

INTRODUCING THE TW 280HB HYBRID

With an enviable heritage, Timberwolf recognises our responsibility and the need to move towards more sustainable solutions. Developed to meet a growing need in the industry, the TW 280HB HYBRID offers 62hp of peak power but with Kubota Super Mini Series engine levels of emissions - ideal for the most challenging of jobs.

Simple to maintain, the TW 280HB HYBRID wood chipper is ideal for companies and organisations who are committed to minimising their emissions and fuel usage whilst not compromising on performance.

The Powertrain - How Does it Work?

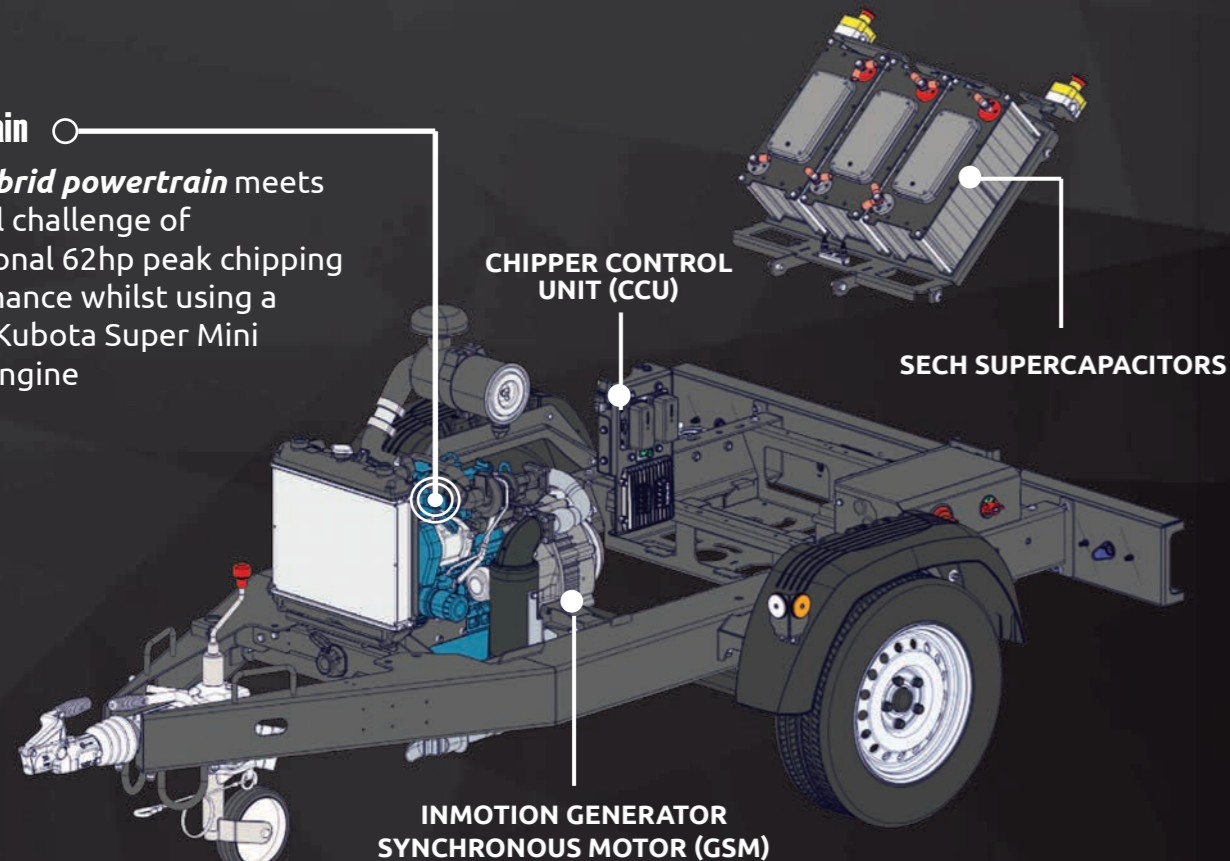
When idling, the D902-TE4 turbo diesel engine directs energy into the Inmotion Generator Synchronous Motor (GSM) and drives energy recovery to the rotor (maintaining target RPM). During this period with no chipping load, the SECH supercapacitors are charged by the GSM as instructed by the Chipper Control Unit (CCU).

When chipping starts, the rotor RPM naturally drops. If this RPM drops to a pre-determined set-point, the CCU will prompt the demand for additional energy. This is supplied according to the load mode automatically detected by the CCU based on the rate of decay.

This additional energy, stored in the supercapacitors, is directed back into the GSM where it now acts to provide additional recovery energy to the rotor. The result is enhanced efficiency and chipping capability for the user when they need it most.

Powertrain

Mild hybrid powertrain meets the dual challenge of exceptional 62hp peak chipping performance whilst using a 24.8hp Kubota Super Mini Series engine



HYBRID

1. Kubota Engine

Kubota D902-TE4 turbo diesel engine: selected for its pedigree and high RPM, this Super Mini Series engine provides outstanding applied torque.

3. Infeed

210 mm (8 1/4") Infeed: recognised as the preferred solution for large ground-care teams and arborists alike

Safety as standard:

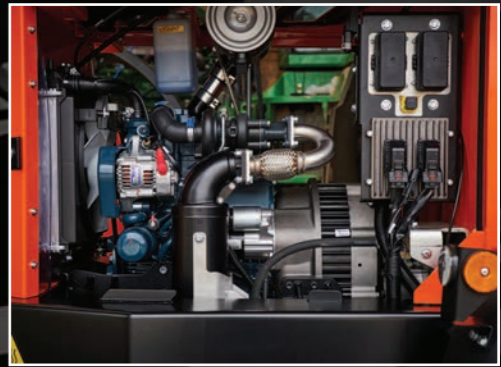
- Tray switch to ensure infeed safe distance
- Anti-tamper control bar covers
- Infeed protective devices (top and side)
- Safety curtain
- Easily accessible isolation switches
- Improved prop stand

2. Easy ownership built in

With Timberwolf quality built in, the supercapacitors and motor generator are maintenance free.

4. Supercapacitors

With unlimited cycle life and, in comparison to Li-ion batteries, supercapacitors are smaller. They store and release energy exceptionally quickly. SECH supercapacitors are recognised industry wide for their high reliability and performance.





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Features

- Class leading peak power of 62hp (46.3kW)
- Kubota D902-TE4, 24.8hp (18.5kW), turbo diesel engine
- With swift recharging capability, supercapacitors provide additional energy when required
- Maintenance-free, 37.3hp (27.8kW) generator synchronous motor (GSM) and supercapacitors
- All electrical components rated to IP68
- Auto-back off function as standard

Benefits

- Processing throughput of over 7 tonnes/hr
- Emissions and fuel consumption at Kubota Super Mini Series engine levels¹
- Self-charging system: no external charging required
- No diesel particulate filter (DPF) or Adblue™ requirement
- Less fuel quality sensitivity
- Patented exhaust gas cooler reduces exhaust temperatures by 150°C
- Enhanced operator diagnostics for easy troubleshooting

PLUS all the elements you would expect from the TW 280 range:

- EN13525 compliant
- 280mm x 210mm feed opening (210mm (8¼") cutting performance)
- 2 x quick access double-sided reversible blades
- Quad force rollers for ultimate crushing power
- 285° adjustable discharge chute
- Refined, ergonomic hitch/unhitch experience with connection storage points
- Timberwolf reliability and simplicity built-in

¹ Based on Kubota's emissions and fuel consumption data (testing over a fixed test cycle under laboratory conditions)

Specifications

TW 280HB HYBRID	
Peak power @ 3200 rpm	62hp (46.3kW)
Max torque @ 2400 rpm	172.2 Nm
DIESEL ENGINE	
Kubota D902-TE4 Turbo Diesel	
Max power at 3200 rpm	24.8hp (18.5kW)
Starting method	Electric
Fuel tank capacity	36 litres
GENERATOR SYNCHRONOUS MOTOR	
Inmotion Generator Synchronous Motor (GSM)	
Peak power at 3200 rpm	37.3hp (27.8kW)
DIMENSIONS	
Weight	1270 kg
Height	2304 mm
Height with discharge tube removed	1612 mm
Length (tray down)	3862 mm
Length (tray up)	3332 mm
Width	1653 mm
CHIPPING FEATURES	
Feed method	Twin series hydraulic quad force rollers
Auto back-off function	Included
Maximum diameter infeed	210 mm (8 ¼")
Discharge tube	285° adjustable discharge
Blades	2 x 158 mm quick access, double sided, fully hardened, reversible blades