DIECI

AGRI STAR

37.7 | 37.8 | 38.10

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PERFORMANCE

Vehicle model	AGRI STAR 37.7	AGRI STAR 37.8	AGRI STAR 38.10
Maximum capacity	3700 kg (8157 lb)	3700 kg (8157 lb)	3800 kg (8378 lb)
Maximum lifting height	7,35 m (24,1 ft)	7,80 m (25,6 ft)	9,75 m (32 ft)
Maximum horizontal extension	4,00 m (13,1 ft)	4,45 m (14,6 ft)	6,45 m (21,2 ft)
Fork swiveling angle	146°	146°	146°
Pull-out force	5700 daN (12814 lbf)	5700 daN (12814 lbf)	5700 daN (12814 lbf)
Towing force	7300 daN (16411 lbf)	7300 daN (16411 lbf)	7300 daN (16411 lbf)
Maximum climb angle	40%	40%	40%
Unladen weight	7500 kg (16535 lb)	7600 kg (16755 lb)	7900 kg (17417 lb)
Max speed (referred to wheels with maximum permitted diameter)	30 km/h (18,6 mph)	30 km/h (18,6 mph)	30 km/h (18,6 mph)

BOOM

Vehicle model	AGRI STAR 37.7	AGRI STAR 37.8	AGRI STAR 38.10
Lifting	7,3 s	7,2 s	8,7 s
Descent	3,8 s	3,7 s	5,0 s
Extension	5,2 s	5,5 s	7,6 s
Retraction	2,9 s	3,1 s	4,6 s
Forward swiveling	2,7 s	2,7 s	2,7 s
Reverse swiveling	1,7 s	1,6 s	1,6 s

ENGINE

Vehicle model	AGRI STAR 37.7	AGRI STAR 37.8	AGRI STAR 38.10
Brand	FPT	FPT	FPT
Nominal power	93 kW (125 HP)	93 kW (125 HP)	93 kW (125 HP)
@rpm	2200 rpm	2200 rpm	2200 rpm
Operation	4-stroke	4-stroke	4-stroke
Injection	Mechanical direct	Mechanical direct	Mechanical direct
Number and arrangement of cylinders	4, Vertical in line	4, Vertical in line	4, Vertical in line
Displacement	4485 cm^3 (274 in^3)	4485 cm^3 (274 in^3)	4485 cm^3 (274 in^3)
Consumption	230 g/kWh (378,35 lb/Hp h)	230 g/kWh (378,35 lb/Hp h)	230 g/kWh (378,35 lb/Hp h)
@rpm	2200 rpm	2200 rpm	2200 rpm
Emission standard	Stage IIIA/Tier 3	Stage IIIA/Tier 3	Stage IIIA/Tier 3
Cooling system	Liquid	Liquid	Liquid
Intake	Turbo compressor after-cooler	Turbo compressor after-cooler	Turbo compressor after-cooler

DIFFERENTIAL AXLES

Vehicle model	AGRI STAR 37.7	AGRI STAR 37.8	AGRI STAR 38.10
Type of axles	2 steering, with 4 planetary reduction gears	2 steering, with 4 planetary reduction gears	2 steering, with 4 planetary reduction gears
Type of steering	4 wheels / transversal / 2 wheels	4 wheels / transversal / 2 wheels	4 wheels / transversal / 2 wheels
Front axle	Rigid	Rigid	Rigid
Rear axle	Swinging	Swinging	Swinging
Service braking	Oil bath with servo brake on front axle	Oil bath with servo brake on front axle	Oil bath with servo brake on front axle
Parking braking	Negative actuation with electrical control	Negative actuation with electrical control	Negative actuation with electrical control

HYDRAULIC SYSTEM

Vehicle model	AGRI STAR 37.7	AGRI STAR 37.8	AGRI STAR 38.10
Hydraulic pump type	Gear pump for power steering and movements	Gear pump for power steering and movements	Gear pump for power steering and movements
Hydraulic pump capacity	130 L/min (34,3 gal/min)	130 L/min (34,3 gal/min)	130 L/min (34,3 gal/min)
Max. operating pressure	24,0 MPa (3481 psi)	24,0 MPa (3481 psi)	24,0 MPa (3481 psi)
Distributor control	4in1 proportional Joystick	4in1 proportional Joystick	4in1 proportional Joystick

REFUELING

Vehicle model	AGRI STAR 37.7	AGRI STAR 37.8	AGRI STAR 38.10
Hydraulic system (total)	140,0 L (36,98 gal)	140,0 L (36,98 gal)	140,0 L (36,98 gal)
Fuel tank	160,0 L (42,27 gal)	160,0 L (42,27 gal)	160,0 L (42,27 gal)

TRANSMISSION

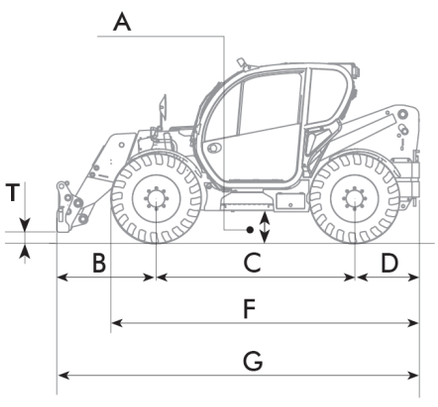
Vehicle model	AGRI STAR 37.7	AGRI STAR 37.8	AGRI STAR 38.10
Transmission type	Hydrostatic with variable flow pump	Hydrostatic with variable flow pump	Hydrostatic with variable flow pump
Hydraulic motor	Hydrostatic with continuous automatic adjustment	Hydrostatic with continuous automatic adjustment	Hydrostatic with continuous automatic adjustment
Reversal	Electro-Hydraulic	Electro-Hydraulic	Electro-Hydraulic
Inching	With hydraulic pedal for controlled forward movement	With hydraulic pedal for controlled forward movement	With hydraulic pedal for controlled forward movement
Transmission gearbox	Servocontrolled 2-speed	Servocontrolled 2-speed	Servocontrolled 2-speed

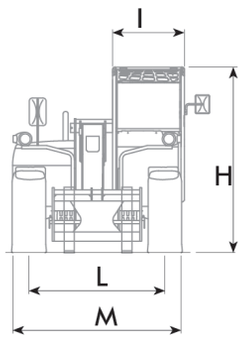
TIRES

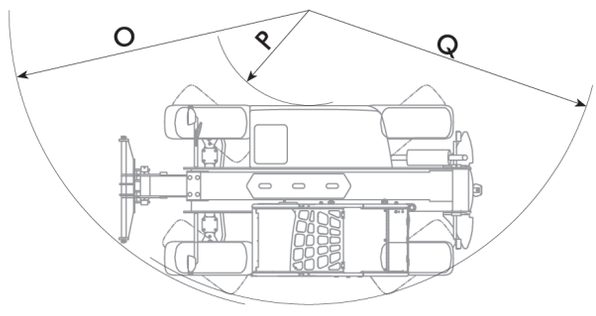
Vehicle model	AGRI STAR 37.7	AGRI STAR 37.8	AGRI STAR 38.10
Standard tires	400/70x20"	400/70x20"	400/70x20"
Optional tires	400/70x24"; 18x22.5"	400/70x24"; 18x22.5"	400/70x24"; 18x22.5"

DIMENSIONS

Vehicle model	AGRI STAR 37.7	AGRI STAR 37.8	AGRI STAR 38.10
A	340 mm (13,4 in)	340 mm (13,4 in)	340 mm (13,4 in)
B	1380 mm (54,3 in)	1620 mm (63,8 in)	1380 mm (54,3 in)
C	2600 mm (102,4 in)	2600 mm (102,4 in)	2600 mm (102,4 in)
D	970 mm (38,2 in)	970 mm (38,2 in)	970 mm (38,2 in)
F	4060 mm (159,8 in)	4060 mm (159,8 in)	4060 mm (159,8 in)
G	4950 mm (194,9 in)	4950 mm (194,9 in)	4950 mm (194,9 in)
H	2310 mm (90,9 in)	2310 mm (90,9 in)	2310 mm (90,9 in)
I	940 mm (37 in)	940 mm (37 in)	940 mm (37 in)
L	1780 mm (70,1 in)	1780 mm (70,1 in)	1780 mm (70,1 in)
M	2290 mm (90,2 in)	2290 mm (90,2 in)	2290 mm (90,2 in)
O	3700 mm (145,7 in)	4050 mm (159,4 in)	3700 mm (145,7 in)
P	950 mm (37,4 in)	950 mm (37,4 in)	950 mm (37,4 in)
Q	3450 mm (135,8 in)	3450 mm (135,8 in)	3450 mm (135,8 in)
T	175 mm (6,9 in)	160 mm (6,3 in)	220 mm (8,7 in)







MAX 3,7 t

500 mm

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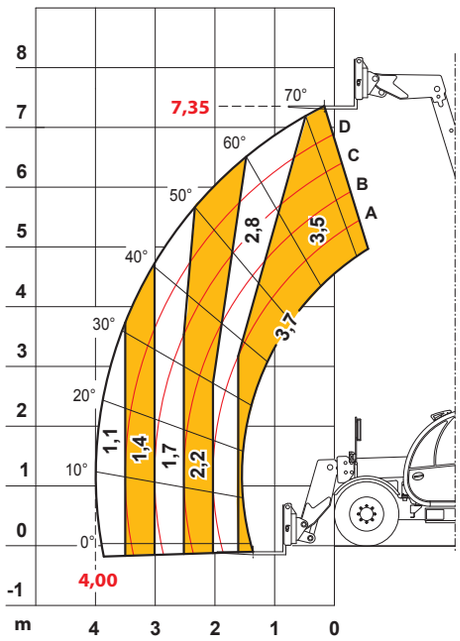

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37.7

MAX 3,7 t

500 mm

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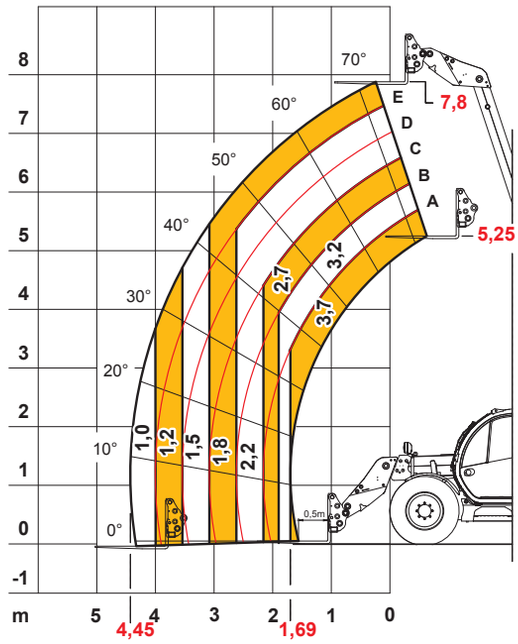

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MAX 3,8 t

500 mm

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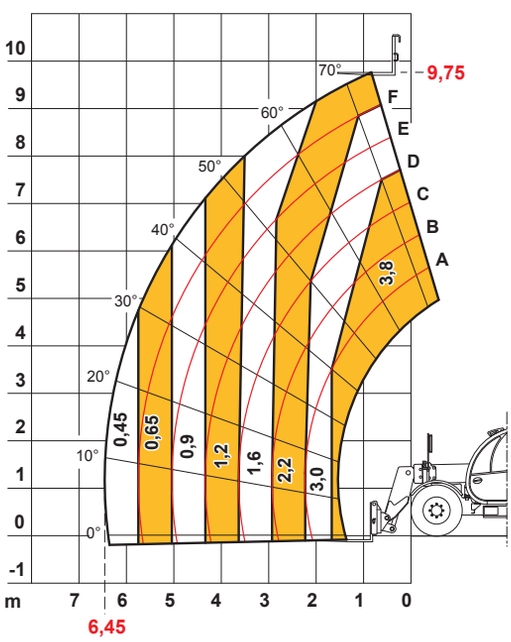

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