

TW16 FORKLIFT TRUCK

Minimum dimensions and maintenance. Lifting capacity of 1,600 kilos. 4x4 or 4x2 traction with in-wheel motor technology

Thanks to wheel motor technology, the TW16 forklift, designed in 2019, is placed in the forefront of the industrial and logistics sector. The hydraulic motors located in the each wheel axle provide a perfect transmission of power to the ground, thus gaining in efficiency and minimizing the loss of energy between combustion and translation. This type of equipment is much simpler than the old one with differential axles, has fewer mechanical parts, less weight, less fuel consumption and requires less service. In other words: longer machine life with greater savings in fuel and maintenance.

The wheel motor feature incorporates an anti-skid block system coordinating the effort of the wheels. It provides more or less power depending on the action of each wheel allowing the assembly to work in sync. This ensures a perfect relationship between the wheels and the size of them becomes irrelevant. The grip is assured in all circumstances and surfaces.

The TW16 forklift truck is powered by a 25 HP Kubota diesel engine, which guarantees the highest performance without reducing its useful life. This engine has a peculiarity that makes it very valuable. It complies with Stage V emissions without the electro-

The mechanical engine complies with phase V of emissions. It does not require particle filters or electronic injection.

nic injection or particle filter requirement. It means savings in filters (avoiding filter regeneration) and savings in engine servicing (since the engines with electronic parts involve higher service costs).

In accordance with the European Union regulation this Kubota engine is limited to 2,300 rpm and 19 KW. However, the torque remains at the initial value: 92.5 Nm. In this way, it provides high power with a low fuel consumption.

With a height of 207 cm, a width of 140 cm and a ground clearance of more than 40 cm, the TW16 is



In-wheel motor. Each of the driving wheels has a hydraulic motor on its axle that performs the translation movement.



Zero maintenance. Lacking differential bridges maintenance is reduced to the minimum. The truck is designed not to fail.



Compact size. It has a height of 207 cm and a width less than a meter and a half. The ground clearance exceeds 40 cm.



Mechanic engine: 26 CV Kubota. Complies with the V phase of emissions. No need for electronic injection or particle filter.

unique in the market due to the combination between the so small dimensions and such strong power. The 4 m external turning circle emphasizes the agility and maneuverability in very narrow environments such as building industry, greenhouses, orchards, vineyards. And even the rental market.

The hydraulic wheel motor technology does not require periodic overhauls or component replacement, so, in practice, there is no need for repairs. The system contains fewer mechanical parts than a standard differential axles. In addition, the self-lubricating system engaged by the transmission oil, keeps the components in optimum condition during the work sessions. A single oil system is used for all components. Along the oil circuit there are several minimex, which allow the user to verify if the working pressure is correct in accordance with the optimal parameters of the hydraulic system. All of this configuration, including the engine Stage V that does not require a particle filter, highlights a model with a near-zero maintenance cost.

This forklift moves with great reliability in rough terrain and overcomes obstacles such as kerbs, stones, mud without flinching. This happens thanks to the magnificent weight distribution on the chassis, the large size of the wheels, the anti-skid block system and of

In the market there is no forklift truck with similar power and such small dimensions

course the 4x4 WD. It also develops very smoothly during loading and unloading tasks. The slow approach inching system provides flawless precision in the handling operations.

The TW16 forklift represents a technological leap in the forklifts sector, including the Agrimac own range. It's the evolution of the TH-160 includes major improvements difficult to surpass: the wheel motor technology, more compact, better balanced, higher ground clearance and lower fuel consumption.



Compact size. Ideal for working in fields of crops and reduced spaces



High ground clearance



High maneuverability in narrow spaces

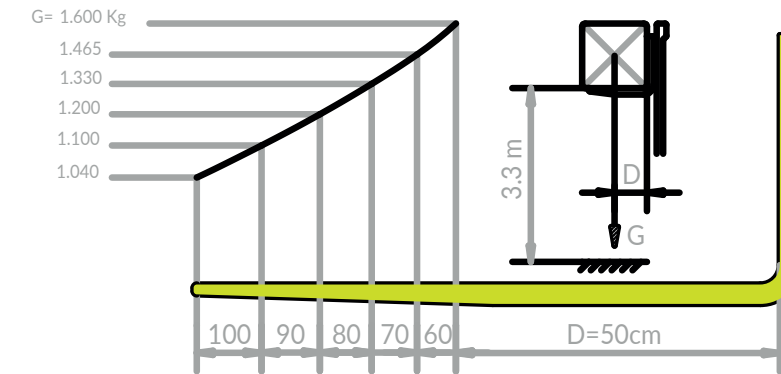


Easy to transport

TW16

GENERAL		Unit
Payload	kg	1,600
Unladen weight	kg	2,480 (With 3.6 duplex mast)
ENGINE		Unit
Make / Model	-	Kubota V1505
Power	kW / CV	18.5 / 25
Torque	Nm	92,5
Cubic capacity	cm ³	1,498
Number of cylinders	-	4
Revolutions per minute	rpm	2,300
Emissions stage	-	V
Alternator	V-A	12 - 40
Cooling	-	Liquid
RUNNING		Unit
Gearing	-	1 Forward 1 Reverse Slow approach system
Top speed	km/h	18
Gradeability	%	30
Inner turning circle	mm	2,375 (4x4)
Outer turning circle	mm	4,075 (4x4)
Steering	-	Hydraulic with priority valve
Traction	-	4x2 / 4x4
Brakes	-	Hydrostatic to drive wheels. Servo to front wheels. Parking system automatic to front wheels
Wheels	-	Front: 10,0/75 -15,3 Rear: 7.00-12
HYDRAULIC SYSTEMS		Unit
Transmission	-	In-wheel motor
Displacement pump		
Flow	l/min	120
Pressure	bar	400
Working pump		
Flow	l/min	24
Pressure	bar	180
TANKS		Unit
Fuel	l	35
Oil	l	35
EQUIPMENT		Unit
Battery	V - Ah	12 - 44
Mast	m	Duplex: 2.5 / 3.14 / 3.6 Triplex: 3.0 / 4.0

TW16



MASTS	
Duplex 2.50 m	2,080 mm
Duplex 3.14 m	2,720 mm
Duplex 3.60 m	3,180 mm
Triplex 3.00 m	1,840 mm
Triplex 4.00 m	2,200 mm

