

Carretilla elevadora TW35

The only all-terrain forklift with in-wheel motors capable of lifting 3.5 tonnes.

The most compact forklift with the best load-to-weight ratio on the market.

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The **TW35 forklift** is a **hydrostatic** model capable of lifting **3,500 kilos** to a height of **six metres**. It has two thermal engine options depending on the forklift's area of use. For the **European Union**, it is equipped with a **51 HP Kohler engine with DPF**. Outside the EU, it features a **50 HP Perkins engine without DPF**. In both cases, they are equipped with **4x4 in-wheel motors**.



The choice of **in-wheel motor** configuration defines the overall design of the machine. The result is a vehicle without differential axles, in other words, more **lightweight**; with fewer components and a smaller size while retaining load capacity. The improvement with the introduction of this motorisation can be observed by comparing the dimensions and weight of the TW35 with previous forklifts model **TH-350**. The choice of **in-wheel motor** configuration defines the overall design of the machine. The result is a vehicle without differential axles, in other words, more **lightweight**; with fewer components and a smaller size while retaining load capacity. The

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ADVANTAGES OF IN-WHEEL MOTORS

This reduction in components directly results in **savings** in both **maintenance** tasks and spare parts. The second benefit is profitability. In a vehicle with in-wheel motors, the TCO and **cost per working hour are up to 35% lower** than that of a traditional forklift with differential axles.

The commitment of Agrimac's engineering team to this technology has achieved a formidable balance in this machine between the hydraulic system with a ****420-bar pump**** and the four ****in-wheel motors in parallel****, resulting in optimal performance with minimal fuel consumption.

The response of the TW35 on challenging terrains is unmatched by any other machine. Whether on snow, ice, bumps, puddles, or mud, the **anti-slip block** instantly coordinates the effort of each in-wheel motor, distributing the energy required for each wheel to ensure grip and more effectively transmit the engine's power to the ground.

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wheelbase. Added to this are the **345 mm of ground clearance**, ensuring it can smoothly overcome all types of obstacles.

The **maximum slope** of the TW35 is a feature that deserves to be highlighted on a sticker on the body. It can operate at full load on slopes of up to **35%** in the 4PX version and up to 25%

The ratio between the machine's operating weight and its load capacity is 1.20. This figure is one of the indicators that allows for an assessment of the design. Of course,

The TW35 has a **very low fuel consumption**, precisely due to the vehicle's low weight and the efficiency of the anti-slip block.



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features some improvements in the DPF layout, resulting in more efficient regenerations. Another innovation in the Agrimac forklift range is the elevated position of the exhaust pipe in this model.

The TW35 model incorporates innovations introduced in the medium forklift range, such as the **oil temperature control** set at 50 degrees using **two independent electric fans**, as well as the elevated air intake mushroom, which aids in cooling by drawing in clean air.

In terms of transmission, it is worth noting that the high capacity of the TW35 is partly due to the incorporation of the **Linde pump**, which allows pressures of up to **420 bar** and is one of the main reasons for its **high performance** on slopes and rough terrains. It should also be mentioned that the 4x4 transmission is disengageable and configured in parallel. This setup allows a transmission flow controller to distribute the effort of each axle, according to the forklift operator's preference. It is activated via a button on the dashboard, which initiates a timer to maintain a different power distribution between axles for a few minutes. For example, when climbing a ramp, the driver can allocate 75% of the power to the rear wheels and 25% to the front. Once the timer expires, the differential lock disengages, and power is distributed as in a standard 4x4.

As with the other Agrimac models, the TW35 includes four **minimex** units accessible from the outside of the vehicle.

The **cabin** of this forklift is spacious, with a **wide view** of both the surroundings and the load in any position. The driver's seat is very comfortable. It is mounted on four shock absorbers with a double **anti-vibration system**, just like the engine. The feeling of comfort, control, and driving precision is immediately apparent.

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In terms of **safety**, several features stand out: the first is the brake priority valve, which increases the ****braking force with minimal pedal pressure****. Another key safety feature is the **negative brake**.

The TW35 also features an **emergency braking system** when powered off and an emergency button on the dashboard that shuts down the systems and activates the negative brake.

Additionally, the forklift is configured to stop and activate the negative brake if the **seat pressure sensor** detects that the driver is not seated. The control unit can also be set to prevent the machine from moving if the driver's seat belt is not fastened.

These **safety configurations** are controlled from the **forklift interface**. It is a screen with control buttons that displays information from the engine and pump control units as well as sensors distributed throughout the machine. From here, gears, electronic acceleration stabilisation, and many other options can be configured.

The TW35 is the **top of the range** among Agrimac forklifts. A true flagship of our brand. It is manufactured with the highest quality materials and equipped with the best components. Its design is the result of decades of accumulated knowledge by Agrimac's engineers. It has far exceeded the most demanding tests to meet our customers' expectations for excellence.

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- Unladen weight: 4.211 kg con mástil tríplex 4.5 m

Engine

- Kohler KDI 1903 TCR (common rail & DPF):
- 36,5 Kw • 51 HP:
- Torque 170 Nm @1.700 rpm:
- 1.900 cm³:
- 3 Cylinder:
- 2.600 rpm:
- Stage V:
- Alternator 12 V – 65 A:
- Liquid cooling:

Drive

- 2 forward + 2 back + Slow approach system:
- Top speed: 24 km / h:
- Optimum gradeability:
 - Con carga: 25%
 - Sin carga: 50%
- Turning radius:
 - Exterior: 4.400 mm
 - Interior: 2.100 mm
- Steering: Hidraulic with priority valve:
- Traction: 4x4 disconnectable:
- Brakes:

- Unladen weight: 4.211 kg con mástil tríplex 4.5 m

Engine

- Perkins 404D-22:
- 36,5 Kw • 50 HP:
- Torque 139 Nm @1.800 rpm:
- 2.200 cm³:
- 4 Cylinder:
- 2.800 rpm:
- Stage III:
- Alternator 12 V – 65 A:
- Liquid cooling:

Drive

- 2 forward + 2 back + Slow approach system:
- Top speed: 24 km / h:
- Optimum gradeability:
 - Sin carga: 50 %
 - Con carga: 35%
- Turning radius:
 - Interior: 2.100 mm
 - Exterior: 4.400 mm
- Steering: Hidraulic with priority valve:
- Traction: 4x4 disconnectable:
- Brakes:
 - Hidrostático a las cuatro ruedas

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- Traseros: 10/75-15,3

Hydraulic system

- Transmission: Hydrostatic Poclain motor to wheel:
- Displacement pump Linde HPV 55-02R:
 - Caudal: l/min
 - Presión: 420 bar
- Working pump: Galtech 2SP-160:
 - Caudal: 28 l/min
 - Presión: 160-180 bar

Deposits

- Fuel: 50 l:
- Oil: 50 l:

Standard equipment

- Battery: 12 V– 120 A:
- Standard equipment: Negativbrake:

Extra equipment

- Masts:
 - Tríplex: 4,5 m
- Closed cabin with heating and air condition:
- 4. valve kit:

- Traseros: 10/75-15,3

Hydraulic system

- Transmission: Hydrostatic Poclain motor to wheel:
- Displacement pump Linde HPV 55-02R:
 - Caudal: l/min
 - Presión: 420 bar
- Working pump: Galtech 2SP-160:
 - Caudal: 30 l/min
 - Presión: 180 bar

Deposits

- Fuel: 50 l:
- Oil: 50 l:

Standard equipment

- Battery: 12 V– 74 A:
- Standard equipment: Negativ brake (parking) • Security cabin FOPS • Ergonomic seat with position adjustment and armrest • Security seatbelt • Gyrobeacon • Acoustic reverse gear warning:

Extra equipment

- Masts:
 - Tríplex: 4,5 m
- Closed cabin with heating and air

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About Us

Agrimac is the machinery division of the company Agria Hispania, founded in 1958 in the Biscayan town of Amorebieta.

More than 60 years later we continue assembling machines in the same factory where we started. We maintain the same passion for mechanics and technology as well as the ambition to continue growing. This drive and our international commercial network has taken our brand to all five continents.

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