



PIPELAYERS

RL 24 · RL 44 · RL 54 · RL 64 LITRONIC[®]



INDEX

PIPELAYERS SERIES 4

Pipelayers	Page 3
Performance	Page 4
Reliability	Page 6
Safety	Page 8
Economy	Page 10
Technical specifications	
Base machine RL 24	Page 12
Dimensions and weights RL 24	Page 13
Base machine RL 44-54-64	Page 14
Dimensions and weights RL 44-54-64	Page 15
Transport dimensions and weights RL 44-54-64	Page 17
Lift capacity and ground pressure	
RL 24 Litronic®	Page 18
RL 44 Litronic®	Page 19
RL 54 Litronic®	Page 20
RL 64 Litronic®	Page 21
Equipment RL 24	Page 22
Equipment RL 44-54-64	Page 23



PIPELAYERS

	ENGINE OUTPUT	MAX. LIFT CAPACITY
RL 24	90 KW / 122 HP	23.900 KG 52,690 LB
RL 44	175 KW / 238 HP	45.900 KG 101,192 LB
RL 54	210 KW / 286 HP	70.000 KG 154,323 LB
RL 64	275 KW / 374 HP	90.800 KG 200,179 LB

ABOUT US

For nearly 40 years, Maats has been one of the leading suppliers of pipeline construction equipment and services to the pipeline industry and has a large fleet of equipment available for rental and for sale. Maats supply a wide variety of specialised construction machinery such as pipelayers, welding tractors, bending machines and related equipment for new pipeline construction as well as for pipeline maintenance and repairs.

Maats is global representative for the sale of new Liebherr pipelayers. Maats and Liebherr developed a range of pipelayers with lifting capacities up to 98 metric tons.

PERFORMANCE

Maats and Liebherr pipelayers are designed to provide maximum performance and handle the most difficult jobs. High lifting forces, outstanding maneuverability and heavy-duty components in the travel and working hydraulics ensure peak performance when laying pipelines.

POWERFUL AND INFINITELY ADJUSTABLE TRAVEL DRIVE

In combination with the innovative hydrostatic travel drive, the powerful Liebherr diesel engine provides optimum power in every situation. Whether transporting pipe on soft soil, lowering the pipeline when travelling uphill, or when pulling heavy pipe bending machines – the hydrostatic travel drive reliably provides the required power.

STEPLESS AND PRECISE CONTROL OF THE TRAVEL SPEED

The stepless travel drive enables traveling without sudden movements and is very accurate without shifting gears. This reduces vibrations during pipe transport and provides essentially millimetre-accurate joining during pre-assembly.

POWER FOR TRAVELLING ON SLOPES

The hydrostatic travel drive allows the operator to maneuver the machine easily and with maximum precision, even on steep slopes. The parking brake also acts as a safety brake and is automatically activated. Thus preventing the machine moving out of control, even when operating on slopes.

HIGH STABILITY

The compact arrangement of the drive components results in an extremely low centre of gravity for the machine. Through use of the extra-long undercarriage, Liebherr pipelayers offer maximum stability, especially on inclines.

HIGH LIFTING CAPACITIES

Resulting from the favorable weight distribution, centre of gravity, the extended position of the counterweight and the extra-long undercarriage, maximum lifting capacities are available over the entire working range.



MAATS AND LIEBHERR PIPELAYERS WILL IMPRESS YOU WITH THEIR OUTSTANDING PERFORMANCE CAPABILITIES.





HIGHLIGHTS PERFORMANCE

POWERFUL AND STEPLESS TRAVEL DRIVE

HIGH STABILITY

HIGH LIFTING CAPACITIES

LATEST TECHNOLOGY

EXCELLENT MANOEUVRABILITY

EXTRA LONG UNDERCARRIAGE

LONG BOOM



RELIABILITY

MAATS & LIEBHERR QUALITY

Maats and Liebherr pipelayers have been developed to meet requirements at construction sites around the world and designed throughout for a long service life. Whether at low temperatures in Siberia or in hot desert regions, the rugged and time-tested construction of Liebherr pipelayers provides maximum reliability and availability.

INTELLIGENT HYDRAULICS

Very precise control of the boom and winch. The pipe is placed with millimetre accuracy - this is a major benefit when connecting pipes during pre-assembly as well as when repairing the pipeline. The boom positioning cylinder stabilises heavy loads in every position.

LOW GROUND PRESSURE

All Maats and Liebherr pipelayers are equipped with very wide track shoes and an extra long undercarriage, which results in a very low ground pressure.

STATE-OF-THE-ART COOLING SYSTEM

The cooling air is drawn in from clean regions, reducing contamination from dust particles. A reversible fan for cleaning the radiator automatically in environments with a high dust level in the air is available as an option.

HYDROSTATIC FAN DRIVE

The hydrostatically powered fan regulates the cooling capacity to meet requirements. This allows the engine to reach the optimal operating temperature faster.

LOW - TEMPERATURE OPERATION (OPTION)

Liebherr and Maats pipelayers can be fitted with a variety of features to permit operation at low temperatures, such as preheating of the engine, battery preheating, auxiliary cab heater, electrically heated fuel water separator or insulated windows.

RUGGED AND WELL-THOUGHT- OUT DESIGN

The main frame is constructed using a proven box design. This results in a torsionally rigid frame that perfectly absorbs all applied forces. Components subjected to high loads are manufactured from cast steel.

The wear-resistant, braided PVC-fibre cable sleeving with a Teflon core provides maximum protection against mechanical damage. Damage and moisture uptake is also prevented.



**TIME-TESTED
AND PROVEN
TECHNOLOGY AS
WELL AS HIGH MATERIAL
AND MANUFACTURING
QUALITY ENSURE
MAXIMUM RELIABILITY
EVEN UNDER THE
HARSHEST CONDITIONS.**





HIGHLIGHTS RELIABILITY

TORSION RESISTANT MAIN FRAME

KEY TECHNOLOGIES FROM LIEBHERR

ENDURANCE TESTED COMPONENTS

STATE OF THE ART COOLING SYSTEM

LOW TEMPERATURE OPERATION

MILLIMETER ACCURATE CONTROL OF BOOM

WORK UNDER HARSH WEATHER CONDITIONS

POWERFUL WORKING CYLINDERS



SAFETY

Safety is always a priority at Maats and Liebherr. Accordingly, all pipelayers have a well thought out safety concept. Important details such as the ROPS cab, the boom-positioning cylinder, the automatic parking brake, optional load moment limiting and the extremely precise hydraulics make Maats and Liebherr pipelayers among the safest in the industry.

CAB WITH INTEGRATED ROPS PROTECTION

Maats and Liebherr pipelayer cabs come with integrated roll-over protection as a standard feature. This provides convenient and good visibility in the working area.

HYDRAULIC CYLINDER FOR BOOM POSITIONING

Instead of a second winch, Liebherr install a boom cylinder on all pipelayer models. This cylinder is maintenance-free and also prevents unintentional folding of the boom in critical situations.

LOGICAL JOYSTICK CONTROL

All primary machine movements can be initiated intuitively and without reaching for another operating lever. This always allows the operator to focus his attention on the load being moved. Safety on the construction site is increased considerably as a result.

PRECISION WHEN TRAVELLING ON SLOPES

Maats and Liebherr pipelayers always move with no loss of traction. This prevents the machine's rolling away unintentionally, especially when travelling on slopes. When the machine is no longer moving, an automatically activated parking brake provides additional safety. Thanks to the hydrostatic system, the operator can control braking simply by eliminating any joystick deflection.

HOSE-BREAK PROTECTION

All cylinders on Maats and Liebherr pipelayers features hose-break protection that prevents lowering of the boom in the event of hose breakage.

FREE-FALL FUNCTION

If the operator must lower the load quickly, in case of emergency, it is possible to switch the winch to free-fall.

LOAD MONITORING SYSTEM

Maats and Liebherr pipelayers can be fitted with a Load Monitoring System.



**SAFETY IS PRIORITY
AT LIEBHERR AND
MAATS, WHICH
IS WHY ALL PIPELAYERS
ARE BASED ON A WELL-
THOUGHT-OUT SAFETY
CONCEPT THAT SETS
STANDARDS IN PIPELINE
CONSTRUCTION.**





HIGHLIGHTS SAFETY

SAVE ACCESS TO THE CAB

NON-SLIP STEPS

PIPE PROTECTION ON THE BOOM (OPTION)

NUMEROUS HANDHOLDS ON THE MACHINE

AUTOMATIC LIFT KICK OUT

OVERLOAD WARNING DEVICE

WELL THOUGHT OUT LIGHTING CONCEPT



ECONOMY

Clear economic benefits - the Liebherr advantage: Like all other Liebherr and Maats equipment, these pipelayers are characterised by their service friendliness. This reduces both downtime and maintenance costs. The Liebherr diesel engines combine high performance and economy - the combination of an efficient drive system and load sensing hydraulics guarantees minimum fuel consumption.

LOW SERVICE COSTS

Maximum accessibility to all maintenance points. All service points on the diesel engine are centralised, easily accessible on one side of the machine. Separate compartments for the batteries, the electronics and the diagnostic tools offer the best protection, while providing easy and quick access.

UNMATCHED OIL CHANGE INTERVALS

Liebherr oils and lubricants are specially formulated for the harsh operating conditions of pipelayers. Thanks to the special properties of these oils, achievable oil change intervals can be as much as four times longer than those for conventional oils. This lowers the amount of services required, reduces the amount of oil used and protects the environments.

**SPECIAL ATTENTION
WAS DEVOTED TO
ENSURING LONG
COMPONENT SERVICE
LIVES, LOW SERVICE
COSTS AND LOW FUEL
CONSUMPTION.**

LOW FUEL CONSUMPTION

The Liebherr diesel engine runs at a constant low speed - in an economical range - regardless of the travel speed. The result is exceptionally low fuel consumption.

ECONOMICAL HYDRAULICS

The load sensing on demand controls supply only the exact amount of oil needed. This protects the components and saves fuel.

INNOVATIVE COOLING SYSTEM

The hydrostatically powered fan regulates the cooling capacity to meet requirements, regardless of the diesel engine rpm. This ensures optimal cooling capacity and saves fuel.

COMPONENTS AND SPARE PARTS LOGISTICS

The main components of Liebherr and Maats pipelayers are identical to those used in the crawler tractors, greatly simplifying maintenance and repair as well as spare parts supply.

TILTING OPERATOR CAB

The standard tilting operator cab provides fast and easy access to all important components of the travel drive and hydraulics.





HIGHLIGHTS ECONOMY

LONG COMPONENT SERVICE LIFE

LOW SERVICE COSTS

WIDE OPENING ENGINE COMPARTMENT

DOORS PROVIDE EASY ACCESS

PROTECTED COMPONENTS

EXCEPTIONALLY LOW FUEL CONSUMPTION

TILTING OPERATOR CAB PROVIDES FAST
AND EASY ACCESS



BASE MACHINE

RL 24



ENGINE

RL 24

Diesel engine	John Deere PowerTech 6068H, emission regulations according to 2004/26/EG stage IIIA and EPA/CARB Tier 3
Rating (ISO9249)	90 kW / 122 HP
Rating (SAE J1349)	90 kW / 121 HP
Rated speed	2,100 rpm
Displacement	6,8 l / 414 cu. in.
Design	6-cylinder-in-line engine, water cooled, turbocharged, air-to-air intercooler
Injection system	Common Rail system with direct injection, electronic engine management
Engine lubrication	Pressurized lube system, engine lubrication guaranteed for inclinations up to 45 degrees
Operating voltage	24 V
Alternator	80 A
Starter	7,5 kW
Batteries	2 x 117 Ah / 12V
Air cleaner	Dual stage dry type with safety element, pre-cleaner, service gauge in the cab
Cooling system	Combi radiator, comprising radiators for water, hydraulic fluid and charge air



REFILL CAPACITIES

RL 24

Fuel tank	227 l / 50 gal
Cooling system	23 l / 5.1 gal
Engine oil with filters	24 l / 5.3 gal
Transmission oil tank	65 l / 14.3 gal
Hydraulic oil tank	70 l / 15.4 gal
Final drives each	13 l / 2.9 gal



UNDERCARRIAGE

RL 24

Design	Track frame, rigid
Mount	Via separate pivot shafts and a fixed equalizer bar
Chains	Lubricated, single grouser shoes; track chain tensioning via steel spring and grease tensioner
Links, each side	49
Track rollers/carrier rollers	9/2
Sprocket segments	5
Track shoes standard	762 mm / 30"
Track shoes option	610 mm / 24" and 710 mm / 28"



TRAVEL DRIVE, CONTROL

RL 24

Transmission system	Infinitely variable hydrostatic travel drive, independent drive for each track
Travel speed	- Infinitely variable from 0 to 8,9 km/h / 5.5 mph - Setting of travel speed ranges on the travel joystick Reverse speed can be set at 80, 100, 115 or 130% of forward speed (max. 8,9 km/h / 5.5 mph)
Drawbar pull	161 kN at 1,0 km/h - 0.6 mph
Electronic control	Electronic engine speed control automatically adjusts travel speed and drawbar pull to match changing load conditions
Steering	Hydrostatic
Service brake	Hydrostatic (dynamic braking), wear free
Automatic park brake	Wet multiple disc brake, wear free, automatically applied
Cooling system	Transmission oil cooler integrated in combi radiator
Filter system	Micro cartridge filter
Final drive	Triple reduction final drives, spur gears
Control	Single joystick for all travel and steering function; Decelerator pedal
Adjustments	Operator can individually adjust travel drive parameters via the monitor, e.g. joystick response, decelerator pedal response, etc.
Decelerator pedal	Decelerator pedal allows reduction of ground speed with or without reduction of engine rpm



HYDRAULIC SYSTEM

RL 24

System	Load sensing proportional pump flow control
Pump type	Swash plate, variable displacement piston pump
Pump flow max.	155 l/min / 34.1 gpm
Pressure limitation	320 bar / 4640 PSI
Control valve	3 Segments, expandable to 5
Filter system	Return filter with magnetic rod in the hydraulic tank



HYDRAULIC WINCH

RL 24

Hoist winch	Variable flow hydraulic pump
Safety brake	Spring-loaded disc brake holds the load safely in any position
Drum diameter	248 mm / 10"
Drum length	349 mm / 13.75"
Flange diameter	416 mm / 16.38"
Cable diameter	16 mm / 0.63"
Cable length	55 m / 60.15 yd
Hook block	2 sheaves / 3 strand
Hook speed (up, down)	0-33 m/min 0-108 ft/min



OPERATOR'S CAB

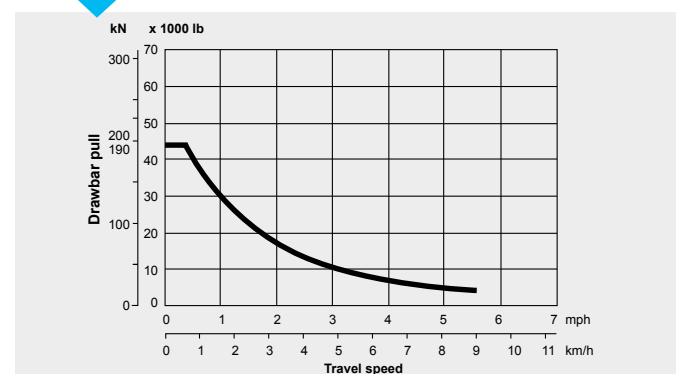
RL 24

Cab	Resiliently mounted cab with positive pressure ventilation, integrated ROPS Rollover Protective Structure (ISO 3471).
Canopy (option)	Resiliently mounted canopy. Integrated ROPS Rollover Protective Structure (ISO 3471)
Operator's seat (cab)	Fully adjustable air-suspended comfort seat; adjusts automatically to operator's weight
Operator's seat (canopy)	Fully adjustable mechanical suspension comfort seat
Monitoring	Combined analogue / LC display. Automatic monitoring, display and warning of deviating operating parameters



DRAWBAR PULL

RL 24

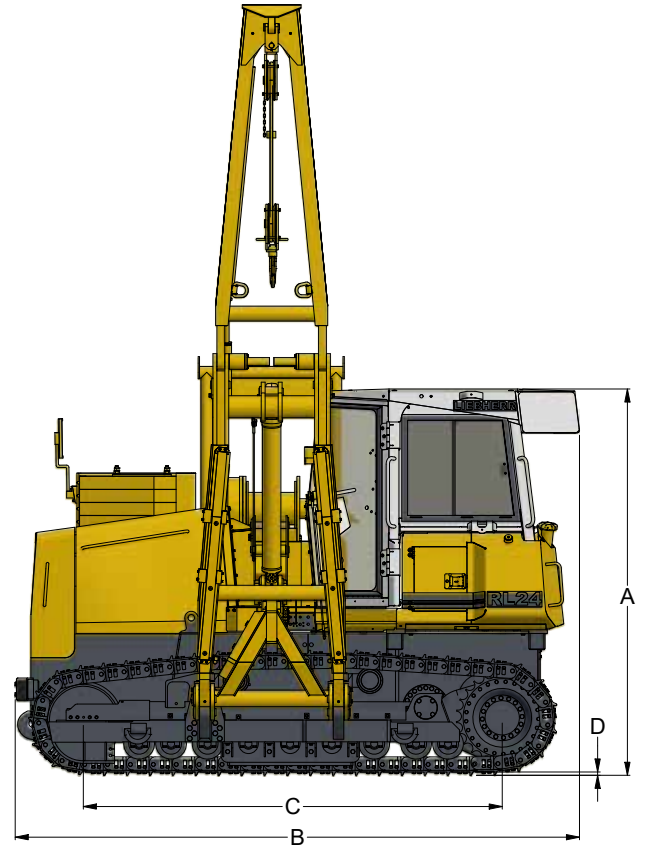
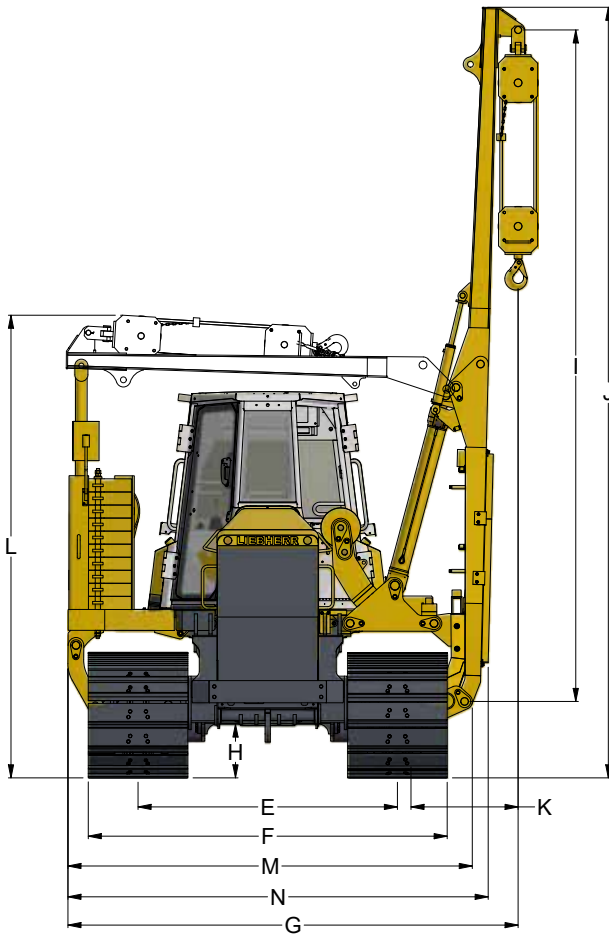


DIMENSIONS AND WEIGHTS

RL 24

MAATS®

PIPELINE PROFESSIONALS



DIMENSIONS

RL 24

A	Height over cab	3.050 mm / 10.01 ft
B	Overall length	4.326 mm / 14.19 ft
C	Distance idler/sprocket center	3.215 mm / 10.55 ft
D	Height of grousers	56 mm / 0.18 ft
E	Track gauge	1.988 mm / 6.52 ft
F	Total width over undercarriage	2.751 mm / 9.03 ft
G	Width (counterweight to hook)	2.450 mm / 8.04 ft
H	Ground clearance	413 mm / 1.35 ft
I	Boom length	5.150 mm / 16.90 ft
	Optional boom length 7m boom	7.000 mm / 22.97 ft
J	Total height	5.907 mm / 19.38 ft
	Total height 7m boom	7.760 mm / 25.46 ft
K	Distance (chain to hook)	821 mm / 2.69 ft
L	Transport height (foldable boom)	3.552 mm / 11.65 ft
M	Width (transport without boom)	3.100 mm / 10.17 ft
N	Width (transport with boom)	3.214 mm / 10.54 ft

WEIGHTS

RL 24

Operating weight	21.860 kg / 48,193 lb
Ground pressure (with standard plates)	0,44 kg/cm2 / 6.26 PSI



BASE MACHINE

RL 44 - RL 54 - RL 64



ENGINE

	RL 44	RL 54	RL 64
Liebherr diesel engine	D 936 L A6	D 936 L A6	D 946 L A6
	Emission regulations according to 97/68/EC, 2004/26/EC Stage IIIA and EPA/CARB Tier 3		
Rating (ISO 9249)	175 kW/238 HP	175 kW/238 HP	275 kW/374 HP
Rating (SAE J1349)	175 kW/235 HP	175 kW/232 HP	275 kW/368 HP
Rated speed	1,800 1/min	1,800 1/min	1,800 1/min
Displacement	10.5 l / 641 in ³	10.5 l / 641 in ³	12 l / 733 in ³
Design	6 cylinder in-line-engine (wet-sleeve) water-cooled, turbocharged, intercooled		
Injection system	Direct fuel injection, pump-line-nozzle system, electronic control		
Lubrication	Force-feed lubrication, engine lubrication in an inclined position up to 45°		
Operating voltage	24 V	24 V	24 V
Alternator 80 A	80 A	80 A	80 A
Starter	7.8 kW / 11HP	7.8 kW / 11HP	7.8 kW / 11HP
Batteries	2 x 170 Ah/12 V	2 x 180 Ah/12 V	2 x 225 Ah/12 V
Air cleaner	Dry-type air cleaner with safety element, aspirated pre-cleaner, service gauge in cab		
Cooling system	Combi radiator, comprising a radiator for water and charge air, hydrostatic fan drive		



UNDERCARRIAGE

	RL 44	RL 54	RL 64
Design	Track frame, rigid		
Mount	Elastic components at a separate pivot		
Chains	Lubricated, single-bar grouser shoes, track chain tension via grease tensioner and hydraulic cylinders.		
Links, each side	43	45	45
Track rollers/carrier rollers	8/2 each side	9/2 each side	9/2 each side
Sprocket segments	5 each side	5 each side	5 each side
Track shoes	914 mm / 36"	914 mm / 36"	914 mm / 36"
	711 mm / 28"	914 mm / 36"	914 mm / 36"



HYDRAULIC SYSTEM

	RL 44	RL 54	RL 64
System	Load Sensing proportional pump flow control		
Pump type	Swash plate, variable displacement piston pump		
Pump flow max.	283 l/min / 62.3 gpm		
Pressure limitation	280 bar / 4,060 PSI		
Control valve	3 segments, expandable to 4		
Filter system	Return filter with magnetic rod in the hydraulic tank		
Control	Single joystick for hoist winch and adjustable boom cylinder, free fall device of hook in case of danger. Further single joystick for counterweight.		



TRAVEL DRIVE, CONTROL

	RL 44	RL 54	RL 64
Transmission system	Infinitely variable hydrostatic travel drive, independent drive for each frame		
Travel speed*	Continuously variable		
Speed range 1 (reverse)	0 - 4.0 km/h / 2.5 mph (4.8 km/h / 2.9 mph)		
Speed range 2 (reverse)	0 - 6.5 km/h / 4.0 mph (7.8 km/h / 4.8 mph)		
Speed range 3 (reverse)	0 - 10.5 km/h / 6.5 mph (10.5 km/h / 6.5 mph)		
	* Pre-adjusted, all speed ranges can be customized on the travel joystick (memory function)		
Drawbar pull	300 kN at 1.7 km/h / 1.1 mph	387 kN at 1.6 km/h / 1.0 mph	510 kN at 1.5 km/h / 0.9 mph
Electronic control	Electronic engine speed sensing control (load sensing feature) automatically adjusts travel speed and drawbar pull to match changing load conditions		
Steering	Hydrostatic		
Service brake	Wear-free, hydrostatic (dynamic braking)		
Automatic park brake	Wear-free, wet multiple-disc brakes, automatically applied with neutral joystick position		
Cooling system	Hydraulic oil Separate hydraulic oil cooler Cooler integrated in combi radiator Hydraulic oil cooler hydrostatically driven and thermostatically controlled		
Filter system	Micro cartridge filters in replenishing pressure circuit		
Final drive	Heavy-duty combination spur gear with planetary final drives, double sealed with electronic seal-integrity indicator		
Control	Single-lever for all travel and steering motions, as well as for counter rotation		



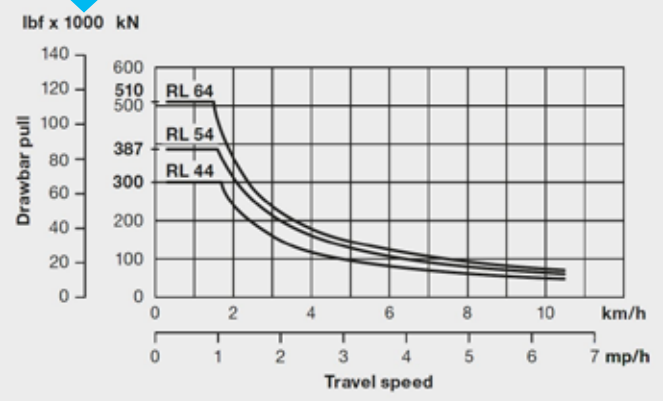
HYDRAULIC WINCH

	RL 44	RL 54	RL 64
Hoist winch	Variable flow hydraulic pump		
Safety brake	Spring-loaded disk brake holds the load safely in any position		
Drum diameter	254 mm/10"	254 mm/10"	254 mm/10"
Drum length	279 mm/10.98"	274 mm/10.78"	279 mm/10.98"
Flange diameter	610 mm/24"	610 mm/24"	610 mm/24"
Cable diameter	20 mm/0.8"	20 mm/0.8"	20 mm/0.8"
Cable length	65 m/71.08 yd	80 m/87.49 yd	100 m/109.36 yd
Hook block	2 sheaves	3 sheaves	4 sheaves
Hook speed (up,down)	0-30.2 m/min, 0-99 ft/min	0-20.0 m/min, 0-66 ft/min	0-16.0 m/min, 0-52 ft/min
Security	Free fall device		



DRAWBAR PULL

RL 44 - RL 54 - RL 64



Usable drawbar pull will depend on traction and weight of pipe layer.



OPERATOR'S CAB

	RL 44	RL 54	RL 64
Cab	Resiliently mounted cab with positive pressure ventilation, can be tilted with hand pump 40° to the rear. With ROPS Rollover Protective Structure (ISO 3471).		
Operator's seat	Comfort seat, adjustable to operator's weight		
Monitoring	Combined analogue / LC display, automatic monitoring, display of abnormal operating conditions		

BASE MACHINE

RL 44 - RL 54 - RL 64

MAATS®

PIPELINE PROFESSIONALS



NOISE EMISSION

RL 44 RL 54 RL 64

Operator sound exposure (ISO 6396:208)	$L_{pA} = 78 \text{ dB(A)}$ (emission at the operator's position)	$L_{pA} = 78 \text{ dB(A)}$ (emission at the operator's position)	$L_{pA} = 78 \text{ dB(A)}$ (emission at the operator's position)
Exterior sound pressure (2000/14/EC)	$L_{wA} = 108 \text{ dB(A)}$ (emission at the operator's position)	$L_{wA} = 108 \text{ dB(A)}$ (emission at the operator's position)	$L_{wA} = 108 \text{ dB(A)}$ (emission at the operator's position)



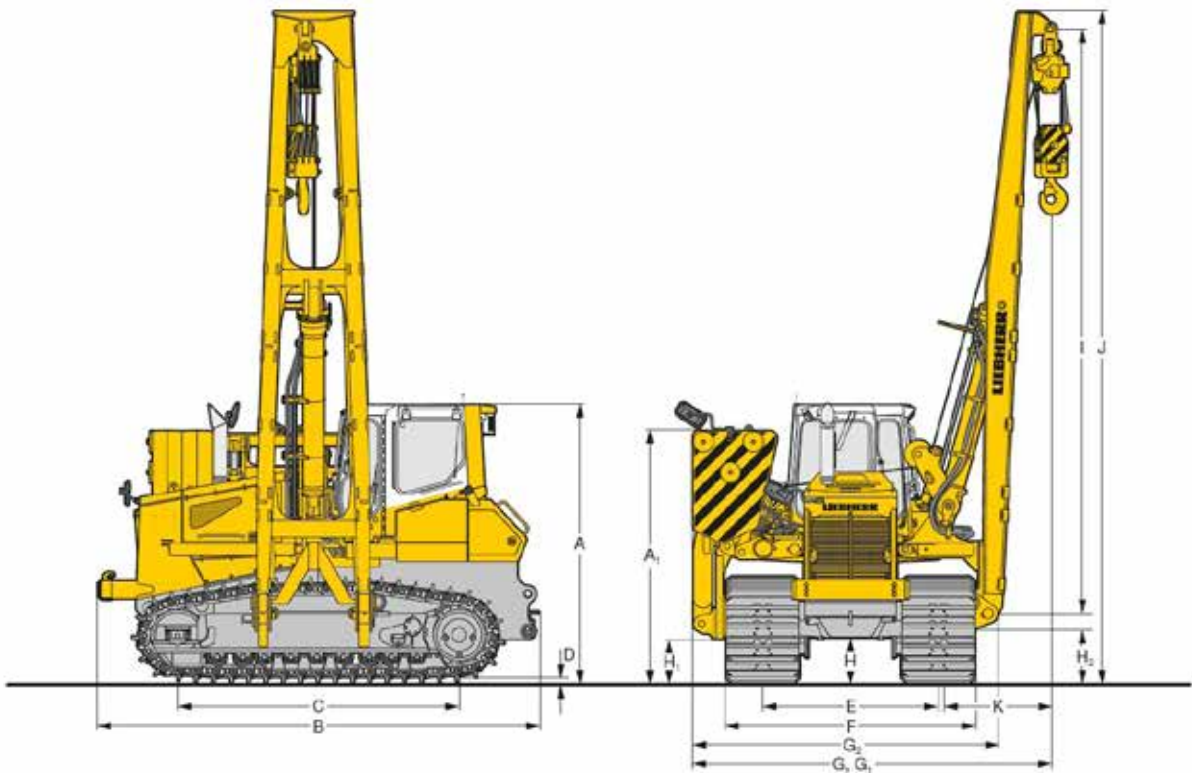
REFILL CAPACITIES

RL 44 RL 54 RL 64

Fuel tank	400 l/88 gall	535 l/117.7 gall	650 l/143 gall
Cooling system	55 l/12.1 gall	62 l/13.6 gall	74 l/16.3 gall
Engine oil with oil filters	43 l/9.5 gall	43 l/9.5 gall	43 l/9.5 gall
Splitter box	3.1 l/0.7 gall	6.5 l/1.4 gall	6.3 l/1.4 gall
Hydraulic tank	126 l/27.7 gall	169 l/37.2 gall	215 l/47.3 gall
Final drive, left	21 l/4.6 gall	19.5 l/4.3 gall	26 l/5.7 gall
Final drive, right	14 l/3.1 gall	19.5 l/4.3 gall	26 l/5.7 gall

DIMENSIONS AND WEIGHTS

RL 44 - RL 54 - RL 64



DIMENSIONS

RL 44

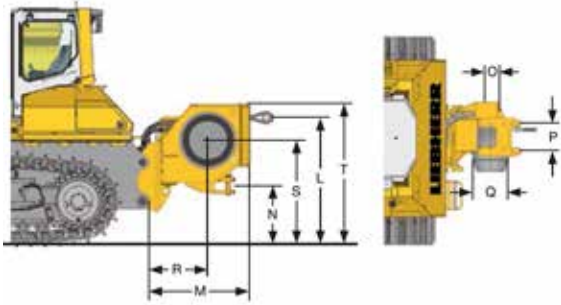
RL 54

RL 64

	Boom	RL 44		RL 54		RL 64		
		Standard 6,000 mm	Optional 7,320 mm	Standard 7,300 mm	Optional 8,500 mm	Standard 8,500 mm	Optional 10,500 mm	
A	Height over cab	mm/ft-in	3,226 / 10'7"		3,464 / 11'4"		3,555 / 11'8"	
A1	Height over counterweight	mm/ft-in	2,876 / 9'5"		3,068 / 10'1"		3,543 / 11'7"	
B	Overall length	mm/ft-in	5,146 / 16'11"		5,446 / 17'10"		5,795 / 19'0"	
C	Distance idler/sprocket center	mm/ft-in	3,315 / 10'11"		3,504 / 11'6"		3,610 / 11'10"	
D	Height of grouser	mm/in	71.5 / 2.81"		71 / 2.8"		84 / 3.31"	
E	Track gauge	mm/ft-in	2,075 / 6'10"		2,180 / 7'2"		2,420 / 7'11"	
F	Total width over undercarriage	mm/ft-in	2,887 / 9'6"		3,094 / 10'2"		3,334 / 10'11"	
G	Width (counterweight retracted)	mm/ft-in	4,104 / 13'6"		3,785 / 12'5"		5,651 / 18'6"	
G1	Width (counterweight extended)	mm/ft-in	5,745 / 18'10"		5,544 / 18'2"		7,291 / 23'11"	
G2	Width (console to boom)	mm/ft-in	3,565 / 11'8"		3,785 / 12'5"		4,245 / 14'0"	
H	Ground clearance	mm/ft-in	461 / 1'6"		501 / 1'8"		552 / 1'10"	
H1	Ground clearance of console	mm/ft-in	573 / 1'11"		548 / 1'10"		565 / 1'10"	
H2	Ground clearance of boom	mm/ft-in	674 / 2'3"		747 / 2'5"		682 / 2'3"	
I	Boom length	mm/ft-in	6,000 / 19'8"	7,320 / 24'	7,300 / 23'11"	8,500 / 27'11"	8,500 / 27'11"	10,500 / 34'5"
J	Total height	mm/ft-in	6,999 / 1'6"	7,319 / 24'	8,281 / 27'2"	9,481 / 31'1"	9,515 / 31'3"	11,515 / 37'9"
K	Distance (outer edge of chain link to hook)	mm/ft-in	1,178 / 3'10"		1,200 / 3'11"		1,380 / 4'6"	
	Operating weight	kg/lb	35,100/77,382	35,360/77,955	45,900/101,192	46,133/101,706	58,800/129,632	59,349/130,842
	Counterweight without frame	kg/lb	5,030 / 11,089		9,534 / 21,019		12,000 / 26,455	
	Counterweight	kg/lb	7,222 / 15,922		12,730 / 28,065		15,985 / 35,241	
	Weight of boom	kg/lb	1,701 / 3,750	1,961 / 4,323	2,264 / 4,991	2,497 / 5,505	3,305 / 7,286	3,854 / 8,497

DIMENSIONS AND WEIGHTS

RL 44 - RL 54 - RL 64



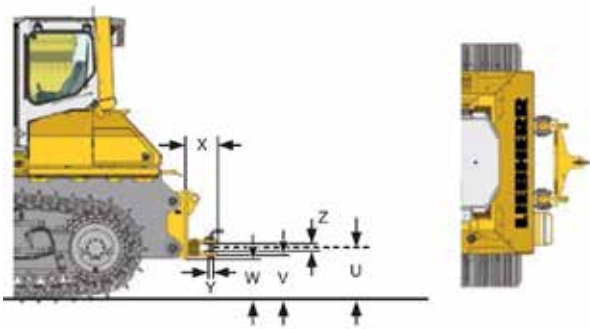
REAR WINCH

RL 44

RL 54

RL 64

			RL 44	RL 54	RL 64
L	Height, cable exit	mm/ft-in	1,571 / 5'2"	1,565 / 5'2"	1,608 / 5'3"
M	Overall length	mm/ft-in	1,203 / 3'11"	1,200 / 3'11"	1,180 / 3'10"
N	Height drawbar	mm/ft-in	763 / 2'6"	757 / 2'6"	800 / 2'7"
O	Drum diameter	mm/ft-in	318 / 1'1"	318 / 1'1"	318 / 1'1"
P	Coiling width	mm/ft-in	337 / 1'1"	337 / 1'1"	337 / 1'1"
Q	Flange diameter	mm/ft-in	610 / 2'0"	610 / 2'0"	610 / 2'0"
R	Distance to center of drum	mm/ft-in	696 / 2'3"	639 / 2'1"	673 / 2'2"
S	Height of drum center	mm/ft-in	1,314 / 4'4"	1,308 / 4'3"	1,351 / 4'5"
T	Total height	mm/ft-in	1,763 / 5'9"	1,757 / 5'9"	1,800 / 5'11"
	Max. line pull	kN/lb	667 / 129,669		
	Max. line speed	m/min / yd/min	0 - 30 / 32.81		
	Cable diameter	mm/ft-in	28 / 1.1"		
	Cable length	mm/in	60 / 65.62		
	Weight	kg/lb	2,565 / 5,655	2,600 / 5,732	2,650 / 5,842



DRAWBAR, RIGID

RL 44

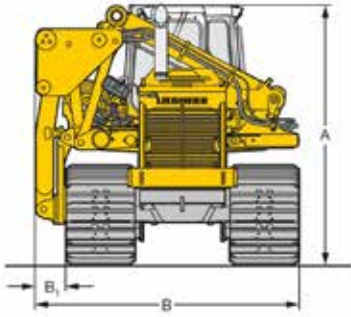
RL 54

RL 64

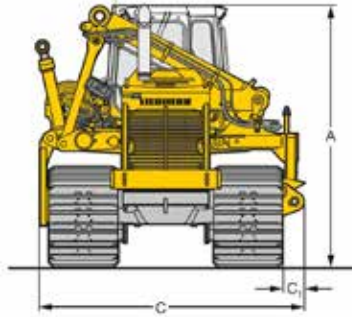
			RL 44	RL 54	RL 64
U	Height of drawbar	mm/ft-in	542 / 1'9"	576 / 1'11"	620 / 2'0"
V	Ground clearance below drawbar	mm/ft-in	454 / 1'6"	474 / 1'7"	517 / 1'8"
W	Ground clearance below drawbar suspension	mm/ft-in	429 / 1'5"	424 / 1'5"	467 / 1'6"
X	Overall length	mm/ft-in	413 / 1'4"	435 / 1'5"	455 / 1'6"
Y	Pin diameter	mm/in	50 / 1.97"	60 / 2.36"	60 / 2.36"
Z	Size of opening	mm/in	95 / 3.74"	105 / 4.13"	105 / 4.13"
	Weight	kg/lb	212 / 467	460 / 1'6"	577 / 1,272

TRANSPORT DIMENSIONS AND WEIGHTS

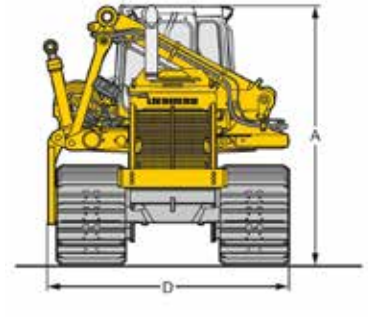
RL 44 - RL 54 - RL 64



Pos. 1



Pos. 2



Pos. 3



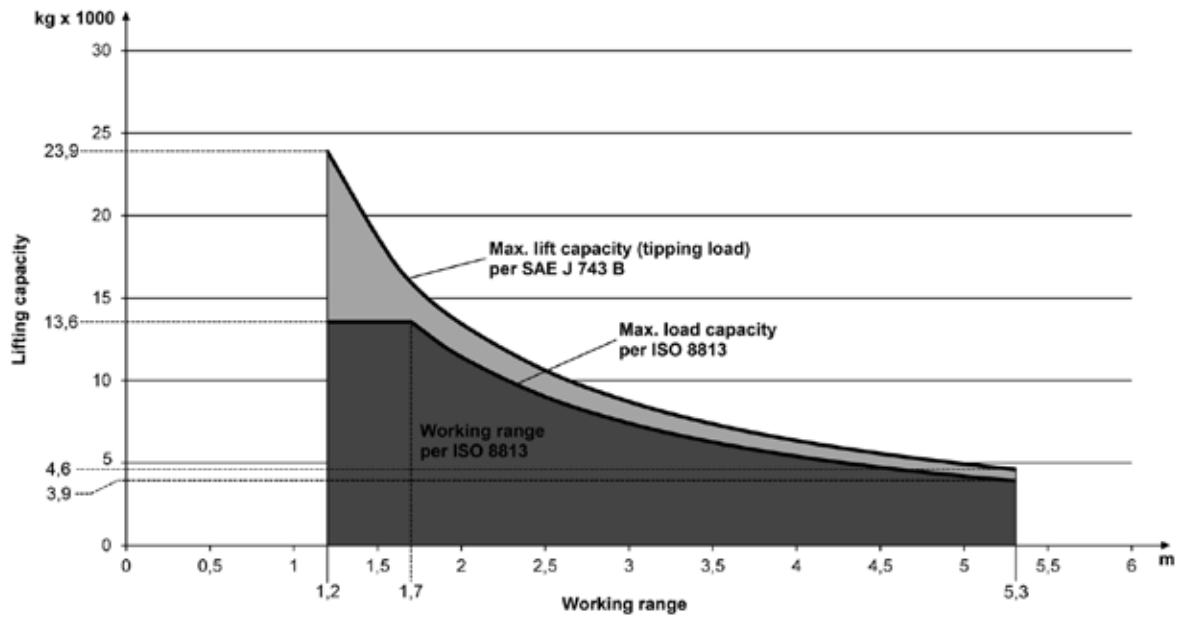
TRANSPORT DIMENSIONS, DISPLAYED POSITION

		RL 44	RL 54	RL 64	
A	Total height	mm/ft-in	3,467/11'4"	3,464 / 11'4"	3,639/11'11"
B	Overall width	mm/ft-in	3,283/10'9"	3,500 / 11'6"	3,935/12'11"
B ₁	Width (from console to left track)	mm/ft-in	395 / 1'4"	406 / 1,4"	481 / 1'7"
	Weight (Pos. 1)	kg/lb	27,898/61,504	33,656 / 74,199	42,590/93,895
C	Overall width	mm/ft-in	3,189/10'6"	3,497 / 11'6"	3,824/12'7"
C ₁	Width (from console to right track)	mm/in	192 / 7.56"	285 / 11.22"	327 / 12.87"
	Weight (Pos. 2)	kg/lb	26,555/58,544	31,690 / 69,864	40,102//88,410
D	Overall width	mm/ft-in	2,997/9'10"	3,212 / 10'6"	3,497 / 11'6"
	Weight (Pos. 3)	kg/lb	26,084/57,505	31,023 / 68,394	39,219 / 86,463

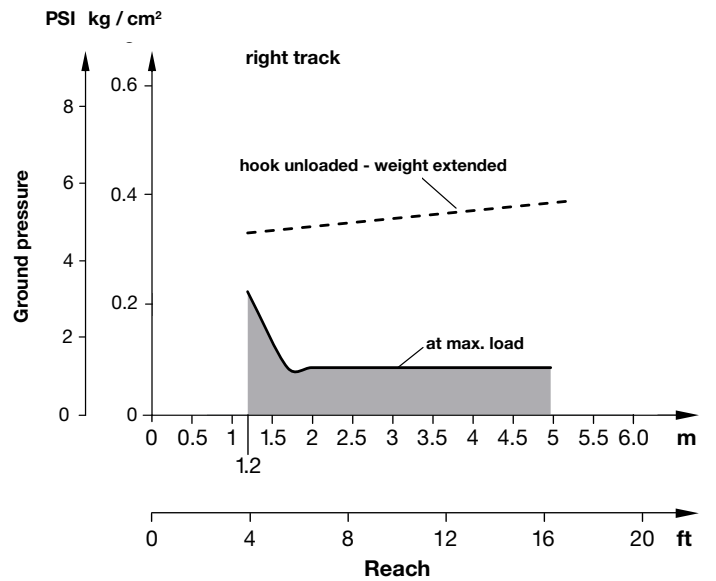
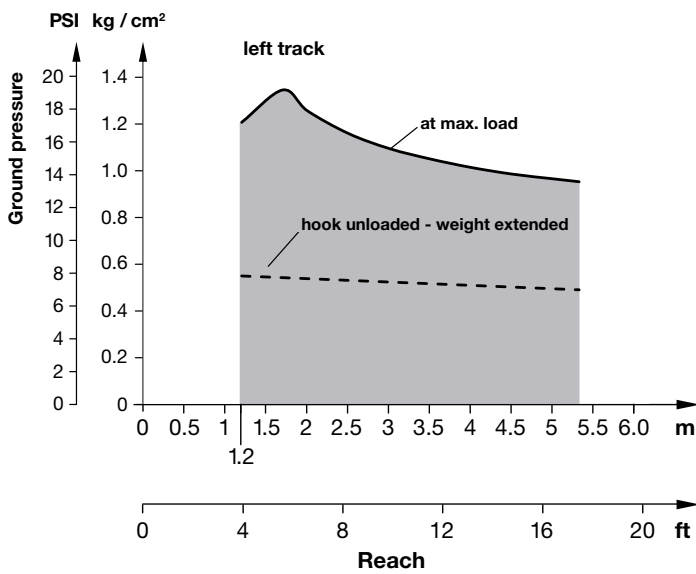


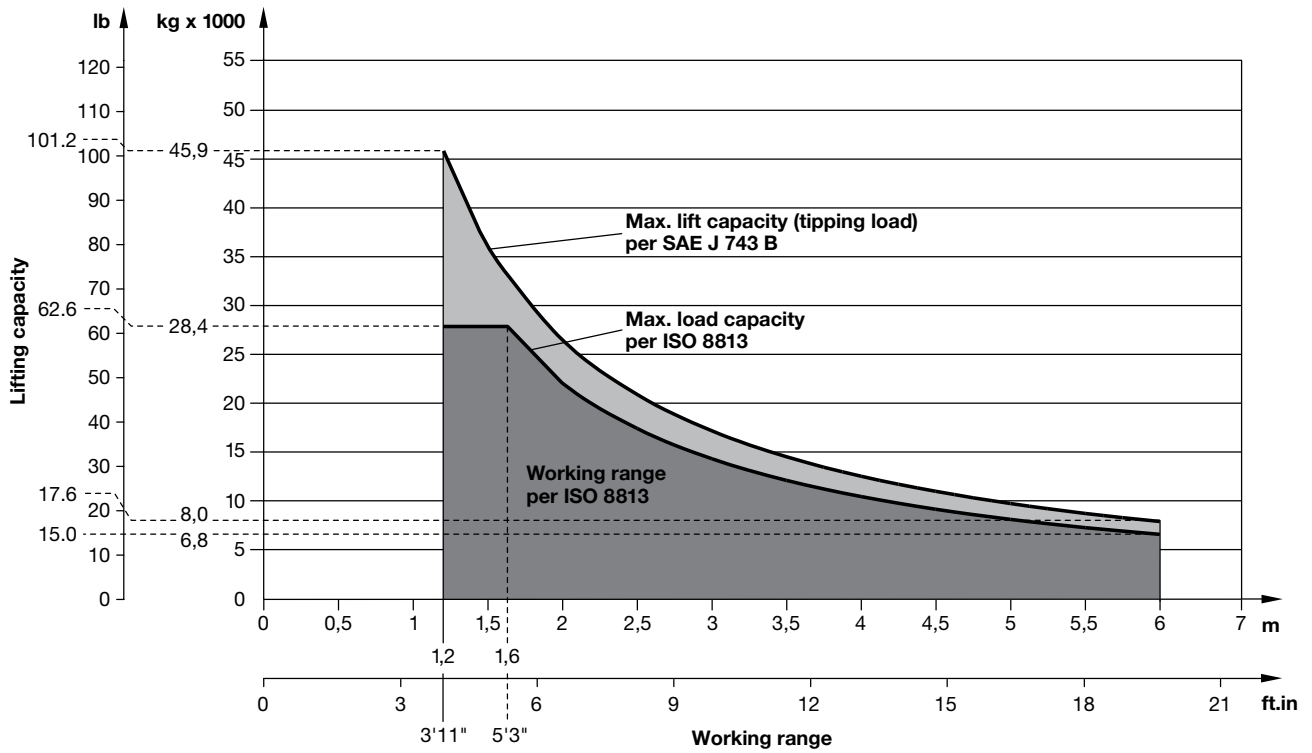
LIFTING CAPACITY RL 24 (ISO 8813)

Foldable boom

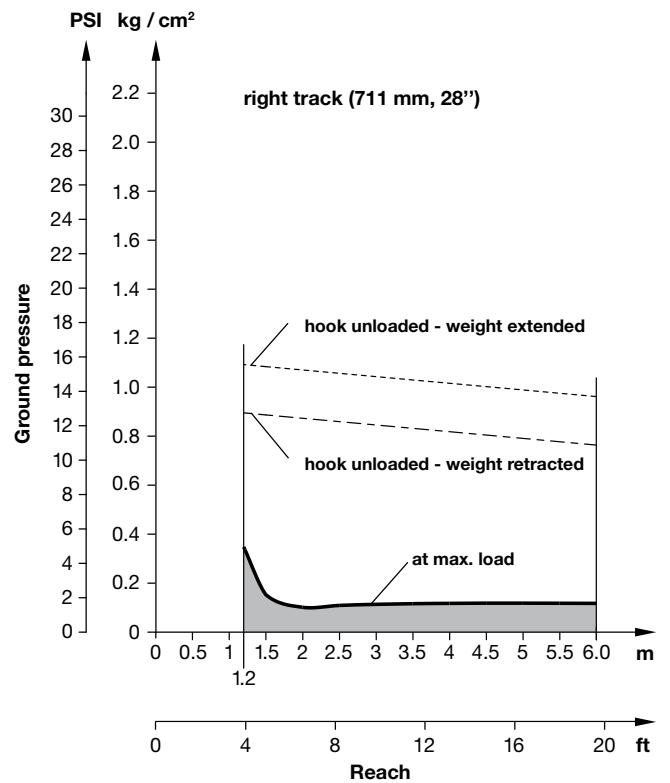
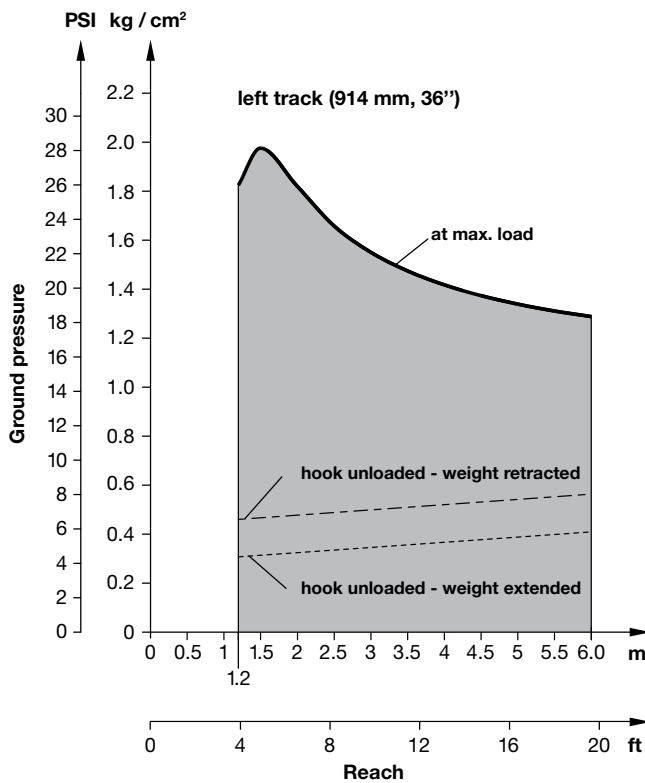


GROUND PRESSURE RL 24 (ISO 8813)



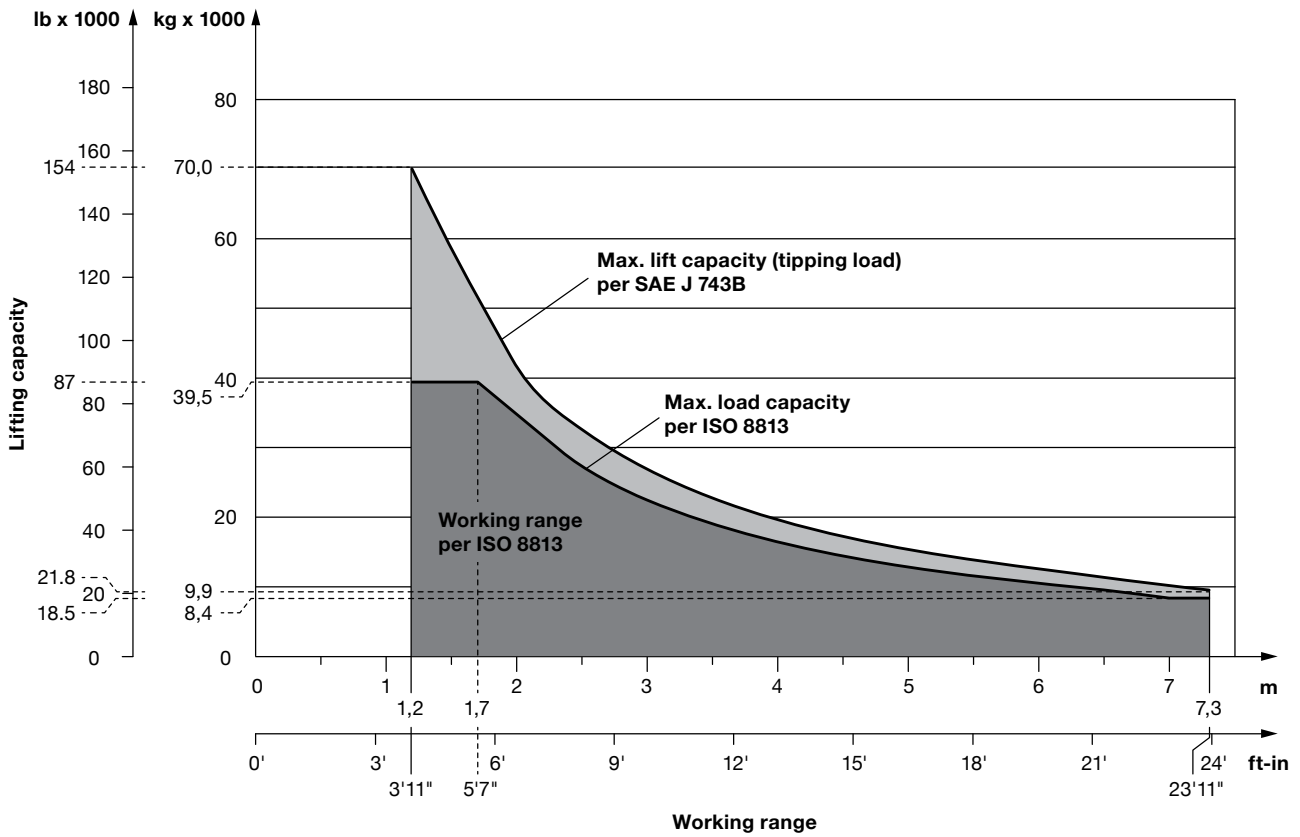


GROUND PRESSURE RL 44 (ISO 8813)

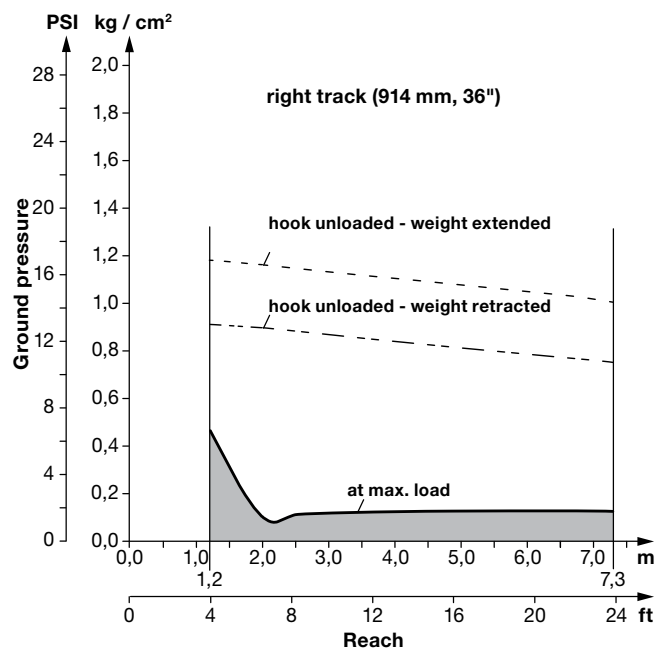
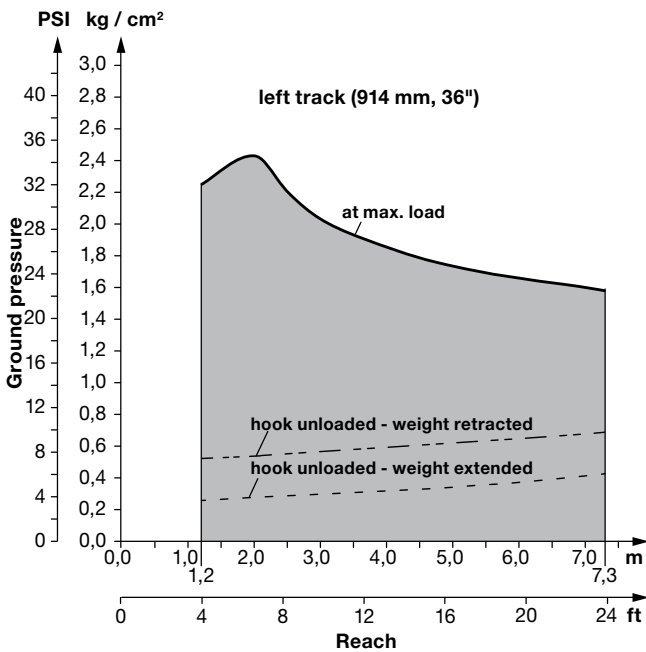


With standard boom 6,000 mm / 19'8"

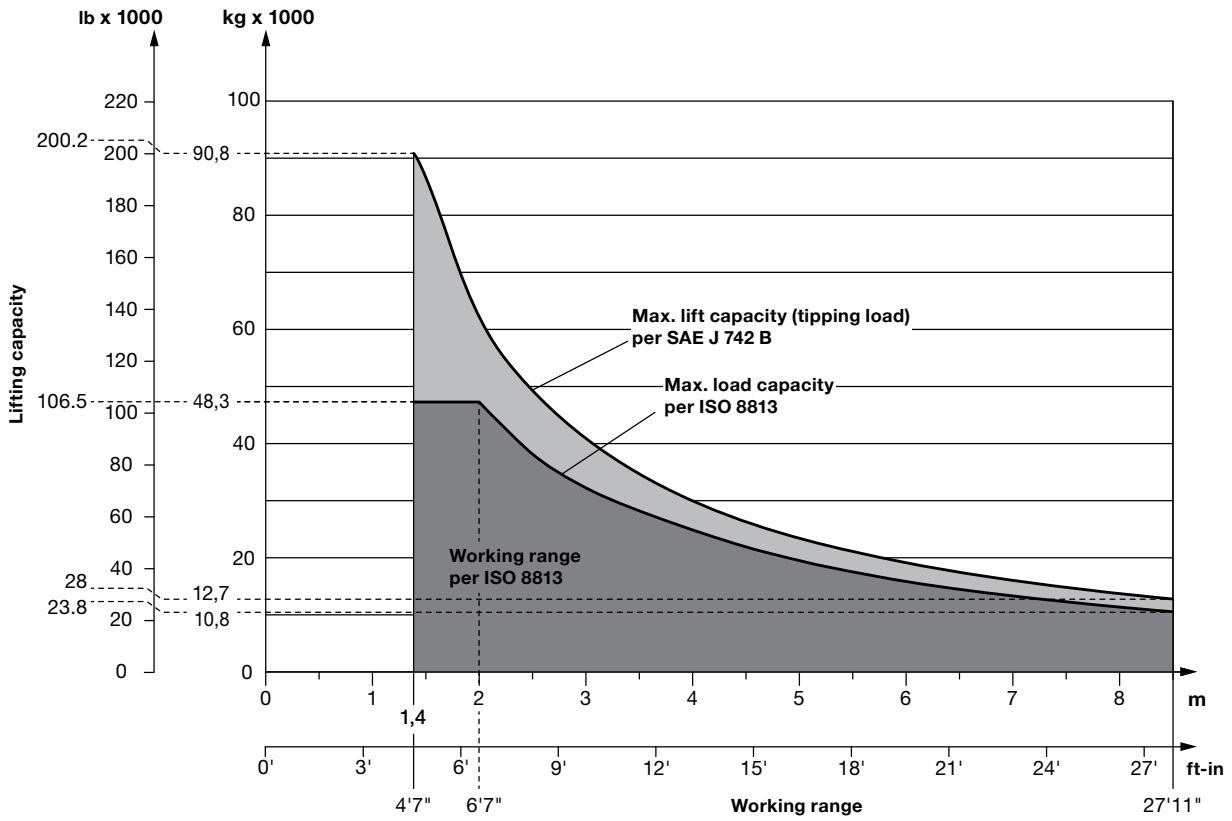
LIFTING CAPACITY RL 54 (ISO 8813)



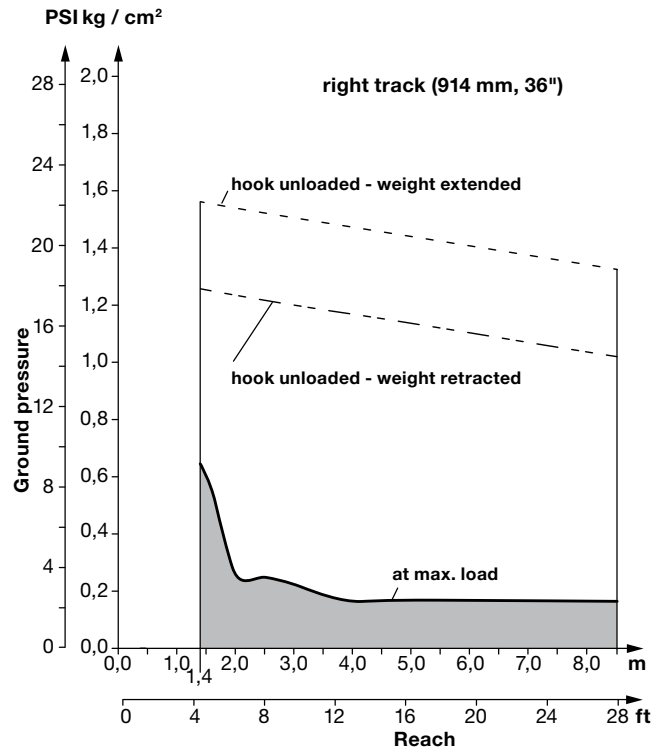
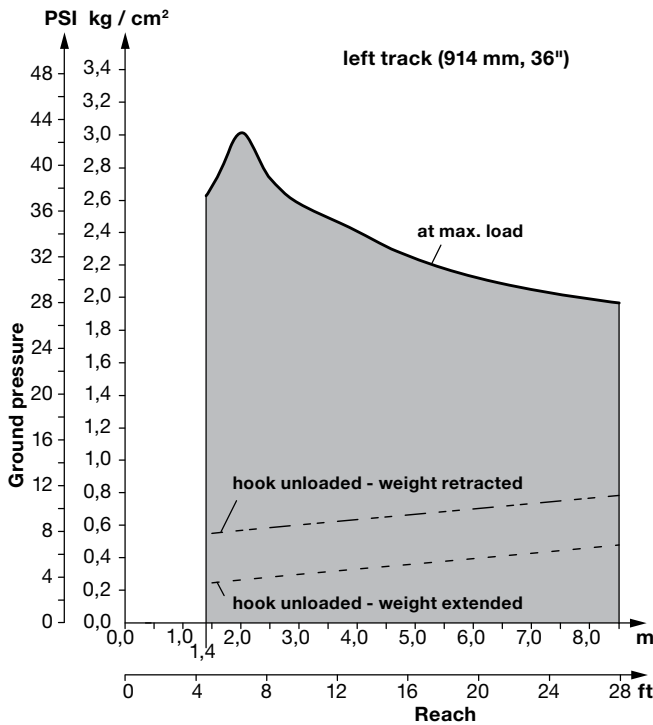
GROUND PRESSURE RL 54 (ISO 8813)



With standard boom 7,300 mm / 23'11"



GROUND PRESSURE RL 64 (ISO 8813)



With standard boom 8,500 mm / 27'11"

EQUIPMENT

RL 24



BASE MACHINE

Towing hitch rear, 145 mm	•
Tow switch	•
Towing lug front	•
Battery compartment, lockable	•
Ether start aid	•
Fan guard	•
Engine doors, hinged, lockable	•
Lugs for crane lifting	•
Fuel / water separator	•
Air-filter, dry-type, dual stage	•
Toolkit	•
Engine air pre-cleaner	+
GOST/EAC features and certification	+
Arctic kit, for -40°C	+



UNDERCARRIAGE

Track frame, closed	•
Sprocket segments, bolted	•
Master link, two piece	•
Tracks oil lubricated	•
Full length track guard	•
LGP track plates (762 mm.)	•
Track plates 610 mm / 24"	+
Track plates 710 mm / 28"	+
Pivot shafts, separate	•
Rubber track pads	+



CONTROL AND WARNING LIGHTS

Display travel speed range (digital)	•
Display engine coolant temperature (analogue)	•
Display charging voltage (digital)	•
Display engine oil pressure (analogue)	•
Display servo-pressure implement hydraulics (digital)	•
Display fuel level (analogue)	•
Hour meter (digital)	•
Indicator light battery charging	•
Indicator light parking brake	•
Indicator light decelerator mode	•
Indicator light joystick neutral position	•
Indicator light transmission oil temperature	•
Indicator light implement hydraulics oil temperature	•
Indicator light fuel / water separator	•
Indicator light transmission oil filter	•
Indicator light implement hydraulics oil filter	•
Indicator light air filter restriction	•
Indicator light seat belt	•



TRAVEL DRIVE

Parking brake, automatic	•
Function monitoring, automatic	•
Control, single joystick	•
Load limit control, electronic	•
Electronic transmission control	•
Triple-reduction final drives	•
Multiple speed settings	•
Hydrostatic travel drive	•
Inching brake pedal	•
Oil cooler	•
Safety lever	•



ELECTRICAL SYSTEM

Starter motor 7,5 kW	•
Working lights, front	+
Working lights, rear	•
Batteries, heavy duty, cold start, 2 units	•
Battery main switch, mechanical	•
On-board system 24V	•
Alternator 80A	•
Back-up alarm	•
Beacon	+
Horn	•
Additional lights	+



ATTACHMENTS

Boom 5.160 mm foldable	•
Boom 5.100 mm fixed	+
Boom 7.000 mm fixed	+
Boom extension (JIB), 2.700 mm, 1.000 kg capacity	+
Boom protection strips for 5.100 mm boom	+
Boom protection strips for 7.000 mm boom	+
Counterweight	•
Hook with rope	•
Enclosed operator's cab	•
Open operator's canopy	+
Drawbar rear, rigid, 530 mm	+
Rear winch, line pull 115,3kN / 11.757 kg	+
Hydraulic PTO for powering external equipment (pipe facing machine etc.)	+
Rear platform with generator and two welding machines	+
Front platform with HIAB crane XS099	+



OPERATOR'S CAB

Storage tray	•
Armrests 3D adjustable	•
Pressurized cab with air filter	•
Operator's seat, 6-way adjustable	•
Operator's seat, air suspended, tiltable	•
Dome light	•
Air conditioning	•
Knee cushion pads	•
Lumbar support, adjustable	•
AM/FM radio	•
ROPS	•
Rear view mirror, inside cab	•
Safety glass, tinted	•
Windshield washer system	•
Windshield wipers, front, rear and doors with intermittent function	•
Sliding window, left	•
Sliding window, right	•
Socket, 12V	•
Back rest extension	•
Warm water heating	•
Fire extinguisher	+



• = standard
+ = option

Options and/or special attachments, supplied by vendors other than Maats, are only to be installed with the knowledge and approval of Maats to retain warranty.

EQUIPMENT

RL 44 - RL 54 - RL 64

MAATS®

PIPELINE PROFESSIONALS



BASE MACHINE

Tow switch	•
Towing hitch rear	•
Towing lug front	•
Battery compartment, lockable	•
Belly pans, heavy-duty	•
Radiator, wide-meshed	•
Radiator guard, heavy-duty	•
Radiator guard, hinged	•
Liebherr diesel engine	•
Fan, hydraulically driven	•
Fan guard	•
Engine cover, perforated	•
Engine doors, perforated	•
Engine doors, hinged, lockable	•
Fuel water separator	•
Air filter dry-type, dual step	•
Pre-cleaner with automatic dust ejector	•
Toolkit	•
Arctic kit, for -40° C	+
Refueling pump, electric	+
GOST/EAC features and certification	+
LiDAT Plus, date transmission system	+
Lugs for crane lifting	+
Special paint	+
Fuel water separator with electric heater	+



UNDERCARRIAGE

Track frame, closed	•
Sprocket segments, bolted	•
Master link, two-piece	•
Tracks oil lubricated	•
Track frame, rigid	•
Pivot shaft, separate	•
Track guide center part	+
Track guard	+



CONTROL AND WARNING LIGHTS

Control travel speed range (digital)	•
Control engine coolant temperature (analogue)	•
Fuel gauge (analogue)	•
Hour meter (analogue)	•
Warning lights battery charging	•
Warning lights diesel engine	•
Warning lights electronic travel control system	•
Warning lights travel drive seal, each side	•
Warning lights travel brake	•
Warning lights pump replenishing pressure	•
Warning lights oil return filter	•
Warning lights air filter	•
Warning lights heater diesel engine	•
Main warning light	•
Warning hydraulic oil temperature	+
Overload warning system	+



ELECTRICAL SYSTEM

Starter motor	•
Working lights, front, 2 units	•
Working lights, rear, 2 units	•
Working lights, side 2 units	•
Working lights, winch, 2 units	•
Batteries, cold start, 2 units	•
Battery main switch, mechanical	•
On-board system 24 V	•
Alternator 80 A	•
Back-up alarm	•
Horn	•
Beacon	+
Start Lock, Electronic	+
Additional lights, rear	+



HYDRAULIC SYSTEM

Hydraulic control counterweight	•
Hydraulic control winch and boom	•
Variable flow pump, load sensing	•
Oil filter with strainer in hydraulic tank	•
Free fall device	•
Hydraulic servo control	•
Control valve for 1 circuit	+
Hydraulic tank oil level control	+



TRAVEL DRIVE

Parking brake, automatic	•
Function control, automatic	•
Control, single joystick	•
Load limit control, electronic	•
Electronic control	•
Travel control 3-speed ranges	•
Hydrostatic travel drive	•
Oil cooler	•
Final drive with planetary gear	•
Safety lever	•
Emergency stop	•
Inching brake pedal	+



OPERATOR'S CAB

Storage compartment front	•
Armrest 3D adjustable	•
Pressurized cab	•
Operator's seat, 6-way adjustable	•
Dome light	•
Coat hook	•
ROPS	•
Rear mirror, inside	•
Safety glass, tinted	•
Windshield wiper left door and left window	•
Windshield wipers front, rear	•
Dormer window	•
Sun visor front	•
Socket 12 V	•
Warm water heating	•
Operator's seat, air-suspended	+
Fire extinguisher in cabin	+
Air conditioning	+
FM radio	+
Radio installation kit	+
Windshield wiper dormer window	+
Extension, seat back	+



ATTACHMENTS

Boom RL 44 6,000 mm/19'8 "	•
Boom RL 54 7,300 mm/23'11 "	•
Boom RL 64 8,500 mm/27'11 "	•
Counterweight	•
Hook with rope	•
Boom RL 44 7,320 mm/24'	+
Boom RL 54 8,500 mm/27'11 "	+
Boom RL 64 10,500 mm/34'5 "	+
Boom protection strips	+
Drawbar rear, rigid	+
Counterweight, rear	+
Winch rear	+



• = standard
+ = option

Options and/or special attachments, supplied by vendors other than Liebherr, are only to be installed with the knowledge and approval of Liebherr to retain warranty.



MAATS PIPELINE PROFESSIONALS

Maats manufactures, sells and rents out high quality equipment for the construction of pipelines with all common diameters from 6 up to 60 inches. With branch offices in Indonesia (PT. Maats), partnerships in Algeria (Maats Afrique) and Turkey (Maats Insaat) and a close cooperation with the global network of Liebherr companies, Maats' presence is truly global.

THE NETHERLANDS HEAD OFFICE

Breukersweg 4
7471 ST Goor
the Netherlands
P.O.Box 165
7470 AD Goor
the Netherlands
T: +31 (0)547 260 000
F: +31 (0)547 261 000
E: info@maats.com

INDONESIA SUBSIDIARY OFFICE

Talavera Office Suite
18th floor
JL. T.B. Simatupang
Kav. 22-26
12430 Jakarta
Indonesia
T: +62 (0)212 971 5936
E: info@maats.com

INDONESIA SUBSIDIARY WORKSHOP

Kawasan Industri Sekupang
Makmur
Abadi E4 No. 1
JL. R.E. Martadinata
Tanjung Pinggir, Sekupang
29428 Batam
Indonesia
T: +62 (0)778 326 526
F: +62 (0)778 326 576
E: info@maats.com

**STRENGTH,
PERFORMANCE
& RELIABILITY
UNDER ALL
CIRCUMSTANCES.
READY FOR
FUTURE CHALLENGES**

MAATS[®].COM