



PELLETIZING SYSTEMS ›

› STRAND PELLETIZING

M-ASG

Strand pelletizing system
for high production capacities

 **AUTOMATIK**

When it comes to high throughput rates with consistently high pellet quality, the dry-cut pelletizers of the M-ASG series are the right choice. They are suitable for throughputs of up to 12,500 kg/h and can be adapted to individual requirements using variable system components.

Your benefits

- Sturdy, double-sided bearing of the cutting rotor to meet highest stability and consistency standards
- Roller bearings positioned outside the cutting chamber to allow high production temperatures
- Changes on the pellet length and weight to be made with Dual Drive
- Integration into JSG system feasible
- Very high machine availability due to wear-resistant cutting tools

M-ASG

Functionality and system components

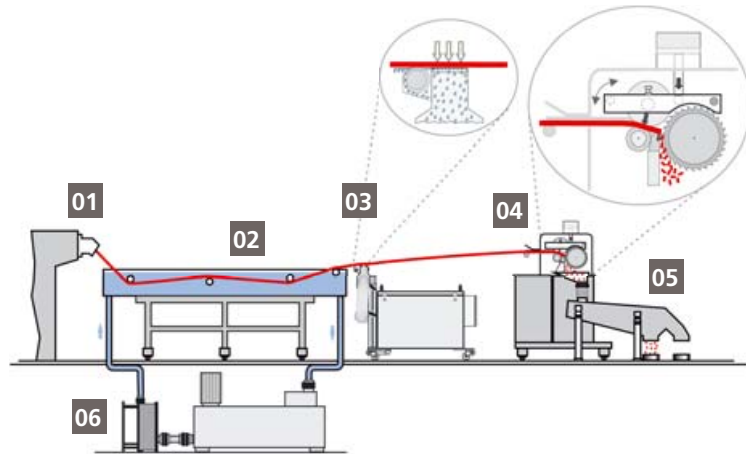
Functioning of the WSG systems

Polymer strands extruded from a die head **01** pass through the cooling trough **02**.

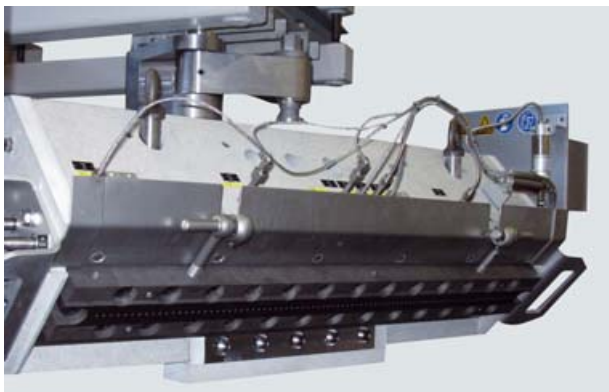
The air knife **03** ensures effective strand drying prior to cutting. The residual moisture after strand drying evaporates in the evaporation section.

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.



WSG system components



SG 900C die head



KW 1.400 cooling trough for up to 130 strands



PWA 20 process water unit



SE 400-2 air knife for dewatering

HL 20 MG Headline 50 schwarz MG

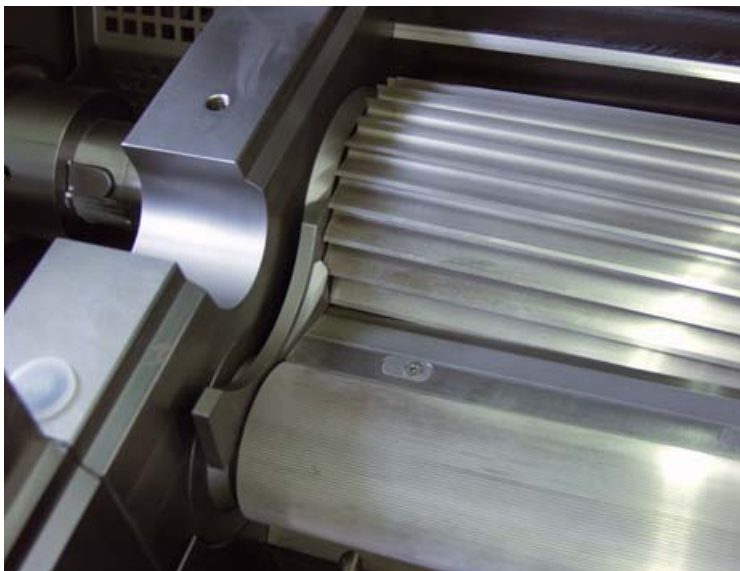
Strand pelletizer



Quick and easy access to all cutting chamber components, without the need for tools

Strand pelletizer

- Strand draw-in speeds of up to 180 m/min possible
- Quick and easy access for cleaning and setting
- Lower feed roll driven by a separate motor and belt drive allowing a variable adjustment of the pellet length
- The design of the knife holder ensures minimum deformation of the cutting blade and highly consistent cutting gap
- Easy-exchange cutting head guarantees maximum machine availability
- No deposits within the cutting head
- Upper feed roll bearings outside of the cutting chamber and gap-free stripper at M-ASG (patent number DE10103827)
- Can be integrated into automatic JSG system
- Driven upper feed roll with rubber coating, grooved or knurled steel roller
- Upper feed roll and cutting head cooling



View into the cutting chamber

Cutting tools

- Long service life of cutting tools depending on the selection of materials, e.g. cutting rotor for PA with 15-50 % glass fiber > 1,000 hours
- Wide range of materials, e.g. stainless tool steel, tungsten carbide, ceramics, and diamond
- Wedged cutting rotor with positive interlock available (patent number DE19855617)
- Patented stripper for best process stability (patent number DE10103827B4)
- patented wear protection for additionally increased service life of the cutting components (patent number EP2190638B1)

M-ASG

Technical data

| Technical data: | M-ASG 600 | M-ASG 900 |
|--|--------------------------|-----------|
| Operating width: | 600 mm | 900 mm |
| Drive system: | AC motor with belt drive | |
| Motor power of pelletize: | 22-45 kW | 30-75 kW |
| Line speed at pellet length of 3 mm: | 30-120 m/min | |
| No. of strands at a 75 % utilization rate and a pellet diameter of 3 mm: | 150 | 225 |

| Throughput rates [kg/h]*: | | M-ASG 600 | M-ASG 900 |
|---|------------------------------|-----------|-----------|
| Product: | Density [g/cm ³] | | |
| PP, PE: | 0,91 | 6.000 | 9.000 |
| GPPS, SAN: | 1,04 | 7.000 | 10.500 |
| ABS, HIPS: | 1,04 | 7.000 | 10.500 |
| PMMA: | 1,18 | 7.000 | 10.500 |
| PC: | 1,20 | 7.000 | 10.500 |
| PET, PBT, PC: | 1,31 | 8.500 | 12.500 |
| PA 6, PA 6.6: | 1,14 | 6.000 | 9.000 |
| PET, PBT, PA, PP + 15 bis 50 % glass fiber: | 1,00 | 5.000 | 7.500 |
| | 1,55 | 6.300 | 9.500 |

* Pellet length 3 mm, pellet diameter 3 mm, and maximum number of strands



PUMP & FILTRATION SYSTEMS > MAAG ETTLINGER
 PELLETIZING SYSTEMS > GALA SCHEER AUTOMATIK REDUCTION
 PULVERIZING SYSTEMS > REDUCTION
 RECYCLING SYSTEMS > ETTLINGER

You can find detailed information about our products in our print media at www.maag.com/brochures.



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