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ENGINE

Complies with European Directive Model	97/68 CE - STAGE 3 Yanmar 4TNV98T-Z	97/68 CE - STAGE 4F Yanmar 4TNV98C
Max power ISO TR14396	HP- kW 91,7 - 67,4	HP- kW 71,35 - 53,25
Regimen adjusted	rpm 2500	rpm 2500
Power adjusted CE 80/1269	HP - kW 85 - 62,5	HP - kW 69,3 - 51,7
Numbers of cylinders	4	4
Injection	Direct with EGR System	Direct with EGR System + DPF
Intake	Natural	Natural
Displacement	cc. 3319	cc. 3319
Cooling	water	water
Air filter with double protection	dry	dry
Electrical equipment	volt 12	volt 12
Free maintenance battery	Ah 105	Ah 105
Self regulated alternator	W 660	W 960
Fuel tank capacity	l 100	l 100

TRANSMISSION

Hydrostatic transmission at closed circuit, with automatic adjustment of power, axial pistons pump and engine at variable displacement.
Hydraulic inching on brake pedal.
2 forward and 2 backward speeds, electrical control on the joystick.
Opt. hydrostatic pump for max speed 31 km/h.

SPEED

		1 st	2 nd automatic
Standard speed (with 16/70 - 20 tyres)			
Forwards	Km/h	0 ÷ 6,5	0 ÷ 21
Backwards	Km/h	0 ÷ 6,5	0 ÷ 21
Optional speed (with 16/70 - 20 tyres)			
Forwards	Km/h	0 ÷ 8,5	0 ÷ 31
Backwards	Km/h	0 ÷ 8,5	0 ÷ 31

AXLES

With epicycloid reduction gears on all four driving wheels.
Front axles: rigid with automatic proportional self-locking differential. (Limited slip)
Rear axles: oscillating of a 25° total range steering.

BRAKES

Duty brakes: with hydraulic control and master cylinder brake, autoregistrating dry disk on the transmission shaft acting upon all four wheels.
Parking brakes: Standard: mechanical dry on the transmission shaft.
Optional: negative dry on the transmission shaft with electrical control.

HYDRAULIC SYSTEM

Composed by: hydraulic gear pump, modular distributor with principal, shock-proof and anticavitation valve. Pressurised circuit.

Max pump capacity:	85 l
Max pump pressure:	240 Kg/cm ²
Loader lifting cylinder:	Bore x Stroke 80 x 665 mm
Loader bucket cylinder:	Bore x Stroke 95 x 467 mm
Hydraulic cycle time:	9"
Oil tank capacity, circuit included:	95 kg

STEERING

Servoassisted, with hydroguide and articulated chassis. Total steering angle of 80°. The hydraulic system is "Load Sensing" equipped.

TYRES

Standard: driving type 16/70 - 20
Optional: 14,5 - 20 - 405/70 R20
Other models on request.

LOADER

Single servo control lever for arm.

DIMENSIONS

Wheelbase	2300 mm
Front and rear track width	1500 mm
External tyres width	(with 16/70 - 20) 1907 mm

STANDARD EQUIPMENT

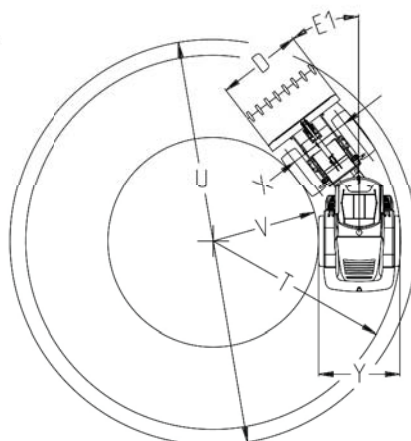
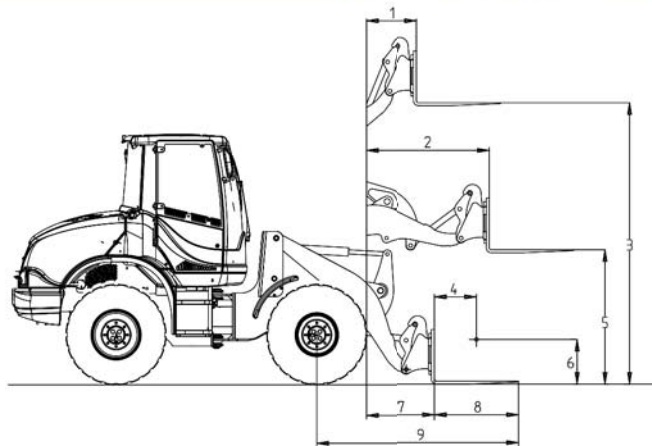
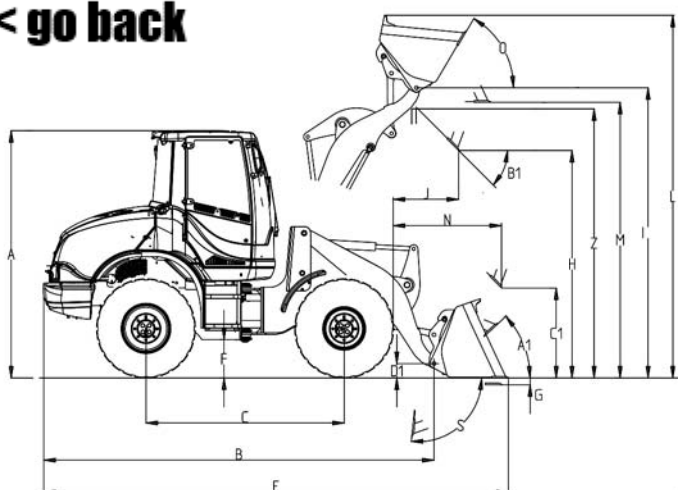
- Loader servo control
- Automatic proportional self-locking differential on front and rear axle (Limited Slip)
- Hydraulic Inching control (transmission speed regulations on brake pedal)
- Antipollution tank plug
- Bucket with screwed teeth
- Bucket mechanic levelling
- Reverse motion alarm
- Battery disconnecting switch
- Front and rear work lights
- Rotating lamp with magnetic fixing
- Shock absorbing and regulating "Deluxe" seat, with safety belt
- Regulating and telescopic steering wheel
- Floating system
- Air conditioning predisposition
- Heating plant
- Air filter in aspiration from outside
- Multifunction joystick with transmission and speedcontrol
- Rotoform front mudguards
- Tool box
- Use and maintenance manual, spare parts catalogue
- Accessories for road circulation
- Italian road homologation for daily and night circulation
- CE Certification

OPTIONAL EQUIPMENT

- 100% self-locking differential on rear axle
- Hydraulic quick bucket connection
- Universal forks
- Enlarged bucket
- Extra enlarged bucket for light material
- Enlarged bucket for light material having higher unloading
- 4:1 multipurpose bucket
- Paper and branches grab
- Bucket with side unloading
- Mixer bucket
- Wood grab
- Snow blade or snow plough
- Front rotating brush with bucket
- Teeth blade
- Asphalt concrete milling
- Inching control manually operated
- Electronic weighting system
- Air conditioning
- Radio
- Theft protection
- Ride control
- Automatic electro-mechanic bucket leveller
- Video camera
- Pneumatic "Deluxe" seat
- "Elite" cabin
- Fast speed version 31 km/h

For other accessories and equipment for characteristics and dimension, please see the "equipment catalogue".

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Date according to bucket type PL 155 with 16/70 - 20 tyres	STD.	ENLARGED	EXTRA ENLARGED	4:1	HIGHER UNLOADING
Capacity heaped m ³	1,0	1,15	1,4	0,8	1,5
Material density kg/m ³	1600	1200	1000	1900	800
Tipping load with aligned machine (ISO 14397) kg	3681	3603	3603	3276	3375
Tipping load in max articulated position (40°) (ISO 14397) kg	3285	3263	3263	2966	3055
Lifting capacity at max height kN	25,3	24,8	24,3	24,8	21,7
Breakout force kN	55,2	51,7	45,9	55,2	/
E total length mm	5574	5624	5724	5574	6058
L max. lifting height mm	4167	4212	4387	4167	5090
D bucket width mm	2000	2100	2200	1900	1900
U clearance diameter mm	9507	9628	9780	9415	9740
G digging depth mm	100	100	100	100	100
H dump height 45° mm	2613	2578	2508	2613	3906
J reach at max height mm	1013	1047	1114	1013	1390
N max reach mm	1092	1110	1190	1092	2021
Operating weight kg	5100	5150	5250	4950	5300

PL 155 16/70 - 20 tyres	
A	2720 mm
A1	43°
B	4724 mm
B1	48°
C	2300 mm
C1	1000 mm
D1	70 mm
E1	40°
F	320 mm
I	3335 mm
M	3160 mm
O	60°
S	96°
T	4300 mm
V	2407 mm
X	1460 mm
Y	1815 mm
Z	3080 mm

Data with universal forks Centre of gravity 500 mm	
Tipping load articulated (ISO 14397) kg	2338
Operative load EN 474-3, (80%) kg	1870
Operative load EN 474-3, (60%) kg	1403

1)	907 mm	6)	500 mm
2)	1592 mm	7)	702 mm
3)	3110 mm	8)	1037 mm
4)	500 mm	9)	2585 mm
5)	1504 mm		

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NC 478 A 17 Technical sheet PL 155 english

ENGINE

Complies with European Directive Model	97/68 CE - STAGE 3 Yanmar 4TNV98T-Z	97/68 CE - STAGE 4F Yanmar 4TNV98CT
Max power ISO TR14396	HP- kW 91,7 - 67,4	HP- kW 74 - 55,3
Regimen adjusted	rpm 2500	rpm 2500
Power adjusted CE 80/1269	HP - kW 85 - 62,5	HP - kW 72 - 53,7
Numbers of cylinders	4	4
Injection	Direct with EGR system	Direct with EGR system + DPF
Intake	Turbo feeded	Turbo feeded
Displacement	cc. 3319	cc. 3319
Cooling	water	water
Air filter with double protection	dry	dry
Electrical equipment	volt 12	volt 12
Free maintenance battery	Ah 105	Ah 105
Self regulated alternator	W 660	W 960
Fuel tank capacity	l 100	l 100

TRANSMISSION

Hydrostatic transmission at closed circuit, with automatic adjustment of power, axial pistons pump and engine at variable displacement.
Hydraulic inching on brake pedal.
Automatic selection of working speed.
2 forward and 2 backward speeds, electrical control on the joystick.
Mechanical transfer, 2 speeds with electric switch and electronic control.
4 total speeds: n. 2 working speeds + n. 2 travel speeds.

SPEED

		1 st	2 nd automatic
Working speed (with 16/70 - 20 tyres)			
Forwards	Km/h	0 ÷ 5	0 ÷ 13
Backwards	Km/h	0 ÷ 5	0 ÷ 13
Travel speed (with 16/70 - 20 tyres)			
Forwards	Km/h	0 ÷ 15	0 ÷ 40
Backwards	Km/h	0 ÷ 15	0 ÷ 40

AXLES

With epicycloid reduction gears on all four driving wheels.
Front axles: rigid with automatic proportional self-locking differential. (Limited slip)
Rear axles: oscillating of a 25° total range steering.

BRAKES

Duty brakes: with hydraulic control and servobrake, autoregistrating multiple disks under oil bath, acting upon all four wheels.
Parking brakes: Negative under oil bath, with electrical control.

HYDRAULIC SYSTEM

Composed by: hydraulic gear pump, modular distributor with main relief valve, shock-proof and anticavitation valve. Pressurised circuit.

Max pump capacity:	85 l
Max pump pressure:	240 Kg/cm ²
Loader lifting cylinder:	Bore x Stroke 80 x 665 mm
Loader bucket cylinder:	Bore x Stroke 95 x 467 mm
Hydraulic cycle time:	9"
Oil tank capacity, circuit included:	95 kg

STEERING

Servoassisted, with hydroguide and articulated chassis. Total steering angle of 80°. The hydraulic system is "Load Sensing" equipped.

TYRES

Standard: driving type 16/70 - 20
Optional: 14.5 - 20 - 405/70 R20
Other models on request.

LOADER

Single servocontrol lever for arm and bucket. "Z" boom kinematism.

DIMENSIONS

Wheelbase	2300 mm - optional on request 2200 mm
Front and rear track width	1500 mm
External tyres width	(with 16/70 - 20) 1907 mm

STANDARD EQUIPMENT

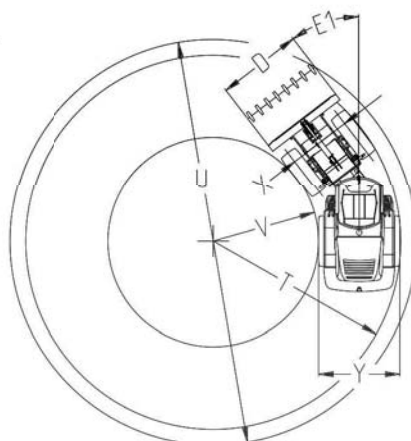
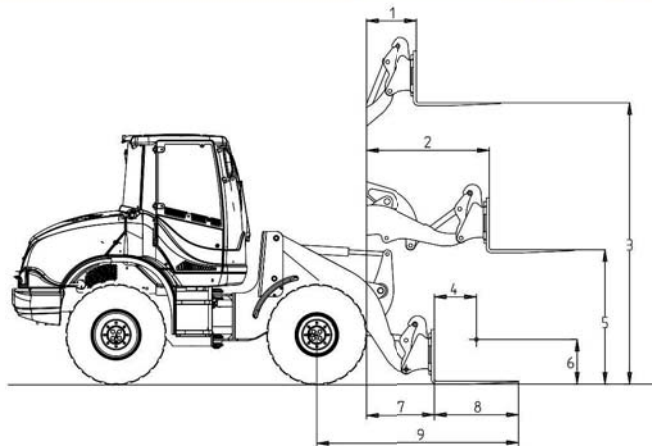
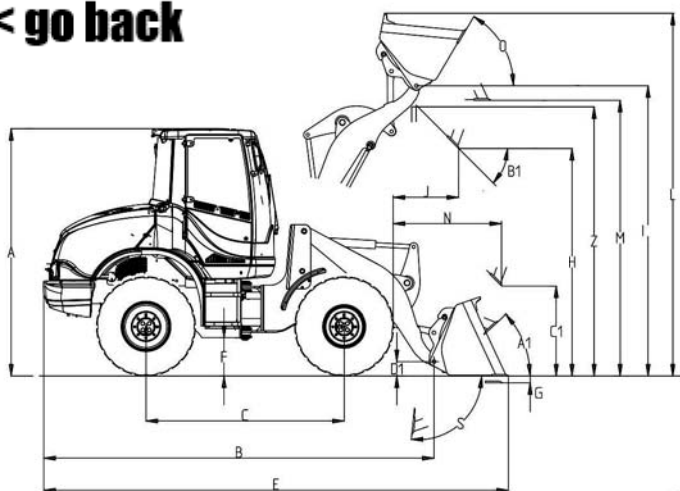
- Loader servo control
- Automatic proportional self-locking differential on front and rear axle (Limited Slip)
- Hydraulic Inching control (transmission speed regulations on brake pedal)
- Antipollution tank plug
- Bucket with screwed teeth
- Bucket mechanic levelling
- Reverse motion alarm
- Battery disconnecting switch
- Front and rear work lights
- Rotating lamp with magnetic fixing
- Shock absorbing and regulating "Deluxe" seat, with safety belt
- Regulating and telescopic steering wheel
- Floating system
- Air conditioning predisposition
- Heating plant
- Air filter in aspiration from outside
- Multifunction joystick with transmission and speedcontrol
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- Tool box
- Use and maintenance manual, spare parts catalogue
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OPTIONAL EQUIPMENT

- 100% self locking differential on rear axle
- Hydraulic quick bucket connection
- Universal forks
- Enlarged bucket
- Extra enlarged bucket for light material
- Enlarged bucket for light material having higher unloading
- 4:1 multipurpose bucket
- Paper and branches grab
- Bucket with side unloading
- Mixer bucket
- Wood grab
- Snow blade or snow plough
- Front rotating brush with bucket
- Teeth blade
- Asphalt concrete milling
- Inching control manually operated
- Electronic weighting system
- Air conditioning
- Radio
- Theft protection
- Ride control
- Automatic electro-mechanic bucket leveller
- Video camera
- Pneumatic "Deluxe" seat
- "Elite" cabin

For other accessories and equipment for characteristics and dimension, please see the "equipment catalogue".

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Date according to bucket type PL 155HS with 16/70 - 20 tyres	STD.	LIGHT MATERIAL	ENLARGED	EXTRA ENLARGED	4:1	HIGHER UNLOADING
Capacity heaped m ³	1,0	1,15	1,25	1,6	0,9	1,8
Material density kg/m ³	1800	1600	1200	1000	1900	800
Tipping load with aligned machine (ISO 14397) kg	3930	4063	4010	4060	3885	3950
Tipping load in max articulated position (40°) (ISO 14397) kg	3506	3625	3560	3602	3490	3480
Lifting capacity at max height kN	31,8	31,3	30,8	30,3	30,8	27,1
Breakout force kN	66,2	62	62	55,1	66,2	/
E Total length mm	5409	5450	5450	5520	5409	5785
L max. lifting height mm	4167	4212	4212	4387	4167	5090
D bucket width mm	2000	2100	2200	2300	2000	2000
U clearance diameter mm	9510	9630	9725	9870	9510	9830
G digging depth mm	100	100	100	100	100	120
H dump height 45° mm	2613	2578	2578	2508	2613	3906
J reach at max height mm	960	995	995	1067	960	1300
N max reach mm	1090	1110	1110	1180	1090	2170
Operating weight kg	5300	5500	5450	5500	5350	5500

PL 155HS 16/70 - 20 tyres	
A	2750 mm
A1	43°
B	4668 mm
B1	45°
C	2300 mm
C1	1000 mm
D1	70 mm
E1	40°
F	320 mm
I	3335 mm
M	3160 mm
O	60°
S	96°
T	4300 mm
V	2380 mm
X	1600 mm
Y	1865 mm
Z	3080 mm

Data with universal forks Centre of gravity 500 mm	
Tipping load articulated (ISO 14397) kg	2496
Operative load EN 474-3, (80%) kg	1997
Operative load EN 474-3, (60%) kg	1498

1)	813 mm	6)	500 mm
2)	1592 mm	7)	1037 mm
3)	3195 mm	8)	1000 mm
4)	500 mm	9)	2585 mm
5)	1505 mm		

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