Composting Machinery
Waste Recycling Plants
Roadside Equipment

Catalogue
MENART

About us

> Since 1961, MENART company is fully dedicated to designing and manufacturing composting machines and waste sorting plants for environmental care and recycling.

> MENART new factory is located in the south of Belgium in environmentally-friendly buildings. All equipment is designed and assembled by our qualified engineers and technicians.

> MENART is proud to have its equipment bringing solutions and satisfaction to a very diversified range of industries and needs (industry and agriculture).
MENART is an international oriented company exporting all over the world.
MENART continues to expand worldwide thanks to an extensive net of dealers and customers.
MENART dealers actively participate in sales and after-sales to guarantee the satisfaction of our customers.
MENART designs and supplies household waste sorting equipment to recover valuable materials. Along with its organic waste recycling machines, MENART provides a full solution for municipalities.

Possible extensions to the MBT plant: balers for recyclable materials; RDF equipment; waste to energy; ...
Advantages of MBT plants

> Safe for environment and human health;
> Extended landfill lifecycle;
> Saleable commodities (glass, cardboard, plastics, metals, compost, RDF);
> Employment and social development.

Advantages of MENART solutions

> Tailor-made sorting lines;
> Simplicity, robustness and reliability;
> Easy to operate and to maintain;
> Wide scope of services from engineering to local training;

REFERENCES

Vietnam, Pakistan, Bulgaria, Romania, Algeria,...
Self-propelled windrow Turners
MENART SPM series

> Outstanding capacities
> Powerful & robust
> All-terrain manoeuvrability
> High quality of aeration
> Extensive choice of models
> Operator comfort & safety

<table>
<thead>
<tr>
<th></th>
<th>SPM-36</th>
<th>SPM-47</th>
<th>SPM-58</th>
<th>SPM-63</th>
<th>SPM-73</th>
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<tbody>
<tr>
<td>Engine Power hp</td>
<td>145</td>
<td>228</td>
<td>275</td>
<td>350</td>
<td>630</td>
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<tr>
<td>Max windrow width m (ft)</td>
<td>3,6 (11’9”’')</td>
<td>4,7 (15’5”’’)</td>
<td>5,8 (19’’')</td>
<td>6,3 (20’8”’’</td>
<td>7,3 (23’11”’)</td>
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<tr>
<td>Tunnel height m (ft)</td>
<td>1,7 (5’6”’')</td>
<td>1,9 (6’2”’’)</td>
<td>2,1 (6’10”’’</td>
<td>2,4 (7’10”’’</td>
<td>2,8 (9’2”’’)</td>
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<tr>
<td>Max windrow height -tunnel raised m (ft)</td>
<td>2,1 (6’10”’’</td>
<td>2,4 (7’10”’’</td>
<td>2,6 (8’2”’’)</td>
<td>2,9 (9’6”’’</td>
<td>3,3 (10’9”’’</td>
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<tr>
<td>Indicative capacity m³/h (yd ³/h)</td>
<td>2000 (2600)</td>
<td>3000 (4000)</td>
<td>4000 (5000)</td>
<td>5300 (7000)</td>
<td>7000 (9000)</td>
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</table>

APPLICATIONS
green waste, household waste, polluted soil, biosolids, sugar cane filter cakes, palm oil EFB, animal manure (dairy, poultry...), etc.
Excellent aeration quality
MENART turners have been specially designed to optimize the aeration and mixing process: larger trapezoidal tunnel, powerful rotor drum, no compacting effect, left-right crossing flow.

High productivity
The SPM turners are equipped with powerful track clearers to improve traction grip. And thanks to their large tunnel, they can process huge windrows at a high speed.

All-terrain machines
MENART turners can lift up by 50 cm so you will never get stuck in the windrow. MENART turners are the only ones that can tilt forward or backward for ease and safe movement in slopes. Moreover, the left and the right traction (wheels or tracks) are independent and can adapt to the ground.

Saving space
Thanks to the track clearers, windrows can be brought closer on the site, therefore gaining space. In addition, MENART turners are big but compact and they can spin around at the end of the windrow. Composting plant area is optimized.

Maximum driver comfort
The cabins are the most modern with all-around visibility and pressurized air conditioning. Joystick controls are « at hand » for easy use. A fun and intuitive touch screen allows the operator to have all the machine information at a glance. The engine compartments are soundproofed.

Operators safety
MENART turners are easy and safe to maintain thanks to a large and secure platform. The tunnel is equipped with protection against projectiles: in the front a rubber curtain and at the rear an adjustable metallic deflector.

AVAILABLE ACCESSORIES
Irrigation connections; Automatic irrigation hose roller; Spraying device; Wheels or tracks; Reinforced rotor; Fleece/tarp roller devices...
Tractor-driven windrow Turners
MENART SP series

SP turners

> Outstanding capacities
> Strong and robust
> Easy and safe to transport
> Excellent windrow aeration

Tractors features

> Creeper gear not required
> SP turners push the tractor
> Low fuel consumption

<table>
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<th>SP-30</th>
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<th>SP-45</th>
<th>SP-50</th>
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<tbody>
<tr>
<td>Indicative Tractor Power hp</td>
<td>90</td>
<td>110</td>
<td>150</td>
<td>180</td>
<td>250</td>
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<tr>
<td>Max windrow width m (ft)</td>
<td>3,4 (11'1'')</td>
<td>4,4 (14'5'')</td>
<td>4,9 (16'6'')</td>
<td>5,4 (17'8'')</td>
<td>6,4 (21'')</td>
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<tr>
<td>Tunnel height m (ft)</td>
<td>1,7 (5'6'')</td>
<td>1,8 (5'10'')</td>
<td>1,9 (6'2'')</td>
<td>2 (6'6'')</td>
<td>2,2 (7'2'')</td>
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<tr>
<td>Max windrow height -tunnel raised m (ft)</td>
<td>2,2 (7'2'')</td>
<td>2,3 (7'6'')</td>
<td>2,4 (7'10'')</td>
<td>2,5 (8'2'')</td>
<td>2,7 (8'6'')</td>
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<tr>
<td>Indicative capacity m³/h (yd³/h)</td>
<td>1100 (1400)</td>
<td>1800 (2350)</td>
<td>2100 (2750)</td>
<td>2500 (3300)</td>
<td>4000 (5200)</td>
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</table>

APPLICATIONS
Green waste, household waste, polluted soil, biosolids, sugar cane filter cakes, palm oil EFB and POME, farming (dairy, poultry...), etc.
Available accessories

Liquid injection connections; Spraying devices; Reinforced rotor drum, Distance counters; Fleece roller, High traction outer wheel.

Outstanding yield
In the category of tractor-powered turners, MENART machines can process the widest and highest windrows in the world, and at very high speed.

Amazing capacities
Thanks to its powerful rotor drums and its 50 cm tunnel raising capability, the MENART SP turners can process every matter even under extreme conditions.

Best operating costs
The turner driving wheels push the turner and the tractor. Tractors do not need creeper gear, they run in neutral gear. SP turners go faster, process higher windrows, consuming same fuel as a usual turner on a same period of time. Thus the fuel consumption per composted Ton is very low.

Excellent mixing quality
Excellent mixing and aeration is ensured by the specific paddle orientation and by the large open tunnel. Refining is attained thanks to mechanical hits made by the paddles. The resulting quality is excellent even at the bottom right of the windrow.

Easy to transport, pulled by its tractor
The center of gravity is low, and the machine stability is outstanding. SP turners are very easy and safe to be towed and moved around, on any kind of terrain (roads, dirt tracks). SP turners are all-terrains vehicles, ideal for contractors.

Easier work management
The touch-screen in the cab does much more than just control the machine. With the recording of the data (windrow identification, customer name, production time, etc.) it gives you the precise statement of the work done and you can download the data on your computer easily.
Trommel screens
Mobile TR series and Compact TSC series

> The TR series is made up of a road chassis, a feeding hopper, a screening drum, 2 discharge conveyors for 2 compost dimensions. It is a transportable trommel.

> The TSC screens are simpler as they do not have the chassis nor the conveyors. They are therefore compact and cost-effective. With optional wheels, they can be towed on site.

<table>
<thead>
<tr>
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<th>TR/TSC-1535</th>
<th>TR/TSC-1950</th>
<th>TR/TSC-1960</th>
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</thead>
<tbody>
<tr>
<td>Drum screen diameter</td>
<td>m (ft)</td>
<td>1.55 (5’1”)</td>
<td>1.89 (6’2”)</td>
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<tr>
<td>Drum screen overall length: TR TSC</td>
<td>m(ft)</td>
<td>m(ft)</td>
<td>3.74 (12’3”)</td>
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<tr>
<td>Screening area</td>
<td>m²(ft²)</td>
<td>13.9 (150)</td>
<td>25 (270)</td>
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<tr>
<td>Hopper capacity</td>
<td>m³(yd³)</td>
<td>2.5 (3)</td>
<td>4 (5)</td>
</tr>
<tr>
<td>Feeding height : TR TSC</td>
<td>m(ft)</td>
<td>2.61 (8’7”)</td>
<td>3 (9’10”)</td>
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<tr>
<td>Electric motor power (TSC series only)</td>
<td>KW</td>
<td>18</td>
<td>30</td>
</tr>
<tr>
<td>Indicative Capacity</td>
<td>m³/h (yd³/h)</td>
<td>40 (50)</td>
<td>100 (130)</td>
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</table>

**NOTE**
MENART also supplies custom screening plants consisting of 3 main components: a hopper; a feed conveyor; and a trommel. Ask for the TS series.
**Titled drum technology**
Inside the drum, the material moves forward thanks to both the drum inclination and the lifting bars.

**Mechanical refining effect**
The material is drawn upwards in the drum and then falls down on a perfectly clear floor of the drum. The impact due to the fall allows to break and better screen agglomerated balls.

**Efficient screening**
The grids are made of round section wires which make easy for the fine material to pass through. It is a top efficient sifting mesh. Additionally, the drums are equipped with monofibre wear resistant brushes for self-cleaning action.

**Optimized yield with compact machine**
The efficiency of the screening technology ensures larger production capacity on a shorter length drum.

**Clogging-free**
The inclined drum technology avoids use of conveying auger inside the drum, which considerably reduces grid clogging.

**Versatile use**
Users can adjust the drum rotation speed as well as the drum feeding speed depending on working requirements.

**AVAILABLE ACCESSORIES**
Various choices of mesh grids or perforated plates mesh, Remote control, In situ transport wheels (TSC), conveyor lengths (TR), …
> 4 frame models, some with different power option
> Available in Diesel, Electric, or PTO-tractor
> Mobile or stationary
> Perfect for small and medium size sites

<table>
<thead>
<tr>
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<th>H-121</th>
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<tr>
<td>Diesel engine Power</td>
<td>hp</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>51</td>
<td>147</td>
<td>up to 350</td>
<td>up to 540</td>
</tr>
<tr>
<td>Electric motor power</td>
<td>kW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>37</td>
<td>75</td>
<td>200</td>
<td>315</td>
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<tr>
<td>Indicative Tractor power</td>
<td>hp (PTO rpm)</td>
<td>up to 70 (540)</td>
<td>up to 120 (1000)</td>
<td>up to 200 (1000)</td>
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<tr>
<td>Max branch diameter</td>
<td>cm (in)</td>
<td>8 (3”)</td>
<td>15 (6”)</td>
<td>20 (8”)</td>
</tr>
<tr>
<td>Indicative capacity</td>
<td>m³/h (yd³/h)</td>
<td>up to 30 (40)</td>
<td>up to 50 (65)</td>
<td>up to 200 (260)</td>
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</table>
High working capacity
The feeding hoppers are designed to be loaded by loaders, tractors, cranes, etc. The rotors are large and heavy. Small and medium MENART shredders are ideal for shredding large amounts of waste in a short time.

Robust and easy to use
MENART swinging-hammer shredders can shred any mix of green waste (grass, leaves, branches, wood, etc.), pallets, construction wood, food scrap, bio-waste, manure, etc. without excessive wear compared to chippers.

Versatile use
The speed of the moving floor is synchronized with the rotation speed of the compacting roll. Slow speed, fine output. High speed, coarse output. The user adjusts the speed according to his needs.

Output quality
The shredded material is not crushed nor chipped. The fibres are broken and aerated, very good as a bulking agent for further composting applications or mulching.

Mechanical reliability and robustness
The shredders are protected by several security systems: a no-stress system, automatic system for optimum feeding depending on the workload. Engine and rotor transmissions are protected against shocks and overloading, which also reduces maintenance and repair requirements.

Mobility and all terrain machines
On roads, on site or in fields, MENART shredders are easily transported.

AVAILABLE ACCESSORIES
Several choice of hammers, Discharge conveyor, Remote control, Screening grids for finer shredding, Automatic centralized lubrication system, Organic oils, And more...
More composting equipment

**Side-discharge turners**
MENART has developed 2 side-discharge turners: one self-propelled and one tractor-driven. They can process 3,2 meter high piles. Some features: 2 conical rotor drums; steering wheels for better manoeuvrability; adjustable deflector on the conveyor.

**Semi-industrial bagging unit**
Made of a hopper with gauge, and a weighing device with electric controls, the MENART bagging unit is simple and can reach 100 compost bags per hour.

**Coarse compost cleaner**
MENART SSAM compost cleaner filters the coarse compost allowing to recover the clean wood from the waste. MENART compost cleaner makes several jobs in one: stone removal thanks to 2 tilted conveyors with adjustable speed; iron removal thanks to a magnetic pulley, light plastic removal thanks to 2 wind sifters.

Roadside equipment

**MENART Weed-brush**  All-in-1 implement. The equipment can be used with horizontal brush to sweep or with vertical brush to clean. Rotation in both directions. There is no need of adapter. The frame remains the same and it is easy and quick to change brushes. The versatile brushes can be mounted on the right or the left side of the tractor. The brush is fully articulated and can adjust to the ground shape.

**MENART verge scraper**
The auger, driven by a hydraulic motor, can be tilted according to the desired ground slope for water drainage. The soil on a height of 15 to 20 cm is pushed into the ditch.

**MENART ditch digger**
Tow-behind ditch digger consisting of an articulated arm with a large mill at its tip. Mechanical transmission. The mill excavates the earth shaping a perfect ditch. Hydraulic motions are controlled by electric button: arm opening (working depth); mill orientation; lateral displacement if any; height displacement if any; deflector if any. Various models available.
References

Polluted Soil
Green Waste
Sugar cane

Municipal Solid Waste
The world’s largest palm composting plant
Dairy

Pallets
Green Waste
Poultry

Sugar cane
MSW
Waste water sludge

W2E
The world’s largest PTO turner
Vegetable farming

Palm oil EFB
The world’s largest autonomous turner
Manure