

msw sorting plant

katı atık ayrıştırma tesisi

Export to 55+
Countries

International
Service

*Municipal Solid Waste
Commercial Waste*



DİSAN

International Experience

Uluslararası Deneyim

Disan with its 27 years of experience, is one of the worlds important brands in waste machinery industry. With its factory in İstanbul which has 19000m2 area and 230 personnel, Disan has exported it's machines and plants more than 55 countries.

Disan Sektörde 27 yılı aşkın üretim geçmişiyle Dünyanın alanında sayılı markalarından birisidir. Silivri de toplam 19 000 m2 alana sahip tesislerinde, 230 personel ile ürettiği ekipman ve tesisleri 55'ten fazla ülkeye ihraç etmektedir.



Disan Production Facilities
Disan Üretim Tesisleri



Disan Production Facilities
Disan Üretim Tesisleri

Semi Automatic Sorting

Yarı Otomatik Ayıklama Tesisi

- 1- Bag Opener
- 2- Feeding Conveyor
- 3- Scrap Crane
- 4- Trommel Screen
- 5- Finger Screen
- 6- Ballistic Separator
- 7- Magnetic Separator
- 8- 3D Material Conveyor
- 9- 2D Material Conveyor
- 10- Sorting Room
- 11- Oversize
- 12- Bunker Conveyors
- 13- Baler Feeding Conveyor
- 14- Baler Press

Yarı otomatik ayıklama tesislerinde el ile ayırıştırma yapılmadan önce mekanik ekipmanlar vasıtasıyla malzemenin belirli boyutlar, şekiller göz önüne alınarak farklı konveyörlere bölünmesi sağlanır. Bu şekilde malzemenin ayıklama için insanları önüne getirmeden önce organik içerikli atıklar alınarak daha iyi bir ayıklama ortamı sunulur. Malzeme iki boyutlu ve üç boyutlu olarak farklı konveyörlere gönderilir ve böylece ayrı personel ile daha fazla atık ayırıştırma sağlanır. İşçilik maliyetleri büyük oranda düşürülür. Bu tesislerde genel olarak besleme ekipmanı, poşet açıcı, Tambur elek ve/veya parmak elek, balistik separator, magnetik separator, olimumyum ayırıcı ve balya presi bulunur. Bununla beraber farklı projelerde, ihtiyaçlara göre farklı tasarımlar yapılarak maksimum verim elde edilmesi hedeflenir.

In semi-automatic plants waste is separated in different conveyors depending on their size and shapes by mechanical equipments before manual picking platforms. In this way organics are separated before manual sorting to improve sorting quality. Ferrous and Non-Ferrous metals are sorted by machines automatically. Waste is separated by its shape as 2 dimensional and 3 dimensional. With this, sorting efficiency is increased with the same amount of manpower. Labor expenses decreased significantly. These plants generally includes equipments such as Feeding equipment, bag opener, trommel screen and/or finger screen, magnetic separator, eddy current separator and baler press. With this in hand, different projects depending on needs, different designs are made for achieving maximum efficiency.

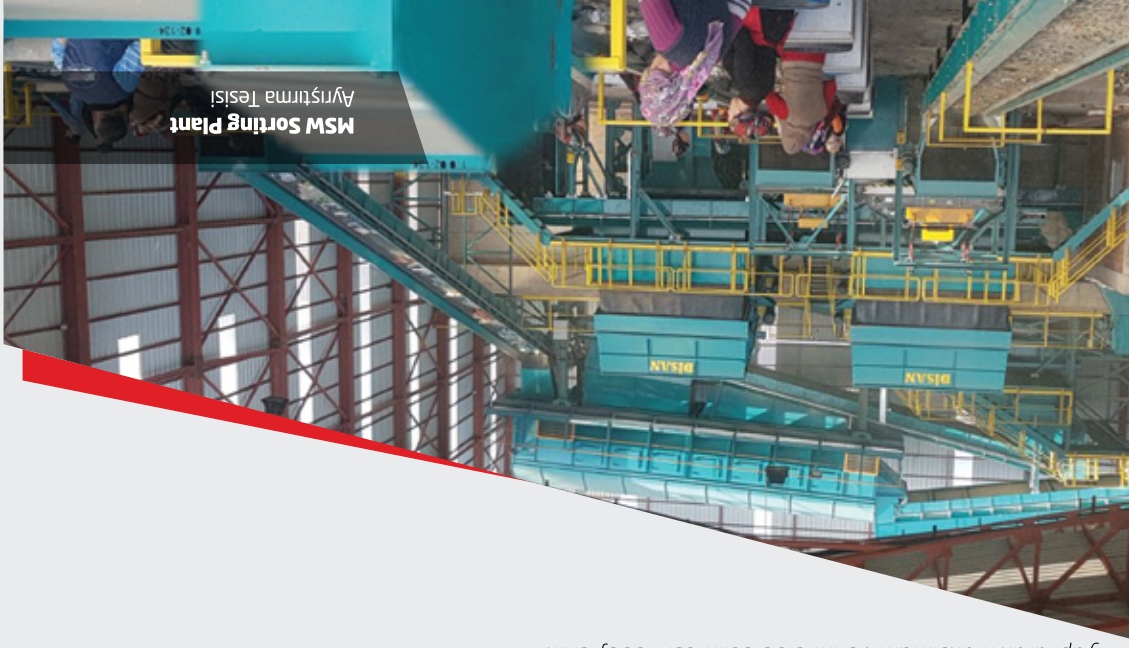
Manuel Sorting

Manuel Ayıklama Tesisi

For low costs and low capacities, manual sorting lines are the best solution. In this project, the materials come from the feeding conveyor are sorted by hand on the sorting platform. Materials which picked and sorted are put through the buckets which send the materials to the designated halls. After this, piled up materials send to baler press with the help of a loader or a forklift. Manual sorting plants are the best solutions for low capacities, low budgets and small areas. They are easy to manufacture and easy to operate.

Düşük maliyetler ve düşük tonajlarda ihtiyaca göre manuel tesislerdir. Bu projede besleme konveyöründen gelen çöpler ayıklama platformu üzerinde ki ayıklama konveyöründe el yordamı ile ayıklanmakta, seçilen malzemeler kovalardan aşağı atılarak biriktirilmekte ve daha sonra malzemeler loader yardımı ile arkada bulunan pres besleme konveyörüne sürülerek balyalanmaktadır. Tonajların düşük olduğu, düşük bütçeli, arazi sıkıntısı olan bölgelerde tercih edilebilen kurulumu, üretimi kolay ve kullanışlıdır.

- 1- Feeding Conveyor
- 2- Magnetic Sperator
- 3- Trommel Screen
- 4- Sorting Conveyor
- 5- Material Collecting Bunkers
- 6- Magnetic Sperator
- 7- Subsieve Material Conveyor



In fully automated plants sorting efficiency rates are higher compared with the manual ones. Some materials which is hard for humans to recognize cab easily sorted by the equipments and performance of the machinery is constant for the whole shift. On the other hand, due to nature of operation of the machines (as example; ballistic separator's stirring up and optical separator's blowing with air) materials are sorted cleaner.

These are the plants which sorting is mostly done by the mechanical equipments and optical separators. In these plants, humans are positioned in quality control and operation. A fully automated sorting plant generally includes scrape crane, bag opener, trommel screen, ballistic separator, optical separator, magnetic conveyor, eddy current separator and baler press. In the design of these plants, factors such as waste characteristics, the recyclables which wanted to be sorted, capacity, operational expenses are considered. In light of these information and with the results of a feasibility study, the design is completed.

Full Automatic Sorting

Tam Otomatik Ayıklama Tesisi



Baler Press
Balya Presleri



Trommel
Döner Elek



Conveyors
Konveyörler



Balistic Sperator
Balistik Ayırıcı



Static Compactor
Konteyner Presi



Finger Screen
Parmak Elek



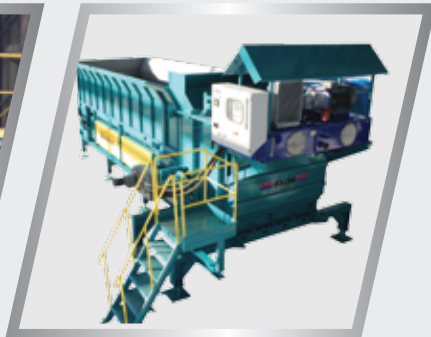
Star Screen
Yıldız Elek



Disk Screen
Disk Elek



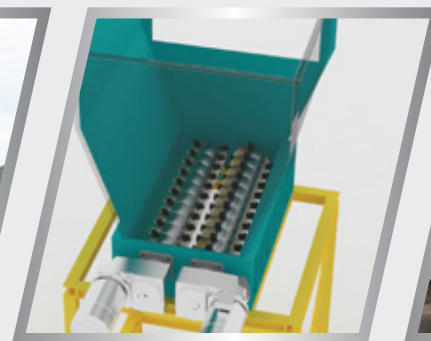
Wind Sifter
Havalı Ayırıcı



Bag Opener
Poşet Açıcı



Scrap Crane
Hurda Vinci



Bale Opener
Balya Açıcı



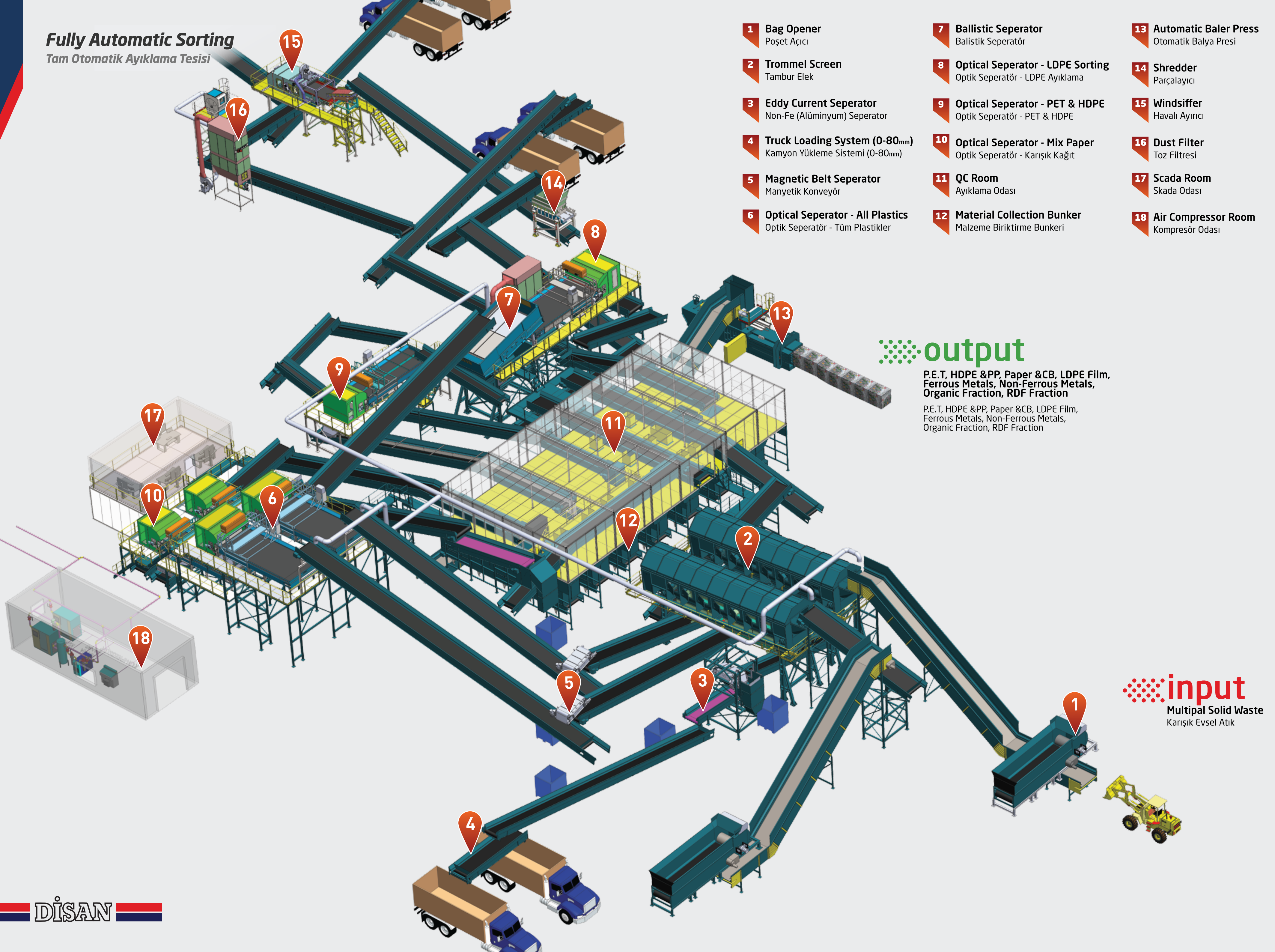
Shredder
Parçalayıcı



Hook Lift
Kanca Vinci

Fully Automatic Sorting

Tam Otomatik Ayıklama Tesisi



1 Bag Opener
Poşet Açıcı

2 Trommel Screen
Tambur Elek

3 Eddy Current Separator
Non-Fe (Alüminyum) Separator

4 Truck Loading System (0-80mm)
Kamyon Yükleme Sistemi (0-80mm)

5 Magnetic Belt Separator
Manyetik Konveyör

6 Optical Separator - All Plastics
Optik Separatör - Tüm Plastikler

7 Ballistic Separator
Balistik Separatör

8 Optical Separator - LDPE Sorting
Optik Separatör - LDPE Ayıklama

9 Optical Separator - PET & HDPE
Optik Separatör - PET & HDPE

10 Optical Separator - Mix Paper
Optik Separatör - Karışık Kağıt

11 QC Room
Ayıklama Odası

12 Material Collection Bunker
Malzeme Biriktirme Bunkeri

13 Automatic Baler Press
Otomatik Balya Presi

14 Shredder
Parçalayıcı

15 Windsifter
Havalı Ayırıcı

16 Dust Filter
Toz Filtresi

17 Scada Room
Skada Odası

18 Air Compressor Room
Kompresör Odası

output

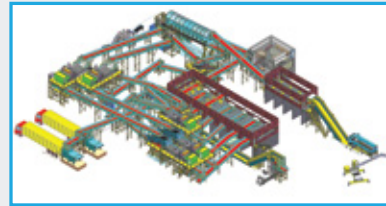
P.E.T, HDPE & PP, Paper & CB, LDPE Film,
Ferrous Metals, Non-Ferrous Metals,
Organic Fraction, RDF Fraction

P.E.T, HDPE & PP, Paper & CB, LDPE Film,
Ferrous Metals, Non-Ferrous Metals,
Organic Fraction, RDF Fraction

input
Multipal Solid Waste
Karışık Evsel Atık

Municipality Solid Waste

Evsel Atık



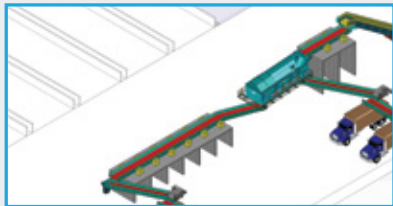
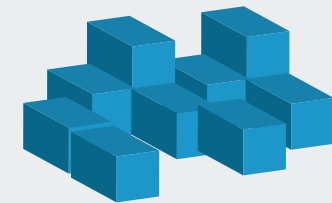
Sorting Plant

Organic Fraction



Recyclables to Sell

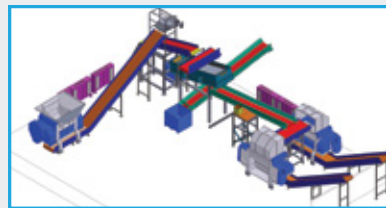
Paper, Nylon film, P.E.T.,
HDPE &PP, Fe and Non-Fe Metals,
Glass



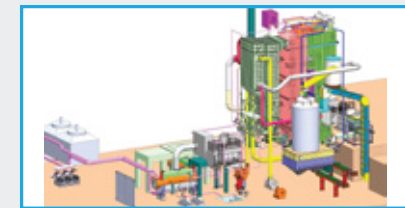
Composting



Biomethanization



RDF Plant



RDF Incineration Plant

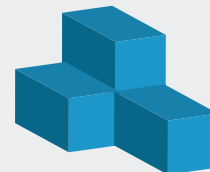


Energy



RDF Bales to Sell

Cement Industry



Energy





Exporting
55+
Countries



Disan Hidrolik Makine San. Ltd. Şti.
Kavaklı Mahallesi Hayati sk. No:44
Silivri İstanbul Turkey

+ 90 212 723 40 66

+ 90 212 541 07 88

@ info@disan.com.tr

www.disan.com.tr

Turkey
Discover
the potential

