

ENGINE

Complies with European Directive Model	97/68 CE - STAGE 3
Max power ISO TR14396	Yanmar 4TNV98T-Z
Regimen adjusted	HP - kW 85 (62,5)
Power adjusted CEE 80/1269	rpm 2500
Numbers of cylinders	HP - kW 85 (62,5)
Injection	4
Intake	Direct and electronic with EGR System
Displacement	Turbo feeded
Cooling	cc. 3319
Air filter with double protection	water
Electrical equipment	dry
Free maintenance battery	volt 12
Self regulated alternator	Ah 105
Fuel tank capacity	W 660
	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 - 24 tyres)			
Forwards	Km/h	0 ÷ 7	0 ÷ 19
Backwards	Km/h	0 ÷ 7	0 ÷ 19
Travel speed (with 16/70 - 24 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 and automatic proportional self-locking differential. (Limited slip)

BRAKES

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

Parking brakes: negative dry on the trasmission shaft, 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 85 x 684 mm
Loader bucket cylinder	Bore x Stroke 100 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 - 24
Optional:		405/70 R24

Other models on request.

LOADER

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

DIMENSIONS

Wheelbase	2400 mm
Front and rear track width	1570 mm
Extrnal tyres width	(with 14,5 - 20) 1980 mm

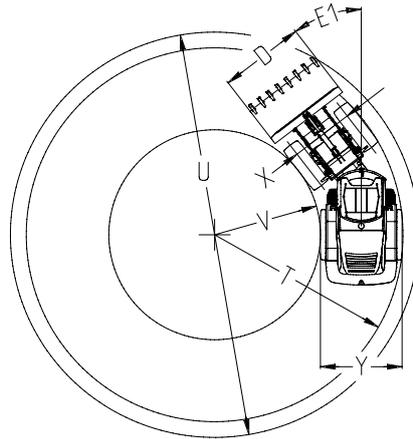
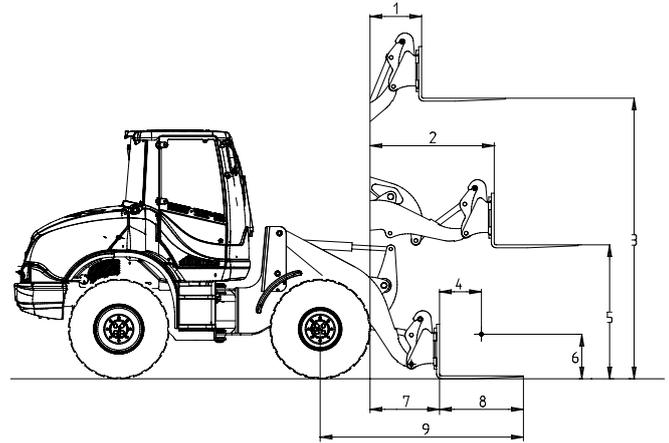
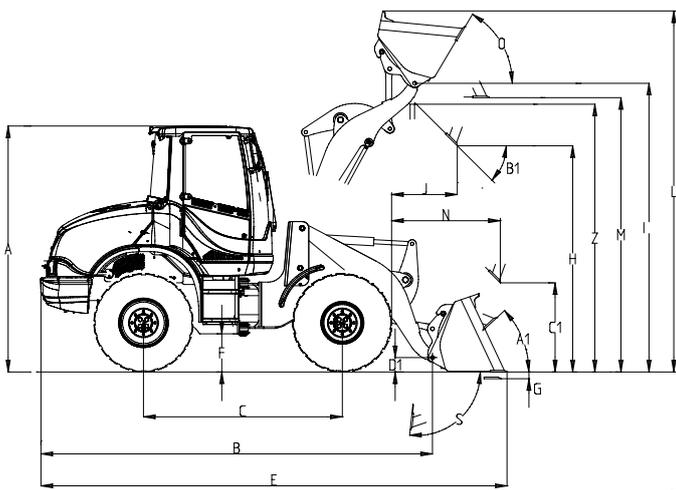
STANDARD EQUIPMENT

- 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 homologationfor daily and night circulation
- CE Certification

OPTIONAL EQUIPMENT

- Hydraulic quick bucket connection
- Universal forks
- Enlarged bicket
- 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

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



Date according to bucket type PL 165 with 17/60x24 tyres	PL165 STD.	PL165 XL	ENLARGED	EXTRA ENLARGED	4 : 1	HIGHER UNLOADING
Capacity heaped	m ³ 1,15	1,25	1,6	1,9	1,05	2,0
Material density	kg/m ³ 1800	1800	1200	1000	1900	800
Tipping load with aligned machine (ISO 14397)	kg 4965	5120	5056	4925	4870	4515
Tipping load in max articulated position (40°) (ISO 14397)	kg 4450	4590	4530	4416	4370	4048
Lifting capacity at max height	kN 35,3	34,8	34,3	33,8	34,3	29,1
Breakout force	kN 68,6	68,6	61,1	54,9	68,6	-
E Total length	mm 5595	5595	5670	5740	5595	5933
L Max lifting height	mm 4330	4330	4510	4607	4330	5210
D Bucket width	mm 2100	2200	2300	2400	2100	2200
U Clearance diameter	mm 9960	10060	10210	10360	9960	10350
G Digging depth	mm 65	65	65	65	65	80
H Dump height 45°	mm 2725	2725	2260	2595	2725	4025
J Reach at max height	mm 830	830	905	980	830	1100
N Max reach	mm 980	980	1017	1060	980	2000
Operating weight	kg 6400	6800	6900	6950	6450	7000

PL 165 with 17/60x24 tyres	
A	2800 mm
A1	43°
B	4732 mm
B1	42°
C	2400 mm
C1	1000 mm
D1	120 mm
E1	40°
F	360 mm
I	3450 mm
M	3280 mm
O	59°
S	96°
T	4450 mm
V	2550 mm
X	1570 mm
Y	1980 mm
Z	3200 mm

Data with universal forks Centre of gravity 500 mm	
Tipping load articulated (ISO 14397)	kg 3385
Operative load EN 474-3, 80%	kg 2708
Operative load EN 474-3, 60%	kg 2030
Operative load 80%, transport position, articulated 40°	kg 2708

1)	610 mm	6)	500 mm
2)	1477 mm	7)	885 mm
3)	3316 mm	8)	1000 mm
4)	500 mm	9)	2483 mm
5)	1555 mm		

PALOAD is a mark produced by Palazzani industrie S.p.A.
N.C.353 A 10 Technical sheet PL 165 english Rev. 02/2011



COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= ISO 9001:2008 =

CE MACHINE IN CONFORMITY TO THE
NEW MACHINES' STANDARDS
We reserve the right to change technical data,
so all characteristics are purely indicative.
Pictures don't show necessarily the
machine in standard version.