### **D** Series Technical Data

#### Specifications: D25.25

Cutting chamber	250 mm x 250 mm
throat size	
Rotor diameter	195 mm
Number of rotor knives	12
Number of stationary	2
knives	
Motor power rating	4 / 5,5 / 7,5 kW
Operating voltage	400 Volt/ 50 Hz
Screen sizes	4, 5, 6, 8, 10, 12 m
Suction box volume	12 I
Weight (standard)	380 kg
Controller	protective controll

# 195 mm 12 2 4 / 5,5 / 7,5 kW 400 Volt/ 50 Hz 4, 5, 6, 8, 10, 12 mm 12 I 380 kg protective controller with overload release, electrically redundant safety limit switches with self-monitoring safety relay according to EN12012, connecting cable with CEE plug

#### Specifications: D25.38

Cutting chamber throat size Rotor diameter Number of rotor knives Number of stationary knives Motor power rating Operating voltage Screen sizes Suction box volume Weight (standard) Controller

250 mm x 385 mm
195 mm
18
2
5,5 / 7,5 kW
400 Volt/ 50 Hz
4, 5, 6, 8, 10, 12 mm
17
430 kg
protective controller
with overload release,
electrically redundant
safety limit switches
with self-monitoring
safety relay according
to EN12012, connec-
ting cable with CEE
plug

#### **High stand**



#### Application:

Standard

Suitable as a universal granulator for grinding heavy and/or large scrap parts and sprues. Optionally available with 50 mm suction tube or 80 mm suction opening for regrind extraction.

A robot in-feed chute is also available as an attachment for the standard tray for manual hand feed.



#### **Application:**

Suitable as a small, powerful central granulator when regrind cannot be extracted, but must be collected directly under the granulator in a container or bag.

Dimensions	D25.25	D25.38	D25.50
Α	270	390	510
В	735	855	975

(all measurements rounded in mm, we reserve the right to make technical changes)

#### Specifications: D25.50

throat size

knives

Screen sizes

Controller

Cutting chamber 250 mm x 505 mm Rotor diameter 195 mm Number of rotor knives 24 2 Number of stationary 5,5 / 7,5 kW Motor power rating **Operating voltage** Suction box volume 22 I 480 kg Weight (standard)

400 Volt/ 50 Hz 4, 5, 6, 8, 10, 12 mm protective controller with overload release, electrically redundant safety limit switches with self-monitoring safety relay according to EN12012, connecting cable with CEE plug

#### **Profile of expertise**

Every one of our plastic granulators is the result of our experience and expertise gained over many years dedicated to the plastics industry.

The experience is evident in the many advanced detailed solutions which will ensure ease of operation and cleaning for you and your employees and thus enabling high productivity.

The source of our expertise is our effort to see everything through the eyes of our customers and to find innovative and simple solutions for special problems - from practical experience to practical use.

We have developed repeatedly proven solutions for your problems in the processing or disposal of sprues or defective parts.

Ask us your questions - our staff are at your service at any time for open advice without obligation.





Xxtra



dyna

Wanner D 25.25



Wanner E 45.50



Alte Heerstraße 5 D- 97877 Wertheim Telephon + 49 93 42 \ 3 08 80 Telefax +49 93 42 \ 3 08 83 info@wanner-technik.de www.wanner-technik.de



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The new Dynamic Series – ideal for recycling of plastic scrap from injection and blow moulding close to the production process!

25.25 25.38 25.50



- reduced stress for the material stock due to improved cutting geometry, even easier to clean due to optimised cutting chamber construction.



#### **Product Profile**

The new Wanner **D** Series granulators are ideal for in-line recycling of production waste from injection moulding, blow moulding and extrusion processes directly within the production process as well as for grinding larger amounts of materials offline.

The **D Series** is based on three model sizes:

- the D 25.25 with a cutting chamber opening of 250 mm x 255 mm
- the D 25.38 with a cutting chamber opening of 250 mm x 385 mm
- the D 25.50 with a cutting chamber opening of 250 mm x 505 mm

A wide range of features, motors, cutting chamber sizes, controls and sound-proof enclosures allow the **D Series** granulators to be tailored to your specific requirements. The optimised rotor design with scissor cutting action guarantees a high quality regrind with an extremely low percentage of fines. The sound-absorbing feed hopper and the solid cutting chamber made of vibration-reducing die-cast parts keep noise levels to a minimum.

Even the standard model includes a cutting chamber with reinforced chamber walls which offer outstanding protection against wear and tear and also make the unit suitable for grinding glass-filled material.

The **D** Series granulators are extremely easy to open and clean. No tools are necessary. With the optional sound-proof enclosure fitted, access to the cutting chamber can be gained via a large door. This allows maintenance and adjustment work to be conducted quickly and easily.

Based on proven design, the **D Series** offers improved productivity and excellent value for the money.

# D Series Advantages

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- Large cutting chamber made of large casting elements with hardened inserts guarantees reduced wear and tear and long life even when processing glass-filled materials.
- The rotor with optimized chevron type rotor design and aggressive feed characteristics allow for granulation of large parts and awkward sprues.
- The large pulley belt drive with additional centrifugal mass allowing the granulation of extremely heavy parts.
- The rigid cutting chamber made of large heavy casting elements reduces structure-borne sound keeping noise levels to a minimum.
- Low dust, high quality regrind due to optimised cut geometry and segmented rotor.
- Cutting knives can be re-sharpened easily without special equipment.
- Compact design and small footprint.
- Optional integrated sound-proof enclosure.
- Various control options ranging from simple contactor to comprehensive diagnostics offer solutions to even the most complex granulating applications.



#### Flexible and easy to use - the D Series

Your customers' demands change, requiring a high level of flexibility from your production.

For granulators, this means minimal set-up times, e.g. for material changes or for cleaning the granulator as well as the ability to use the granulator for all types of thermoplastic material – whether it be rubber or plastic, hard or soft, reinforced or standard. Wanner Granulators set the standard here.

The large cutting chamber can be viewed easily and allows easy access to all important parts. Cleaning the granulator, for example when changing colours or materials, is simple.





The D Series granulators – with or without sound-proof enclosure - are extremely easy to open and can be cleaned quickly. These unique characteristics result in shorter set-up times and increased productivity.



## Versatility is the key

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A wide range of options and models allow the **D Series** to be used for a variety of different applications.

Whether used as a beside-the-press granulator for injection moulding for large sprues or heavy-walled scrap parts, for large slugs during blow moulding or for trimmings and waste products during the extrusion process, or used as a central granulator for grinding all types of production waste made of plastic, the **D Series** granulators cover a wide range of applications.

And if the solution to your specific problem cannot be obtained by one of our standard products, our flexible production team is capable of manufacturing customised models designed to fit your specific requirements.

I 25.50 granulator with roll-feed mechanism for extruded PVC sheet.



25.25

25.38

25 50

#### Solutions for higher throughput rates

With a motor performance of 4 kW to up to 7.5 kW and a variety of available rotor speeds, the D Series granulators can also safely grind even large parts made of high-tensile and impact-resistant plastics reaching throughputs of up to 200 kg/h (depending on the material and screen size).

Due to the high rate of throughput, standard hopper loaders are no longer suitable for conveying the regrind.

For this reason, Wanner offers a wide range of innovative conveying solutions for machines to be used as central granulators.

The central granulating stand offers the simplest path to a central granulator function. Regrind can be collected in crates or bags underneath the granulator. When changing the collectors or bags, the granulating process need not be stopped — using an integrated shut-off valve, the material discharge can be interrupted while the container is being changed.

The central granulating stand provides the ideal solution in situations where materials are changed on a frequent basis due to the fact that only the granulator needs to be cleaned, not any additional peripheral equipment.

# D 25.25 Granulator on central granulating stand, in this case used for grinding extruded profile cuttings.



D25.50 with vacuum conveying system The innovative conveying system allows regrind to be extracted in large, open containers such as crate pallets or octabins with little or no escape of dust.



The vacuum conveying system with integrated fan and large filter bag is also ideal for use in a production environment.

The material is extracted by a vacuum, preventing air and fine materials from escaping from the hose connectors and cyclone, greatly improving the cleanliness in the area of the granulator and the conveyor system.

For the blower is connected to the air-outlet of the cyclone which leads to negative pressure in the cyclone. This means that no air will escape through the material outlet during the conveying process. In addition, the regrind does not need to be transported through the fan, protecting the blower from wear and tear and reducing degradation of the regrind. A pneumatically operated valve briefly interrupts the vacuum in the cyclone, allowing the cyclone to be emptied in a pressureless state and the regrind to be collected in an open container.

The vacuum operated conveying system is far superior to standard pressure conveying systems with regard to cleanliness around the granulator and the material conveying system.

A system specially tailored to meet your individual needs can also be built from our wide range of system components such as conveyor belts with or without metal detector, metal separators and / or dust separators.