# **Welding Tractor**

### **SR 714 LGP**

Engine output: 90 kW / 122 HP
Operating weight: 17,900 – 20,230 kg
39,463 – 44,600 lb



# Courtesy of Machine. Market

### **Basic machine**



### **Engine**

John Deere PowerTech 6068H, Emission Diesel engine regulations according to 2004/26/EG stage IIIA and EPA/CARB Tier 3 Rating (ISO 9249) 90 kW / 122 HP Rating (SAE J1995) 92 kW / 125 HP Rated speed 2,100 rpm Displacement 6.8 I / 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 Pressurised lube system, engine lubrication **Engine Iubrication** guaranteed for inclinations up to 45 degrees Operating voltage 24 V 80 A Alternator Starter 7.5 kW



**Batteries** 

Air cleaner

Cooling system

### Travel drive, control

2 x 117 Ah / 12V

Dual stage dry type with safety element, pre-

Combi radiator, comprising radiators for water,

Single joystick for all travel and steering func-

Operator can individually adjust travel drive

response, decelerator pedal response, etc.

speed with or without reduction of engine

Decelerator pedal allows reduction of ground

parameters via the monitor, e.g. joystick

cleaner, service gauge in the cab

hydraulic fluid, and charge air

Infinitely variable hydrostatic travel drive, inde-Transmission system pendent drive for each track - Infinitely variable from 0 to 8.9 km/h / 5.5 mph Travel speed - Setting of travel speed ranges on the travel iovstick - 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 and automatic adjustment of travel speed and drawbar pull to match changing load conditions Hydrostatic Steering 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

tions; decelerator pedal



Control

Adjustments

Decelerator pedal

#### Refill canacities

rpm's

Fuel tank 227 I Cooling system 23 I		-apadiiios
Cooling system 23 I	Fuel tank	227
	Cooling system	23
Engine oil with filters 27.5 I	Engine oil with filters	27.5
Transmission oil tank 65 I	Transmission oil tank	65 I
Hydraulic oil tank 70 l	Hydraulic oil tank	70
Final drives, each 13 l	Final drives, each	13



### Operator's cab / canopy

Resiliently mounted cab with positive pressure Cab ventilation. Integrated ROPS Rollover Protective Structure (ISO 3471) and FOPS Falling Objects Protective Structure (ISO 3449) Resiliently mounted canopy. Integrated ROPS Canopy Rollover Protective Structure (ISO 3471) Fully adjustable air-suspended comfort seat; Operator's seat (cab) automatically adjusts to operator's weight Fully adjustable mechanical suspension Operator's seat (canopy) comfort seat Combined analogue / LC display. Automatic Monitoring monitoring, display, and warning of deviating operating parameters



#### **Undercarriage** LGP

Mount Via separate pivot shafts and a fixed equaliser Chains Lubricated, single grouser shoes; track chain tensioning via steel spring and grease tensioner Track links 42 Track rollers / carrier rollers 7/1 Sprocket segments 5 Track shoes standard 762 mm Track shoes option 610 mm or 711 mm

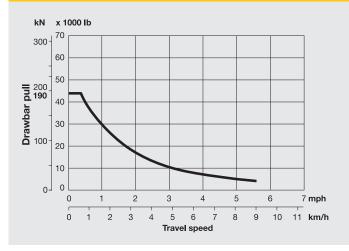


### **Implement hydraulics**

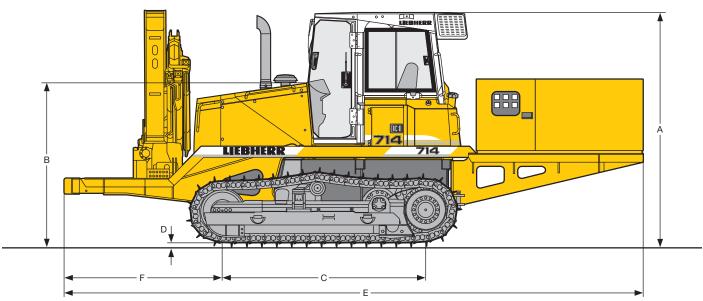
	Crane	Compressor	Generator
Hydraulic system	"Open center"	"Open center"	"closed center"
Pump type	gear pump	gear pump	piston pump
Pump flow max.	95 l/min	55 I/min	360 l/min
Pressure limitation	315 bar	230 bar	280 Bar
Control valve	4 segments	1 segment	N.A.
Filter system	return oil filter 10µ	return oil filter 10µ	pressure filter 10µ



### Drawbar pull SR 714



# **Dimensions and Equipment**



Dimensions		SR 714 LGP
A Height over cab / canopy	mm	3,050 / 3,050
B Hight over engine hood	mm	2,088
C Length of track on ground	mm	2,600
D Grouser height	mm	56
E Overall length	mm	7,450
F Length of platform from idler centre	mm	2,100
Ground clearance	mm	437
Track gauge	mm	1,981
Width over tracks / overall width	mm	
610 mm track shoes		2,692
711 mm track shoes		2,692
762 mm track shoes		2,743
Operating weight	kg	17,900 <sup>1</sup> – 20,230 <sup>2</sup>
	lb	39,463 <sup>1</sup> – 44,600 <sup>2</sup>
Ground pressure k	g/cm <sup>2</sup>	0.45 1 – 0.51 2
	PSI	6.40 1 – 7.25 2

<sup>&</sup>lt;sup>1</sup> Minimum configuration including platforms, crane, generator, equipment housing, 762 mm track shoes.

<sup>&</sup>lt;sup>2</sup> Standard configuration including platforms, crane, generator, air compressor, 2 x air receiver, 4 x welding sources, cable harness, equipment housing, 762 mm track shoes.

Generator	(standard)
Design	Hydraulically powered electric generator (IP45 in protection skid
Model	Stamford UCI 274E
Rating	125 kVA
Voltage	230/400 V – 50 Hz
Switch box	Integrated switch box with Ampere, Hertz, and Volt gauges and service hour indicator; insulation monitoring device
Plug sockets	4 x shuko 230 V 6 x CEE 400 V
Controls	On/off switch inside the cabin. Generator frequency electronically regulated

Compressor	(standard)
Design	hydraulically powered heavy duty air
	compressor, skid mounted
Model	Quincy QR-25 basic two-stage compressor
	model 370 LVD
Rating	1,300 l/min at 15 bar
Air receiver	300 l; max. 15 bar
Controls	On/off switch in cabin

Crane (star	ndard)		
Design	crane with 400° slew	hydraulically powered ring angle. Complete with s and hook for lifting of	
Model	HIAB 099XLS (9 tm,	2 extensions, 7.8 meter)	
Capacity	87 kNm (8.9 tm)		
Max. reach	7,8 m	7,8 m	
Controls	Single joystick for all	crane movements	
Load parameters	Crane reach	Load capacity	
	2.2 m	3,700 kg	
	3.8 m	2,180 kg	
	5.4 m	1,520 kg	
	7.3 m	1.120 kg	

Welding equ	vipment (standard)
Design	4x electrically powered welding sources; mounted in anti-vibration frame
Model	4x Lincoln DC400 (K130920)
Controls	Remote control on welding spot; service lead exceeds max. reach of crane by 2 meters

Other configurations regarding Compressor and Welding Equipment are possible. For further information please send your project requirements to:

info@maats.com

## **Equipment**



### **Basic machine**

Air filter, dry-type, dual stage	•
Battery compartment, lockable	•
Engine doors, hinged, lockable	•
Ether start aid	•
Fan guard	•
Fuel water separator	•
Lugs for crane lifting	•
Rear view mirrors, platform mounted	•
Toolkit	•
Tow switch	•
Towing hitch rear	•
Towing lug front	•
Engine air pre-cleaner	+



### **Travel drive**

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



### **Undercarriage**

Undercarriage	
LGP undercarriage	•
Master link, two-piece	•
Pivot shafts, separate	•
Sprocket segments, bolted	•
Track frame, closed	•
Tracks oil lubricated	•
Full length track guard	+
Rubber inlay pads for crossing streets	+



### **Electrical system**

•	
Alternator 80 A	•
Back-up alarm	•
Batteries, heavy duty cold start, 2 units	•
Battery main switch, mechanical	•
Horn	•
On-board system 24 V	•
Starter motor 7.5 kW	•
Working lights, front	•
Working light, rear	•
Beacon	+



### **Operator's cab**

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



### **Canopy (Standard)**

Armrests 3D adjustable	
Operator's seat, mechanical suspended,	
tiltable	
Operator's seat, 6-way adjustable	
ROPS	
Additional lights, roof mounted front/rear	
Warm water heating	



# Control and warning lights

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



### Attachments

HIAB Crane 099XLS	
(87 kNm, 2 extensions, 7.8 meter)	•
Lockable toolbox on left fender	•
125 KvA Generator	•
Cold kit – 40°C	+
Enclosure for compressor, generator,	
and welding equipment	+
Fixation on left fender to hold additional	
cables needed for automatic welding	+
4x Lincoln DC400 welding sources	
including cable and remote control	+
Gas cylinder rack (for 6 cylinders)	+
GOST certificate	+
HIAB Crane XS111B3 DUO-special	
(93 kNm; 3 extensions; 10,1 meter)	+
HIAB Crane XS111B2 DUO-special	
(97 kNm; 2 extension; 8.0 meter)	+
Quincy 370 compressor	
(1,300 l/min at 15 bar)	+
Quincy 390 compressor	
(1,800 l/min at 15 bar)	+

• = Standard, + = Option

Subject to change.

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.

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