

The ThermoGranulator

The compact regranulator system



< Model TG20

The ThermoGran20 enables you to regranulate problematic plastic materials with e.g. lot of dust or non-uniform size or even small parts / sprues directly into high-quality granulate.

The granulates produced with the TG20 are of the highest quality and flow behaviour are comparable with the corresponding virgin material.

Accordingly, the granulate produced with the TG20 can be safely reused in your production process and is the right solution wherever a purely „mechanical granulation“ does not provide sufficient results for the process demands.

The system consists of a compact, slow-running extruder with a large in feed zone and a special screw geometry with a large auxiliary feed screw, so that even very poorly flowing regrind with dust, whole sprues and small parts is easily pulled in. The plastic strand is cooled down in a water bath integrated into the system and then cut off in a defined manner with the strand pelletiser, so that a very uniform, easily pourable and easy to dose granulate is produced.

The TG 20 is equipped with a touch-screen control system that can handle even demanding processing tasks.

In automatic mode, the control can adjust the the extruder speed to the feed behaviour of the material and adjust the take-off speed of the pelletiser, so that process fluctuations can be compensated to a certain extent.

The TG20 can also be used for simple compounding applications such as colouring or for the production of micro-pellets.



Advantages:



- > Processing of small parts and very no-uniform material safely possible
- > Colouring or production of microgranulates possible
- > Processing of very dusty materials possible
- > Safe material intake due to large intake zone and a special feed screw.
- > By software coupling of the strand pelletiser with the plasticising unit, a homogeneous material is achieved even with material fluctuations.

Technical data

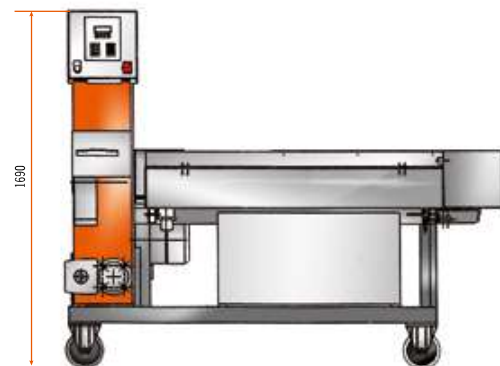
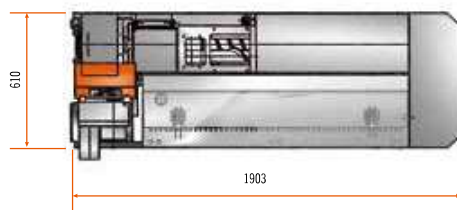


TG20	
Motor power extruder	4 kW
Motor power granulator	0,37 kW
No. of heating zones	3 (barrel)
Heating power	3 x 3 kW
Speed extruder	0 - 34 rpm
Output	Max. ca. 20 kg
Infeed area	Auger + auxiliary auger
Power supply	400 volts / 50 Hz
Weight	ca. 650 kg
Control	PLC



Dimensions

TG20



(All dimensions in mm, rounded, subject to technical modifications)