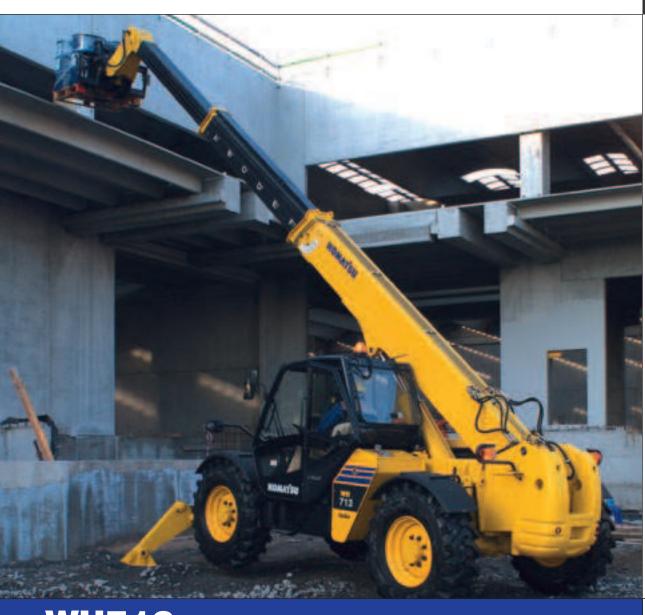
# KOMATSU®

**WH713** 

LIFTING HEIGHT
13.100 mm
LIFTING CAPACITY
3.700 kg
OPERATING WEIGHT
10.550 kg

<mark>wн</mark> 713



Telescopic Handler

**WH713** 

### **WH713**

13.100 mm LIFTING CAPACITY 3.700 kg

**LIFTING HEIGHT** 

**OPERATING WEIGHT** 10.550 kg

# WALK-AROUND

The WH713 belongs to the new series of KOMATSU telescopic handlers, which offers:

- the high quality, the safety and the cutting edge technology which typically characterise all KOMATSU products
- the Super Low Boom Profile, a new design which offers unique advantages in terms of stability and visibility

#### **Excellent Visibility**

- thanks to the particular design of the frame, the hinging point of the boom is extremely low; this characteristic, together with the extending cylinder which is inside the boom, ensures a 360° visibility, an unparalleled feature

#### **Top Performance**

- high lifting capacity to the maximum height and the maximum reach, both on stabilisers and on tyres, with the help of the frame levelling (±10°) and the rear axle lock (optional), which is automatic over a 30° boom angle
- the CLSS (Closed Load Sensing System) hydraulic system, which is a closed-centre circuit, with Load Sensing and a variable displacement pump that ensures smooth proportional and combined movements; all this guarantees maximum productivity and minimum consumption
- high travel speed powered by the standard Full Power Shift transmission

#### Easy Manoeuvrability

- the wide steering angles make the steering radius extremely reduced for the category, both at the wheels and at the forks
- three different steering modes (two-wheel, fourwheel and crab) allow the operator to smoothly and precisely move the machine, whatever the conditions, from small building yards to road transfers

#### **Total Comfort**

- spacious cab
- exceptionally low noise
- the PPC servo-control for the boom and the work tool allows the operator three simultaneous and proportional movements
- the EGS (Electronic Gear System) electronically controls the transmission, the self-diagnosis system and the selection of the travelling direction; by using a twist grip lever the operator can choose between 5 forward and 3 reverse speeds
- the hydraulic quick coupler, optional, allows users to change work tools without leaving the cab

#### **Full Safety**

- the SLI stability control device (Safe Load Indicator), equipped with an acoustic and visual alarm, informs the operator when the machine stability limit is approaching
- the **ASM** anti-tipping system (Auto Stop of the *Movements*), optional, prevents the machine from aggravating movements and only allows the retraction of the boom
  - the selection of the three steering modes by the simultaneous pushing of two buttons avoids accidental shifting, always ensuring total safety in steering mode changes
    - three working modes provide full operator comfort and safety: travelling, working, working and travelling (except for higher speeds)
      - servo-assisted service brakes with double hydraulic independent circuits, active on both axles
        - the automatic rear axle oscillation lock, optional, increases both lift performance and security
          - safety valves on the hydraulic cylinders



#### **Highest Stability**

- the long wheel-base provides the machine with a wide bearing area; together with a very low centre of gravity, it also guarantees excellent static and dynamic stability to the KOMATSU telescopic handler
- the three stage telescopic boom features chains for the extension of the third stage of the boom; this solution helps to reduce the weight of the whole structure, improving stability and loading capacity



WH713 Telescopic Handler WH713

### **OPERATOR'S ENVIRONMENT**

## STRONG POINTS



#### **Total Comfort**

The ROPS (ISO 3471) and FOPS (ISO 3449) cab has a modern and ergonomic layout and is mounted on four elastic supports.

The wide glass surface provides the operator with excellent visibility in any direction.

The suspension seat and the steering column can be adjusted by the user to obtain the ideal driving position.

The EGS leds indicate movement direction, gear shifting and diagnostic test results.

The modern LCD panel displays digital instruments like speedometer, rpm, fuel level and water temperature indicators, as well as many pilot lights.

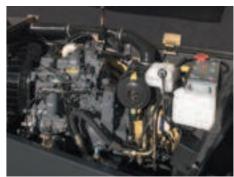
The optional air-conditioning system provides the ideal temperature and prevents steaming up in all weather conditions, thus guaranteeing maximum comfort to the operator.

#### **Engine**

The displacement (4,5 litres) of the KOMATSU Turbo engine guarantees high power and torque, together with superior reliability.

The advanced technology ensures minimum levels of emissions, in compliance with the European standards (97/68/CE - Stage 2).

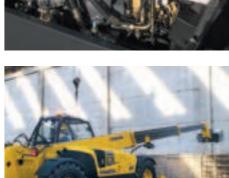
The engine and the transmission layout makes all service and maintenance operations easy to perform.



#### Super Low Boom Profile

The boom extension is performed by means of a hydraulic cylinder for the second stage and chains for the third one. The easy-to-remove cover protects the chains, such that the likelihood of damage is extremely low. All stages run on adjustable anti-wear pads.

A compensation cylinder ensures the work tool self-levelling.



#### **Joystick**

On the right side, the operator can find the servo-controlled joystick, in addition to the controls for the stabilisers and the frame levelling. The joystick mounts a unique slider switch and allows three simultaneous boom functions: lifting, extending and tool carriage rotating. The adjustable armrest enhances precision and comfort in all movements.



#### Stability Control Device

The stability control device (SLI) indicator is well positioned on the board; it enables the operator to constantly monitor the stability of the machine and to be instantly advised when the limit is approaching, with the help of distinct leds and an acoustic warning.



#### Steering & Working Selection

The operator can switch working mode by simply turning a knob on the panel, which is placed on the left side of the steering column. The buttons for the steering mode selection are easily accessible on the same board and they are protected by a waterproof surface.



Max lifting height.

Drawbar pull ......

Max lifting capacity ......

Breakout force (ISO 3813)...

STEERING

Capacity at max height .....

Capacity at max forward reach......

Max forward reach .....

..... 3.700 kg

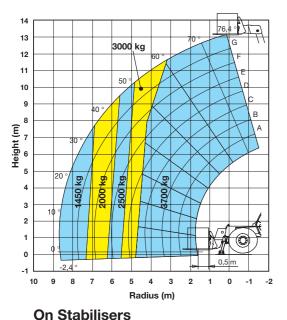
. 9.290 daN

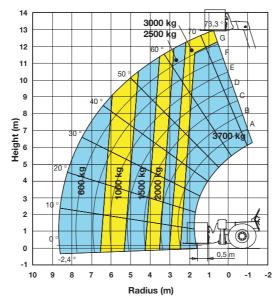
.. 6.750 daN

# LOAD CHARTS AND DIMENSIONS

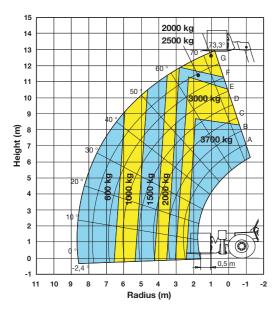
## **S**PECIFICATIONS

**OPERATING PERFORMANCES** 

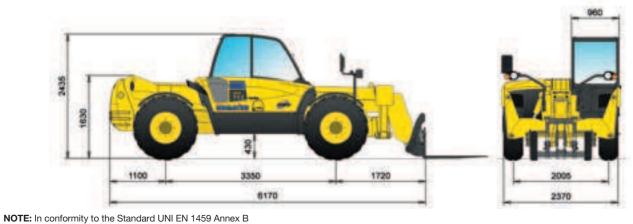




On Tyres with Rear Axle Lock



On Tyres





#### ENGINE

The last generation engine has been developed in compliance with the European standards (97/68/CE - Stage 2) on the reduction of exhaust emissions.

Model	Komatsu S4D104E-1
Type	4-cycle water-cooled diesel engine
Displacement	4.485 cm <sup>3</sup>
Aspiration	turbo
Rated power:	
SAE J 1349	74 kW / 99,2 HP @ 2.300 rpm
EEC 80/1269	74 kW / 99,2 HP @ 2.300 rpm
Max Torque	398 Nm @ 1.400 rpm

Pump ......variable displacement with axial pistons

Boom lifting, boom extension and tool carriage rotation are controlled by a PPC joystick, which allows proportional and

HYDRAULIC SYSTEM



#### Turning radius, fo

rurning radius, four wheel steering:		
on tyres	3.720 mm	
on forks	5.330 mm	



... 62 l/min

#### TRANSIMISSION

Full Power Shift transmission, permanent four wheel drive. EGS electronic control system; twist grip lever for direction and speed selection.

Travel speeds:

1
1
1
1
1
ı
1
1
1



simultaneous movements.

Max operating pressure ......

CONTROLS

Auxiliary hydraulic line...

Max flow....

The cab meets the European ROPS (ISO 3471) / FOPS (ISO 3449) safety standards. Two independent piece door; windscreen wiper; rear opening window with wiper.

Cab internal width .......940 mn

Servo-assisted service brakes with 2 independent lines, acting on

Parking brakes type .....acting on front axle service brake

.....oil immersed multi-disk



#### ELECTRIC SYSTEM

Voltage	12 V
Battery	110 Ah
Alternator	90 A
Starter	3 kW



#### DEFILLS

Fuel tank	130 €
Hydraulic oil tank	125 ℓ
Front axle oil	9 <i>e</i>
Rear axle oil	9 <i>e</i>
Transmission oil	13 <i>t</i>
Engine oil	12,8 <i>e</i>
Coolant	



both axles.

#### TYRES

**BRAKES** 

Service brakes type.....



#### **OPERATING WEIGHT**

Operating weight: standard machine with forks ...... 10.550 kg

### TELESCOPIC HANDLER

### STANDARD EQUIPMENT

- KOMATSU Stage 2 Turbo engine
- Air cleaner with dual element
- Fuel filter with water separator and clogging indicator
- Full Power Shift transmission with EGS electronic control (5 forward and 3 reverse speeds)
- CLSS hydraulic system
- Transmission oil filter
- 4 wheel steering (3 steering modes)
- Safety valves on hydraulic cylinders
- Auxiliary hydraulic circuit up to the boom head
- SLI (acoustic and visual alarm) stability control device
- Alternator: 90 A
- Battery: 110 Ah
- 12 V internal and external electric plugs
- Radio pre-setting
- Horn
- ROPS/FOPS cab with heater and fan
- PPC servo-control with adjustable armrest
- Adjustable seat with safety belt
- · Adjustable steering wheel
- Two piece door

- · Rear opening window with wiper
- · Boom angle indicator
- Boom angle indic
   Mudquards
- Stabilisers
- Frame levelling: ±10°
- · Mechanical quick coupler
- Forks
- Tyres: 15.5/80-24 PR14

### **OPTIONAL EQUIPMENT**

- Semiautomatic transmission
- ASM (automatic lockout of movements) anti-tipping system
- Battery: 148 Ah
- · Catalytic muffler
- Cold area arrangement
- · Air cyclone pre-filter
- Hydraulic biodegradable oil
- · Boom upper protection
- Front window guard
- Deluxe seat
- Air Conditioning
- Radio
- · Upper window with wiper
- Boom working lights
- Rear working light
- Rotating beacon
- Automatic rear axle lock
- Back up alarm
- Road homologation
- Customised colour paint
- · Hydraulic quick coupler
- Forks protection guard
- Buckets: general purpose 2.320 mm and 2.420 mm (1,0 m³), high capacity for light materials 2.420 mm (1,5 m³)
- Side-shift forks



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