WACKER NEUSON
all it takes!

Telehandlers

up to 6 m lifting height

Wacker Neuson – all it takes!

Invest in the future.

Set your sights on high-quality construction machines and equipment with Wacker Neuson, which you can rely on for decades - with a consistently high resale value. With over 175 years' history, we are building on a strong foundation and we are proud of innovations, which have revolutionized the entire industry. Innovation is in our DNA - benefit from this and set yourself up for the future!

Experience more:
wackerneuson.com

Rely on a partnership on equal footing, very close by.

Our global network of sales and service stations makes Wacker Neuson a partner with whom you can collaborate with on-site on equal footing. We are here to listen to you, to understand you, and to solve your problems together with you. Set your sights on having a strong partner by your side, who will help you to position yourself ahead of the competition.

Bring even more efficiency to your construction site.

Wacker Neuson ensures a maximization in productivity and a minimization in costs – with high-quality products, reliable solutions, and support that guarantees smooth operation on the construction site.

Contents.

Compact and powerful.

The electric-driven telehandler TH412e.

	TH412e
Payload (max.) kg	1,250
Stacking height (max.) mm	4,301
Operating weight kg	2,750–3,100*
Motor drive hydraulics (ECE R085) kW	33.1
Motor work hydraulics (ECE R085) kW	21.2

* Values of optional outfitting

Electric, environment-friendly, powerful - the TH412e.

The TH412e is the first all-electric telehandler by Wacker Neuson. Its performance features are comparable to those of a conventional diesel-driven machine. The installed 96 Volt lithium-ion battery is available in two power capacities so that it is possible to ideally coordinate the running and charging times to the work requirements. The TH412e works on-site completely exhaust free and with significantly lower noise emissions. For the end user, this means greater flexibility in application, environmental protection and significant savings with operating costs. As a result, features such as compact dimensions, all wheel steering, low center of gravity, and excellent stability are likewise true of the electrically-driven machine.

Performance

- Two separate electric motors, one for the drive system and one for the work hydraulics, allow for power to be accessed when needed and minimize power consumption
- The power of the TH412e corresponds to the power of the diesel-driven telehandler TH412
- Two maintenance-free lithium-ion battery versions available: standard battery (18 kWh gross battery capacity) and optional battery (28 kWh gross battery capacity)
- Travel speed up to 25 km/h (optional)
- VLS (Vertical Lift System) with three modes: bucket, stacking, and manual mode

Safety

- Electric parking brake with Auto-hold and Hill-hold function for maximum safety and comfort
- Integrated Battery Management System (BMS) makes handling the machine extremely safe
- Low-drawn windows guarantee the best all-round visibility, the large roof window ensures an ideal view upwards
- LED headlights provide good illumination of the working area, even in the dark
- The blue safety light improves safety for other people and vehicles within the surrounding area

Comfort

- Completely enclosed cabin with a well thought-out heating design guarantees all-year-round application (e.g. even for winter service)
- Comfortable operator's seat, optional air suspension, and heated seat
- Integrated charger "on-board" and different charging plugs enable simple, flexible, and safe charging
- Type 2 plug on the machine (familiar from the automotive industry) for maximum compatibility with the existing charging infrastructure

TH412e

Efficiency

- Energy recovery through recuperation
- ECO mode for longer driving routes to extend the battery running time
- Compact dimensions
- Flexible intermediate charges possible at any time (no memory effect)
- Reduced service costs compared to the conventional diesel drive

Power and sustainability combined.

With the same power as usual drive systems, the all-electric telehandler emits little noise and is 100% emission-free on-site. This protects the operator and the working environment.

Sustainability meets performance:
the electric-driven telehandler TH412e.

Battery Management System (BMS).

The integrated Battery Management System (BMS) monitors and protects the 96 V lithium-ion battery, increases efficiency and safety, and excludes a deep discharge.

On-board battery charger.

A 3 kW on-board battery charger is installed in the machine as standard. It is optionally possible to install a second 3 kW on-board battery charger to increase the power total to 6 kW. With this it is possible to achieve a clearly faster charging time.

Optimized cabin.

The TH412e cabin enables comfortable, all-year-round use of the machine, e.g. even during winter service. It has been optimized to the requirements of the operator, provides many new features and enables a safe and comfortable working environment. Despite its compact design, it provides sufficient space for the operator and thanks to the low-drawn windows and the flat sloping engine hood the all-round view is excellent.

Flexible charging options.

The charging flap is easily accessed on the rear of the machine. Behind this are the socket, activation switch, and the charge display. The charging cable (type 2 plug on the machine) is available with a number of different plugs: 230 V / 10 A Schuko, 230 V / 16 A CEE (blue, 3-pole), 400 V / 16 A CEE (red, three-phase current, 5-pole), 400 V/16 A (type 2 plug Wallbox, IEC 62196) and other adapter plugs.

Small power package:
the telehandler TH412.

	TH412
Payload (max.) kg	1,250
Stacking height (max.) mm	4,301
Engine output kW	18.4 / 33.3*
Operating weight kg	2,750–2,900*

* Values of optional outfitting

Telehandler TH412: compact and powerful.

All-wheel steering, low center of gravity and excellent stability define the telehandler TH412. The integrated driver assistance system VLS (Vertical Lift System) ensures safety and also increases the operating comfort. The electronically regulated drive system with various drive modes enables extremely productive work with the machine.

Comfort

- Cabin with generous provision of space and an optimized overview
- Ergonomic joystick
- Color-oriented operating concept and modern operating philosophy for fatigue-free working
- Even more comfort through features like the armrest with an integrated compartment, optimized heating and ventilations, as well as optional air-conditioning system

Efficiency

- The electronic regulation reduces loss in the drive system and ensures a higher efficiency rate and increased efficiency
- The electric parking brake offers both an Auto-hold function and a Hill-hold function
- VLS (Vertical Lift System)
- 3 cylinder common rail standard engine (18.4 kW / 25 hp) with high torque and without exhaust after-treatment
- 3 types of steering for maximum flexibility
- Optional trailer coupling

Safety

- All operating elements are within reach
- The most important machine information is always in view with the ideally positioned display
- The switches and operating elements are categorized by color into different groups: gray = electric, red = safety, blue/orange = drive system, green = hydraulics
- Excellent all-round visibility: cabin and window are constructed in such a way that the operator always has the load in view, even at maximum lift height

Performance

- Optimized ratio of lift height, compact dimensions and powerful machine performance
- Optional engine (33.3 kW / 45.3 hp) for professional application of power-demanding attachments. The emission standard stage V is implemented by installing a diesel particulate filter (DPF) in combination with a diesel oxidation catalyst (DOC). Urea solution (DEF) does not need to be added with this technology
- 30 km/h speed with optional engine version

Ergonomics and comfort.

The cabin is captivating with its generous provision of space, optimized overview, and perfect ergonomics. The arrangement of the cabin elements consistently follows a modern operating philosophy for efficient and fatigue-free work. Features such as the armrest with its integrated storage compartment, sun-blind, optimized heating system and ventilation, as well as the optional air-conditioning system also ensure an extraordinary level of comfort.

Compact and also extremely efficient.

The TH412 for high performance with small dimensions.

Flexibility and efficiency.

More efficient electronically regulated drive system with various drive modes. Included as standard: In auto-mode, the machine makes 100% of the performance available. The ECO mode optimizes the rpm for the greatest possible fuel-saving and reduction in noise. A further drive mode can also be optionally selected: in attachment mode, the performance of the attachment is constantly maintained with changing loads. In M-drive mode, the engine speed can be specified and the travel speed can be controlled using the drive pedal.

Efficient lifting and lowering.

Work efficiently with the highest level of safety – with the operator assistance system VLS (Vertical Lift System) you can master this challenge with ease. The smooth and rapid lifting and lowering of the telescopic arm with its simultaneous semi-automatic telescopic movement allows even less-experienced operators to operate based on fluid working principles. The almost vertical lifting and lowering movement also makes the telehandlers very stable since the load does not reach the overload range.

Optimum ease of servicing.

The engine hood can be opened wide with just one hand movement for regular servicing and maintenance works. Hydraulic oil tank, air filter, engine oil top-up, oil dipstick and coolant are therefore both easily and quickly accessible.

Cost-efficient and powerful
telehandler TH625.

	TH625
Payload (max.) kg	2,500
Stacking height (max.) mm	5,767
Engine output kW	45/ 55*
Operating weight kg	4,650

* Values of optional outfitting

Telehandler TH625: Unites power and maneuverability.

The TH625 is the compact power-package with 6 m lift height and a payload of 2.5 t. The TH625 combines power, reliable hydraulics, and compact dimensions with developed technology and an excellent price-performance ratio.

Efficiency

- The VLS (Vertical Lift System) is an operator assistance system, which semi-automates the retraction and extension of the telescopic arm when lifting without the need for the operator to also control the telescopic function
- 3 steering modes: all-wheel steering, front axle steering, crab steering
- Thanks to the hydraulic quick-change system (optional), attachments can be readily exchanged. Your machine is therefore always ready for use
- The telehandlers are frequently used in the field of material handling with a pallet fork and bucket. The machine was configured especially for these work tasks. This enables an extremely attractive entry-level price

Comfort

- Load arm damping with automatic function enables the machine's optimal handling on uneven terrain and while driving on the road
- The button for the pressure discharge is easy to access outside on the telescopic arm. In this way, different hydraulic attachments can be replaced even faster and more efficiently
- Entry area close to the ground for easy entry and exit
- The optional 7-inch display combined with the Jog Dial control element and an ergonomic joystick ensure efficient and comfortable operation of the machine

Performance

- Power Drive drive system: variable hydrostatic transmission enables high tractive force and travel speeds
- Connectible 100% differential lock
- The machine optionally reaches a speed of 35 km/h. This enables faster travel from A to B with a corresponding time-saving, therefore increasing productivity
- Flow Sharing enables the operation of several functions under constant hydraulic pressure. This enables simultaneous work movements, such as lifting/lowering the attachment and rolling in/out in parallel

Quality

- The long-life powder-coating guarantees value stability
- The telescopic arm is designed to be sturdy and stable, and is located in the center of the machine, which counteracts distortion. The parallel guidance takes place hydraulically and the sliding components in the inner tube of the telescopic arm are maintenance-free. This reduces wear and increases the service life of the machine

A multi-tool for different applications.

Regardless of whether transporting, sweeping, stacking or pushing: thanks to the enormously large number of attachments, your telehandler will become a universal tool carrier.

Ergonomics and work comfort that are captivating.

Excellent all-round visibility.

The TH625 cabin provides an excellent overview of the attachment, the immediate working area, and the entire machine surroundings. The low side window on the right and the high seat position combined with the sloping engine hood ensure optimum visibility. This increases safety in the entire working area of the machine.

Thanks to the wide front and roof window, there is always an upward view of the attachment. This is particularly important when working effectively and safely at height with the telehandler.

Automatic bucket return with vibratory function.

The automatic bucket return therefore offers added comfort, precision, and speed for the operator for recurring work, such as stacking works or filling bins at fixed heights or sides. The vibratory function makes it easier to tip out bulk material, which can often remain stuck in the bucket.

Electronically controlled drive system Smarter driving and working!

With the electronically controlled drive system the machine can be driven and used properly. Auto mode and Eco mode are always available as standard. M-Drive mode can also be optionally selected. This provides maximum flexibility as the machine can be configured to individual requirements. The electronic regulation reduces loss in the drive system and ensures a higher efficiency rate and increased efficiency.

Attachments (selection).

4-in-1 bucket
(with ripper teeth)

Light materials bucket

Waste container

Grab bucket

Cutter

Pallet fork

Pallet fork
(fold-over)

Pallet fork
(hydraulically adjustable)

Surface planer

Pot grabber

Hedge trimmer

Mulcher

Branch cutter

V-shaped snowplow

Salt/gravel spreader
(70, 110, 170)

Sweeper

Flail mower
with collection tray

Earth auger

Learn more about our attachments here:
www.wackerneuson.com/attachments

Hydraulic equipment change directly from the operator's seat.

For all telehandlers from Wacker Neuson, many other attachment carriers are possible in addition to your own attachment carriers. You can therefore use different attachments. You can find more information at your Wacker Neuson distributor.

Tire treads.

The right telehandler tires play an important role in specific applications. Everything runs perfectly if the tires are optimally matched to the ground surface and application area. Five treads are available for you to choose from.

The exact specifications and availabilities of tires differ depending on the model and country. Your Wacker Neuson partner is happy to help you.

RP tread (turf)
- Gentle travel on the ground due to the large contact surface
- For application on lawns and green areas

AS tread (tractor)
- Tapered lamellas
- For smeary and very dirty surfaces
- For earthworks, green areas (and loamy ground)

EM tread (earth moving)
- Parallel-running lamellas
- Large contact surface and therefore good thrusting force transmission and high running smoothness on the street
- For earthworks, sand, gravel, crushed stone, asphalt

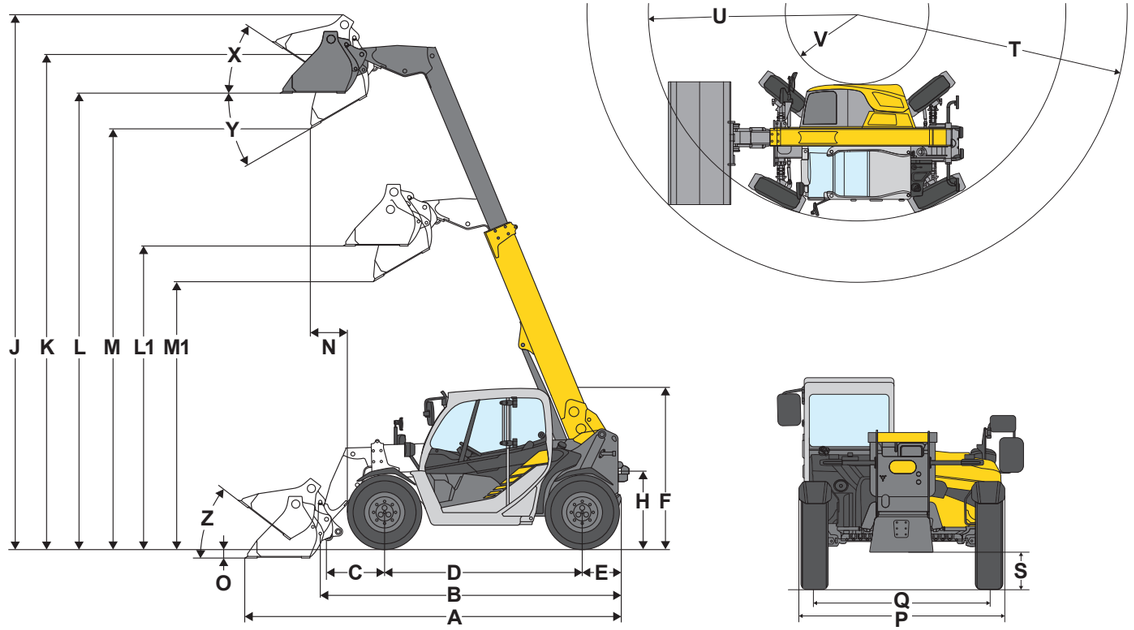
MPT tread (industry)
- Very broad application spectrum
- Good traction in uneven ground conditions
- Allows for quick road crossings
- For asphalt, gravel, crushed stone, industry

SureTrax tread
- Large contact area
- High load-bearing capacity
- Ideal for paved and other hard surfaces
- For asphalt, paving stones, hard and firm ground

Dimensions.

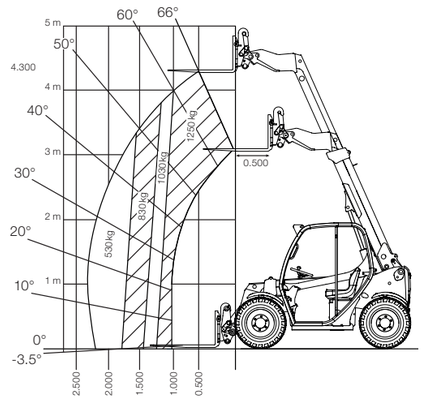
		Unit	TH412e	TH412	TH625
	Standard tires		10.0/75–15.3 AS	10.0/75–15.3 AS	10.5/80–18 BKT AS ET17
A	**Overall length**	**mm**	3,944	3,944	4,665
B	**Total length without bucket**	**mm**	2,991	2,991	3,887
C	**Bucket pivot point (to center of axle)**	**mm**	450	450	720
D	**Wheel base**	**mm**	1,922	1,922	2,449
E	**Rear overhang**	**mm**	427	427	487
F	**Height with cabin**	**mm**	1,995	1,995	1,995
H	**Seat height**	**mm**	983	978	957
J	**Total working height**	**mm**	5,280	5,280	6,618
K	**Bucket pivotal point (max. lift height)**	**mm**	4,537	4,537	6,123
L1	**Overhead loading height telescopic arm retracted**	**mm**	2,949	2,949	3,747
L	**Overhead loading height telescopic arm extended**	**mm**	4,163	4,163	5,642
M1	**Dumping height telescopic arm retracted**	**mm**	2,415	2,415	3,307
M	**Dumping height telescopic arm extended**	**mm**	3,630	3,630	5,201
N	**Reach (with M)**	**mm**	557	557	454
O	**Scraping depth**	**mm**	91	96	121
P	**Overall width**	**mm**	1,564	1,564	1,900
Q	**Track width**	**mm**	1,235	1,235	1,660
S	**Ground clearance**	**mm**	233	294	285
T	**Maximum radius**	**mm**	3,506	3,506	4,337
U	**Radius on the outer edge**	**mm**	2,695	2,695	3,347
V	**Inside radius**	**mm**	951	951	1,161
X	**Rollback angle at max. lift height**	**°**	52	52	34
Y	**Tipping angle**	**°**	31	31	30
Z	**Rollback angle on the ground**	**°**	44	44	38

Dimensions.

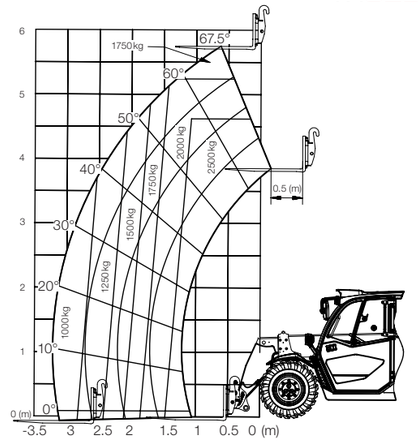


Payload diagrams.

TH412e / TH412



TH625



Technical data.

	Unit	TH412e	
Electric motor			
Engine drive hydraulics (ECE R085)	**kW**	33.1	
Engine work hydraulics (ECE R085)	**kW**	21.2	
Battery			
		Standard	Option
Battery type	**–**	Lithium-ion	Lithium-ion
Battery voltage	**V**	96	96
Battery capacity	**kWh**	18.0	28.0
Battery weight	**kg**	186	244
Charging time (0 – 100%)	**h**	3.2–7.5*	5.5–11.5*
Charging time (20 – 80%)	**h**	1.8*	2.7*
Running time up to	**h**	Up to 3.1**	Up to 5.2**
Weights			
Operating weight	**kg**	2,750–3,100	
Payload (max.)	**kg**	1,250	
Filling levels			
Tank capacity for hydraulic oil	**l**	36	
Drive			
Drive system	**–**	Electrical	
Travel speeds	**–**	2	
Travel speed (optional)	**km/h**	0–15 (20, 25)	
Hydraulic system			
Work hydraulics flow rate (max.)	**l/min**	41.6	
Work hydraulics working pressure (max.)	**bar**	220	
Steering system			
Steering type	**–**	Hydrostatic all-wheel steering with end position synchronization	
Steering lock max.	**°**	2x38	
Oscillating angle of the rear axle	**°**	+/- 7	
Steering cylinder	**–**	2	
Noise characteristic values			
Average sound power level LwA	**dB (A)**	85.7	
Guaranteed sound power level LwA	**dB (A)**	87	
Specified sound pressure level LpA	**dB (A)**	73	

* The charging time is dependent on the different charging options. On-board charger 3 kW (standard), with additional on-board charger total 6 kW (option). The following charging plug options are available: 230 V / 10 A Schuko, 230 V / 16 A CEE (blue, 3-pole), 400 V / 16 A CEE (red, three-phase current, 5-pole), 400 V / 16 A (Type 2 plug Wallbox, IEC 62196) and other adapter plugs.

** The running times of the battery are dependent on the respective application conditions, the job and the driving style. This may also mean that a longer running time can be achieved. The specified running times may also be undercut in extreme cases. The specified running times relate to uninterrupted operation and working with the machine.

Technical data.

	Unit	TH412		TH625
Engine data				
		Standard	Option	
Engine manufacturer	**–**	Yanmar	Yanmar	Perkins
Type of drive	**–**	3TNV80FT	3TNV86CHT	404J-E22T (404J-E22TA)
Engine output	**kW / hp**	18.4 / 25	33.3 / 45.3	45 / 61 (55 / 75)
Cylinders	**–**	3	3	4
at max. rpm	**rpm**	2,600	2,600	2,400
Displacement	**cm3**	1,226	1,568	2,216
Type of coolant	**–**	Water	Water	Water / charge air
Exhaust standard level	**–**	V	V	V
Exhaust after-treatment	**–**	–	DOC / DPF	DOC / DPF
Weights				
Operating weight	**kg**	2,750–2,900		4,650
Payload (max.)	**kg**	1,250		2,500
Filling levels				
Tank capacity for fuel	**l**	33		95
Tank capacity for hydraulic oil	**l**	36		29
Drive				
Drive system	**–**	Electronically controlled hydrostatic via universal joint shaft		Electronically controlled hydrostatic via universal joint shaft
Travel speeds	**–**	2		2
Travel speed (optional)	**km/h**	0–20 (30)		0–20 (25, 35)
Hydraulic system				
Drive hydraulics working pressure (max.)	**bar**	380		470
Work hydraulics flow rate (max.)	**l/min**	36.4 (41.6–70)		75
Work hydraulics working pressure (max.)	**bar**	220		250
Steering system				
Steering type	**–**	Hydrostatic all-wheel steering with end position synchronization		Hydrostatic all-wheel steering with end position synchronization
Steering lock max.	**°**	2x38		2x38
Oscillating angle of the rear axle	**°**	+/- 7		+/- 8
Steering cylinder	**–**	2		2
Noise characteristic values				
Average sound power level LwA	**dB (A)**	99.5–101.2		102.5
Guaranteed sound power level LwA	**dB (A)**	101–102		104
Specified sound pressure level LpA	**dB (A)**	84		79

Wacker Neuson – all it takes.


Concrete technology


Vibratory rammers

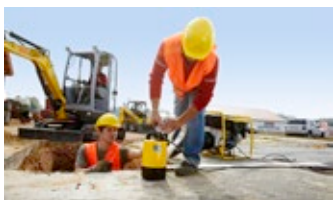

Vibratory plates


Rollers


Demolition technology


Generators


Lighting


Pumps


Excavators


Wheel loaders


Telehandlers


Dumpers

Financial solutions

Repair & Maintenance

Academy

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Concrete specialists

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02/2025 EN