

New Generation Mobile Crushing and Screening Plant Closed Circuit Type Dragon 45

Model	Max. Feeding Size (mm)	Capacity (t/h)	Final Size mm (Adjustment Type)	Motor Power (kW)
Dragon 45	0 – 150 mm	75 – 110 t/h	0 – 5 mm	202 Kw

Closed circuit crushing system is all collected in one single platform and can be transported with a truck. The R-D group has designed this series for short term installation . Dragon Series refers to a crushing /screening closed-circuit plant on one chassis. Offers unsurpassed production of cubical spec products for small, medium, or large jobs. Produces multiple, cubical spec products with three-deck inclined screen. Returns material retained on the top deck to the impactor for further processing. This crushers can easily do the work of classical plants . This machines are the most preferred in Turkish market and the World market .

*Feeding System and Hopper

System is preferred to prevent sticking , conveyor belt or vibrating feeder can be chosen depending on customer request. Since the supply system operates smoothly, it needs minimum maintenance. Mobile crusher installations with or without sieves are ideal crushers for sand making. The directive is also suitable for conveyor feeding.

*DRAGON 45 NEW GENERATION TERTIARY CRUSHING SYSTEM

Rotor Size : 1100 X 1100 mm

Crusher type : Secondary Impact Crusher

There is setting mechanism which leads to easy configuration.

The wearing armor is 16-18% manganese and chromium alloy.

The rotors are specially manufactured and have replaceable wear shields in their wear exposed parts.

Motor power : 110 kw

Rotor pallets are 16-18% manganese and chrome alloy. It is also suitable for two-sided use. Longer wear times can be caught on this count.

The setting blocks are 16-18% manganese and chrome alloy. The adjustment blocks have a hydraulic adjustment mechanism for easy adjustment.

The crusher has 2 long type adjustment blocks for thinning. Thanks to these blocks, the thinning curve is very high.

The powerful body is unique thanks to its powerful rotor and powerful adjustment blocks.

It is unprecedented with high reduction rates of up to 50 times.

When a material that can not break into the crusher enters, the hydraulic overload prevention device enters the circuit and the crusher elements are protected.

When a material that can not break enters into the crusher , the hydraulic overload prevention system blocks the circuit and the crusher elements are protected.

* Main Conveyor Belt System

It is 800 mm wide and is of palette type. Drive drums are rubber coated and threaded. The gear units are 3 transmission type and the new generation is with torque connection system. Side scraper system is available to prevent outflow.

* Vibrating Screen System

Screen Size : 1500 X 4500 mm

Vibrating Screen Size : High Capacity

Motor Power: 11 kw

Special type bearing suitable for vibration.

* Under-Sieve Stock Conveyor Belt System

It is 800 mm wide and foldable type. Drive drums are rubber coated and threaded. The gear units are 3 transmission type and the new generation is with torque connection system. A side scraper system is available to prevent spillage of the final product into the stock area during crushing. Foldable with hydraulic piston for easy assembly and disassembly of the system.

* Stock Conveyor Belt System

600 mm wide folding type.

Drive drums are rubber coated and threaded.

The gear units are 3 transmission type and the new generation is with torque connection system.

A side scraper system is available to prevent spillage of the final product into the stock area during crushing.

Foldable with hydraulic piston for easy assembly and disassembly of the system.

* Feedback Belt System 1

It is 600 mm wide.

Drive drums are rubber coated and threaded.

The gear units are 3 transmission type and the new generation is with torque connection system.

Side scraper system is available to prevent outflow.

* Feedback Belt System 2

It is 600 mm wide and is of palette type.

Drive drums are rubber coated and threaded.

The gear units are 3 transmission type and the new generation is with torque connection system.

Side scraper system available to prevent outflow.

* Mobile Chassis System

It is equipped with 2 axle, air-operated brake system and signaling system. Special heavy duty construction chassis. There are 6 hydraulic feet mechanisms in the hydraulic system.

These feet are strengthened by the fixed feet after they are locked.

Hydraulic Power System thanks to 125 litre, all pistons are controlled by special control system.

* Panel and Control System

The material is Siemens branded. The panel system has a remote control system that operates with radio control frequency. In addition, the panel system is specially insulated against dust and water. Although the used panel is insulated against dust and water, Dragon Machine contains a system that can remove our panel systems from the main scale by about 8 metres.

* All functions can be controlled with Remote Control (Radio Control System).

- The dust suspension control system prevents dusting by conveying high pressure water to the conveyor to spray the dust.

- Electric Motors IE2 is a highly efficient type.

- Conveyor belt systems EP 125 and EP 160 are suitable for long use with 10 and 14 mm thick cortex.

- Bearings are SKF or equivalent.

Total Motor Power: 202 kw

Maximum Feeding Size: 150 mm

Final Size: Can be set to give a final product of 0-10mm or 0-20mm or larger. (0 - 5 mm and 0-10 mm both be obtained at the same time or apart)

Capacity is variable according to the material feed and final product dimensions to be broken and it is 75-100 ton capacity.

*Additional Standard Features in the System

- Extra hopper for truck feeding.

- Dust suspension control System.

*Optional Features

- Magnetic Magnet Conveyor Belt (Optional)

- The Generator System is optional and is powered by diesel engines from Cummins, Perkins, Doosan, Deutz and Marelli or Stanford alternators. (Optional)

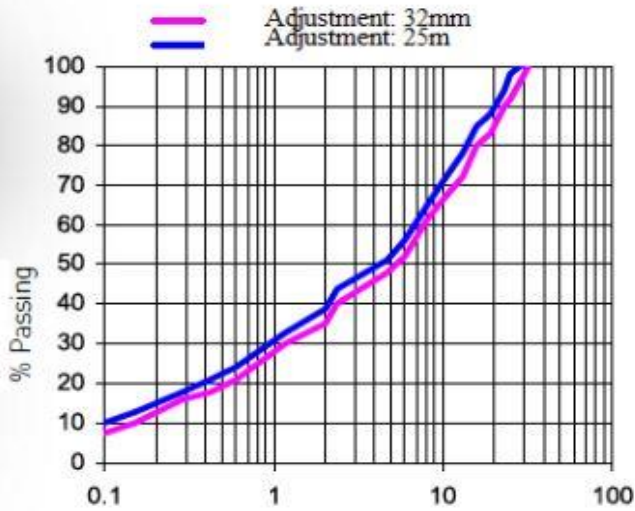
-Hydraulic band opening and closing system

** Weight: 38 tons

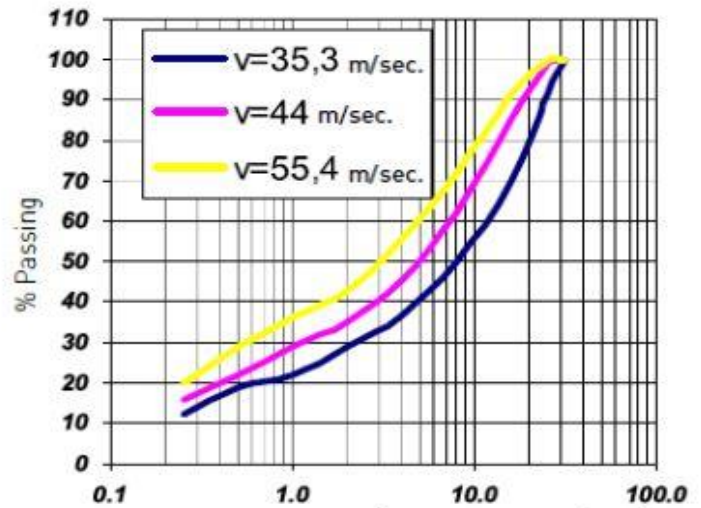
All of our products are CE certified.

TERTIARY CRUSHER

Production Curve



Production Curve



DRAGON MACHINERY



Why New Generation Dragon Mobile Crushing and Screening Plants?

Classical mobile plants need to combine some mobile platforms to become a plant. This means long assembly time for installation which causes to time and labour loss. With our new generation mobile plants, all plant equipments are at only one platform. It can be ready to use in short time. The established plant can be transferred in couple hours. The other benefits are:

- It can be established at small areas with the help of its compact structure.
- Transferring by just one track provides ease of transport.
- It can be started immediately and saves cost of basement thanks to run without fixed with concrete.
- Controlling by only one person provides ease of use.
- New generation crushing plants need minimum maintenance thanks to its latest technology.
- It saves cost of basement and provides low initial investment cost.
- It can operate high gradation ratio process by itself that needs more than one machine to be completed. There are 2 or 3 different types of crushers such as primer, seconder and tertiary. In our system, we have latest technology crusher which is capable of doing alone what the other crushers can be made. Gradation ratio is very high thanks to tough and big tune blocks. There are up to 50 times dilution curve. (This option is available for Dragon 7, 9, 10, 15, 20)
- It can work with both electricity system and generator depends on your request.
- Production cost per ton is %50 more lower.
- New generation mobile systems' energy consume is about 50 to 60 % according to the classical plants.
- One of the biggest advantage ,it has ivariety of aggregates for concrete asphalt plants.(It can produce three types of products).

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