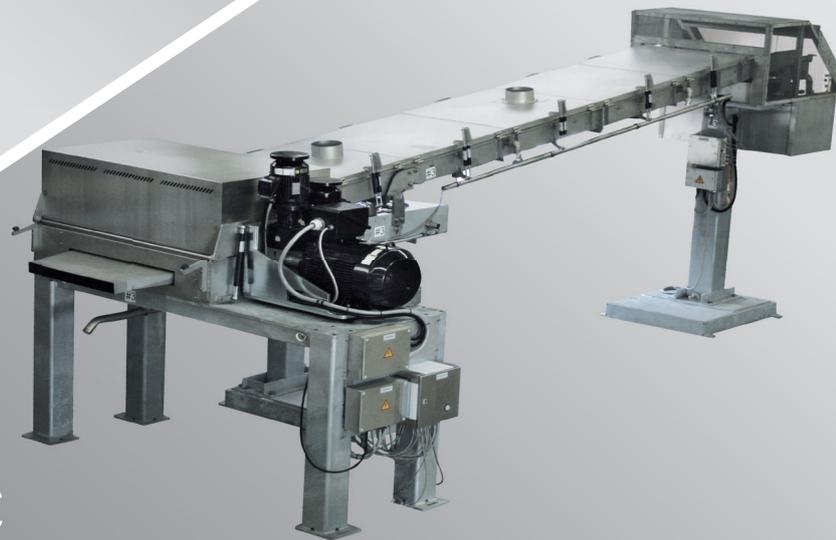


Underwater strand pelletizing system

ips-SGU



ips-SGU/2



ips-SGU/H-HC

- Particularly easy start of the pelletizing process
- Fully automatic re-threading after strand breakages thanks to special design of the start-up head
- Low-dust, even pellets
- High production yields
- Extremely easy operation, minimum personnel requirements
- Sound cover as standard
- Optimum design of the cutting area to prevent pellet deposits
- Throughputs from 400 kg/h to 20 000 kg/h

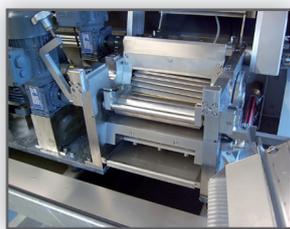
Underwater strand pelletizing system type ips-SGU/2

Underwater strand pelletizing system type ips-SGU/2 are used especially for processing recycled materials. Their sturdy design, sealed bearing points in the cutting head, straightforward operation and fast maintenance thanks to easy access to all components guarantee high process reliability. System operation can be adapted quickly and flexibly to changed operating parameters at any time.

The result: outstanding pellet quality with high process stability.

On account of the modular design, the underwater strand pelletizing system can be configured into a complete pelletizing system – according to your individual requirements. We offer you tailor-made pelletizing solutions for your requirements, from the agglomerate catcher through an after-cooling section with solids feed pump and pellet dryer through to process water system and complete control through the ergonomic ips operator guide.

Details of the finish



Outstanding accessibility to the cutting hand thanks to hinged strand feed



Process water system ips-PWS: specially designed system with filtering, cooling and pumping of the process water and pellet drying



Specific cooling of the polymer strands before cutting



Ergonomic ips operator guide with plain text messages and user management



Very low noise level thanks to joint sound cover for drive and cutting head



Well thought-out details for high system reliability (e.g. rounded start-up head)

Features

- Working widths of 120 mm, 220 mm, 320 mm or 420 mm
- Draw in speeds up to 250 m/min
- Cooling sections up to 8 m before cutting

Options

- ips process water system with pellet dryer
- Interface for integration in external controls
- ips strand die head
- Strand breakage monitoring with automatic movement of the start-up head
- Left or right operating side
- Adjustment of pellet length during the process
- After-cooling section with agglomerate catcher
- Automatic cutting gap adjustment (patented)

Underwater strand pelletizing system type ips-SGU/H-HC

The underwater strand pelletizing system type ips-SGU/H-HC stand for the production of high-quality virgin polymer pellets. All system components are characterised by high quality and long service life and have been designed for very large throughput rates. Easy access to the components guarantees simple maintenance and cleaning. The fully automatic process including automatic threading, after strand breakage, cutting tools perfectly match to the respective pelletizing task on hand and simple operation of the entire plant ensure excellent pellet quality with high production yield.

Details of the finish



Easily accessible cutting head thanks to movable strand feed



Start-up head with height adjustment, strand breakage monitoring and safety guard



Specific cooling of the polymer strands before cutting



Strand die head with scraping device for automatic start and stop



Low noise level thanks to sound cover if easily accessible



Quick-change cutting head with quick disconnection of the drives and pneumatics

Features

- Working widths 600 mm, 900 mm or 1 200 mm
- Simple access for comfortable settings and cleaning
- Sound insulation for the cutting head
- Well thought-out safety devices
- Sealing of the bearing points in the cutting head
- Quickly replaceable cutting head

Options

- ips process water system with pellet dryer
- Interface for integration in external controls
- ips strand die head with automatic scraping device
- Strand breakage monitoring with automatic movement of the start-up head
- Left or right operating side
- Adjustment of pellet length during the process
- After-cooling section with agglomerate catcher
- Versions for optical grade applications (PC)

Technical data

Size	ips-SGU 120/2	ips-SGU 220/2	ips-SGU 320/2	ips-SGU 420/2
Cutting width (mm)	120	220	320	420
max. number of strands <i>with strand diameter of 3.0 mm</i>	13	23	33	43
Power (kW) of				
Rotary cutter	4	7,5	11	15
Lower feed roller	0,55	0,75	1,1	1,5
Upper feed roller	0,55	0,75	1,1	1,5
Total process cooling water requirement (m ³ /h)	10	12	15	20
Draw-in speed range (m/min.) <i>with pellet length of 3 mm</i>	60 – 250	60 – 250	60 – 250	60 – 250
Strand cooling chute – length (m) <i>depending on polymer</i>	3/4/6/8	3/4/6/8	3/4/6/8	3/4/6/8
Other	Standard pellet length: 3 mm or infinitely adjustable online pellet length setting			

Size	ips-SGU 600/H-HC	ips-SGU 900/H-HC	ips-SGU 1200/H-HC
Cutting width (mm)	600	900	1 200
max. number of strands <i>with strand diameter of 3.0 mm</i>	80	120	150
Power (kW) of			
Rotary cutter	18	37	37
Lower feed roller	4	4	5,5
Upper feed roller	4	4	5,5
Total process cooling water requirement (m ³ /h)	35	45	55
Draw-in speed range (m/min.) <i>with pellet length of 3 mm</i>	60 – 280	60 – 280	60 – 280
Strand cooling chute – length (m) <i>depending on polymer</i>	3/4/6/8	3/4/6/8	3/4/6/8
Other	Standard pellet length: 3 mm or infinitely adjustable online pellet length setting		

Throughput data

depending on pellet length, pellet diameter, draw-in speed, number of strands, power, cooling time before cut etc.

Size	ips-SGU 120/2	ips-SGU 220/2	ips-SGU 320/2	ips-SGU 420/2
max. throughput (kg/h) <i>depending on pellet weight and polymer</i>	1 300	2 300	3 300	4 300

Size	ips-SGU 600/H-HC	ips-SGU 900/H-HC	ips-SGU 1200/H-HC
max. throughput (kg/h) <i>depending on pellet weight and polymer</i>	10 000	15 000	20 000

