

TH RANGE COLLECTION





Quality, craftsmanship and innovation.
The secret lies in precision. Having clear ideas is vital:
we need to know where we want to go and what we want to create.
And at Magri, we throw our all into accomplishing it.

Riccardo Magri – President

Magri Telescopic Handlers was founded in 2013. Thus began the development of the widest range of telescopic handlers on the market, from rotating telescopic handlers to self-propelled models and self-boom construction telescopic handlers. Italy was no longer enough and six further branches have been set up: Magri TM France, Magri Ltd, Magri America, Magri Deutschland, Magri SA and Magri Asia Pacific. To offer our clients the best technical and commercial service around, we have created a network of over 300 dealers, a number that is constantly increasing. And that is just the beginning of our story.

MAGNI: EXPERIENCE, RELIABILITY AND VERSATILITY

PRODUCTIVITY

The 7m range of telescopic handlers for construction and light industry is designed to ensure maximum performance in every situation. Standard 4-wheel drive guarantees maximum grip on any kind of ground. The hydrostatic transmission ensures optimal off-road performance. The compact size is ideal for tight working spaces, guaranteeing maximum manoeuvrability in any location.

VERSATILITY

The choice of attachment is essential in defining the work of the machine. Its **three-in-one** nature ensures maximum versatility, allowing you to use it as a telehandler, crane or man platform*. Thanks to the wide range of interchangeable attachments, you can carry out different works with ease. All attachments are compatible with all models, ensuring maximum flexibility.

* Homologated as standard only on some models.



TH 5.5 P / TH 5.5



TH 6.10 P / TH 6.10



TH 5.5 15 P / TH 5.5 15

How to read the
model names

All model names identify the range and its main features, such as maximum lifting capacity and maximum lifting height.

FUNCTIONALITY

The function management software is easy and intuitive and suitable for all types of users. The thematically organized display and iconographic graphics make it easier to learn the basic functions, making the system **user-friendly**. The CAN BUS electrical system simplifies the machine management, allowing all relevant data to be displayed on the touchscreen in the cab. The lift hydraulic system features a 200 bar working pressure. It has been designed to optimize daily work.

COMFORT

Ergonomics and operator comfort are prerogatives of Vögele machines. The seat and adjustable steering column are designed to ensure an optimal driving position. The full-visibility cab is designed to guarantee a **360° view** during every movement. The many standard features of the cab (such as air filtration and pressurization) ensure operator comfort in any season and location.



TH 5.5.19 P / TH 5.5.19



TH 5.5.24



TH 6.20

TH	5,5	19
product range	maximum lifting capacity (ton)	maximum lifting height (m)

P identifies the 75 kW models. The TH 5.5.24 and TH 6.20 models feature a 100 kW engine only.

TH RANGE AT FIRST SIGHT

Our unique approach to research and development of new products allows us to *constantly fine-tune and refine* our range in order to offer our customers the best solution for every job.

Optimal
lifting
performance



Working heights
from 2
to 24 m



Maximum lifting
capacity of 5, 10
and 15 tonnes



TH 6.10 P / TH 6.10

- Lowered design for greater stability
- Available with Deutz Stage V engines
- Available in two engine sizes, 55 kW and 75 kW, to suit your needs
- 250 bar L/S Hydraulic system
- 4WD



Compatible with a wide range
of attachments



Safe, strong and reliable

our fixed Telehandler range combines craftsmanship with innovation and technology, to offer high-end performance in each application.

TH 5,5.15 P / TH 5,5.15

TH 5,5.19 P / TH 5,5.19

- Lowered design for greater stability
- Available with Deutz Stage V engines
- Available in two engine sizes, 55 kW and 75 kW, to suit your needs
- Standard pivoting stabilisers for optimised lifting capacities up to 5.5 tonnes
- 350 bar L/S hydraulic system
- 4WD



Compatible with a wide range of attachments



TH 5.24 / TH 6.20

- Available with 100kW Deutz Stage V engines
- Standard pivoting stabilisers for optimised lifting capacities up to 6 tonnes
- 250 bar L/S hydraulic system
- 4WD



Compatible with a wide range of attachments



SIDE-SHIFT

The TH 6.20 and TH 5.24 is equipped as standard with the side-shift system. It allows for lateral movement of the rear part of the chassis and the boom, around the longitudinal axis of the machine, correcting the position of the load without moving the unit. This system allows for a $\pm 4^\circ$ shift which corresponds to a ± 1.5 m movement when the boom is fully extended, whatever the attachment fitted.



Design

High-tensile steel for optimal performance and flexibility

Versatility

Interchangeable attachments and 360° automatic attachment recognition system

Comfort

Pressurized cab with air conditioning system, air filtration and adjustable steering column

Safety

Load limit device (LLD) monitors verified safe and full capacity of the load

Manoeuvrability

Compact size and stablesteer system provided 3m² protruding from the outline of the machine when closed

Performance

Four-wheel drive and steering and 500 bar working pressure



Construction
Petroleum
Electric
Installation



Large events
Concerts
Festivals



Aircraft
Maintenance
Ship repair



Plant Service
Excavator work
Pumping
Light installation

TH 5.8 P / TH 5.8

INDUSTRIAL VERSION

Choose the right Magni for your needs.

The range of fixed telehandlers is flexible and adapts to your needs: from **industry to construction and mining sectors**. Magni models are perfect for every application.

- Extra lowered design to access areas with low ceiling
- Compact design for unmatched manoeuvrability
- Available with Deutz Stage V engines
- Available in two engine sizes: 55 kW and 75 kW, to suit your needs
- 330 bar LVS hydraulic system
- 4x4





FOLDABLE FLASHING LIGHTS

The flashing lights can be folded manually and do not protrude from the machine, remaining under 2 mm in height. This avoids any collisions with the low ceiling. Once the work area has been reached, the flashing lights can be returned to their standard position with a simple gesture.

INDUSTRIAL

EXTRA LOWERED DESIGN

The super low design brings the machine to a maximum height of 2 m. This makes it perfect for entering even the narrowest openings. The ground clearance is still optimal for rough terrain, allowing the vehicle to easily overcome piles of soil and debris.



TH 5.8 MINING

Designed to work in the most demanding environments as support for all **material handling operations**, the TH 5.8 has excellent lifting performance and great manoeuvrability. It will be the ideal partner for your work in *mining and quarrying sectors*.

- Extra lowered design to access areas with low ceiling
- Compact design for unmatched manoeuvrability
- Available with Deutz Stage IIIA engines
- 350 bar US hydraulic system

» MINING

Indicators for
three masts



External 8 kg fire extinguishers



Emergency stop buttons



Cell and headlight protections

For more details on equipment, consult us on page 20-21.



The H30 Mining model has a lowered design, with a maximum height of the vehicle of 2 m. This feature makes it suitable for entering the narrow passages of tunnels and mining sites. The design is also compact, offering a machine with small dimensions and excellent maneuverability. In addition, the hydraulic

transmission and dual-wheel drive make it suitable for any type of terrain, ensuring maximum traction and grip even on the most bumpy grounds. The tires are semi-solid, made of a special anti-bulb compound that provides excellent heat resistance. This makes them suitable for all operations on rocky surfaces.

COMFORT CAB



REGISTERED CAB WITH FULL VISIBILITY

The innovative design of Magna's cabs ensures unbeatable operator comfort and safety. The cab has **full visibility** thanks to a large windscreen which extends from the operator's feet to their feet, allowing them to view the load even when it is suspended overhead or with the boom completely lowered.



FOPS LEVEL 2 / ROPS PRESSURISED CAB

The cab is **FOPS (Level 2) / ROPS** certified and equipped with an upper grill guard to guarantee operator safety even during the most delicate operations. The cabin is also bright and fully pressurised, to ensure a safe working environment for the operator at all times.





HEATING AIR-CONDITIONING

Our Tm range can be used in any part of the world, from 30°C to the African deserts. All machines in the Tm range are therefore equipped as standard with a **heating and air conditioning system**. (Except for models with 55 kW engines, for which it is an option)



MUG HOLDER

Recently added to the cab, you will now find a **mug holder**. This is a big hit with operators, allowing them to enjoy their morning coffee or other beverages during their breaks. The cab also features a USB port as standard ideal for charging tablets and smartphones.



ERGONOMIC DESIGN

Achieving the most comfortable and ergonomic driving position is essential while working. The Vign Tm cab allows you to easily adjust the steering wheel to the most ergonomic and comfortable position. Nevertheless, when the column is straight, you can effortlessly access the cab. The seat can also be moved forwards and backwards to achieve the perfect support for your back.



100% AIR FILTRATION

Vign machines feature **100% air filtration**. This feature, which is standard on all Tm models, enables the machines to be used even in polluted or contaminated environments. You simply need to change the filter according to your requirements.



CONTROL PANEL

STANDARD TOUCH SCREEN

All Magni models from 4 to 8 ton capacity are equipped with a 7" touchscreen display. The machine management software installed on the touchscreen gathers all usage data and displays them conveniently over two different pages. Navigating between these pages is extremely easy and intuitive, even for less expert users.

MAGNI CONTROL PANEL

The user-friendly touchscreen display is used to manage the whole machine. It is extremely intuitive

and communicates with the operator via more than 170 written fault messages in 12 different languages. The stabilisers and auto-levelling can also be managed via dedicated buttons.

INTEGRATED DIAGNOSTICS

Fast and simple troubleshooting of electrical and electronically managed components allows for reductions in machine downtime. When a fault is detected, the system automatically shuts off any movement likely to worsen the fault and displays an alarm code which identifies the fault type.



DRIVE PAGE

All data on the transmission and its components are shown in the upper section, just like a traditional instrument cluster, whereas the lower section allows the driver to select the type of steering. This selection is facilitated by the presence of two alignment sensors. It is also possible to set the speed (performance).



STABILISATION PAGE*

This page displays all data relating to the load chart of the attachment. The movement of the load within the stabilisation area is displayed in real time, so that you can always have everything under control.

*Not available for models with stabiliser



LOAD CHART PAGE

Vögtel machines use the "Load Moment indicator" system which meets all regulations for cranes. The screen displays a dynamic load chart which allows the operator to keep a constant view of the payload's centre of gravity and of its movement in the chart.



CONTROL PAGE

The user system is used to manage basic set commands (such as temperature and ventilation); the middle section is dedicated to the machine lights, while the lower section displays the various available options for switching from the set controls to remote control.



CUSTOMISATION PAGE

This page displays the limitations for working height and the hydraulic speeds for lifting/lowering and extension/retraction of the boom, as well as tilting and attachment functions for special manoeuvres in tight spaces.

PRODUCTIVITY AND EFFICIENCY



MANOEUVRABILITY AND OFF-ROAD

Every model is equipped with 4-wheel drive and steering to ensure maximum stability in every operation. This solution allows for maximum freedom of movement and 3 types of steering: round steering, front steering and crab steering.



EXCELLENT PERFORMANCE IN THE WORK SITE

The powerful hydrostatic transmission provides each wheel with all the power necessary to tackle the roughest terrain and the toughest slopes. Thus, the operator will be able to use the machine for every work in total safety. The impressive ground clearance allows the machine to overcome any obstacle. Available as an option on the entire range, we offer solid tyres to further improve performance.



Interchangeability

The R.F.I.D. automatic attachment recognition system automatically recognises the attachment coupled to the machine. The display is consequently updated with the corresponding load chart and the load limit device is set for that specific attachment. This solution is conceived to complete the coupling phase in total safety.



LEVELLING SYSTEM ON TYRES

The mechanism lets the driver adjust the machine levelling and have the full load chart for all operations, even with ground inclinations which would normally affect the lifting performance. Magn has also introduced an additional levelling safety device: if the operator tries to manually correct the inclination of the machine on uneven terrain, the system detects the machine inclination and only allows compensation to be performed in the correct direction, preventing any movement which could worsen the situation.



UNPARALLELED STRENGTH AND
HIGH-QUALITY COMPONENTS

DESIGN AND CONSTRUCTION PLUS

ENGINE

All the models feature Stage V engines to meet the requirements of Regulation (EU) 2016/1628 regarding emissions. All the models are also available with Stage IV (Tier 4) engines. This choice was dictated by the desire to be able to easily fit the entire range in all markets. Without this need for conversion kits the T4 5.5 18 and T4 5.5 18 models are available with two different motor covers for each available engine. Thus, we can meet the most diverse requirements of each customer, adapting to their needs in the best possible way.

WARRANTY

All the models feature a 24-month parts and service warranty*. The Magni warranty requires your machine to be regularly serviced from now by an authorized Magni Dealer. Our warranty covers any defects attributable to faulty materials or workmanship for a maximum of 2 years or 2,000 machine working hours. Our after-sales team and spare parts department are always ready to support you every day of the year.

**Read more on our website www.magni.com.*



MOTORIZATIONS

	Deutz TCD 3.6 L4 Stage V			Deutz TCD 3.6 L4 Stage V - Tier IVf			Deutz TCD 3.6 L4 RDC Stage IIIa		
	100 kW	75 kW	55 kW	100 kW	75 kW	55 kW	100 kW	75 kW	55 kW
TH 5.8 P		✓					✓		
TH 5.8			✓						✓
TH 5.8 MINING							✓		
TH 6.10 P		✓			✓		✓		
TH 6.10			✓			✓			✓
TH 5.5.15 P		✓			✓		✓		
TH 5.5.15			✓			✓			✓
TH 5.5.19 P		✓			✓		✓		
TH 5.5.19			✓			✓			✓
TH 5.5.24	✓			✓			✓		
TH 6.20	✓			✓			✓		

✓ Available



AUTOMATIC PARKING BRAKE

The function greatly improves the management of the parking brake, making the machine easier and even

safer to drive. It can be applied to all the models of the range. This function means it is no longer necessary to use the dedicated button on the steering column to engage and disengage the parking brake. The brake is automatically engaged whenever the vehicle's speed drops to zero, and is disengaged when the P/A is in drive mode and you hit the drive pedal.

HYDRAULIC CIRCUIT

All 7m range features a load-sensing system with power sharing and 350 bar. This solution allows to accurately manage all hydraulic movements, providing exceptional precision in every movement. The entire system is CE 2 certified and complies with EN 12040 concerning the safety of electronic controls. Best light

savings. Thermoplastic hoses and steel pipes ensure a perfect seal. The electronic management of the hydraulic system allows it to select the best engine speed for the hydraulic power required, providing reductions in fuel consumption. Vision software allows management of flow sharing, guaranteeing both safety and precision of each hydraulic movement (up to 34 movements at a time).

DESIGN AND CONSTRUCTION PLUSES

TRANSMISSION

The electronically controlled hydrostatic transmission guarantees up to 500 bar working pressure, ensuring accurate and progressive speed regulation. The automatic calibration of the hydrostatic pump and motor with variable displacement offers the perfect balance between speed and pulling force. The dynamic system automatically adjusts the pressure to the transmission parameters in order to meet the needs of the machine. The two-speed gearbox offers a high and low speed range for on-road and off-road driving, respectively.

AXLES

The axles feature a planetary reduction gearbox and multi-disc wet brakes. The steering cylinder is located on the upper part in order to protect them from accidental collisions. The rear axle is a 50 kg model to ensure the best off-road performance. When the beam exceeds a 30° angle during static work, the automatic differential lock is engaged to ensure better stability.

ELECTRICAL CIRCUIT

The 180-rated electric circuit is protected against water and dust ingress, and runs at 24V. The TM range is equipped with a CAN BUS, which handles all data relating to the electronic components. All information regarding the engine, transmission, hydraulic

system and load moment indicator is shown on the touchscreen display. CAN-BUS technology requires around a third less wiring, reducing the risk of faults on the circuit and increasing overall reliability of the machine.





Manufactured from high-tensile steel, **the boom** is extremely tough and rigid but at the same time very light, increasing the load capacity and preventing it from flexing.

The telescopic extension of the sections is actuated by a cylinder. A dual-chain system and hydraulic hoses completely contained inside the boom itself significantly reduce accidental breakages due to collisions. The boom is composed of welded plates, preventing rubbing between the individual lines and maintaining alignment, thus also contributing to a significant reduction in faults. The sliding parts are fastened to steel blocks, ensuring smooth movement of the structure.



The New Fleet Management

Enjoy MyMagni free of charge
all new machines.



EFFICIENT

Technical alarms and maintenance
and in perfect condition at all times.



SMART

A simple and intuitive interface,
optimised for both desktops and
portable devices. MyMagni allows you

world.



SAFE

You can set movement alarms
through "geo-fence" and curfew
in real time when the machine leaves
unauthorised use.

Discover how the new GPS system can help you
manage and monitor your fleet. A total overview
that enables you to map and track every movement
of your fleet and displays the most critical items on
your dashboard.

MyMagni Mobile

The app helps you identify machines in need of
immediate care, forecasting potential breakdowns.
The events engine collects and displays all
important machine events such as CAN fault codes,
protections and service, damage and even overdue
service.

CHAT: this message centre helps keep track
of ongoing communication between you and
your customer.

You can also share high-quality pictures and video
content. MyMagni is available on both the Apple
Store and Google Play Store.



Now full with the
MyMagni Mobile.



TOP FEATURES



MAINTENANCE

- Schedule your
maintenance
- Hours left to
maintenance
- Check oil level
- Check filter use



SAFETY

- Alarm Geofence from UIC
- Machine Alarm GPS
- Fuel Sensor Code of engine
alarm
- No bypass



MyMagni Desktop

FLEET HOME

This page displays the exact position of each unit and its operating status, via a colour legend.

CLASSIC

This is an embedded section that provides access to standard modules such as reports, servicing, alarms and access control.

FLEET INVENTORY

Here you can easily segment and chart your fleet, helping you make informed business decisions.

SEARCH FOR A UNIT

Here you can find all the relevant information, such as geolocation and GPS status, in real time simply by adding the appropriate filters available on the page.

CAN BUS DATA

This is the landing page where you can check daily usage, CAN BUS data, and even investigate any current active events for all the machines in your fleet.

The MyMagni system is available on an option on all Tr models.



ENGINE

- Engine Hours / Total Vehicle Hours
- Engine Total Fuel Used
- Engine Coolant Temperature
- Engine Oil Temperature
- Engine Oil Level & Pressure



LOAD / BOOM POSITION

- Current Boom length & Height
- Actual load & current max. load
- Machine load
- Max. load capacity
- Boom vibration



MACHINE CHECK-UP

- Vehicle speed and direction
- Gear engaged & GPR level
- Working mode & Tool configuration
- Post-treatment Diesel exhaust fluid tank level
- Battery voltage

STABILISERS

Models with a maximum lifting height of more than 10 m feature standard front pivoting stabilisers. This solution ensures better performance and greater stability when lifting. When stabilisers are closed they do not protrude from the outline of the machine, facilitating movements and manoeuvring operations. The large contact surface of each foot ensures maximum grip on any kind of ground, guaranteeing optimal stability.

The kind of stabilisers is such to position, when working on slopes or irregular ground, just one button press allows you to automatically level the machine. An electronic level detects the machine's inclination and brings it back to the horizontal. An electronic level on the display allows you to monitor the loading at all times.

TH 5,5.15 P / TH 5,5.15
TH 5,5.19 P / TH 5,5.19
TH 5,5.24 / TH 6.20



USE OF THE PLATFORM



All models from 75 kW to 100 kW can be coupled with our man platforms.

These models comply with EN 1499-1, allowing for total safety of the platform when staying at altitude.

All baskets also feature removable foot anchoring systems and electronic safety devices allowing for consistent maneuvering when staying at altitude. Contact your local dealer to check the compatibility of all our models.

LOAD MOMENT INDICATOR

In order to ensure maximum safety, all machines in the TH range meet and just standards for lift trucks, cranes and aerial work platforms. All Hyster telescopic handlers are equipped with a Load Limit Device (LLD). The LLD stores specific load charts for each attachment and continuously analyses the actual positioning of the load, dynamically displaying the correct load effort based on the machine's working configuration. If an overload occurs, it automatically stops any movement which would aggravate the situation, allowing only retraction.

1 LOAD WEIGHT DETECTION

Detection via 4 pressure transducers: 2 installed on the lifting cylinders and 2 on the retraction cylinder.

2 ANTI ROLL-OVER

It automatically limits the machine's speed and heavy oscillations.



3 ANGLE/LENGTH TRANSDUCER

This device detects the length of the boom and the corresponding angle of inclination from the ground.

4 FLASHING LIGHT

The steady red light and the buzzer send a visual and acoustic signal to all people nearby the machine.

5 DIGITAL INCLINOMETER

This device updates the weight reading according to the inclination of the machine.

6 POSITION DETECTION OF THE STABILISERS

The TH 5.5.15, TH 5.5.19, TH 5.5.24 and TH 6.20 models feature stabilisers with sensors which detect their extension. When stabilisation is completed, the load effort is automatically updated, providing full load capacity to the machine.



Constant analysis of the load







TECHNICAL DATA

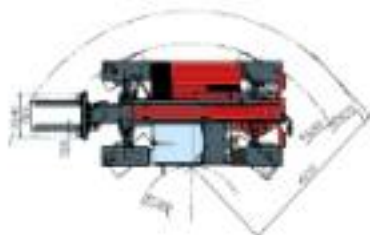


TH RANGE

TECHNICAL DATA TH 5.8 P / TH 5.8 INDUSTRIAL VERSION

Machine model	TH 5.8 P		TH 5.8	
	TH 5.8 P		TH 5.8	
Maximum lifting capacity	5.000 kg center of gravity 800 mm		5.000 kg center of gravity 800 mm	
Maximum lifting height	7.80 m		7.80 m	
Engine	Type	Deutz TCD 2.6 L4 range V	Deutz TCD 2.6 L4 range V	Deutz TCD 2.6 L4 range V
	Rated power	74.4 kW (101.2 hp) @ 1.300 rpm	55.4 kW (75.2 hp) @ 1.300 rpm	
	Maximum torque	410 Nm @ 1.200 rpm	410 Nm @ 1.200 rpm	410 Nm @ 1.200 rpm
	Cooling system	Water	Water	Water
	Engine configuration	3-cyl. direct injection turbocharged	3-cyl. direct injection turbocharged	
Transmission	Type	Hydrostatic	Hydrostatic	
	Mode	Shift selector	Shift selector	
	Maximum pressure	470 bar	470 bar	
	Displacement	3-cyl. direct injection 40 valves 2.600 cm³	3-cyl. direct injection 40 valves 2.600 cm³	
	Gearbox	Direct, 3 speeds forward-reverse	Direct, 3 speeds forward-reverse	
Axles and brakes	Type	Hydrostatic	Hydrostatic	
	Mode	Shift selector	Shift selector	
	Maximum pressure	470 bar	470 bar	
	Displacement	3-cyl. direct injection 40 valves 2.600 cm³	3-cyl. direct injection 40 valves 2.600 cm³	
	Gearbox	Direct, 3 speeds forward-reverse	Direct, 3 speeds forward-reverse	
Performance	Type	Hydrostatic	Hydrostatic	
	Mode	Shift selector	Shift selector	
	Maximum pressure	470 bar	470 bar	
	Displacement	3-cyl. direct injection 40 valves 2.600 cm³	3-cyl. direct injection 40 valves 2.600 cm³	
	Gearbox	Direct, 3 speeds forward-reverse	Direct, 3 speeds forward-reverse	
Weights	Type	Hydrostatic	Hydrostatic	
	Mode	Shift selector	Shift selector	
	Maximum pressure	470 bar	470 bar	
	Displacement	3-cyl. direct injection 40 valves 2.600 cm³	3-cyl. direct injection 40 valves 2.600 cm³	
	Gearbox	Direct, 3 speeds forward-reverse	Direct, 3 speeds forward-reverse	
Tank and system capacities	Type	Hydrostatic	Hydrostatic	
	Mode	Shift selector	Shift selector	
	Maximum pressure	470 bar	470 bar	
	Displacement	3-cyl. direct injection 40 valves 2.600 cm³	3-cyl. direct injection 40 valves 2.600 cm³	
	Gearbox	Direct, 3 speeds forward-reverse	Direct, 3 speeds forward-reverse	
Standard	Type	Hydrostatic	Hydrostatic	
	Mode	Shift selector	Shift selector	
	Maximum pressure	470 bar	470 bar	
	Displacement	3-cyl. direct injection 40 valves 2.600 cm³	3-cyl. direct injection 40 valves 2.600 cm³	
	Gearbox	Direct, 3 speeds forward-reverse	Direct, 3 speeds forward-reverse	

Load chart on tyres



TH RANGE

TECHNICAL DATA TH 5.8 MINING

Machine model	Revised model	TH 5.8 MINING
	Maximum lifting capacity	5 000 kg (center of gravity 800 mm)
	Maximum lifting height	7.80 m
Engine	Type	Scania TCD 3A 14 600 Stage IIIA
	Rated power	74 kW / 101.2 hp @ 2 200 rpm
	Maximum torque	470 Nm @ 1 600 rpm
	Displacement	3.6
	Cylinders	4 in line
	Engine configuration	Direct injection turbocharged
	Cooling system	Water + thermostat
Transmission	Type	Hydraulic
	Mode	Power / Economy
	Maximum pressure	470 bar
	Displacement	Electronically controlled variable displacement pump (variable displacement motor)
Axles and brakes	Gear box	Orbital 2 speeds forward/reverse
	Type	Axle with planetary gearbox
	Reversals	Coasting and steering with steering + R
	Control	Steering
	Service brake	Hydraulically controlled with multi-disc brake on each axle
	Retarder brake	Hydraulic with negative effect
	Tyre dimensions	16.00 - 24
Performance	Max. travel speed	40 km/h
	Overturn pt.	70°/s
	Stability	100% full load complying to norm EN ISO 12449, 2nd category to norm EN ISO 14452
	Turning radius (at full offset)	5 070 mm
Weights	Full machine	8 000 kg
	Hydraulic water boom retracted and lowered	4 300 kg
	Reversal water boom retracted and lowered	4 270 kg
	Full tank	130
	AdBlue	-
Tank and system capacities	Hydraulic circuits	80
	Engine circuit	8
	Cooling fluid	30
	Max. operating system pressure	200 bar
	Overload	Load sensing
Hydraulic circuit for movements	Service pump	Bosch Rexroth - variable displacement
	Circuit for boom movements	Bosch Rexroth - electro-proportional valve
	Work arm drive	1 electro-Bosch with 4/3E solenoid and load meter solenoid valve - Management with CAN bus electronic
Standard met	EN 14697 concerning standards for variable hydraulic	
	EN 12000 concerning standards for mobile cranes	
	ROPS Lema 3 / ROPS	
	CE 2015/1018 concerning engine emissions standards	
	Directive 2015 concerning standards for mobile working vehicles performance	

Load chart on tyres



The 3153 series model also includes the following equipment and arrangements as standard:

CONTROL SYSTEM AND ALARMS

- Stability Control (SC) system (static capacity limited)

GENERAL PROTECTIONS

- Machine lights and strobe lights on all sides of the cabin and under the roof of the cabin roof
- Exhaust Gas (CO) ppm (carbon monoxide) converter

ERGONOMICS, ACCESSIBILITY AND VISIBILITY

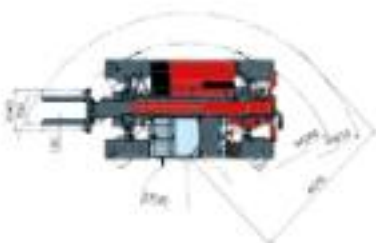
- Work lights: 2 LED lights on the arm of 2,000 LUX and 1 front and 1 side beam of 14,000 LUX
- Forward / Reverse illuminated lights (mounted on all side rods and on all frame light)
- Air conditioning

INSULATION & SAFETY:

- Emergency stop buttons: 1 inside the cabin and 2 outside
- Double battery and charging indicators
- Fuel isolation valve
- Emergency parking brake located inside the engine compartment
- 2 external powder extinguishers of 6kg each

ADDITIONAL EQUIPMENT:

- Indicators on rear of boom (left)
- Easy Connect system: flexible hydraulic hoses for low section with the attachment
- 2 wheel chocks
- Locking of boom cylinder



TH RANGE

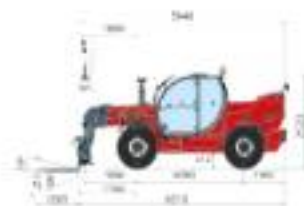
TECHNICAL DATA TH 6.10 P / TH 6.10

Machine model	Telexcel 6.10 P		TH 6.10 P		TH 6.10	
	Maximum lifting capacity		6 000 kg (center of gravity 500 mm)		6 000 kg (center of gravity 500 mm)	
	Maximum lifting height		6.70 m		6.70 m	
	Type		Stage 1/2 20.1A stage V	Stage 1/2 20.1A stage V	Stage 1/2 20.1A stage V	Stage 1/2 20.1A stage V
Engine	Rated power		74.4 kW / 101.2 hp @ 2 000 rpm		55.4 kW / 75.2 hp @ 2 000 rpm	
	Maximum torque		470 Nm @ 1 200 rpm		400 Nm @ 1 200 rpm	
	Displacement		2.8		2.8	
	Cylinders		4 in line		4 in line	
	Engine configuration		Diesel direct injection turbocharged		Diesel direct injection turbocharged	
	Cooling system		Water - radiator		Water - radiator	
Transmission	Type		Hydrostatic		Hydrostatic	
	Mode		Select / Revert		Select / Revert	
	Maximum pressure		470 bar		470 bar	
	Displacement		Electronically controlled variable displacement pump		Electronically controlled variable displacement pump	
	Gear box		Orbital, 3 speeds forward-reverse		Orbital, 3 speeds forward-reverse	
	Type		Axle with planetary gearbox		Axle with planetary gearbox	
Axles and brakes	Rear axle		Self-aligning steering with hydraulic steering		Self-aligning steering with hydraulic steering	
	Front axle		Self-aligning steering with steering on 2°		Self-aligning steering with steering on 2°	
	Service brake		Hydraulically operated wet multi-disc brakes on each axle		Hydraulically operated wet multi-disc brakes on each axle	
	Parking brake		Hydraulic with regeneration		Hydraulic with regeneration	
Performance	Type dimensions		440-22-201.0		440-22-201.0	
	Max. travel speed		22 km/h		22 km/h	
	Excavator boom		7.5 m		7.5 m	
	Grapple		224		224	
Weights	Turning radius (mm offset)		6 200 mm		6 200 mm	
	Dry weight		12 000 kg		12 000 kg	
	Front axle (excavator boom retracted and folded)		4 200 kg		4 200 kg	
	Rear axle (excavator boom retracted and folded)		7 700 kg		7 700 kg	
Tank and system capacities	Fuel tank		140		140	
	Coolant		12.4		12.4	
	Hydraulic oil tank		50		50	
	Engine oil tank		8		8	
	Cooling oil		10		10	
	Max. operating system pressure		330 bar		330 bar	
Hydraulic circuit for movements	Circuit type		Load sensing		Load sensing	
	Service pump		Carbosil / Revert - Variable displacement		Carbosil / Revert - Variable displacement	
	Circuit for boom movement		Service & Revert		Service & Revert	
	Work mode control		1 joystick / Carbofil with full pump and load meter safety / Service / Management with Q45 hydraulic technology		1 joystick / Carbofil with full pump and load meter safety / Service / Management with Q45 hydraulic technology	

EN 10359 concerning standards for variable load pumps
 EN 12033 concerning standards for mobile cranes
 EN 12034 concerning standards for mobile cranes with variable load
 ISO 15550 concerning engine emissions standards

Powertrain for models with Stage II and Stage I engine

Load chart on tyres
with locked axles

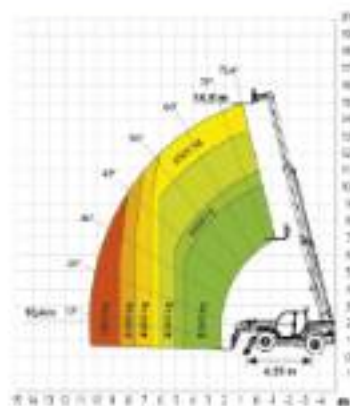


TECHNICAL DATA **TH 5.5.15 P/ TH 5.5.15**

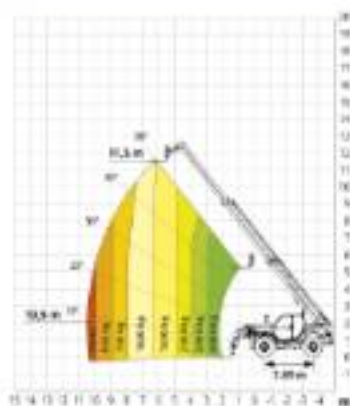
Machine model	Telescopier height	T4.55-15 P			T4.55-15		
		Maximum digging capacity: 5,000 kg (range of gravity: 500 mm)			5,000 kg (range of gravity: 500 mm)		
		14,620 mm			14,620 mm		
	Turn	Swing 120° 30.14°/stage V	Swing 120° 30.14°/stage V	Swing 120° 30.14°/stage V	Swing 120° 30.14°/stage V	Swing 120° 30.14°/stage V	Swing 120° 30.14°/stage V
	Revol cover	744 mm / 29.29 in @ 1,000 mm			554 mm / 21.81 in @ 1,000 mm		
Engine	Maximum torque	470 Nm @ 1,300 rpm			455 Nm @ 1,300 rpm		
	Displacement	3.5 L			3.5 L		
	Cylinder	6-cyl. in-line			6-cyl. in-line		
	Engine configuration	Diesel, street, turbo-charged, turbo-charged			Diesel, street, turbo-charged, turbo-charged		
	Cooling system	water-cooled			water-cooled		
Transmission	Type	Hydrostatic			Hydrostatic		
	Mode	Gear, Reverser			Gear, Reverser		
	Maximum structure	470 bar			470 bar		
	Displacement	Electrically controlled variable displacement pump			Electrically controlled variable displacement pump		
	Swing rate	Forward: 1 speed forward-reverse			Forward: 1 speed forward-reverse		
	Type	Hydrostatic, planetary, planetary			Hydrostatic, planetary, planetary		
Axles and brakes	Features	Gear pump and steering with hydraulic control			Gear pump and steering with hydraulic control		
	Control	Gear pump and steering with steering 4+2			Gear pump and steering with steering 4+2		
	Service brake	Hydrostatic control and multi-disc brake			Hydrostatic control and multi-disc brake		
	Reversing brake	Hydrostatic control and multi-disc brake			Hydrostatic control and multi-disc brake		
Performance	Type	445-55 P21.5			445-55 P21.5		
	Max. travel speed	33 km/h			33 km/h		
	Swing rate	75°/s			75°/s		
	Swing rate	140°/s			140°/s		
	Turning radius (at 100 km/h)	5.8/2.2 mm			5.8/2.2 mm		
	Turn radius	12,000 mm			12,000 mm		
Weights	Formal weight (boom retracted and lowered)	1,000 kg			1,000 kg		
	Formal weight (boom retracted and lowered)	1,000 kg			1,000 kg		
	Full turn	140			140		
	Full turn	140			140		
Tank and system capacities	Hydraulic oil tank	10 L			10 L		
	Hydraulic oil tank	10 L			10 L		
	Engine oil tank	10 L			10 L		
	Cooling oil tank	10 L			10 L		
	Max. working pressure (bar)	320 bar			320 bar		
	Control type	Load sensing			Load sensing		
Hydraulic circuit for movements	Service pump	Sinter & Pumps - variable displacement			Sinter & Pumps - variable displacement		
	Control for boom movements	Sinter & Pumps - variable displacement			Sinter & Pumps - variable displacement		
	Control for boom movements	Sinter & Pumps - variable displacement			Sinter & Pumps - variable displacement		
	Control for boom movements	Sinter & Pumps - variable displacement			Sinter & Pumps - variable displacement		
	Volume control	Load sensing			Load sensing		

^a Values are given for the mean and standard deviation of the sample.

Load chart on stabilizers



Load chart on tyres



TH RANGE

TECHNICAL DATA TH 5,5.19 P / TH 5,5.19

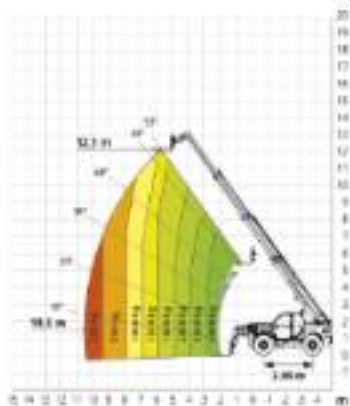
Machine model	TH 5,5.19 P			TH 5,5.19		
	TH 5,5.19 P			TH 5,5.19		
Maximum lifting capacity	3.000 kg center of gravity 500 mm			3.000 kg center of gravity 500 mm		
Maximum lifting height	13.50 m			13.50 m		
Type	Boom TCO	Boom TCO	Boom TCO	Boom TCO	Boom TCO	Boom TCO
	3.0 t 14°	3.0 t 14°	3.0 t 14°	3.0 t 14°	3.0 t 14°	3.0 t 14°
	3.0 t 14°	3.0 t 14°	3.0 t 14°	3.0 t 14°	3.0 t 14°	3.0 t 14°
	3.0 t 14°	3.0 t 14°	3.0 t 14°	3.0 t 14°	3.0 t 14°	3.0 t 14°
Engine	TH 5,5.19 P 2.000 cc 1.000 rpm			TH 5,5.19 2.000 cc 1.000 rpm		
	410 kW @ 1.000 rpm			410 kW @ 1.000 rpm		
	1.000 rpm			1.000 rpm		
	1.000 rpm			1.000 rpm		
Cylinders	4			4		
Engine configuration	Diesel direct injection turbocharged			Diesel direct injection turbocharged		
Cooling system	Water - fan cooled			Water - fan cooled		
Type	Hydraulic			Hydraulic		
Mode	Boom function			Boom function		
Transmission	470 gear			470 gear		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
Axles and brakes	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
Performance	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
Weights	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
Tank and system capacities	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
Hydraulic circuits for measurements	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
Standard met	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		
	Automatic 3 speeds forward reverse			Automatic 3 speeds forward reverse		

*Necessary only for models with 3000 cc (1000 rpm)

Load chart on stabilizers



Load chart on tyres



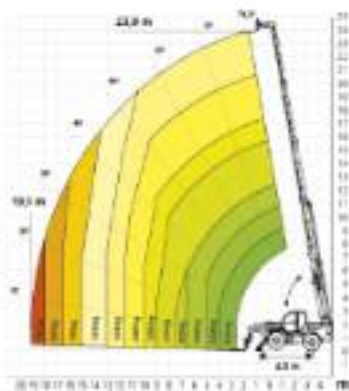
TH RANGE

TECHNICAL DATA TH 5,5.24

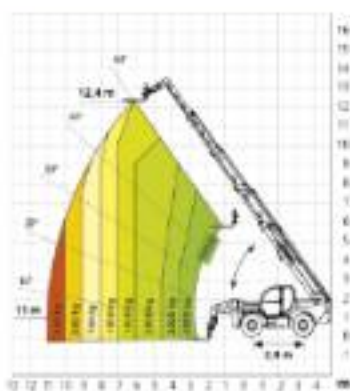
Machine model	Technical features		TH 5,5.24	
	Maximum lifting capacity	3.000 kg (series of gears 300 mm)		
	Maximum lifting height	22,90 m		
Engine	Type	Deutz TCD 3.6 L4 Stage V	Deutz TCD 3.6 L4 Stage IV	Deutz TCD 3.6 L4 Stage IIIA
	Rated power	100 kW/136 hp at 2.200 rpm		
	Maximum torque	800 Nm at 1.800 rpm		
	Displacement	3,6 l		
	Cylinders	4 in line		
	Engine configuration	Diesel direct injection turbocharged		
Transmission	Cooling system	Water + intercooler		
	Type	Hydrostatic		
	Mode	Gear Reverser		
	Maximum pressure	470 bar		
	Displacement	Electronically controlled hydro displacement pump		
	Gearbox	Shuttle, 3 speeds forward/reverse		
Axles and brakes	Type	4x4x4 with planetary gearboxes		
	Reverser	Gear shifting and steering with hydraulic control		
	Drum brake	Gear shifting and steering with locking 4x2		
	Service brake	Hydraulically operated with multi-disc brakes on each axle		
	Reverser brake	Hydraulic with negative action		
	Turning moment	445 000 Nm		
Performance	Max travel speed	40 km/h		
	Max travel	75 m		
	Gradeability	47%		
	Turning radius (at full load)	9.800 mm		
Weights	Total machine	11.000 kg		
	Front axle (laden boom retracted and lowered)	7.300 kg		
	Rear axle (laden boom retracted and lowered)	3.600 kg		
Tank and system capacities	Fuel tank	100 l		
	Hydraulic	12 m		
	Hydraulic tank	140 l		
	Engine oil tank	6 l		
	Cooling liquid	20 l		
	Max. operating system pressure	250 bar		
Hydraulic circuit for measurements	Overload	Load sensing		
	Service pump	Barflex / Reverser + service displacement		
	Control for boom movements	Barflex + 60.1 Electro-proportional valve		
	Control for stabilizers	Gear Reverser + Electrohydraulic actuators		
	Movements control	Flow in Barflex with P&ID sensor and load meter sensor device - Management with CAN bus technology		
Standard met	EN 14001 concerning standards for vehicle safety issues			
	EN 12000 concerning standards for noise emission			
	EN 1200 concerning standards for mobile working work platforms			
	CEP/CEM/CEP/CEM			
	UE 2015/258 concerning engine emission standards			

Technical data for models with Stage V and Stage IV

Load chart on stabilizers



Load chart on tyres



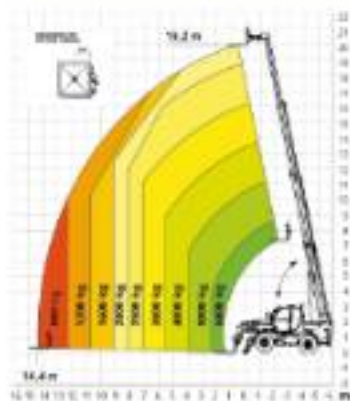
TH RANGE

TECHNICAL DATA TH 6.20

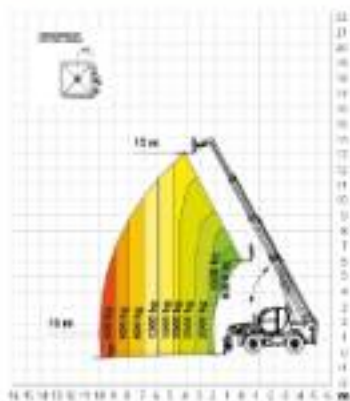
Machine model	TH 6.20	
	TH 6.20	
	Maximum lifting capacity	
	6.000 kg (center of gravity 600 mm)	
	Maximum lifting height	
	9.20 m	
Engine	Type	Deutz TCD 3.6 (4 Stage V Deutz TCD 3.6 (4 Stage IV Deutz TCD 3.6 (4 Stage IIIA
	Rated power	100 kW (136 hp) @ 1.800 rpm
	Maximum torque	600 Nm @ 1.400 rpm
	Displacement	3.6
	Cylinders	4 in line
	Engine configuration	Water-cooled, turbocharged
Transmission	Cooling system	Water + fan-cooler
	Type	Automatic
	Mode	Power-Shift
	Maximum pressure	440 bar
Axles and brakes	Displacement	Electronic, controlled, variable displacement, 100 bar, 100 bar, 100 bar
	Gear box	Dropbox, 1 speed forward-reverse
	Type	Fixed with planetary gearbox
	Brakes	Oil-spring and steering with hydraulic disc
Performance	Power take	Oil-spring and steering with hydraulic disc
	Service brake	Hydraulic, controlled with multi-disc brake on each axle
	Retard brake	Hydraulic with negative action
	Type dimensions	440-65-1100
Weights	Max. fuel tank	40 l/h
	Displacement	10 l/h
	Capacity	100
	Turning radius (m) of final	6.000 mm
Tank and system capacities	Flow (l/min)	14.400 l/g
	Power take (l/min) (connected and closed)	3.600 l/g
	Retard (l/min) (connected and closed)	3.600 l/g
	Fuel tank	100
Hydraulic circuit for movements	Oil flow	10 l/h
	Hydraulic circuit	140
	Engine power	0
	Cooling fluid	10
Standard met	Max. operating system pressure	200 bar
	Control type	Load sensing
	Service brake	Service + Retard + Variable displacement
	Retard for push movements	Service + Retard + Variable displacement
Standard met	Control for push movements	Service + Retard + Variable displacement
	Management control	7 points + Service + Retard + Variable displacement + Safety device + Management + Oil out + Retard
	Oil out	Oil out
	Oil out	Oil out
	Oil out	Oil out

Technical data for machine with Stage V and Stage IV

Load chart on stabilizers



Load chart on tyres



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