

the agriculture/forestry system, is centred on biomass energy production, where the chipper units represent the main and basic components for the production and management of the wooden combustible material.

A compact design is made for industrial use in areas with infrastructural limits, such as narrow roadways and the reduced operation areas. Similar models assembled on forwarders are not allowed to road circulation, while those mounted on trucks cannot move in fields.

"This new model is ideal to operate in the plantations outside the forest and is able to satisfy all the necessities of a fragmented and diversified property, i.e. orchards, poplar forests, and copses," Pezzolato said.

The drive is four-wheel and three different steering modes are possible: both axles separately, together, or only frontal axle.

The low position of the feeding

inlet increases throughput for either "little heaps of material", such as the ones present in poplar forests or orchards; and "great piles of the wooden material", such as those collected on the road sides.

"This peculiarity highlights once more the machine versatility in so many different situations," the manufacturer said. "In order

to facilitate the introduction of voluminous material such as branches, the inferior introduction roller has been changed with a longer feeding chain, able to transfer the material directly to the drum."

The drum has been designed to produce premium quality chips, thus meeting the growing demand of the more up-to-date biomass



"A self-propelled chipper with specific functioning devices that are a real novelty on the Italian and European market" is how Pezzolato describes its PTH All-Road chipper. An essential part of the design, especially studied for



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### Specifications

Diesel engine power	Hp/kW 551 hp/405 kW
Maximum chipping diameter	560 mm
Knives	5
Hourly throughput	110/130 m <sup>3</sup> /h
Drum diameter	820 mm
Drum width	1,330 mm
Feeding chain width	1,330 mm
Feeding chain length	1,700 mm
Hopper width	2,100 mm
Hopper height from the ground	1,050 mm
Weight	26,000 kg
Dimensions (L x W x H)	9,500 x 2,550 x 3,400 mm

stations – particularly gasification units that are increasing diffusion and are actually threatened by the difficulty in finding chips of the right dimension – opens up a profitable market in desperate need of supply.

The width is 1,400 mm with a weight of 3,500 kg that is section-divided in order to better distribute the machine stress on the different components, reduce vibrations, noise and consumption (30% less compared with like machines).

The chip expulsion fan with continuous speed regulation allows speeds to be adjusted according to requirements, decreasing energy consumption.

The 550 hp turbo-charged motor Stage IV (Euro VI) is equipped with the EGR (exhaust emission blow-by) and SCR (Ad-Blue) systems, and avoids

drawing on the diesel particulate filter, which would reach high temperatures during the regeneration, exceeding those required to be assembled safely on a chipper working in sawdust conditions.

The wholly glazed box is equipped with controls for total machine management – both for machine movement and for chipping – with two 325 mm (12.1 in) coloured touch-screens. In order to broaden the area accessed by the crane and to better the visibility of the area where the wood is loaded, the box can be lifted and turned by around 45°.

A 'moistmeter' for the real-time reading of product humidity is standard, delivering a precise estimation of the energy value of each load and its product quality.