbox	3 l / 0.8 gal
Hydraulic tank	189 l / 50 gal
Final drive, each	23 l / 6.1 gal

Technical Data Basic Machine



Working Attachment

Hoist winch	_____	driven by variable flow hydraulic pump, control valve block and variable oil motor in open circuit. Brake valve helps to sensitively lower the load over total speed range, when the control lever is in neutral, a spring-loaded disk brake holds the load safely in any position
Drum diameter	_____	305 mm / 1'0"
Drum length	_____	254 mm / 10"
Flange diameter	_____	566 mm / 1'10"
Cable diameter	_____	20 mm / 0.8"
Cable length	_____	65 m/71.1 yards
Hook block	_____	4 sheave
Hook speed in	_____	
1. cable position	_____	up 0-25 m/min / 27.3 yards/min stepless down 0-25 m/min / 27.3 yards/min stepless
Safety device	_____	free fall control
Adjustable boom control	_____	through hydraulic cylinder, the lifting and lowering speed of the boom and the hook block can be changed steplessly, drives are fully independent and can be actuated at the same time. A check valve keeps the boom leakage free in any position and prevents uncontrolled boom drop in case of loss of pressure
Adjustable boom cylinder	_____	
Piston diameter	_____	170 mm / 6.7"
Rod diameter	_____	90 mm / 3.5"
Stroke	_____	1260 mm / 4'2"
Boom	_____	
Design	_____	box-type welded structure made of highly resilient, grain refined steel
Fixed boom	_____	length 6010 mm / 19'9" welded box sectioned
Counterweight	_____	installed on the right hand side of the machine, total weight extractable (8186 kg / 18,050 lbs) removable weight of 6150 kg / 13,561 lbs



Implement Hydraulic

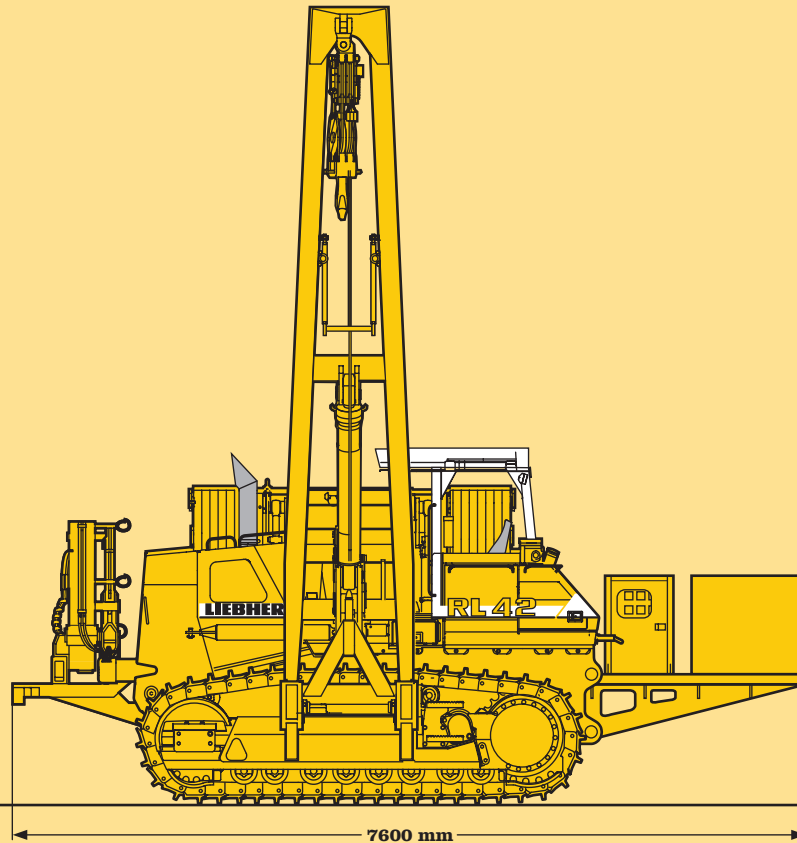
Hydraulic system	_____	on demand (load sensing) control, swash plate type variable displacement pump and pressure cut-off for hoist winch and adj. boom and counterweight cylinder drive
Max. pump flow	_____	max. 292 l/min / 77.1 gal/min
Pressure limitation	_____	adjusted to 280 bar / 4060 PSI
Control valve	_____	3 spool segments
Filter system	_____	return filter with magnetic rod in hydraulic tank

Control	_____	single servo-assisted joystick lever for hoist winch and adj. boom cylinder, safety lever prevents inadvertent movement, free fall device makes it possible to lower the load in case of danger servo-assisted joystick lever for adj. counterweight cylinders
---------	-------	--

Optional arctic temperature arrangement (to -40 °C)

Includes

- Isolated and separately heated cabinet on rear platform for welding equipment, generator, compressor and airreceiver.
- Water-preheater warms up Diesel engine, supplies hot water to blowers, 11 kW output, operated with petroleum.
- Blowers to preheat hydraulic components
- Fuel tank for diesel and petroleum
- Filling with arctic oils
- Fuel precleaner heated
- Extra heater fuel operated for operator's cabin
- Insulation glass panes for operator's cabin
- Covers for engine hood, radiator and oil cooler
- Undercarriage components with low temperature seals



7600 mm



Compressor

Design _____ hydraulic powered heavy duty Quincy air compressor, skid mounted
Model _____ QR-25 basic two-stage compressor model 370 LVD
Rating _____ 1.245 l/min @ 14 bar
Airreceiver _____ 400 - 500 l; 16 bar
Operation _____ control lever at operator's platform



Generator

Design _____ hydraulic powered Stamford electric generator in protection skid (IP 45)
Rating _____ 125 kVA / 72,5 kVA
Voltage _____ 231/400 V - 50 Hz
Switch box _____ integrated switch box with Amp., Hz., and Volt gauges and service hour indicator; insulation monitoring device
Plug sockets _____ 4 x shuko 231 V
 6 x CEE 400 V
Operation _____ push button on instrument panel



Crane

Design _____ fully hydraulic powered HIAB crane with 400° slewing angle; front mounted; complete with service lead supports and hook for lifting of welding tent
Capacity _____ 70,6 kNm (7.2 tm)
Max. reach _____ 7,2 meter (full hydraulic)
Operation _____ control levers and emergency switch at operator's platform

Working Attachment

- Gasbottle support for two propane gasbottles
- Working lights at front, left and rear side of the machine



Welding Equipment

Design _____ 2 or 4 pos. electric powered welding sources mounted in protection housings
Model _____ on customers request
Operation _____ remote control on welding spot, service lead two meters longer than max. reach of crane

Optionals

- Cabin
- Airconditioning
- Trackguard
- Preparation for automatic welding
- Different Generator
- Different Compressor
- Different Crane
- Lockable toolbox
- Electrode drying oven

Technical Data Welding Attachments



Compressor



Generator



Crane



Welding Equipment

