

DIECI



PEGASUS ESSENTIAL

50.18 | 50.18-R



dieci.com

PERFORMANCE

Vehicle model	Pegasus 50.18	Pegasus-R 50.18
Maximum capacity	4999 kg (11021 lb)	4999 kg (11021 lb)
Maximum lifting height	18 m (59.1 ft)	18 m (59.1 ft)
Maximum horizontal extension	15.3 m (50.2 ft)	15.3 m (50.2 ft)
Fork swiveling angle	133°	133°
Pull-out force	5700 daN (12814 lbf)	6500 daN (14613 lbf)
Towing force	6500 daN (14613 lbf)	8300 daN (18659 lbf)
Unladen weight	14700 kg (32408 lb)	14700 kg (32408 lb)
Maximum climb angle	37 %	37 %
Max speed (referred to wheels with maximum permitted diameter)	30 km/h (18.6 mph)	24 km/h (14,9 mph)

BOOM

Vehicle model	Pegasus 50.18	Pegasus-R 50.18
Getting off the basket	14.2 s	16.1 s
Lifting	20.6 s	18.1 s
Extension	26 s	24,1 s
Retraction	17 s	19.4 s
Forward swiveling	3.8 s	4.3 s
Reverse swiveling	2 s	3.7 s

ENGINE

Vehicle model	Pegasus 50.18	Pegasus-R 50.18
Brand	Perkins	Kubota
Nominal power	85,9 Kw (115 HP)	54.6 kW (73 HP)
@rpm	2200 rpm	2600 rpm
Peak power	85,9 Kw (115 HP)	55.4 kW (74 HP)
@rpm	2200 rpm	2600 rpm
Operation	4-stroke	4-stroke
Injection	Electronic, Common Rail	Electronic, Common Rail
Number and arrangement of cylinders	4, Vertical in line	4, Vertical in line
Displacement	3621 cm ³ (221 in ³)	3331 cm ³ (203 in ³)
Consumption	216 g/kWh (355.32 lb/Hp h)	228 g/kWh (375.06 lb/Hp h)
@rpm	1900 rpm	2600 rpm
Emission standards	Stage V/Tier 4f	Stage V/Tier 4f
Exhaust gas treatment	DOC+DPF+SCR (with AdBlue)	DOC+DPF
Cooling system	Liquid	Liquid
Intake	16-valve turbocharger with aftercooler	Turbocharger after-cooler
Air filter	Air pre-heating and air pre-filtering with dust separator	Air pre-heating and air pre-filtering with dust separator

TRANSMISSION

Vehicle model	Pegasus 50.18	Pegasus-R 50.18
Transmission type	Hydrostatic with variable displacement pump	Hydrostatic with variable displacement pump
Hydraulic motor	Hydrostatic with continuous automatic adjustment	Hydrostatic with continuous automatic adjustment
Reversal	Electro-Hydraulic operated with vehicle in motion	Electro-Hydraulic operated with vehicle in motion
Inching	With pedal for controlled forward movement	With pedal for controlled forward movement
Gearbox	Servo-controlled 2-speed	Servo-controlled 2-speed

DIFFERENTIAL AXLES

Vehicle model	Pegasus 50.18	Pegasus-R 50.18
Type of axles	2 steering, with 4 epicycloidal reduction gears	2 steering, with 4 epicycloidal reduction gears
Type of steering	4 wheels / transversal / 2 wheels	4 wheels / transversal / 2 wheels
Front axle	Rigid	Rigid
Rear axle	Swinging	Swinging
Service braking	Oil bath with servo brake on front and rear axle with double hydraulic system	Oil bath with servo brake on front and rear axle with double hydraulic system
Parking braking	Negative actuation with electrical control	Negative actuation with electrical control

HYDRAULIC SYSTEM

Vehicle model	Pegasus 50.18	Pegasus-R 50.18
Hydraulic pump type	Gear pump for power steering and movements	Pump with variable displacement for power steering and movements
Hydraulic pump capacity	120 l/min (31,7 gal/min)	130 l/min (34.3 gal/min)
Max. operating pressure	27 MPa (3916 psi)	27 MPa (3916 psi)
Distributor control	Proportional 5in1 Joystick	Proportional 5in1 Joystick
Distributor type	Hydraulic in 5 sections with "Load Sensing" proportional electronic servo-control with "Flow Sharing", 5 simultaneous movements with independent maximum speed control of each movement.	Hydraulic in 5 sections with "Load Sensing" proportional electronic servo-control with "Flow Sharing", 5 simultaneous movements with independent maximum speed control of each movement.
Outriggers	4 independent outriggers with hydraulic lowering	4 independent outriggers with hydraulic lowering

FILLING

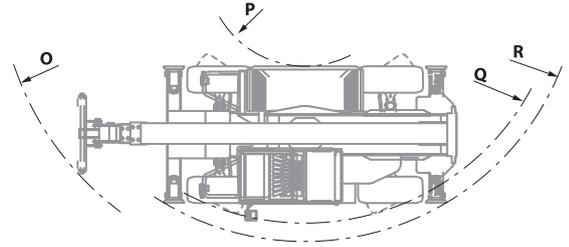
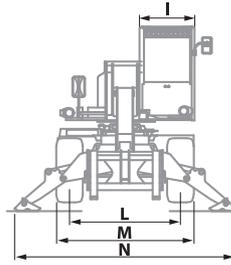
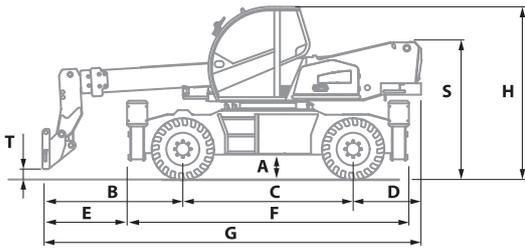
Vehicle model	Pegasus 50.18	Pegasus-R 50.18
Hydraulic system (total)	270 l (71.33 gal)	270 l (71.33 gal)
Diesel tank	180 l (47.55 gal)	180 l (47.55 gal)
AdBlue tank	19 l (5.02 gal)	-

TYRES

Vehicle model	Pegasus 50.18	Pegasus-R 50.18
Standard tires	400/70x20" (405/70-20"; 16/70-20")	400/70x20" (405/70-20"; 16/70-20")

DIMENSIONS

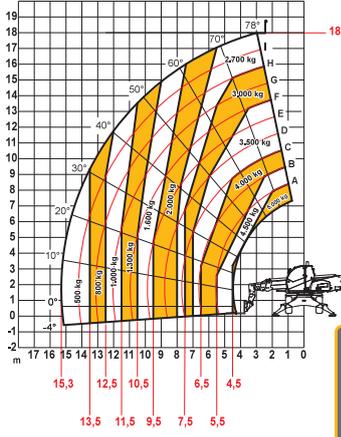
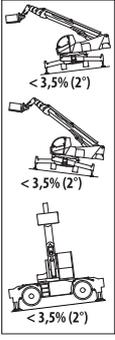
Vehicle model	Pegasus 50.18	Pegasus-R 50.18
A	310 mm (12.2 in)	310 mm (12.2 in)
B	2280 mm (89.8 in)	2280 mm (89.8 in)
C	2950 mm (116.1 in)	2950 mm (116.1 in)
D	1175 mm (46.3 in)	1175 mm (46.3 in)
E	1330 mm (52.4 in)	1330 mm (52.4 in)
F	4880 mm (192.1 in)	4880 mm (192.1 in)
G	6630 mm (261.0 in)	6630 mm (261.0 in)
H	3030 mm (119.3 in)	3030 mm (119.3 in)
I	980 mm (38.6 in)	980 mm (38.6 in)
L	1920 mm (75.6 in)	1920 mm (75.6 in)
M	2380 mm (93.7 in)	2380 mm (93.7 in)
N	4000 mm (157.5 in)	4000 mm (157.5 in)
O	5163 mm (203.3 in)	5163 mm (203.3 in)
P	1700 mm (66.9 in)	1700 mm (66.9 in)
Q	4430 mm (174.4 in)	4430 mm (174.4 in)
R	4750 mm (187.0 in)	4750 mm (187.0 in)
S	2420 mm (95.3 in)	2420 mm (95.3 in)
T	140 mm (5.5 in)	140 mm (5.5 in)



MAX
5000 kg



MAX { 12,5 m/s
45 km/h
28 mph



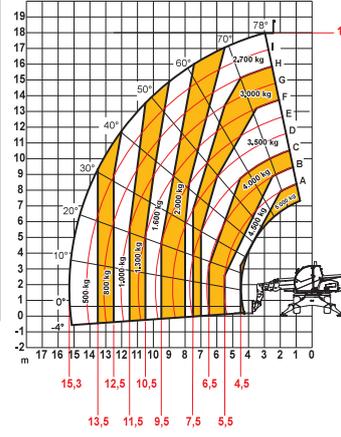
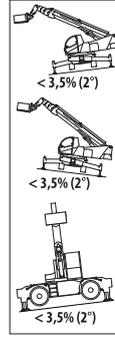
EN 1459-2 - ISO 10896-2 - ISO 22915-24

50.18

MAX
5000 kg



MAX { 12,5 m/s
45 km/h
28 mph



EN 1459-2 - ISO 10896-2 - ISO 22915-24

50.18-R