

PRIMO 200E

WSG dry-cut strand pelletizing systems for utmost flexibility during production



Successfully applied by hundreds of customers, the proven WSG dry-cut strand pelletizing systems with PRIMO E pelletizers produce the highest quality of cylindrical pellets or micro-granular compounds particularly suitable for further processing.

Variable system configurations allow for optimal matching with your specific production requirements and also provide utmost flexibility in terms of product changeover.

Your benefits

- Shortest possible unguided section from feeding unit to cutting unit to meet highest pellet quality standards, with single-sided bearing of the cutting rotor
- Quick exchange of tools and rollers
- System configuration suitable for soft, brittle, and abrasive polymers
- Changes on the pellet length and weight to be made with Dual Drive
- Quick and easy access for cleaning and servicing; quick product changeover

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Processes and machines and systems made by Maag Automatik stand for cost-effectiveness, flexibility, and reliability worldwide. With over six decades of experience and an installed base of currently more than 8,000 pelletizing systems, the company helps its customers to achieve the maximum level of profitability.

Range of applications

With these conventional WSG systems, throughput rates of up to 1,500 kg/h can be achieved for all polymers extrudable to strands.

Functioning of the WSG systems

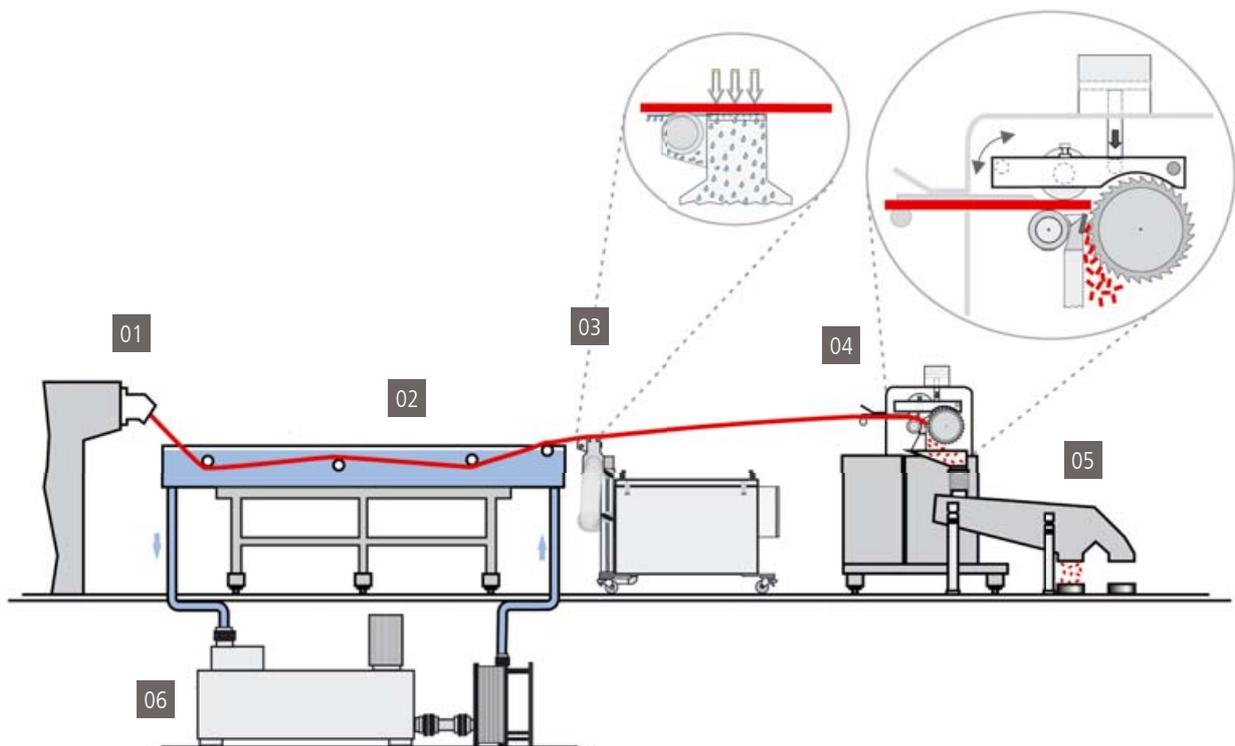
Polymer strands extruded from a die head **01** pass through the cooling trough **02**. The air knife **03** ensures effective strand drying prior to cutting.

The residual moisture after strand drying evaporates in the evaporation section.

The feed tools of the strand pelletizer **04** catch the polymer strands and direct them to the cutting tools where the strands are cut into pellets.

The pellets are classified, cooled, and conveyed in subsequent operations **05**.

The cooling water is filtered and temperature controlled in a process water unit **06** and then returned to the cooling trough.



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WSG system components

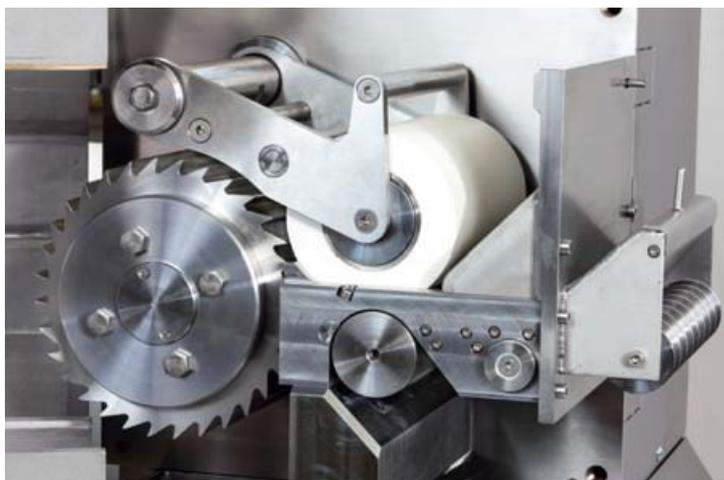
The »heart« of each WSG system is the strand pelletizer. Maag Automatik offers the PRIMO E systems for small batch operations and laboratory applications, according to your specific requirements.

Strand pelletizer

- Single-sided bearing of the cutting rotor allows quick access for cleaning and servicing
- Strand draw-in speeds of up to 150 m/min possible
- Shifting of operating range possible through selection of individual components
- Sound protection hood
- No deposits within the cutting chamber
- Upper feed roll and cutting head cooling
- Start-up assistance for soft, elastic strands
- Lower feed roll driven by a separate motor and belt drive allowing a variable adjustment of pellet length
- Driven wear resistant knurled steel feed roll

Cutting tools

- Selection of cutting tools subject to application, e.g. cutting rotor for soft polymers with shore hardness < 60 shore or for brittle plastics
- Wide range of steel grades, e.g. tool steel, tungsten carbide, PM steel



PRIMO 200 E



Primo 200E cutting chamber

PRIMO 200E

Technical data

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Operating width:	200 mm
Drive system:	AC motor with belt drive
Motor power of pelletizer:	7.5 kW
Line speed at pellet length of 3 mm:	30-120 m/min
Max. number of strands at 3 mm strand diameter:	40

Throughput rates [kg/h]*:

Product:	Density [g/cm³]	
PP, PE:	0.91	1,500
GPPS, SAN:	1.04	1,500
ABS, HIPS:	1.04	1,500
PMMA:	1.18	1,500
PET, PBT:	1.31	1,200
PA 6, PA 6.6:	1.14	900 (30)
PET, PBT, PA, PP, PC + 15 to 50 % glass fiber:	1.00	1,000 (25)
	1.55	1,200 (25)
Thermoplastic elastomers:	1.10	1,500
Masterbatch with > 40 % fillers:	1.30	1,500

* at 3mm pellet size and max. strands. (divergent strand counts in brackets)