

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 increases 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	24.7 HP
at max. rpm	2,600 rpm
Cylinder capacity	74.82 in³
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)	96 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	44.7 HP
at max. rpm	2,600 rpm
Cylinder capacity	95.69 in³
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)	96 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.)	2,756 lb
Operating weight	6,063 - 6,393 lb

Driver's cab

Driver's cab	Cab

Filling levels

Tank capacity for fuel	8.72 US gal
Tank capacity for hydraulic oil	9.51 US gal

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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	0-12.43 mph
Travel speed Option 1	0-18.64 mph
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

Drive hydraulics working pressure (max.)	5,511 US gal
Work hydraulics discharge volume (max.)	9.62 (10.99-18.49) gpm
Work hydraulics working pressure (max.)	3,191 US gal

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

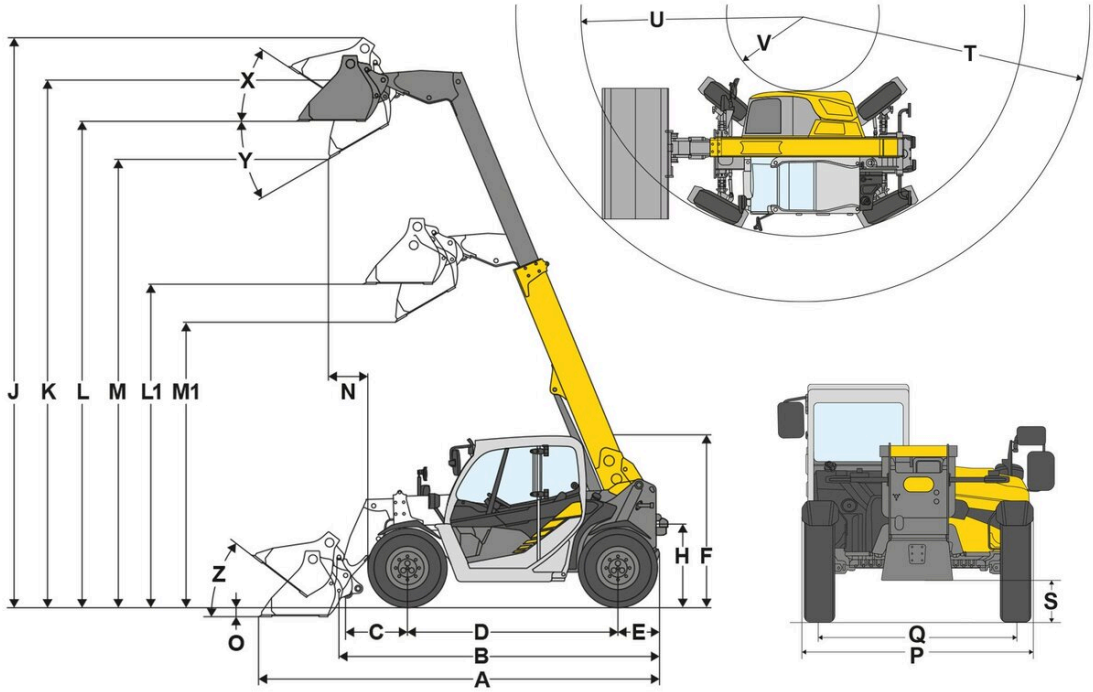
Other information

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

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Dimensions



A	Total length	155.3 in
B	Total length without bucket	117.8 in
C	Bucket pivot point (to center of axle)	17.7 in
D	Wheel base	75.7 in
E	Rear overhang	16.8 in
F	Height with cab	78.5 in
H	Seat height	38.5 in
J	Total working height	207.9 in
K	Bucket pivot point (max. lift height)	178.6 in
L1	Load-over height telescopic arm retracted	116.1 in
L	Load-over height telescopic arm extended	163.9 in
M1	Dumping height telescopic arm retracted	95.1 in
M	Dumping height telescopic arm extended	142.9 in
N	Reach (at M)	21.9 in
O	Digging depth	3.8 in
P	Total width	61.6 in
Q	Track width	48.6 in
S	Ground clearance	11.6 in
T	Maximum radius	138.0 in
U	Radius on the outer edge	106.1 in
V	Inner radius	37.4 in
X	Rollback angle at max. lift height	52 °
Y	Dumping angle	31 °
Z	Rollback angle on ground	44 °

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