

THE NEW PT-300

**PRIME
TECH**[®]
a brand of FAE Group



World wide support and customer service



PrimeTech is a brand of Italian based FAE Group (est. 1989) and is specializing in the design and manufacturing of mulchers and tracked carriers (prime movers). These dedicated carriers are designed for use in the forestry, agricultural and construction sectors all around the world. Entirely designed and manufactured by PrimeTech the PT Series integrates components supplied

exclusively by firms which are leaders for the quality they provide (John Deere, Danfoss, Berco, Parker, FAE, etc.). Our choice in these suppliers along with our strict design criteria, and commitment for innovation has enabled PrimeTech to gain an outstanding role in the prime mover market all over the world. Worldwide product support is guaranteed by FAE Group's 6 branch offices in Canada, Russia, USA,

Australia, Germany and France – and thanks to an international network of dealers covering almost all countries of the world. The great versatility of use and the considerable number of vehicles produced each year allow PrimeTech to purchase the components in large amounts and, consequently, to reduce the unit cost of production without sacrificing the use of high quality components.



A high performance brand



Our steel tracked carriers are designed and manufactured to perform at a very high output, this is because of the perfect integration of all their components: from the diesel engines ensuring high performances in the most heavy-duty applications, to the electronic components designed to guarantee smooth control of the vehicle, and capability to adapt to the specific working and environmental conditions.

The powerful hydraulic system has been chosen to provide a series of advantages over mechanical systems, for example:

- A larger lifting range for the front attachment, meaning greater flexibility
- Hydraulics act as a shock absorber: fewer vibrations get transmitted to the machine and its main parts resulting in less wear and tear and substantially reduce operating and maintenance costs.

The hydraulic system has been designed to ensure maximum protection of the hydraulic components by a number of filters and relief valves.

Both the engine radiator and oil cooler are oversized to guarantee enough cooling capacity and to avoid overheating even in hot climates.

Extremely low ground pressure



One of the main advantages of PT-300 is the extremely low ground pressure obtained. The oscillating undercarriage ensures, in fact, a wide contact surface resulting in excellent stability, smooth driving and extraordinarily low ground pressure.

The D4 HD undercarriage is engineered to work on very steep slopes and in very muddy and soft terrain (muskeg, marshland). Sealed and lubricated tracked chains and dozer-style rollers guarantee an extended lifetime, thus reducing maintenance and operating costs.

Unmatched versatility

Depending on customer's needs and requirements, the prime movers can be fitted with different front attachments for different applications. The ease to switch between front attachments allows customers to use the same PrimeTech carrier for forestry, agricultural and construction applications. All front attachments, made by FAE, are specifically designed to fit PrimeTech carriers. The rotor is designed so when grinding or milling, only one tooth is making contact with the tree or stump.

PT-300 can be fitted with:

- > The forestry mulcher **FAE 200/U** or **300/U**, available with different options and teeth for a wide range of applications:
- To clear land for the oil & gas business: seismic lines for oil exploration, pipelines, leases, etc.

- To clear land for the construction industry: roads, subdivisions, land development, site preparation, etc.
- Vegetation management: fence lines, power-lines, wind power parks, embankments of roads, railroads, highways, ROW clearing etc.
- Plantations: palm tree, pineapple, sugar cane, eucalyptus and pine plantations (site preparation)
- To cut fire-breaks for fire suppression

- > The forestry tiller / subsoiler head **FAE 200/S**, available with different options and teeth for a wide range of applications:
- Land conversion: clear stumps and roots to convert forests / pasture / woodland into farmland
- To clear stumps and roots before replanting in plantations, etc.

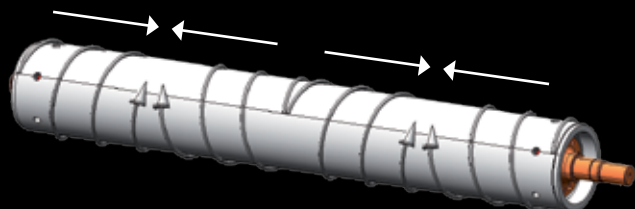
- To clear stumps and roots in road construction (after harvesting or mulching the trees)
- To strip the frozen top soil to allow excavators to dig
- > The soil stabilizer / asphalt grinder and rock crusher **FAE RSL/HY**, available with different options and teeth for a wide range of applications:
- To stabilize soil in road construction: mix the soil with additives like lime, cement, etc.
- To reclaim land for road preparation;
- To mill and profile asphalt of an existing pavement
- To crush rocks in road construction
- To build and maintain gravel and forestry roads
- To crush rocks on ski slopes to make snow making easier and better for snow-cats
- To crush rock on farmland and pastures



F&E: new improved rotor design with new generation teeth

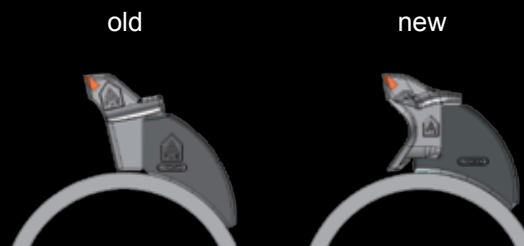
Double spiral rotor design

Double spiral layout guarantees even distribution of mulched material leaving no windrow of finished product in middle.



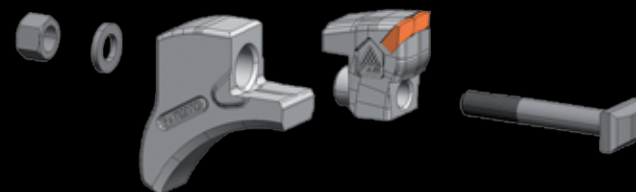
New tooth holder design

Larger welding surface of tooth holder to drum improving the mounting of the tooth and holder.



New tooth and bolt design

New, more resistant tooth and bolt design.



A wide range of teeth are available

200/U and 300/U (interchangeable teeth)



Tooth type C/3

Tooth type C/3-HD

Tooth type STCL/3

Tooth type K

Tooth type I

Tooth type C/3 blade

Tooth type B/3*

Tooth type B/3/HD*

*for 300/U only

200/S (interchangeable teeth)



Tooth type B/3

Tooth type B/3/HD

RSL/HY (interchangeable teeth)



Tooth type R 65**

Tooth type R/HD 65**

Tooth type R 44-22 with adaptor**



Tooth type G/3***



Tooth type G/3/R 44 with adaptor***

**interchangeable rotor type R teeth

***interchangeable rotor type G teeth

Reliability, operator- and service- friendly

Our PT carriers are known for their high reliability and reduced machine downtime. The unique design choices are oriented in maximizing efficiency and productivity, while reducing operating costs. Due to their efficient and functional design, all parts of our carriers are easily accessible. As a result, routine maintenance operations are easily carried out without wasting valuable time.



Our carriers are designed with the operator in mind: comfort, ease of use and high visibility are all taken into consideration. In particular, the cabin has a series of strong points:

- A spacious interior with great visibility
- A level of sound-proofing that is the best in the market (78 dB with the front attachment working!)
- The lowest level of vibrations
- Ergonomic position of joysticks
- Easy to use display and control panel
- The air conditioning system
- Comfort and air suspended driver's seat
- MP3 / CD player®
- Lexan Margard® cabin windshields, made in highly shock-proof and scratch resistant material
- Double emergency exit on top and at the side of the cabin
- ROPS/FOPS/OPS - approved
- LED lights



Custom-made options: the flexibility you were looking for



Screen for front windshield



Rear winch with 5,6 t pulling power



GPS GARMIN satellite system



Rock guards



Rear view camera with separate LCD display



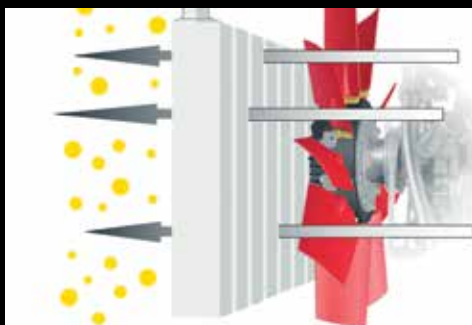
Air-shut-off system



Additional light package



Fire suppression system



Reversible fan



Air cleaning system for front windshield

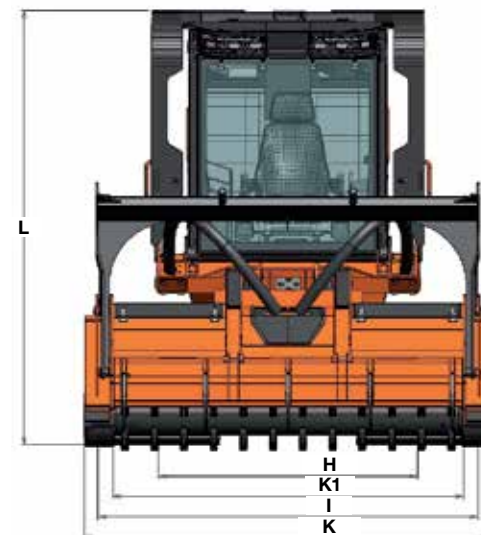
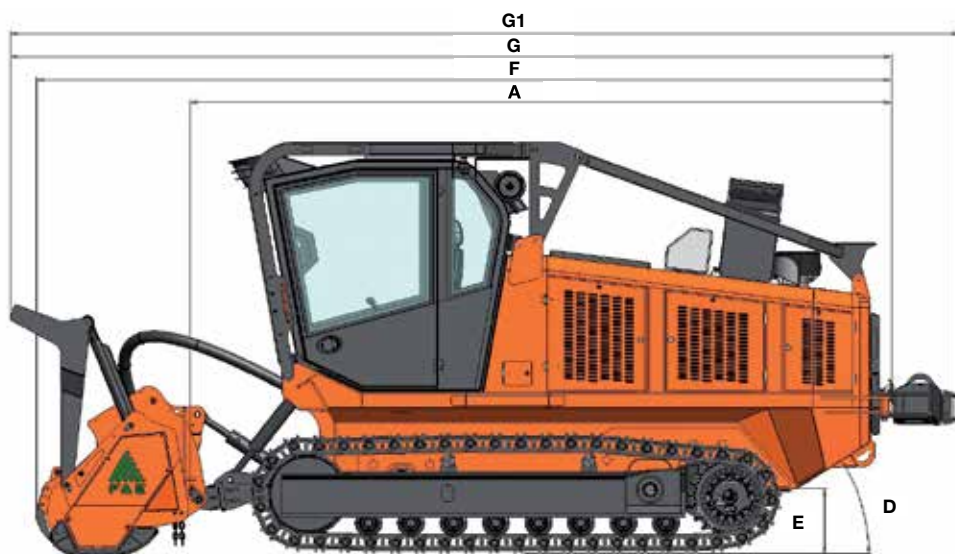


Air compressor and air tank



Floating D-attach for H-frame

PT-300: Technical specifications



> DIMENSIONS

| | | |
|---|--------|---------|
| A Overall length without mulcher | 192 in | 4870 mm |
| D Hitch angle | 32° | |
| E Ground clearance | 18 in | 456 mm |
| F Overall length with mulcher on ground | 234 in | 5936 mm |
| G Transport length with mulcher on ground | 241 in | 6117 mm |
| G1 Transport length with mulcher on ground and winch | 259 in | 6590 mm |
| L Max height | 113 in | 2870 mm |

| VERSION | STD | LGP |
|------------------------------|---------------|----------------|
| Track width | 26 in 660 mm | 32 in 800 mm |
| H Track gauge | 67 in 1700 mm | 67 in 1700 mm |
| I Overall track width | 93 in 2360 mm | 98 in 2500 mm |
| FAE ATTACHMENT | 200/U-200 | 200/U-225 |
| K Overall width | 95 in 2420 mm | 105 in 2660 mm |
| K1 Working width | 81 in 2060 mm | 90 in 2300 mm |

> MAIN KEYS

| | | |
|-------------------------------------|---------------------------|-----------|
| • Max forward speed | 5 mph | 8 km/h |
| • Max reverse speed | 5 mph | 8 km/h |
| • Drawbar pull | 42500 lbf | 18900 daN |
| • Gradeability | 100% | |
| • Tracks control | Danfoss Electric Joystick | |
| • Service hydraulic circuit control | Danfoss Electric Joystick | |
| • Parking brake | Automatic | |

| VERSION | STD | LGP |
|--------------------|----------------------|----------------------|
| • Track width | 26 in 660 mm | 32 in 800 mm |
| • Operating weight | 27756 lbs 12590 kg | 29652 lbs 13450 kg |
| • Ground pressure | 3.95 psi 0,28 kg/cm² | 3.25 psi 0,23 kg/cm² |

> DIESEL ENGINE

| | | |
|----------------|----------------------|--------|
| • Model | John Deere 6068HF485 | |
| • Gross Power | 275 HP | 205 KW |
| • Rating | 2400 rpm | |
| • Displacement | 415 in³ | 6,8 l |

| | | |
|-------------------|----------------------------|---------|
| • N° of cylinders | 6 | |
| • Torque max | 756 lb-ft | 1025 Nm |
| • Fuel rate from | 7 gal/h | 27 l/h |
| • Emission | Euromot 3/Tier 3, Stage 3A | |

| > HYDROSTATIC TRACKS TRANSMISSION | | | | > HYDROSTATIC MULCHER TRANSMISSION | | | | | | |
|-----------------------------------|-------------------|-----------|---|------------------------------------|---|--------------------------------|---|-------------------|------------------|------------------|
| • Pumps (2) | Danfoss | 75 cc | | • Pump (1) | Danfoss | 130 cc | | | | |
| • Motors (2) | Danfoss | 80 cc | | • Motors (2) | Danfoss | 110 cc | | | | |
| • Max pressure | 6000 psi | 420 bar | | • Work pressure | 4650 psi | 320 bar | | | | |
| • Oil flow | 107 gal/min | 405 l/min | | • Oil flow | 93 gal/min | 353 l/min | | | | |
| • Hydraulic Emergency stop | | | | | | | | | | |
| > REFILLING | | | | > UNDERCARRIAGE AND TRACKS | | | | | | |
| • Hydraulic oil tank | 87 gal | 330 l | | • Undercarriage | D4, oscillating | | | | | |
| • Fuel tank | 87 gal | 330 l | | • Track shoes single grouser type: | 26 in | 660 mm | | | | |
| | | | | double grouser type: | 32 in | 800 mm | | | | |
| > FAE ATTACHMENT 200/U | | | | | | | | | | |
| MODEL | 200/U-200 | | 200/U-210 | | 200/U-225 | | MODEL | 200/U-200 | 200/U-210 | 200/U-225 |
| • Rotor diameter | 20 in | 500 mm | 20 in | 500 mm | 20 in | 500 mm | • Quantity of cutting teeth tungsten carbide type “C/3” | 42+2 | 44+2 | 46+2 |
| • Overall width | 95 in | 2420 mm | 98 in | 2500 mm | 105 in | 2660 mm | • Rotor rpm | 2000 | | |
| • Working width | 81 in | 2060 mm | 85 in | 2160 mm | 90 in | 2300 mm | • Hydraulic motor type (2) | Danfoss 110 cc | | |
| • Weight with options | 4960 lbs | 2250 kg | 5192 lbs | 2355 kg | 5578 lbs | 2530 kg | | | | |
| • Max. working depth | 3 in | 80 mm | 3 in | 80 mm | 3 in | 80 mm | | | | |
| • Grinding diameter (max) | 14 in | 350 mm | 14 in | 350 mm | 14 in | 350 mm | | | | |
| > FAE ATTACHMENT 300/U | | | | | | | | | | |
| MODEL | 300/U-200 | | MODEL | | 300/U-200 | | | | | |
| • Rotor diameter | 23 in | 600 mm | • Quantity of cutting teeth tungsten carbide type “B/3” | 72+2 | | | | | | |
| • Overall width | 98 in | 2494 mm | • Rotor rpm | 1690 | | | | | | |
| • Working width | 81 in | 2064 mm | • Hydraulic motor type (2) | Danfoss 110 cc | | | | | | |
| • Weight with options | 7341 lbs | 3330 kg | | | | | | | | |
| • Max. working depth | 4 in | 100 mm | | | | | | | | |
| • Grinding diameter (max) | 16 in | 400 mm | | | | | | | | |
| > FAE ATTACHMENT 200/S | | | | | | | | | | |
| MODEL | 200/S-200 | | 200/S-225 | | MODEL | | 200/S-200 | 200/S-225 | | |
| • Rotor diameter | 23 in | 600 mm | 23 in | 600 mm | • Quantity of cutting teeth tungsten carbide type “B/3” | 74+4 | | 82+4 | | |
| • Overall width | 93 in | 2360 mm | 102 in | 2600 mm | • Rotor rpm | 480 | | | | |
| • Working width | 82 in | 2080 mm | 91 in | 2320 mm | • Hydraulic motor type (2) | Bosch Rexroth 180 cc | | | | |
| • Weight with options | 6063 lbs | 2750 kg | 6989 lbs | 3170 kg | | | | | | |
| • Max. working depth | 12 in | 300 mm | 12 in | 300 mm | | | | | | |
| • Grinding diameter (max) | 12 in | 300 mm | 12 in | 300 mm | | | | | | |
| > FAE ATTACHMENT RSL/HY | | | | | | | | | | |
| MODEL | RSL/HY-200 | | RSL/HY-225 | | MODEL | | RSL/HY-200 | RSL/HY-225 | | |
| • Rotor diameter | 23 in | 595 mm | 23 in | 595 mm | • Quantity of cutting teeth tungsten carbide type “R” | 138+16 | | 154+16 | | |
| • Overall width | 93 in | 2360 mm | 102 in | 2600 mm | • Quantity of cutting teeth tungsten carbide type “G/3” | 64+4 | | 74+4 | | |
| • Working width | 77 in | 1960 mm | 87 in | 2200 mm | • Rotor rpm | 200 - 500 | | | | |
| • Weight with options | 7408 lbs | 3360 kg | 7848 lbs | 3560 kg | • Hydraulic motor type (2) | Variable speed 485 cc – 190 cc | | | | |
| • Max. working depth | 11 in | 270 mm | 11 in | 270 mm | | | | | | |
| • Grinding diameter (max) | 6 in | 150 mm | 6 in | 150 mm | | | | | | |

The NEW PT-300

05/15

Most reliable and lowest ground pressure mulcher, even better now!



FAE Group S.p.A.
PrimeTech Division
Via G. Marconi, 20 // 38011 Sarnonico (TN) // Italy
Ph. +39 0463 840 080 // Fax +39 0463 840 099

PrimeTech Shredding Equipment Ltd.
Branch Office
PO Box 4265, 110 Saskatchewan Ave - Spruce Grove, AB, T7X 3B4 // Canada
Ph. 780-948-8882 // Fax 780-948-8886

Please visit our web page to contact your nearest dealer: www.prime-tech.com // info@prime-tech.com