

ASPHALTPLANTS

ÇESAN has commenced with its production activities by means of producing and manufacturing coolers and dust collector systems in the year 1984 and in the year 1990, aiming to increase its production capacity together with a fast growing series of demands abroad as well as within the country, has moved into its production facilities established over a covered surface with a superficial area of square meters 3000 located within an overall area of square meters 7000 within the 1st Organised Industrial Zone.

ÇESAN has considerably increased its business capacity by way of getting started with the production of asphalt plant facilities within the year 1995 and has reached a state of producing specific type of coolers, dust collector systems and asphalt plant facilities using the highest and the most developed technologies designed according to the world standards at present.

Our company has managed to occupy a place of considerable importance within its sector within the local as well as foreign markets by means of its reliable image not ever making any concessions from quality and its superior quality. ÇESAN nowadays reached a state of becoming a leader within its sector together with its business capacity and its market share growing with that speed, carries the genuine pride of preserving its state for some long years.

Due to the growth within its business volume and extremely dense in demands of products, our company having moved into its new factory being equipped with the latest and most recent technologies and being established over a covered surface area of square meters 7000 and square meters 24000 of outdoor surface area in November 2006, has increased its capacity by 100%. Our factory is keeping on with its qualitative production with an everyday increasing speed, by way of its increase in manpower capacity together with a growth in factory capacity.

ÇESAN has for some long years built its success on the basic principles of "quality, dynamism, reliability and production based on superior performance", has taking these serious and considerable steps and made these investments in the year 2006 in order to carry on with its success. Furthermore aiming at the highest standard in customer satisfaction quality, our company keeps on densely carrying out its activities to fulfill in the shortest lapse of time and at the most economical level its customers' demands and expectations.

Considering the activities both during the production as well as beyond the production as important, ÇESAN is also going on serving with activities such as engineering, know-how, assembling, technical service and spare parts services.

## MISSION

Our mission is, by following up advanced asphalt technology, to meet the customer needs in the most favorable price-time-quality conditions in road construction machinery sector so as

- to produce road construction machines in environment standards,
- to minimize external dependence,
- to lead the development of road construction industry,
- to use our knowledge accumulation to increase product line up to the local and global customer needs and thus, to obtain continuity and development.

## FUTURE ÇESAN

Our company, the products and facilities of which are being widely used within every region of Turkey as well as abroad, in various countries worldwide, is daily increasing its local as well as foreign customers' portfolios. By also increasing its present exportation share by a ratio of 60% within the last years, ÇESAN is largely and considerably contributing to the economics of our country.

## ÇESAN QUALITY

By following-up the fast growing technological developments, ÇESAN has fixed itself the goal to produce at "the highest quality level", the designs that do suit the "best" its customers' expectations and to become a world known brand by being an avant-garde. ÇESAN is giving priority to qualitative production and unconditional customer satisfaction as well as staff satisfaction. Our company is carrying on with success its journey through quality together with its highly qualified team, by making no concessions its continual progress philosophy and through the concept of quality strategy and goals, also making considerable investments within the field of investigation and development studies.

work experiment and quality over 28 years...

"We will continue to be the best in everything  
and will compete with our rivals in the World.  
We will succeed because we believe..."



## PRODUCTS

### ASPHALT PLANTS & RELEVANT EQUIPMENT

- Batch Type Stationary & Mobile Plants
- Drum-Mix Type Stationary & Mobile Plants
- Thermal Oil Heater (Ex-Changers)
- Industrial Type-Linear Operated Burners
- Bitumen and Fuel Tanks

### CONCRETE PLANTS

- Stationary Concrete Plant
- Mobile Concrete Plant

ÇESAN has been manufacturing mobile and stationary asphalt plants with 30t/h-450t/h capacities that produce asphalt in global standards. It has got various designs according to the customer needs. Asphalt plants are safe with respect to noise, dust and heat. It is environment and user friendly. **Dimensions of the units are designed as they are convenient to the global road transporting gauges.** It is improved for fast dismantling and reassembling.

Units are designed for maximum efficiency and the unit asphalt cost is minimized. It produces various asphalts (mastic asphalt, colored asphalt, using recycled materials, etc.) **The operation of the ÇESAN Asphalt Plant can be controlled continuously through the computer monitor on the operator table manually, semi-automatically and automatically.**

The most important thing is that our products are more economical with respect to the low operating cost.

**Operating cost is low** because of low energy needed, optimized fuel consumption, operated with 2 personnel (plant operator, loading operator), long life system and units, minimized maintenance needs.

Any sort of liquid fuel (fuel-oil, 6 fuel-oil, diesel) natural gas or LPG can be used in ÇESAN asphalt plant.

Reverse air-filters with the capacity from 1,000 m<sup>3</sup>/h up to 1,000,000 m<sup>3</sup>/h and asphalt plant with the capacity of 30t/h-450t/h are manufactured by using the latest technology and supplied to world market.

Modular structure of our products provides easy erection and replacement in a very short time.

**Our products are satisfying all technological qualifications and environment standards.**

### DUST HOLDER SYSTEMS

- Reverse Air-Filters,
- Jet Puls Type Filters
- Cyclones

### AIR COOLER

- Atmospheric Type Coolers
- Water Cooled Gas Channels



# COLD AGGREGATE SILOS & CONVEYOR BELTS



- It can be used 8-15 m<sup>3</sup> of capacity as 3/4/5/6 or more optionally
- **Frequency-controlled sensitive dosing**
- Trouble-free flow
- **Vibrator for easy flow of fine material**
- Process can be controlled and followed from control cabin simultaneously
- **Grid used to prevent passing of coarse material**

# DRYER



- Made from special alloy materials to endure against heat and abrasion
- **It is driven by 4 wheels pulley or chain sprocket**
- Hardening provides long life of ring and pulley materials
- **Perfect design of buckets provide homogenous heat transfer to whole aggregates**
- Easy maintenance of bucket systems
- **Maximum heat transfer and high efficiency are provided via perfect design of burner and inner part of dryer**

# BURNER



- Industrial type with high pressure (1.5 proportional)
- **All kinds of fluids (fuel-oil, 6 no fuel-oil, diesel) natural gas and LPG can be used**
- Air/fuel ratio, flame length, suction, etc. are controlled by automation from control cabin.
- **Complete combustion provides low NO<sub>x</sub>, CO emission, high efficiency and low fuel consumption**
- Igniting is done by LPG. If fuel-oil is used as a fuel, igniting is started with diesel oil and also finished with diesel oil
- **Safe operation**
- Rail system provides easy maintenance and repair

# FILTER



- **NOMEX filter bags are durable to 200°C temperature. Fresh air system works at higher temperature than 200°C**
- **System works automatically and controlled from control cabin**
- Under 20mg/m<sup>3</sup> emission is suitable with respect to world standard
- **Compact, less volume with bigger filtration area**
- Reusing of coarse material which are taken from re-separator and reusing fine materials which are taken from the filter
- **Low operation cost, long life**

# MIXER

- There is no field free by means of perfect inner design
- **Mixing palletes, which is produced by Ni-Hard 4 or high manganese cast material, is long life guaranteed**
- Simultaneous working parallel double shafts
- **Perfect homogenous mixing**
- Perfect asphalt with 25-30 sec mixing time
- **Gates with pneumatic controlled**



# SCREEN



- Optional 4/5/6 horizontal decks
- **Driving is done by vibrator or eccentric weight system**
- Tension, perfect inclination and homogenous load distribution provide trouble-free capacity
- **Perfect inner design that prevents the mixing of different sizes of materials**
- Easy changeable sieves, useful doors for easy maintenance and useful platforms
- **It can be used as by-pass by means of 0-5 compartment of sieving machine**

# WEIGHTING UNITS

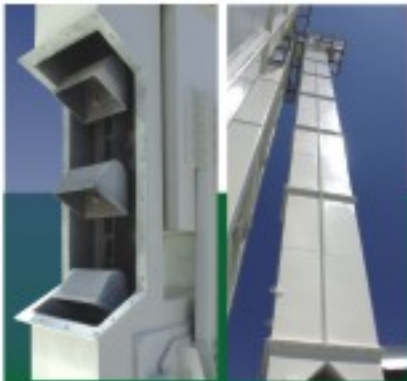
- Load-cells, which are selected with respect to OIML standards, weigh very sensitive
- **Aggregate, fine materials (recycled filler) and foreign fine materials are weighed separately**
- Weighing system with load-cells for bitumen
- Regulations of optional weight recipe by automatic computer control from control cabin



# HOT AGGREGATE SILO



- Optional 4/5/6 compartments
- **Double gates system for control of material flow (85% materials from the big gate 15% materials from the small gate for 0-5 fine material compartment)**
- Proportional volumetric capacity suitable to Asphalt design
- **Convers for taking sample materials**
- Level gauges for each materials



- Weighted type tension system
- Interlocking for reverse motion of chain and buckets
- Special dust protection design of bearings
- Human sized easy maintenance claps
- Large maintenance platforms
- Wearing plates protects the buckets against abrasion

## HOT PRODUCT STOCK SILO

- Low type or tower type
- Perfect isolation for protection of heat transfer
- Heating systems for discharging gates
- Pneumatic controlled discharging gates
- Height of discharge is 3.500 mm



# BITUMEN AND FUEL TANKS



- Protection of heat for a long time, perfect isolation
- **Thermal-oil coil system**
- It can be connected each other by 3 way valves
- **Jacketed bitumen pump**
- Jacketed piping
- **Bitumen feeding system with pneumatic 3 way valve**
- Heat control via by thermostatic valves
- **Level indicators**

## FILLER SILO

- Design of optional capacities
- **Double silo system for recovered filler and foreign filler material flows filled separately to the weighing unit**
- Rotary valve is designed for balanced discharging
- **Pneumatic shock is designed for easy flow**
- Close circuit working system (Unused filler is flow to filler silo via by overflow pipe. If the filler is not enough, system works automatically and supply additional filler to mixer)



## THERMAL OIL HEATER

- 500.000 - 1.500.000 kcal/h capacities
- **It can be used separately from control cabin**
- It can be run or run out by automatic min-max temperature control time
- **High-low pressure control**
- Level gauge for thermal-oil. Voiced and lightened warning system
- **Thermal circulation pump**
- Front Hinged cover for easy maintenance
- **High efficiency**



■ BAYBURT GROUP - TURKEY, 300 t/h Stationary



■ ÖSAK CO., NKSAR, TOKAT - TURKEY, 450 t/h Stationary



■ ATF MMC GOYCAT - AZERBAIJAN 120 t/h Stationary



■ CYPRUS PLANT LTD. - T.R.N.C., 60 t/h Mobile



■ T. AIR FORCE LOG. COM., TURKEY, 160 t/h Mobile



■ TURKISH HIGHWAYS ADM., TURKEY, 60 t/h Stationary



■ PATNI STROEJ S.A. - BULGARIA, 160 t/h Mobile



■ G. ANTEP M. MUNICIPALITY, TURKEY, 160 t/h Stationary



■ ISPARTA MUNICIPALITY, TURKEY, 200 t/h Stationary



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