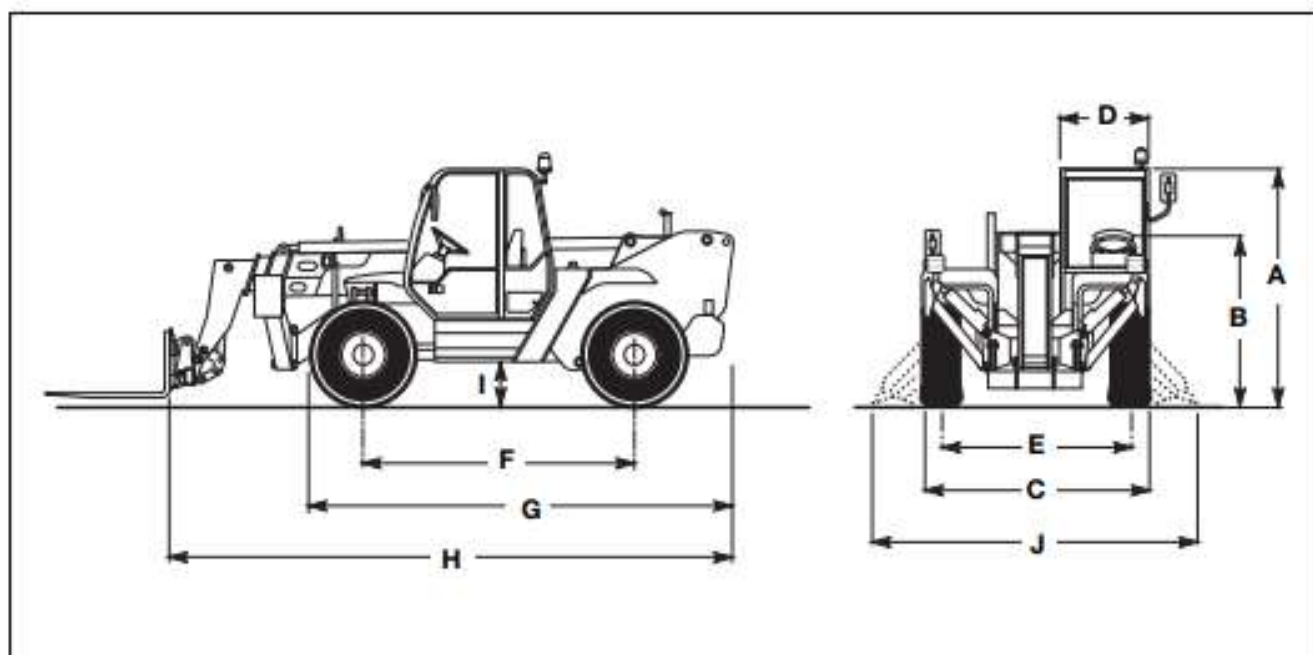




GENERAL INFORMATION

A-5 TECHNICAL DATA AND PERFORMANCE



A-5.1 MAIN DIMENSIONS

GTH-3713

A	Overall height	mm	2560
B	Height to the steering wheel	mm	1920
C	Overall width	mm	2330
D	Cab width	mm	910
E	Track	mm	1920
F	Wheel-base	mm	2850
G	Length to the front tyres	mm	3910
H	Length to the attachment holding plate	mm	5610
I	Ground clearance	mm	460
J	Max width with extended outriggers	mm	2930
•	Internal steering radius	mm	1300
•	External steering radius	mm	3990

A-5.2 LIMITS OF USE

•	Angle of approach	90°
•	Departure angle	45°
•	Ambient temperature	°C -20°/+40°

A-5.3 WEIGHT

•	Weight in working order	kg	9900
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GENERAL INFORMATION

■ **A-5.4 SPEED**

- Working speed (*)	km/h	0+8
- Travel speed (*)	km/h	0+30
- Max. slope with full load	%	54

(*) = either forward or reverse motion.

■ **A-5.5 PAYLOAD AND REACH**

- Max lifting height:		
with outriggers	mm	12640
without outriggers	mm	12470
- Reach at max height (without outriggers)	mm	1290
- Max reach forward	mm	8740
- Attachment holding plate rotation		145°
- Maximum payload (with outriggers)	kg	3700
- Payload at max height (with outriggers)	kg	3000
- Payload at max reach (with outriggers)	kg	1000

Overturning factor according to FEM 4.001 F stability regulations

■ **A-5.6 FORKS**

		Floating type	Fixed type
- Dimensions	mm	1200x130x50	1200x130x50
- Weight	kg	70	70
- Fork holding frame - class		FEM III	FEM III

■ **A-5.7 DIESEL ENGINE**

		Aspirated version	Turbo version
- Make		PERKINS	PERKINS
- Model/Type		1104C-44	1104C-44T
- Features:		Diesel	Diesel
		4 cylinders in line	4 cylinders in line
		4 strokes	4 strokes
		direct injection	direct injection
- Bore x Stroke	mm	103 x 127	105 x 127
- Total displacement	cc	4232	4400
- Power at 2300 rpm	kW	63,5	74,4

■ **A-5.8 ELECTRICAL SYSTEM**

- Voltage		V	12
- Starter (power)		kW	3
- Battery		Ah	110

■ **A-5.9 MACHINE SOUND LEVELS**

		Aspirated version	Turbo version
- Guaranteed sound power level (in accordance with the Directive 2000/14/CE)	dB Lwa =	104	106
- Measured sound pressure level (in accordance with the Directive 98/37/CE)	dB Lpa =	93	84

**MAINTENANCE****INTRODUCTION**

A thorough and regular maintenance keeps the machine in a safe and efficient working condition.

For this reason, it is advisable to wash, grease and service the machine properly, especially after having worked under particular conditions (muddy or dusty environments, heavy operations, etc.).

Always ensure all machine components are in good condition. Check for oil leaks or loosening of guards, and make sure that the safety devices are efficient. In case of defects, find and rectify them before using the machine again.

The maintenance interventions are based on the machine working hours. Regularly check the hour-meter and keep it in good condition to define the maintenance intervals correctly.

Not respecting the ordinary maintenance schedule of this manual automatically voids GENIE warranty.

IMPORTANT

For the engine maintenance, please refer to the specific Operator handbook supplied with the machine.

D-1 LUBRICANTS - HEALTH AND SAFETY PRECAUTIONS**Health**

A prolonged skin contact with oil can cause irritation. Use rubber gloves and protective goggles. After handling oil, carefully wash your hands with soap and water.

Storage

Always keep lubricants in a closed place, out of the children's reach. Never store lubricants on the open air and without a label indicating their contents.

Disposal

New or exhausted oil is always polluting! Never drain oil on the ground. Store new oil in a suitable warehouse. Pour exhausted oil into cans and deliver them to specialised firms for disposal.

Oil leaks

In case of accidental oil leaks, cover with sand or type-approved granulate. Then scrape off and dispose of it as chemical waste.

First aid**Eyes:**

In case of accidental contact with the eyes, wash with fresh water. If the irritation persists, seek medical advice.

Intake:

In case of oil intake, do not induce vomiting, but seek medical advice.

Skin:

In case of a prolonged contact, wash with soap and water

Fire

In case of fire, use carbon dioxide, dry chemical or foam extinguishers. Do not use water.



MAINTENANCE

D-2 ORDINARY MAINTENANCE

A wrong or neglected maintenance can result in possible risks for both operator and bystanders. Make sure maintenance and lubrication are carried out according to the manufacturer's instructions to keep the machine safe and efficient.

The maintenance interventions are based on the machine working hours. Regularly check the hour-meter and keep it in good conditions to define the maintenance intervals correctly. Make sure any defect detected during the maintenance is promptly rectified before using the machine.

ATTENTION

All "▲" marked operations must be carried out by a skilled technician.

During the first 10 working hours

- 1 Check the oil level within reduction gears, power divider and differential gears
- 2 Regularly check the tightening of the wheel bolts
- 3 Check the tightening of all bolts and nuts
- 4 Check the couplings for oil leaks

Within the first 50 working hours

- 1 Change the oil for the first time

Every 10 working hours or daily

- 1 Check the engine oil level
- 2 Clean the air suction filter
- 3 Check the engine coolant level
- 4 Clean the radiator, if necessary
- 5 Check the hydraulic oil level in the tank
- 6 Check the greasing of the boom section pads
- 7 Grease the attachment holding frame
- 8 Grease all joints of the boom, the rear axle shaft joint, the transmission shafts, the front and rear axles and any equipment of the machine
- 9 Check the efficiency of the overload warning system
- 10 Check the efficiency of the lighting electric system

- 11 Check the efficiency of braking system and parking brake
- 12 Check the efficiency of the steering selection system
- 13 Check the efficiency of the fork balancing system.
- 14 Make sure the safety devices installed are in efficient working order - see procedure in [chap. D-3.16](#).
- 15 Check or re-sequence the boom telescopes as indicated in [chap. D-3.17](#).

Every 50 working hours or weekly

Jobs to be done in addition to those above

- 1 Check the tension of the alternator belt
- 2 Check the tyre inflation
- 3 Check the tightening of the wheel nuts
- 4 Check the tightening of the Cardan shaft screws
- 5 Check the tightening of the sliding pads of the telescope.

Every 250 working hours or monthly

Jobs to be done in addition to those above

- 1 Change the engine oil and relevant filter
- 2 Check the oil level in the front and rear differential gears
- 3 Check the oil level in the four wheel reduction gears
- 4 Check the main filtering element of the engine air filter. Replace, if necessary
- 5 Check the clamping of the cableheads to the battery terminals
- 6 Check the air suction hose between engine and filter
- 7 Check the cylinder chromium-plated rods
- 8 Check the hydraulic lines are not worn because of rubbing against the frame or other mechanical components
- 9 Check the electric cables do not rub against the frame or other mechanical components
- 10 ▲ Check the wear of the sliding pads of the boom sections
- 11 ▲ Adjust the play of the sliding pads of the boom sections
- 12 Remove any grease from the boom, then re-grease the sliding parts of the boom sections
- 13 Check the level of the battery electrolyte

**MAINTENANCE****Every 3 working months**

- 1 Check the efficiency of the block valves - see [chap. D-3.16](#)

Every 500 working hours or every six months

Jobs to be done in addition to those above.

- 1 Visually check the smoke quantity evacuated from the engine exhaust
- 2 Check the tightening of the engine fixing screws
- 3 Check the tightening of the cab fixing screws
- 4 Check the backlash between pins and bushings in all joints
- 5 Change the hydraulic oil filter of the transmission
- 6 Change the hydraulic oil filter in the tank
- 7 Have the hydraulic system checked by a skilled technician
- 8 Change the main cartridge of the engine air filter

Every 1000 working hours or yearly

Jobs to be done in addition to those above

- 1 Change the safety element of engine air filter
- 2 Change the oil in the front and rear differential gears and in the power divider
- 3 Change the oil in the four wheel reduction gears
- 4 Change the hydraulic oil

Every 2000 working hours or every two years

Jobs to be done in addition to those above

- 1 Change the engine coolant

■ D-2.1 OIL CHANGE SCHEDULE

	Job	operating hours*	service interval*	Oil type
Engine	Oil level check	10	daily	SHELL RIMULA 15W-40 (API CH-4/CG-4/CF-4/CF; ACEA E3; MB228.3)
	First change	50	-	
	Subsequent changes	250	monthly	
Axles and power divider	Oil level check	250	monthly	FUCHS TITAN GEAR LS 85 W-90 API GL-5 LS / GL-5
	First change	-	-	
	Subsequent changes	1000	yearly	
Hydraulic oil	Oil level check	10	daily	SHELL TELLUS T 46 DENISON HF-1, DIN 51524 part 2 & 3
	First change	-	-	
	Subsequent changes	1000	yearly	

* whichever occurs first