



# Operator's Manual

Serial number range

**GTH 4013 SX**

From s/n: 19275  
to s/n: 20202

**GTH 4017 SX**

From s/n: 19300  
to s/n: 19977

With Maintenance  
Information

First Edition  
Third Printing  
Part No. 57.0009.0300

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## Labels And Plates Applied On The Machine

Ref.	Decal	Code	Description	Qt.
9		09.4618.0989	Label - Stabilizer Max Pres. GTH-4017 SX	2
		09.4618.0991	Label - Stabilizer Max Pres. GTH-4013 SX	2
10		09.4618.0776	Label - Upper Door Internal Unlock System	1
11		09.4618.0859	Quick guide and Control lever decal	1
12		09.4618.0921	Label - Use limits close to electric power lines	1
13		09.4618.0933	Crush Hazard	4
14		09.4618.0922	Crush Hazard	6
15		09.4618.0240	Cosmetic - GENIE Logo in WHITE	1
16		09.4618.0241		1
17		09.4618.0242		1

## Safety precautions

- When working, do not give instructions or signs to several people at the same time. Instructions and signs must be given by one person only.
- Always pay due attention to the instructions given by the foreman.
- Never distract the operator during working phases or crucial manoeuvres.
- Do not call an operator suddenly, if unnecessary.
- Do not frighten an operator or throw objects by any means.
- After work, never leave the machine under potentially dangerous conditions.
- Do not operate the machine in dangerous environments or in places with flammable or explosive gases or materials.
- Do not inject ether in engines equipped with glow plugs.
- Do not leave fuel cans or bottles in unsuitable places.
- Neither smoke nor use open flames in areas subject to fire dangers and in presence of fuel, oil or batteries.
- Carefully handle all flammable or dangerous substances.
- Do not tamper with fire-extinguishers or pressure accumulators.

### ■ MACHINE OPERATION hazards

#### Absolutely avoid the following work situations:

- Do not handle loads beyond the maximum capacity of the machine.
- Do not raise or extend the boom if the machine is not on a firm, level surface.
- Do not operate the machine in strong wind. Do not increase the surface area of the machine or forked load exposed to the wind. Increasing the area exposed to the wind will decrease machine stability.
- Use extreme caution and slow speeds when the machine is driven across uneven or unstable grounds, slippery surfaces or near trenches or drop-offs.
- Limit travel speed according to ground conditions, slopes, presence of personnel or other factors which may cause collision.
- Do not place or attach overhanging loads to any part of the machine.

### ■ EXPLOSION OR FIRE hazards

- Do not start the engine if you smell or detect LPG, gasoline, diesel fuel or other explosive substances.
- Do not refuel the machine with the engine running.
- Refuel the machine and charge the battery only in a well ventilated area away from sparks, naked flames and lighted cigarettes.

### ■ DAMAGED COMPONENT hazards

- Do not use battery chargers or batteries with a voltage above 12V to start the engine.
- Do not use the machine as a ground for welding.



### ■ PERSONAL INJURY hazards

- Do not operate the machine in case of hydraulic oil or air leak. Air or hydraulic oil leaks can penetrate or burn the skin.
- Always operate the machine in a well ventilated area to avoid carbon monoxide poisoning.
- Do not lower the boom if the area underneath is not clear of personnel or obstructions.

## Controls and Instruments

### ■ Auxiliary drive controls

#### 23 Cab Heater fan switch

Three-position switch:



- 0 OFF
- 1 Low speed
- 2 High speed

#### 24 Road lights switch

Three-position switch placed on the right side of the dashboard:

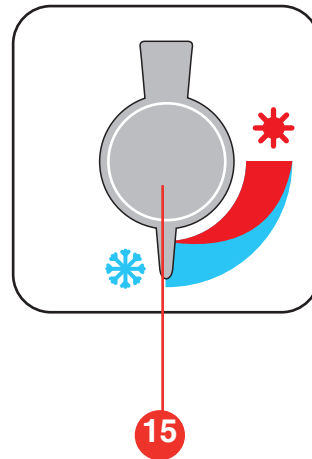
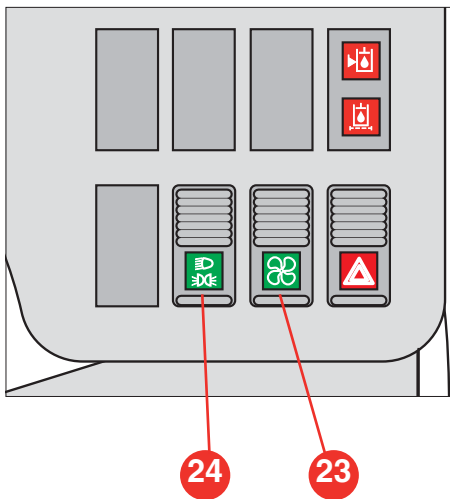


- 0 Lights OFF
- 1 Position lights ON (the switch indicator lights up partially).
- 2 Low beam ON (the switch indicator fully lights up).

#### 15 Cab heater control cock

Located on the left side of the driving seat base.

- Turn the cock clockwise to switch off heated air.
- Turn the cock counter-clockwise to switch on the cab heater.
- Adjust the flow of heated air in the cab operating the switch **23**.



## Inspections



### Make sure:

- ☑ You learn and practice the principles of safe machine operation contained in this operator's manual.
  - 1 Avoid hazardous situations.
  - 2 **Always perform a pre-operation inspection.**

### Know and understand the pre-operation inspection before going on to the next section.

- 3 Always perform function tests prior to use.
- 4 Inspect the workplace.
- 5 Only use the machine as it was intended.

### Pre-operation Inspection Fundamentals

It is the responsibility of the operator to perform a pre-operation inspection and routine maintenance.

The pre-operation inspection is a visual inspection performed by the operator prior to each work shift. The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests.

The pre-operation inspection also serves to determine if routine maintenance procedures are required. Only routine maintenance items specified in this manual may be performed by the operator.

Refer to the list on the next page and check each of the items.

If damage or any unauthorized variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications. After repairs are completed, the operator must perform a pre-operation inspection again before going on to the function tests.

Scheduled maintenance inspections shall be performed by qualified service technicians, according to the manufacturer's specifications.

## Operating Instructions

### ■ STARTING THE MACHINE

When the engine reaches the running temperature, ensure all parts are in transfer position and the gearbox lever is in neutral. Then, proceed as follows:

- Select the required steering mode.
- Select the required gear (forward or reverse).
- Release the parking brake.
- Slowly step on the gas pedal to start moving off.



***Do not operate the forward/reverse gear lever when the machine is running. The machine would reverse the running direction abruptly and you could seriously be injured.***

### ■ STOPPING AND PARKING THE MACHINE

When possible, stop the machine on a dry, level and solid ground. Then:

- Bring the machine to a smooth stop by easing up the gas pedal and stepping down on the brake pedal.
- Set the forward/back speed lever to neutral position.
- Engage the parking brake and ensure its indicator light switches on.
- Release the service brake pedal.
- Rest the attachment coupled to the boom flat on the ground.
- Rotate the ignition key to "0" and remove the key.
- Leave the driving cab and lock the cab door.



***Always face the machine when getting off the driving cab; make sure that your hands and shoe soles are clean and dry, and hold to the handholds to prevent falls or slips.***



***Always engage the parking brake after stopping the machine to prevent possible accidental motions of the vehicle.***

## Transporting The Machine

### ■ PARKING AND STORAGE

#### ■ Short inactivity

Always park the machine in a safe way after a working day, a shift and at night.

Take all precautions to prevent damage to those persons who will approach the machine while stationary:

- Park the machine so that it does not hinder other operations.
- Lower the boom fitted with attachment on the ground.
- Disengage the transmission and put the parking brake.
- Remove the key from the ignition switch and lock the cab door.



***Leaving a battery connected can result in shorts and, as a consequence, in a fire.***

#### ■ Machine storage

In case of extended inactivity of the machine, follow the above precautions. Additionally:

- Wash the machine thoroughly. For a better cleaning, remove grills and protection casings.
- Carefully dry all machine parts by blowing some compressed air.
- Lubricate the machine thoroughly.
- Do a walk-around inspection and replace any worn or damaged part.
- Re-paint any worn or damaged part.
- Remove the battery, smear its terminals with vaseline and store it in a dry place. Battery can be used for other purposes. Otherwise, periodically check its charge level.
- Refuel the tank to prevent internal oxidation.
- Store the machine in a sheltered and well-ventilated place.
- Start the engine for about 10 minutes at least once a month.
- When weather is particularly cold, empty the radiator.

## NOTICE

***Always remember that the ordinary maintenance must be carried out even during the machine inactivity. Pay particular attention to the fluid levels and to those parts subject to ageing. Before re-starting the machine, carry out an extraordinary maintenance and carefully check all mechanical, hydraulic and electrical components.***

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# Maintenance

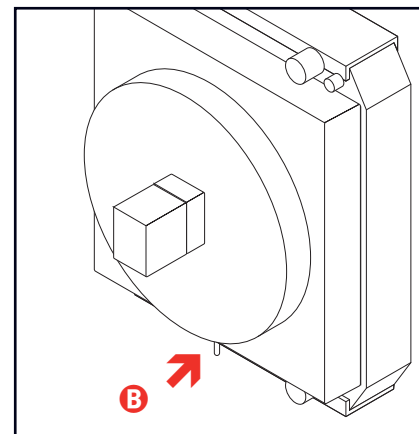
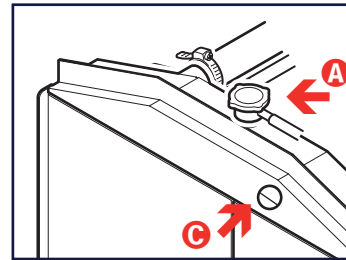
## ENGINE COOLING SYSTEM



### CAUTION

*When the coolant is hot, the cooling system is under pressure. With warm engine, loosen the radiator plug slowly and carefully, without removing it, to drain the pressure. Use protection gloves and keep your face at a safe distance.*

- Weekly check the coolant level through the level window **C**, before starting working (when fluid is cold).
- When necessary, add clean water or an antifreeze mixture through cap **A**.
- Change the antifreeze mixture every two years. To drain the antifreeze:
  - Let the engine cool down
  - Unscrew the plug **B** at the bottom of the radiator or disconnect the rubber hose, if no plug is present. Allow the coolant to flow out into a special container.
  - Refit the hose and pour new antifreeze (50% water-antifreeze). This proportion will provide protection up to -38°C.
- Daily clean the radiator grille using a brush with hard bristles or compressed air at a max pressure of 6 bar.



On delivery, the machine is filled with a cooling mixture consisting of 50% water and 50% anti-freeze.

TEREX PRO COOL		
Protection against boiling / freezing		
Product %	Freezing point	Boiling point
33	-17°C	123°C
40	-24°C	126°C
50	-36°C	128°C
70	-67°C	135°C

**SERVICE INTERVAL**

Running-in \_\_\_\_\_ None

Ordinary \_\_\_\_\_ **Every 50 hours**

## Maintenance

### ■ RE-SEQUENCING THE TELESCOPIC BOOM (Only for GTH 4013 SX)

If, during normal operation, a change in the boom extended lengths of 150 mm or more is noticed when the boom is retracted, proceed as follows:

1. Fully retract the telescope cylinder and hold the system over relief (approx. 15 seconds); the boom sections should become equal.

If after performing this procedure the boom still remains out of sequence, proceed with the steps below:

2. Move the boom to the zero position, fully retract the boom and hold the retract system over relief for approx. 20 seconds.
3. Raise the boom to approx. 60° and operate the retract function over relief for approx. 20 seconds.
4. Lower the fully retracted boom to the lowest angle possible without striking the ground and hold the retract system over relief for approx. 20 seconds.


If, despite these procedures, the boom does not return in sequence, raise the boom to approx. 60°, fully extend and retract it to full stroke and hold the system over relief (approx. 20 seconds) in each direction.

By following these procedures the boom re-sequencing should be correct.

### ■ TENSIONING THE BOOM CHAINS (Only for GTH 4017 SX)

To tighten the boom chains, follow the instructions below:


1. Fully extend the boom
2. Retract the boom by some 20/30 cm.
3. Tighten the chain up to a maximum tension value of 25 Nm.
4. Check that all chains have been equally tensioned. If not, repeat the operation described above
5. Lock the chain tensioners by means of a counter-nut and locknut.



**SERVICE INTERVAL**

Running-in \_\_\_\_\_ None

Ordinary \_\_\_\_\_ **Every 500 hours**



**SERVICE INTERVAL**

Running-in \_\_\_\_\_ None

Ordinary \_\_\_\_\_ **When necessary**

## Maintenance

### ■ 12V DC LAMPS

Use	Voltage	Mount type	Power
Front low/high beam	12 V	P45t	45/40 W
Front position lights	12 V	BA 9s	3 W
Side/tail turn signals	12 V	BA 15s	21 W
Stop lights and rear position lights	12 V	BAY 15d	21/5 W
Beacon - Work lights (OPTIONAL)	12 V	H3	55 W
Dashboard indicators and cab lighting	12 V	W 2x4.6d	1.2 W
Interior lamp	12 V	SV 8.5-8	5 W
License plate lights	12 V	BA 15s	5 W
Back-up lamps	12 V	BA 15s	21 W

## NOTICE

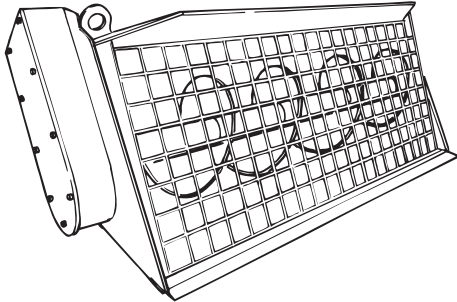
*When switched on, lamps get hot. Before touching a lamp with your fingers, let it cool down.*

## NOTICE

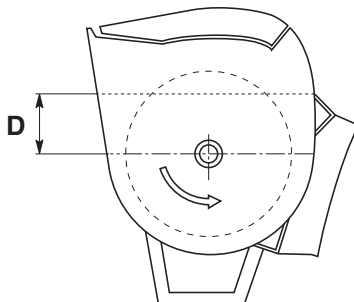
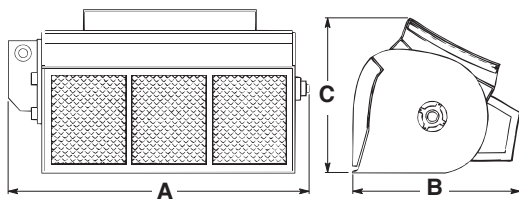
*Never touch the bulb of halogen lamps (mount type H3) with your fingers: this may damage the lamp (use of a clean cloth or a paper tissue). If you touch it accidentally, thoroughly clean with a paper tissue and some ethyl alcohol.*

## Optional Attachments

### ■ 500 LT MIXING BUCKET (code 59.0401.0000)



TECHNICAL DATA	
Width (A)	1850 mm
Length (B)	1080 mm
Height (C)	1120 mm
Empty Weight	780 kg
All Up Weight	2000 kg
Output Capacity	500 lt
Total capacity	785 lt
Output level from shaft centre (D)	140 mm



#### Application

Quick coupling attachment for mixing and distributing concrete.

#### Safety

Strictly obey the general safety precautions given in section "Safety".

#### Operation

To load/unload the material, operate the rotation lever of the attachment holding plate.

#### Maintenance

Visually check the bucket for damage before using it. Wash thoroughly with water after use or in case of prolonged inactivity to prevent the mix or residues from hardening.

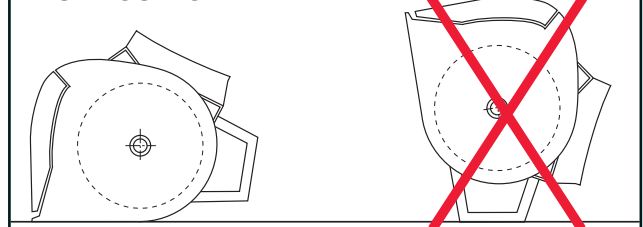
Check for oil leaks from hoses and connectors.

Carefully protect the quick connectors once disconnected to prevent impurities from entering the circuit.

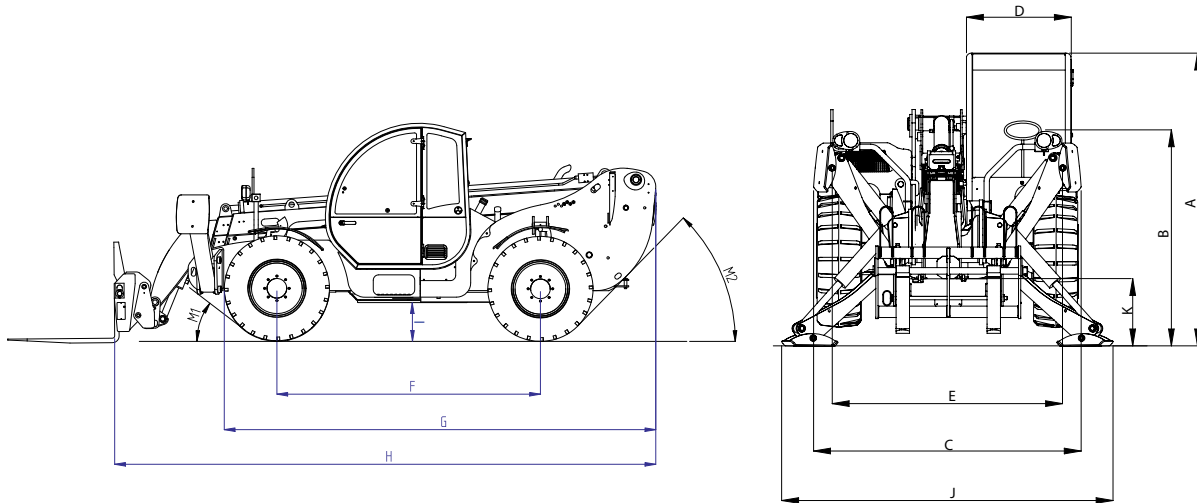


**Before any maintenance, rest the bucket on the ground, stop the machine, remove the starter key and lock the cab door to prevent anybody from gaining access to the control panel.**

#### REST POSITION



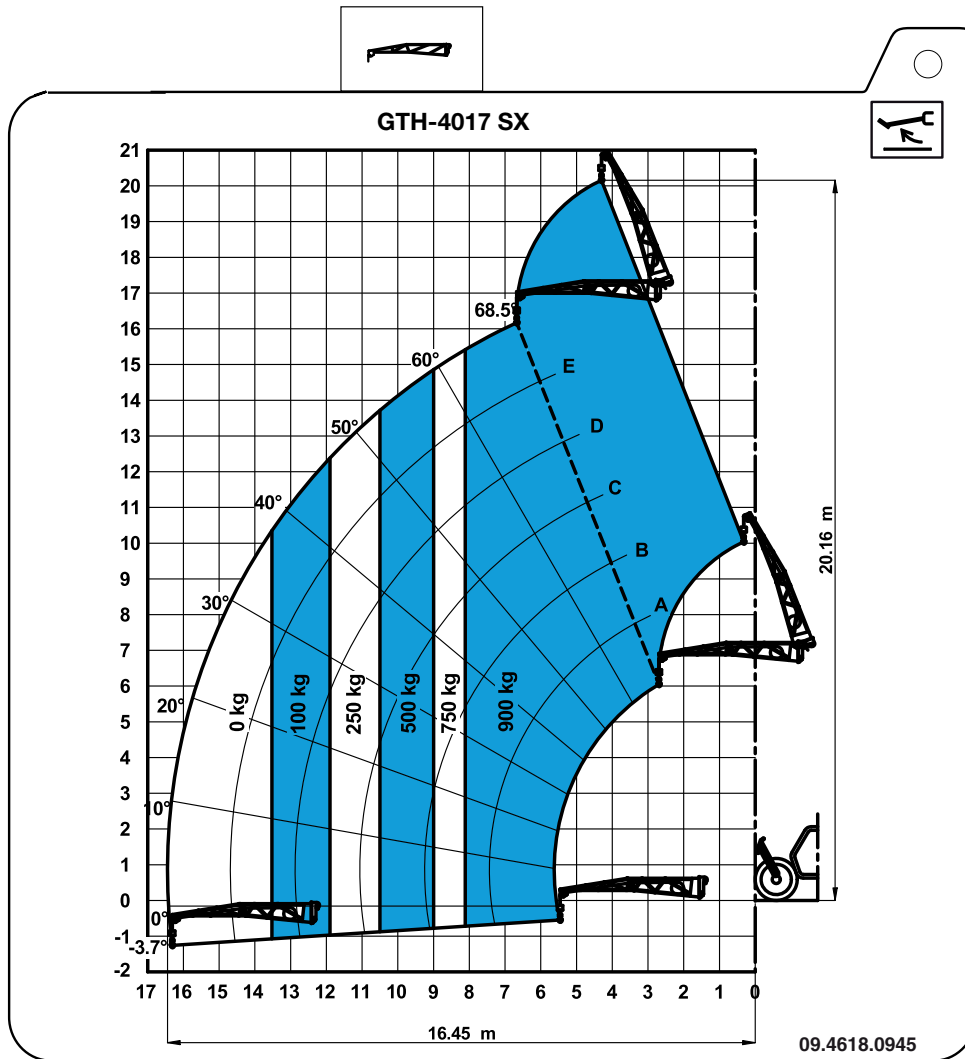
# Specifications



	GTH 4017 SX	GTH 4013 SX
<b>■ MAIN DIMENSIONS</b>		
A Overall height..... mm	2440	2400
B Height to the steering wheel ..... mm	1600	1600
C Overall width ..... mm	2320	2320
D Cab width ..... mm	780	780
E Track ..... mm	1920	1920
F Wheel-base ..... mm	2950	2950
G Length to the front tyres..... mm	4830	4790
H Length to the attachment holding plate..... mm	6570	6060
I Ground clearance, center ..... mm	430	390
J Max width with extended outriggers ..... mm	2890	2890
K Ground clearance, axle..... mm	491	441
• Internal steering radius..... mm	2425	2425
• External steering radius ..... mm	4650	4650
<b>■ LIMITS OF USE</b>		
M1 Obstruction angle ..... °	40°	40°
M2 Departure angle..... °	46°	46°
• Min/max ambient temperature ..... °C	-20°/+40°	-20°/+40°
<b>■ WEIGHT</b>		
• Weight in working order ..... kg	11.600	9.850
<b>■ SPEED</b>		
• Max travel speed (max load)..... km/h	5	5
• Max travel speed (with fork) ..... km/h	28	28

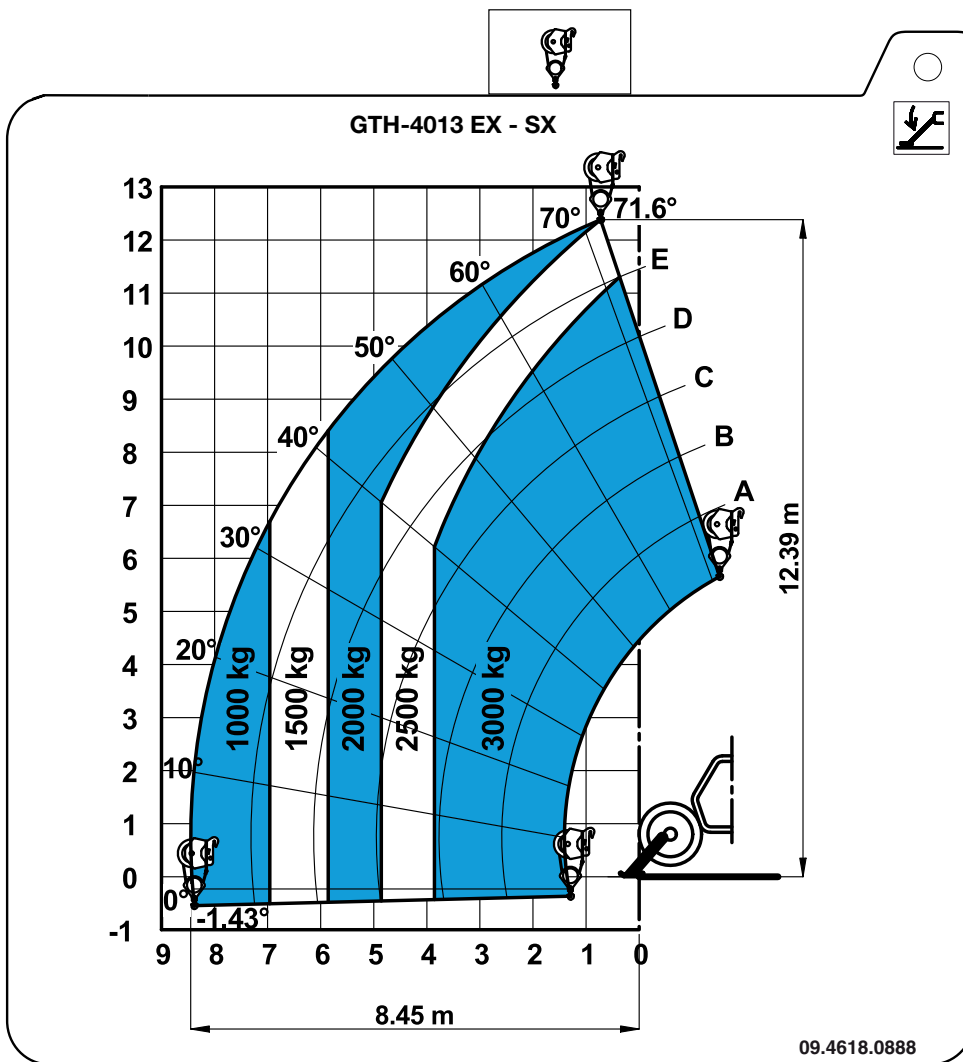
# Load Charts

## LOAD CHART WITH 900 KG JIB GTH 4017 SX ON WHEEL



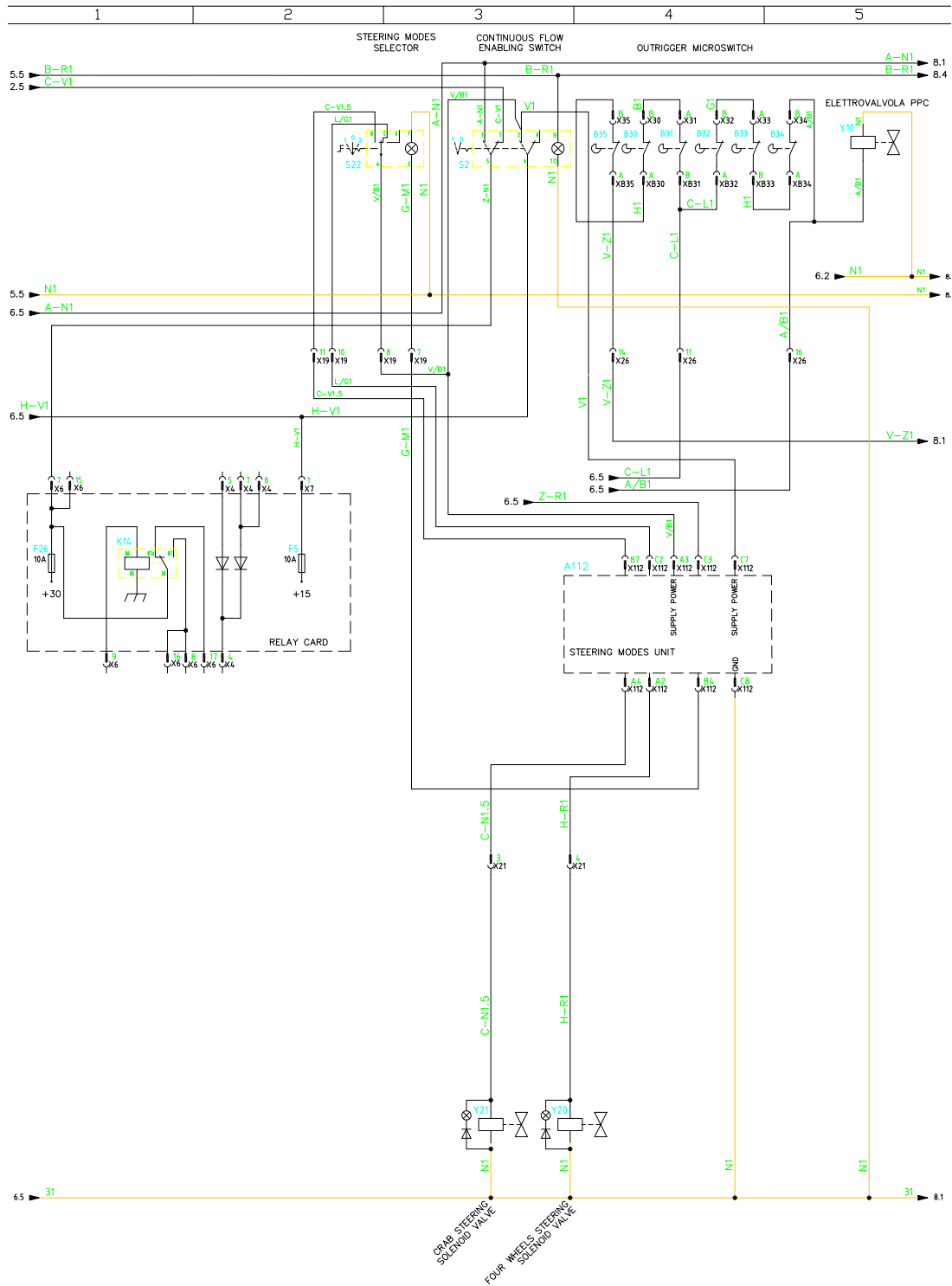
# Load Charts

## LOAD CHART WITH WINCH GTH 4013 SX ON OUTRIGGERS



# Diagrams and Schemes

## ■ GTH-4013 SX & GTH-4017 SX WIRING DIAGRAM 7/9



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