COMPOSTING MACHINES

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COMPOST MACHINES

THE COMPOST

Compost is the soil conditioner which is produced by microorganisms at the end of the biological degradation of the biodegredable waste such as vegetable/fruit waste, food waste, garden waste, tea/coffee waste etc.

Composting defines the biochemical separation of the organic substances within wastes with the help of the atmospheric oxygen by the living creatures that are called microorganisms, most which are not seen by the eye.

In the process of composting, the organic material decomposes rapidly before, then the decomposition rate getting slow until stable organic mass is formed. After the second stage, the slow decomposing organic substances stabilize and mature.

WHY SHOULD WE USE THE COMPOST MACHINES

Biodegradable wastes are transformed slowly in nature. By running compost machines that are used fort he Zero Waste Project, this process is accelerated by creating the appropriate conditions fort he activation of microorganisms, and the final compost is obtained within approximately 4 weeks.

The YC 100 and YC 200 compost machines are used for the system to accelerate the composting process.

With the use of composting devices, an efficient solid waste management system can be achieved. If biodegradable wastes which have a much higher mass volume ratio, can be managed separately at their source, then the remaining part of the municipal solid waste which has a clean, high quality, compressible, and easily. It will be possible to obtain quality compost by managing the wastes that will affect the collection organization of wet biodegradable wastes. It will be possible to obtain quality compost by managing the wastes that will affect the collection organization of wet biodegradable wastes.

THE WORKING SYSTEM OF COMPOST MACHINE

The biodegredable waste such as vegetable/fruit waste, food waste, garden waste, tea/coffee waste etc. are shredded in the inlet chamber to accelerate the functioning of microorganisms. After that the biodegredable waste will be transformed to compost by microorganisms in an aerated chamber.

Materials are automatically mixed so the process can be easily operated. The compost machine has a compact structure which includes the shredder chamber, aerated composting chamber and the maturing chamber.

The compost machines provide solution fort he biodegradable waste at source. The refore the biodegradable wastes can be transformed to the compost easily without transporting anywhere.

BENEFITS OF COMPOST

RECYLING ORGANIC WASTE

Organic wastes that will accumulate in a place or cause pollution by burning will become a useful and valuable resource through natural processes.

IMPROVING SOIL STRUCTURE

It provides aggregation. It promotes the formation of aggregates because it increases the amount of organic matter in soils. The aggregate allows the soil to breathe.

It heeps moisture in the soil during the precipitation and reduces evaporation. Prevents erosion caused by rain by absorbing excess water like sponge. 100 kg compost, can hold about 195-200 kg water.

ENABLES SOIL TO BE VENTILATED

By creating an airy layer on the top of the soil, it creates a healthy surface that allows the movement of various soil creatures. In this way, the soil provides comfortable ventilation. When plant roots can breathe comfortably, potassium intake becomes easier.

PROVIDES NUTRIENTS AT A TIME WHEN PLANTS NEED IT (SLOW-RELEASE)

In the form of salt synthetic fertilizers can be talken directly by plants when mixed with water and are forced into plants.

As it cannot be taken by the plants, it infiltrates the soil and causes the pollution of the ground water. Compost contains slow-release nutrients that plants can take at any time and form. It is not only a food source, it is also a food store.

NEUTRALIZES TOXINS IN SOIL

The toxic substances and heavy metals present in the soil are transformed into a form that the plants cannot take with their roots. Compost is also used in the rehabilitation of severely contaminated soils.

REGULATES THE PH BALANCE OF SOIL

When the pH level is too high or too low, it may be difficult for plants to use them even if there is enough nutrients in the soil. In soils where high amount of compost is added, the pH level of plants is spread over a wider range and more flexible conditions are provided. Accelerates growth and strengthens plants. It has been observed that plant growth accelerates because of the humic acid in the soil, even at very low density.

Yöntem 500 Kompost Cihazı
Yontem 500 Composting Machine

Çalışma Sistemi / Working Principle	Otomatik / Automatic
Kapasite / Capacity	500 lt Atık/Gün - 500 lt Waste/Day
Elektrik / Electrical Requirement	380 Volt 3 Faz / Phase
Ortalama Elektrik Tüketimi / Average Electrical Consumption	7 kW/Gün - 7 kW/Day
Parçalama Sistemi / Shredder System	Mevcut / Available
Havalandırma Sistemi / Aeration System	Mevcut / Available
Ölçüleri / Dimensions	2.340x5.450x2.100

Yöntem 400 Kompost Cihazı
Yontem 400 Composting Machine

Çalışma Sistemi / Working Principle	Otomatik / Automatic
Kapasite / Capacity	400 lt Atık/Gün - 400 lt Waste/Day
Elektrik / Electrical Requirement	380 Volt 3 Faz / Phase
Ortalama Elektrik Tüketimi / Average Electrical Consumption	7 kW/Gün - 7 kW/Day
Parçalama Sistemi / Shredder System	Mevcut / Available
Havalandırma Sistemi / Aeration System	Mevcut / Available
Ölçüleri / Dimensions	2.340x5.450x1.900

Yöntem 200 Kompost Cihazı
Yontem 200 Composting Machine

Çalışma Sistemi / Working Principle	Otomatik / Automatic
Kapasite / Capacity	200 lt Atık/Gün - 200 lt Waste/Day
Elektrik / Electrical Requirement	380 Volt 3 Faz / Phase
Ortalama Elektrik Tüketimi / Average Electrical Consumption	4,5 kW/Gün - 4,5 kW/Day
Parçalama Sistemi / Shredder System	Mevcut / Available
Havalandırma Sistemi / Aeration System	Mevcut / Available
Ölçüleri / Dimensions	1.150x5.450x2.100

Yöntem 100 Kompost Cihazı
Yontem 100 Composting Machine

Çalışma Sistemi / Working Principle	Otomatik / Automatic
Kapasite / Capacity	100 lt Atık/Gün - 100 lt Waste/Day
Elektrik / Electrical Requirement	380 Volt 3 Faz / Phase
Ortalama Elektrik Tüketimi / Average Electrical Consumption	3,5 kW/Gün - 3,5 kW/Day
Parçalama Sistemi / Shredder System	Mevcut / Available
Havalandırma Sistemi / Aeration System	Mevcut / Available
Ölçüleri / Dimensions	1.130x3.000x2.100

Atık Ayrıştırma Ünitesi
Waste Sorting Units

Kod / Code	Bölme / Section	En / W	Boy / L	Yükseklik / H
KDM - 230	o o	33 cm	64 cm	82 cm
KDM - 231	o o o	33 cm	94 cm	82 cm
KDM - 232	o o o o	33 cm	124 cm	82 cm
KDM - 233	o o o o o	33 cm	154 cm	82 cm

Atık Ayrıştırma Ünitesi
Waste Sorting Units

Kod / Code	Bölme / Section	En / W	Boy / L	Yükseklik / H
KDM-117a	o o	25 cm	77 cm	80 cm
KDM-118a	o o o	25 cm	104 cm	80 cm
KDM-119a	o o o o	25 cm	130 cm	80 cm
KDM-120a	o o o o o	25 cm	157 cm	80 cm

Plastik Çöp Konteynerleri
Plastic Garbage Containers

Hacim / Volume	En / W	Boy / L	Yükseklik / H
1.100 lt	78 cm	127 cm	129 cm
770 lt	78 cm	134 cm	128 cm
660 lt	78 cm	134 cm	117 cm
240 lt	72 cm	56 cm	108 cm
120 lt	57 cm	46 cm	98 cm

Mobil Atık Getirme Merkezi
Mobile Waste Storage Center

Kod / Code	En / W	Boy / L	Yükseklik / H
KDM - 300	300 cm	230 cm	300 cm
KDM - 400	300 cm	230 cm	400 cm
KDM - 500	300 cm	230 cm	500 cm
KDM - 700	300 cm	230 cm	700 cm

Atık Türleri / Waste Types

"Sıfır Atık" anlayışı ile atıklar kendi içinde 12 başlık altında toplanmaktadır. Bunların her birinin yanlış uygulamaları ve bu uygulamaların çevreye verdiği zarar bilinmeli; geri dönüşüm süreçleri belirtilen şekillerde uygulanmalıdır.

With the understanding of Zero Waste concept, wastes can be regrouped under 12 categories. The incorrect practices of each of these and the damage caused by these practices to the environment should be known, and the recycling processes should be applied in the specified ways.

Ahşap Atık
Wooden Waste

Atık Pil
Waste Batteries

Bitkisel Atık Yağ
Vegetable Waste Oil

Cam Atık
Glass Waste

Elektronik Atık
Electronic Waste

Kağıt Atık
Paper Waste

Kompozit Atık
Composite Waste

Metal Atık
Metal Waste

Organik Atık
Organic Waste

Plastik Atık
Plastic Waste

Tekstil Atığı
Textile Waste

Tıbbi Atık
Medical Waste

SICISRL.IT

Sici Srl
Adress: Via Roma, 30 - 37029 San Pietro in Cariano (VR) - Italy
Phone: +39 328 7180933

info@sicisrl.it - www.sicisrl.it