



TH412

Telehandler

Compact and powerful

All wheel steering, low centre of gravity and excellent stability distinguish the TH412 telehandler. The integrated driver assistance system VLS (Vertical Lift System) ensures safety, while also increasing the operator comfort. The electronically regulated drive system with various operator modes enables an externally productive work operation with the machine. Thanks to its low operating weight and very compact dimensions, the TH412 can be transported on a car trailer without any problems. This makes its flexible for use in many different areas.

Highlights

- Electronically controlled drive system
- Electric parking brake
- VLS (Vertical Lift System)
- Colour-oriented operating concept
- Compact and powerful

Technical Data

Standard engine data

| | |
|--|-----------------------|
| Engine manufacturer | Yanmar |
| Motor type | 3TNV80FT |
| Cylinder | 3 |
| Drive output | 18.4 kW |
| Drive output | 25 PS |
| at max. rpm | 2,600 U/min |
| Cylinder capacity | 1,226 cm ³ |
| Type of coolant | Water |
| Exhaust standard level | V |
| Exhaust aftertreatment | - |
| Average sound power level LwA (cabin) | 93.5 dB(A) |
| Guaranteed sound power level LwA (cabin) | 94 dB(A) |
| Specified sound pressure level LpA (cabin) | 78 dB(A) |

Engine data Option 1

| | |
|---------------------|-----------|
| Engine manufacturer | Yanmar |
| Motor type | 3TNV86CHT |
| Cylinder | 3 |
| Drive output | 33.3 kW |
| Drive output | 45.3 PS |

| | |
|--|-----------------------|
| at max. rpm | 2,600 U/min |
| Cylinder capacity | 1,568 cm ³ |
| Type of coolant | Water |
| Exhaust standard level | V |
| Exhaust aftertreatment | DOC/DPF |
| Average sound power level LwA (cabin) | 94.1 dB(A) |
| Guaranteed sound power level LwA (cabin) | 95 dB(A) |
| Specified sound pressure level LpA (cabin) | 78 dB(A) |

Electrical system

| | |
|-------------------|-------|
| Operating voltage | 12 V |
| Battery | 77 Ah |
| Alternator | 80 A |

Weights

| | |
|------------------|------------------|
| Payload (max.) | 1,250 kg |
| Operating weight | 2,750 - 2,900 kg |

Driver's cab

| | |
|--------------|-----|
| Driver's cab | Cab |
|--------------|-----|

Filling levels

| | |
|---------------------------------|------|
| Tank capacity for fuel | 33 l |
| Tank capacity for hydraulic oil | 36 l |

■ Drive system

| | |
|-----------------------|--|
| Type of drive | electronically controlled |
| drive unit | hydrostatic via the transfer box and the drive shaft |
| Speed levels | 2 |
| Axle | PAL 1155 |
| Travel speed Standard | 0-20 km/h |
| Travel speed Option 1 | 0-30 km/h |
| Operating brake | Hydraulically operated disc brake on the front axle effective on the rear axle via the drive shaft |
| Parking brake | Electrical-hydraulic spring-loaded brake on the front axle, effective on the rear axle via the drive shaft |
| Differential lock | 100 % front axle + rear axle |

■ Hydraulic system

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| Drive hydraulics working pressure (max.) | 380 bar |
|--|---------|

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|---|----------------------|
| Work hydraulics discharge volume (max.) | 36,4 (41,6-70) l/min |
| Work hydraulics working pressure (max.) | 220 bar |

■ Kinematics

| | |
|---------------------|-----------|
| Lifting cylinder | 1 |
| Tipping cylinder | 1 |
| Quick change system | hydraulic |

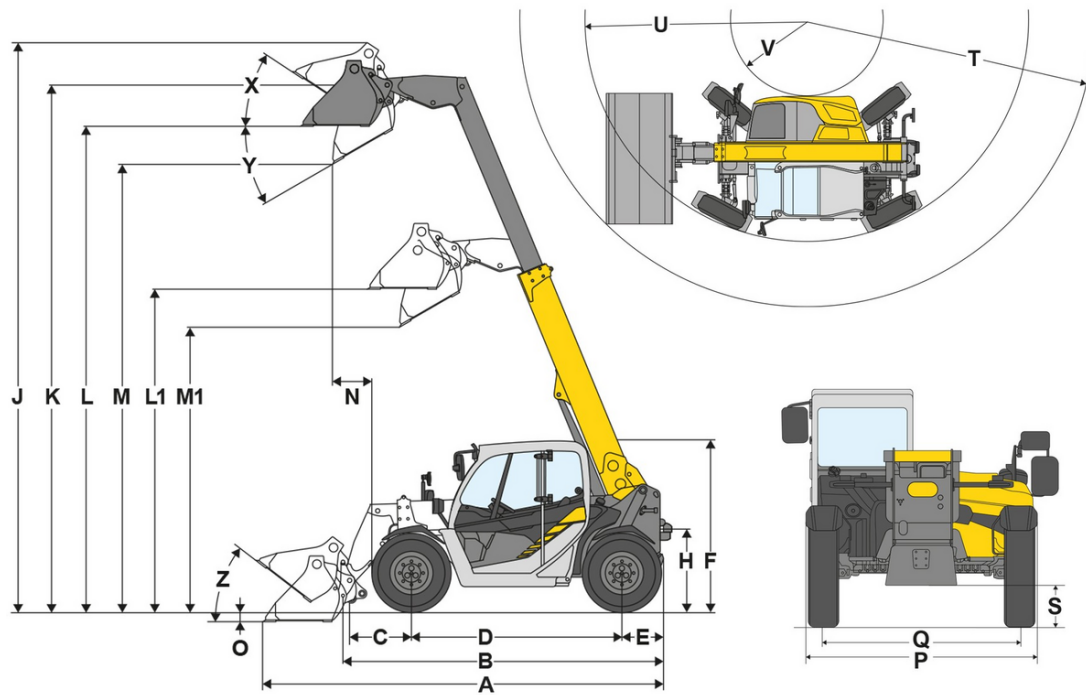
■ Steering

| | |
|------------------------------------|--|
| Steering type | Hydrostatic all-wheel steering with end position synchronization |
| Steering cylinder | 2 |
| Steering angle max. | 2x38 degree |
| Oscillating angle of the rear axle | ± 7 degree |

■ Other information

DPF = diesel particulate filter
 DOC = diesel oxidation catalyst
 SCR = selective catalytic reduction

Dimensions



| | | |
|----|---|----------|
| A | Total length | 3,944 mm |
| B | Total length without bucket | 2,991 mm |
| C | Bucket pivot point (to center of axle) | 450 mm |
| D | Wheel base | 1,922 mm |
| E | Rear overhang | 427 mm |
| F | Height with cab | 1,995 mm |
| H | Seat height | 978 mm |
| J | Total working height | 5,280 mm |
| K | Bucket pivot point (max. lift height) | 4,537 mm |
| L1 | Load-over height telescopic arm retracted | 2,949 mm |
| L | Load-over height telescopic arm extended | 4,163 mm |
| M1 | Dumping height telescopic arm retracted | 2,415 mm |
| M | Dumping height telescopic arm extended | 3,630 mm |
| N | Reach (at M) | 557 mm |
| O | Digging depth | 96 mm |
| P | Total width | 1,564 mm |
| Q | Track width | 1,235 mm |
| S | Ground clearance | 294 mm |
| T | Maximum radius | 3,506 mm |
| U | Radius on the outer edge | 2,695 mm |
| V | Inner radius | 951 mm |
| X | Rollback angle at max. lift height | 52 ° |
| Y | Dumping angle | 31 ° |
| Z | Rollback angle on ground | 44 ° |