

PT

182
192
1102

Paload

PALAZZANI



Paload skyline



*From ancient Palazzani Workshop to modern Palazzani Industrie S.p.A.,
over 80 years of history, made in Italy.*

Paload, earth moving machines division.
Palift, self-propelled aerial access platforms.

Palazzani Industrie S.p.A. trademarks

PT Wheel Loader with telescopic boom

182
192
1102

Servocontrol

With multifunctional joystick (equipments and speed controlling), to well operate and leave the operator left hand always free at the steering wheel

Levelling

Electronic bucket levelling and electronic parallelism with forks.

"Z" Loader

High unloading height, high bucket excursion, strong lifting and breakout force. New profile buckets for high penetration and capacity. Standard anti-usury steel blades

Brakes

With multiple disks in oil bath, on front axle acting on 4 wheels, with brake pump hydraulically operating (on PL 155 and PL 165)

Telescopic boom

Double telescopic boom for excellent unloading height (extra 1050mm extended). Locking valves and overload alarm.

Skyline cabin

Skyline cabin with paved full-integrated cell, mounted on anti-vibration devices to provide first rate acoustic isolation. Wide glasses, window on the roof. High comfort, wide visibility.

Side windows

180° opening, aligned with high resistance automatic connections. Optional air circulation in the cabin

Seat

With triple adjustment: longitudinal, vertical and lumbar. Progressive spring, adjusting armrests and integrated joystick holder (optional pneumatic version)

Cooling system

High output, with radiator in alluminium with tiled masses, for easy cleaning (optional fan drive + reverse)

Transmission

Hydrostatic transmission, with two hydraulic motors connected to a mono-gears mechanic transfer, max automatic speed from 0 to 40 km/h.

Axles

Carraro axles with proportional self-locking, acting on front and rear axles. Rear oscillating axle





1



2



3



4

- 1 Cabin with integral cell, equipped with heating system, mounted on 4 big anti-vibration points for an efficient noise and vibration isolation. The wide glass surface, as well as the glass on the roof, gives great 360° visibility, allowing the operator to view the loading bucket even at max height. The seat, equipped with safety belts, is comfortable, with suspensions and with three adjusting positions. A document holder compartment is under the seat behind the backrest. The steering wheel is adjustable.
- 2 The chassis is articulated with rear oscillating axle and the diesel is in front in longitudinal position. These solutions allow the wheel loader high stability and traction in all use conditions. The building structure is designed for a coherence among balancing, traction force and hydraulic power, which translate in optimal productivity, always assuring the max reliability.
- 3 These wheel loaders are unique in their category, thanks to the patented double telescopic boom. An efficient solution to reach important outreaches and heights with maximum stability and visibility of the bucket load, with the performances of a wheel loader
- 4 In every engine start, the dashboard detects the diesel functions, displaying diagnostic codes in case of default.
- The wheel loader can be equipped with many attachments, easily interchangeable thanks to the standard mechanic quick bucket connection. Industry, construction, agriculture, ecology are the main possible applications. All specific applications and required customizations are evaluated for a possible feasibility. This multipurpose aspect is the result of the Palazzani machines versatility.
- Ordinary maintenance is easy because of the many points of interventions concentrated below the engine bonnet, locked with key. Here are located the filters, liquids levels, the gasoil and hydraulic oil tanks, the starter battery with safety lock. Air filter and hydraulic oil with higher capacity are adopted for longer maintenance intervals.

PALOAD WHEELED LOADERS COMPLETE RANGE

MODELS

PL 145



MEDIUM RANGE

PL 155



PL 155HS



PL 165HS



Steering

Engine

N° of cylinders - displacement
Injection - intake
Power range (kW) HP



ARTICULATED



ARTICULATED



ARTICULATED



ARTICULATED

4 - 3319
direct with EGR-natural
(53,25) - 71,35

4 - 3319
direct with EGR-natural
(53,25) - 71,35

4 - 3319
direct with EGR - turbo
(53,7) - 74

4 - 3319
direct with EGR - turbo
(55,3) - 74

Loader data

Bucket width (mm) - volume (m³)
Tot. Length (mm) - max weight (kg)
Unloading height at the pin (mm)

1900 - 0,9
5574 - 4900
3250

2000 - 1,00
5574 - 5100
3335

2000 - 1,00
5409 - 5300
3335

2000 - 1,15
5409 - 5900
3335

HIGH RANGE

PL 185



PL 195



PL 1105



HIGH RANGE - TELESCOPIC ARM

PT 182



PT 192



PT 1102



Steering

Engine

N° of cylinders - displacement
Injection - intake
Power range (kW) HP



ARTICULATED



ARTICULATED



ARTICULATED



ARTICULATED



ARTICULATED



ARTICULATED

4 - 4400
direct and electronic-turbo
(95,8) - 130

4 - 4400
direct and electronic-turbo
(95,8) - 130

4 - 4800
direct and electronic-turbo
(111) - 151

4 - 4400
direct and electronic-turbo
(95,8) - 130

4 - 4400
direct and electronic-turbo
(95,8) - 130

4 - 4800
direct and electronic-turbo
(111) - 151

Loader data

Bucket width (mm) - volume (m³)
Tot. Length (mm) - max weight (kg)
Unloading height at the pin (mm)

2350 - 1,5
6240 - 8650
3680

2400 - 1,60
6280 - 9360
3793

2540 - 2,10
6635 - 11850
3850

2250 - 1,4
6705 - 9000
4791 - 3987

2400 - 1,6
6707 - 9600
4936 - 4017

2540 - 2
7320 - 12200
5420 - 4360

Find all detailed characteristics on the technical sheet of the model you're interested in

MAIN ACCESSORIES



Snowblade

Wood grab
Paper and branches grab
Asphalt milling
Air conditioning - Theft protection
Front arm with hydraulic shredder
Video camera



Mixing bucket

Universal forks
Extra enlarged buckets
Multipurpose bucket 4:1
Longer arm
Blades



Sweeper

Hydraulic quick bucket connection
Bucket with higher unloading
Electronic weighting system
Ride control
Front hydraulic kit

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

Your satisfaction is our success

MACHINE IN CONFORMITY TO CE
THE NEW MACHINES STANDARDS.

We reserve the right to change technical data, so all characteristics are purely indicative. Pictures don't show necessary the machine in standard version.

Palazzani
INDUSTRIE

Palazzani Industrie S.p.A.

Via del Pavione, 4 - 25050 PADERNO F.C. (Brescia) Italy
Tel. + 39 030 6857073 - Fax. + 39 030 657079
www.palazzani.it - info@palazzani.it

ENGINE

Complies with European Directive	97/68 CE
Max Power	HP - kW 151 - 111
Regimen adjusted	rpm 2200
Number of cylinders - injection	4 - direct - electronic
Intake	Turbo feeded intercooler
Cooling	Water
Air filter with double protection	Dry
Electrical equipment	12 volt
Free maintenance battery	180 Ah
Self regulated alternator	1140 W
Fuel tank capacity	180 l
Water radiator	Hydraulic fan

TRANSMISSION

High-pressure, closed-loop hydrostatic transmission, with automatic adjustment of power, pump at variable capacity, n°2 hydraulic motors with axial pistons at variable displacement. Inching hydraulic control for traction regulation, modulating, integrated in the service brake pedal. 3 speeds forwards and 3 speeds reverse with electric control on the steering wheel and on the joystick with the possibility to change speed and reverse in motion and under load (HYDROSTATIC SHIFT).

SPEED

		1 st	2 nd	3 rd
Forwards	Km/h	0 ÷ 5	0 ÷ 18	0 ÷ 40
Reverse	Km/h	0 ÷ 5	0 ÷ 18	0 ÷ 40

AXLES

With epicycloids reduction on all four driving wheels.

Front axle: rigid with automatic proportional self-locking differential.

Rear axle: oscillating of a 25° total range tilting and automatic proportional self-locking differential.

BRAKES

Duty brakes:	with hydraulic control on all four wheels at multiple disks under oil bath integrated in the axels, with 2 independent circuits.
Parking brakes:	electro-hydraulic automatic negative brake, integrated in the axle electro-hydraulically acting on the front axle.

HYDRAULIC SYSTEM

Composed by: hydraulic piston pumps, with variable displacement when power changes for lift, extend and option, another gear pump for bucket and a gear pump for fan drive control; modular distributor with priority valve for steering pressure and shock-proof and anticavitation valves on uses; another independent distributor for bucket. Pressurised circuit.

Max hydraulic pumps capacity:	202 l
Max work pressure:	270 Kg/cm²
Loader lifting cylinder:	Bore x Stroke 110 x 750 mm
Loader bucket cylinder:	Bore x Stroke 120 x 490 mm
Oil tank capacity:	80 l
Heat exchanger:	hydraulic fan

STEERING

Servoassisted, with steer motor at double displacement and articulated chassis. Total steering angle of 80°. The steering hydraulic system is:

Steering radius interior tyres	3050 mm
Steering radius exterior tyres	5470 mm
Steering radius exterior bucket	5970 mm

TYRES

Standard:	20,5 - 25
Optional:	20,5 R 25
Other models on request.	

LOADER

Single electronic servo control lever for arm and bucket.
 Electronic bucket levelling and electronic parallelism with forks.
 Telescopic boom, with 1500 mm extension.

DIMENSIONS

Wheelbase	2900 mm
Front and rear track width	1860 mm
External tyres width	(with 20,5 x 25) 2440 mm

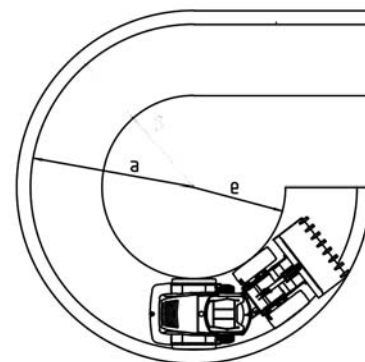
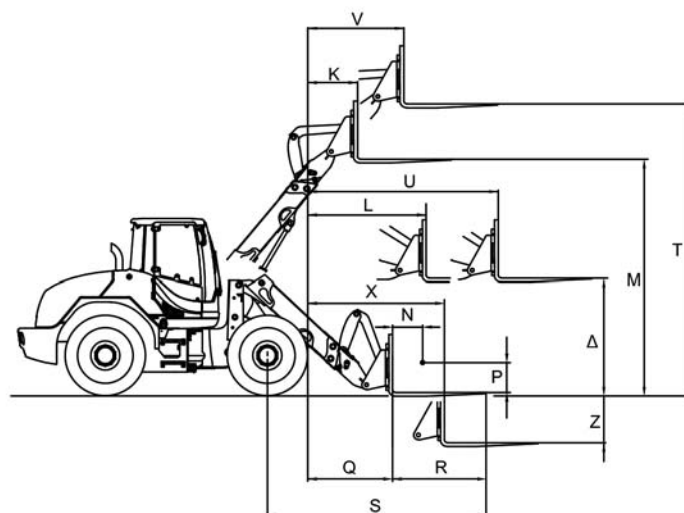
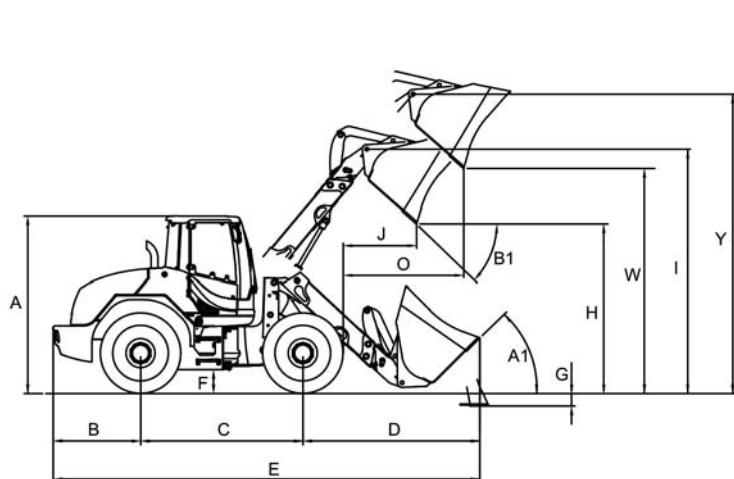
STANDARD EQUIPMENT

- Loader servo control
- Automatic proportional self-locking differential on front and rear axle
- Inching control on brake pedal (transmission speed regulations)
- Antipollution tank plug
- Bucket with screwed teeth
- 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 steering wheel
- Bucket electronic levelling
- Floating system
- Heating plant
- Air filter in aspiration from outside
- 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

- Hydraulic quick bucket connection
- Universal forks
- Enlarged bucket
- Extra enlarged bucket for light material
- Enlarged bucket for light material having higher unloading
- 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
- Floating elements
- Empowered battery 12V 185 Ah

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



Date according to bucket type PT 1102 with 20,5 x 25 tyres	STD.	ENLARGED	EXTRA ENLARGED	XXL
Capacity heaped m ³	2,0	2,5	3,0	5
Material density kg/m ³	1800	1500	1200	320
Tipping load with aligned machine (ISO 14397) retracted boom	kg	7678	5832	5719
Tipping load in max articulated position (40°) (ISO 14397) retracted	kg	6900	5319	5216
Tipping load with aligned machine (ISO 14397) extended boom	kg	4164	3082	2998
Tipping load in max articulated position (40°) (ISO 14397) extended	kg	3740	2811	2735
Lifting capacity at max height retracted boom	kN	59,08	56,12	55,00
Lifting capacity at max height extended boom	kN	37,93	36,03	35,30
Breakout force	kN	89,96	85,45	85,45
E Total length	mm	7320	7392	7535
Bucket width	mm	2540	2540	3000
Rotation diameter	mm	12220	12400	12810
G digging depth	mm	100	100	100
H dump height 45° retracted	mm	3470	3270	3270
W dump height 45° extended	mm	4620	4420	4420
D outreach	mm	2960	3032	3175
J reach at max height retracted	mm	1150	1286	1240
O reach at max height extended	mm	2115	2250	2200
Operating weight	kg	12200	12300	12500

PT 1102 20,5 x 25 tyres	
A	3065 mm
B	1460 mm
C	2900 mm
F	515 mm
e	3040 mm
a	5480 mm
I	4360 mm
Y	5420 mm
K	840 mm
L	2120 mm
M	4224 mm
N	500 mm
P	500 mm
Q	1602 mm
R	1400 mm
S	3742 mm
T	5376 mm
U	3620 mm
V	1806 mm
Z	796 mm
X	2847 mm
Δ	1740 mm
A1	45°
B1	45°

Data with universal forks Centre of gravity 500 mm

Operative load with retracted forks EN 474-3 (80%)	kg	4425
Operative load with retracted forks EN 474-3 (60%)	kg	3319
Operative load with extended forks EN 474-3 (80%)	kg	2612
Operative load with extended forks EN 474-3 (60%)	kg	1960

PALOAD is mark produced by Palazzani Industrie S.p.A.
NC 408 A 16 Technical sheet PT 1102 english