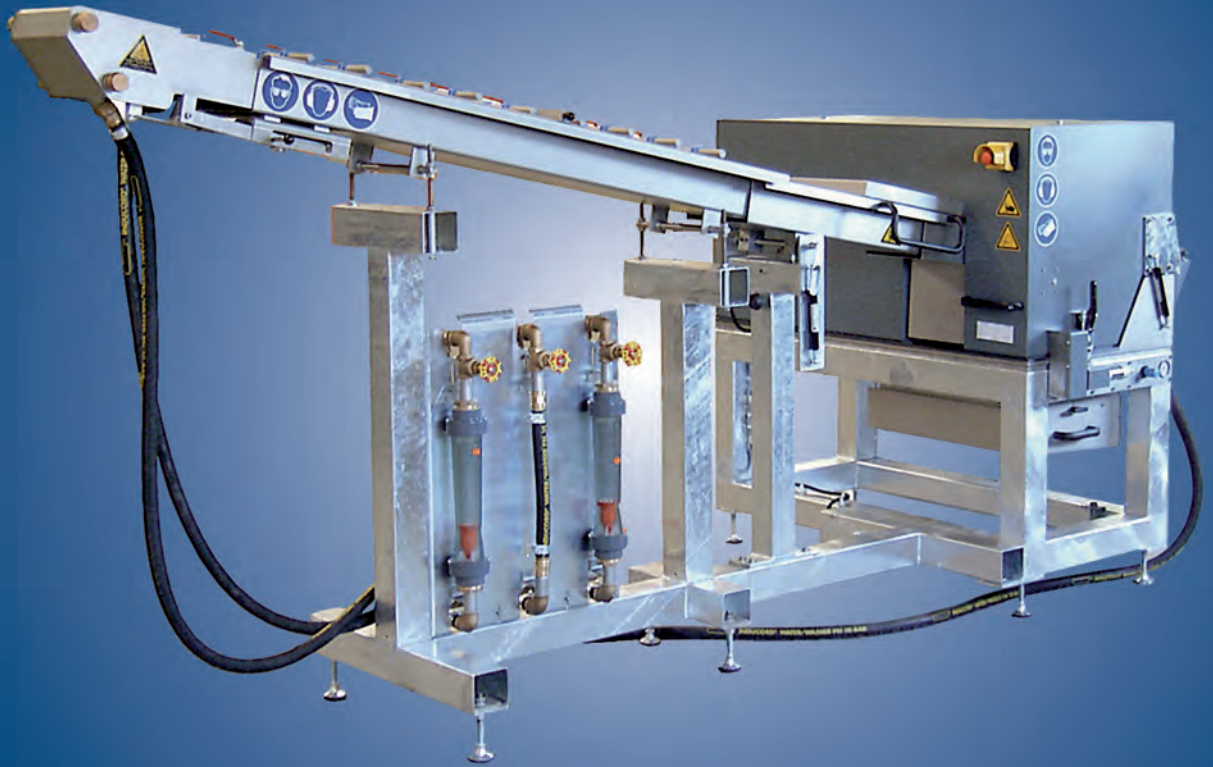


Underwater strand pelletizing system ips-SGU/2



- Particularly easy start-up of the pelletizing process
- Special design of the start-up head enables automatic re-threading after strand breakage
- Low-dust, even pellets
- High production yields
- Draw-in speeds up to 250 m/min
- Very easy to operate
- Sound insulation as standard
- Working widths up to 420 mm
- Cooling lengths before cutting up to 8 m
- Optimum access to the cutting head due to folding strand guide section
- Optimum design of the cutting area to prevent deposits
- Robust design for use in recycling plants
- Options tailored to your process available

Option: Automatic cutting gap adjustment (patented)

Option: ips-PWS process water system

Option: Interface for integration into external control systems

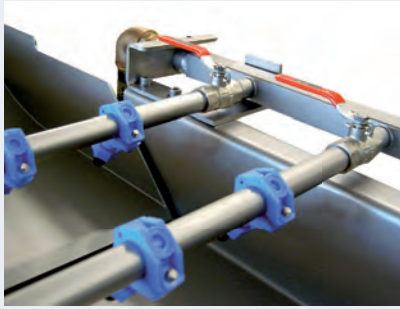
Option: Strand breakage monitoring

Option: Can be operated from the left or right

Design details

All components are specially designed and adapted to suit the particular requirements of underwater strand pelletizing. This includes special sealing of the bearing points with a lubrication system for long service life, folding spray nozzle unit for good accessibility and flexible cooling by means of individually switched spray tubes.

The strand guide section can be flexibly adapted to your extrusion height. The cutting gap consistency required for this process is achieved with the simple adjustment system. The clear arrangement of the operating elements with optimum accessibility enables the system to be operated safely.



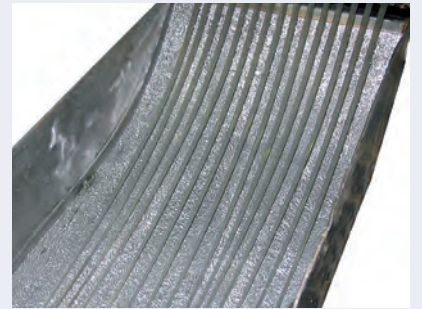
Very easy replacement of the process water spray nozzels, even during production

Separate drives make pellet length adjustment possible even during the process



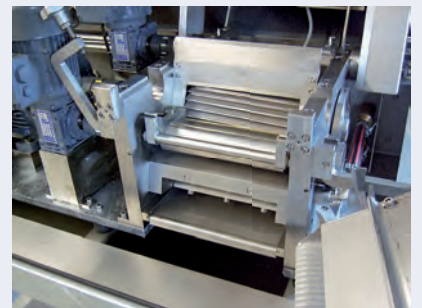
Very low noise level due to a shared sound insulation hood for the drive and the cutting head

Carefully-designed details increase the reliability of the system (e.g. rounded start-up head)



Targeted cooling of the polymer strands before cutting

Optimum accessibility to the cutting head by folding strand feed guide



Option:
Online pellet length adjustment



Driven upper feed roller



Option:
Operation from left or right

Options and accessories

ips systems are available with a range of options and accessories. We will be happy to advise you on the systems we offer, and the additions that will be best for you.

A variety of options, from strand die head to pellet drying, are available for the underwater strand pelletizing system. The strand breakage monitoring can be incorporated into an automatic production stop. The aftercooling line with pellet dryer completes the process.



ips-GT centrifugal dryer:

To separate the pellets from the process cooling water; compact construction with good accessibility for cleaning the screen and for maintenance



ips-PWS process water system:

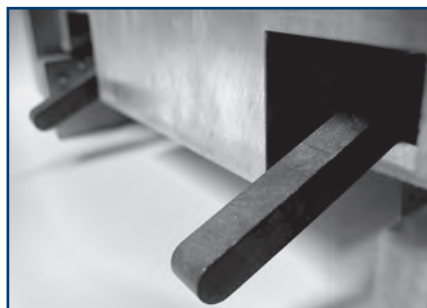
A system specially designed for this application with filtering, cooling and delivery of the process water



Cooling lengths before cutting up to 8 m



Agglomerate separator



Automatic cutting gap adjustment



Cutting blades and cutting rotors designed to suit the process requirements



Option:
Interface for
data exchange



Pneumatic pressure on
the upper feed roller



Option:
Automatic cutting
gap adjustment

Technical data

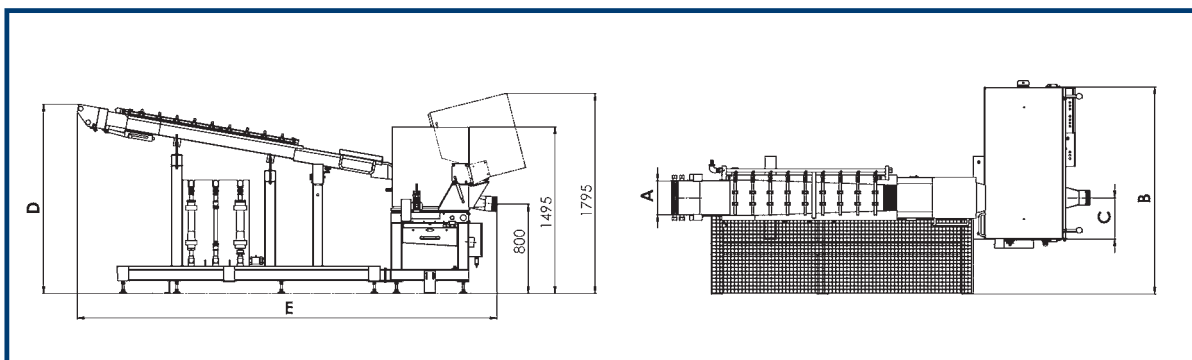
Size	ips-SGU 120/2	ips-SGU 220/2	ips-SGU 320/2	ips-SGU 420/2
Cutting width (mm)	120	220	320	420
Max. number of strands <i>with strand diameter of 3.0 mm and 10 mm spacing</i>	13	23	33	43
Power (kW) of Rotary cutter	4	7	11	15
Lower feed roller	0.55	0.75	1.1	1.5
Upper feed roller	0.55	0.75	1.1	1.5
Total 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)				
PA / PETP	3	3	3	3
PP	6	6	6	6
PC	6	6	6	6
Other	Standard pellet length: 3 mm or from 1.5 – 5.0 mm in steps of 0.5 mm or infinitely adjustable online pellet length setting			

Throughput data

Size	ips-SGU 120/2	ips-SGU 220/2	ips-SGU 320/2	ips-SGU 420/2
PETP (bottle grade) (kg/h)	1,300	2,300	3,300	4,300
PA 6.6 (kg/h)	1,300	2,300	3,300	4,300
PP (kg/h)	400	800	1,200	1,600
PC (kg/h)	1,100	2,000	2,800	3,600

*Throughput data depends on:
Pellet length, pellet diameter, draw-in speed, number of strands, power, cooling time before cut, etc.*

Dimensions



Size	ips-SGU 120/2	ips-SGU 220/2	ips-SGU 320/2	ips-SGU 420/2
A (mm) approx.	200	300	400	500
B (mm) approx.	1,800	1,850	1,900	2,000
C (mm) approx.	320	370	420	470
D (mm) approx.	PA, PETP = 1,650; PP = 2,170; PC = 2,170			
E (mm) approx.	PA, PETP = 3,780; PP = 6,620; PC = 6,620			
Weight (kg) approx.	1,300	1,500	1,600	1,700

We reserve the right to make changes without notice. The illustrations may include options and accessories that are not part of the standard scope of supply.

