

NEW!

F:GRAN SERIES RECYCLING MACHINE

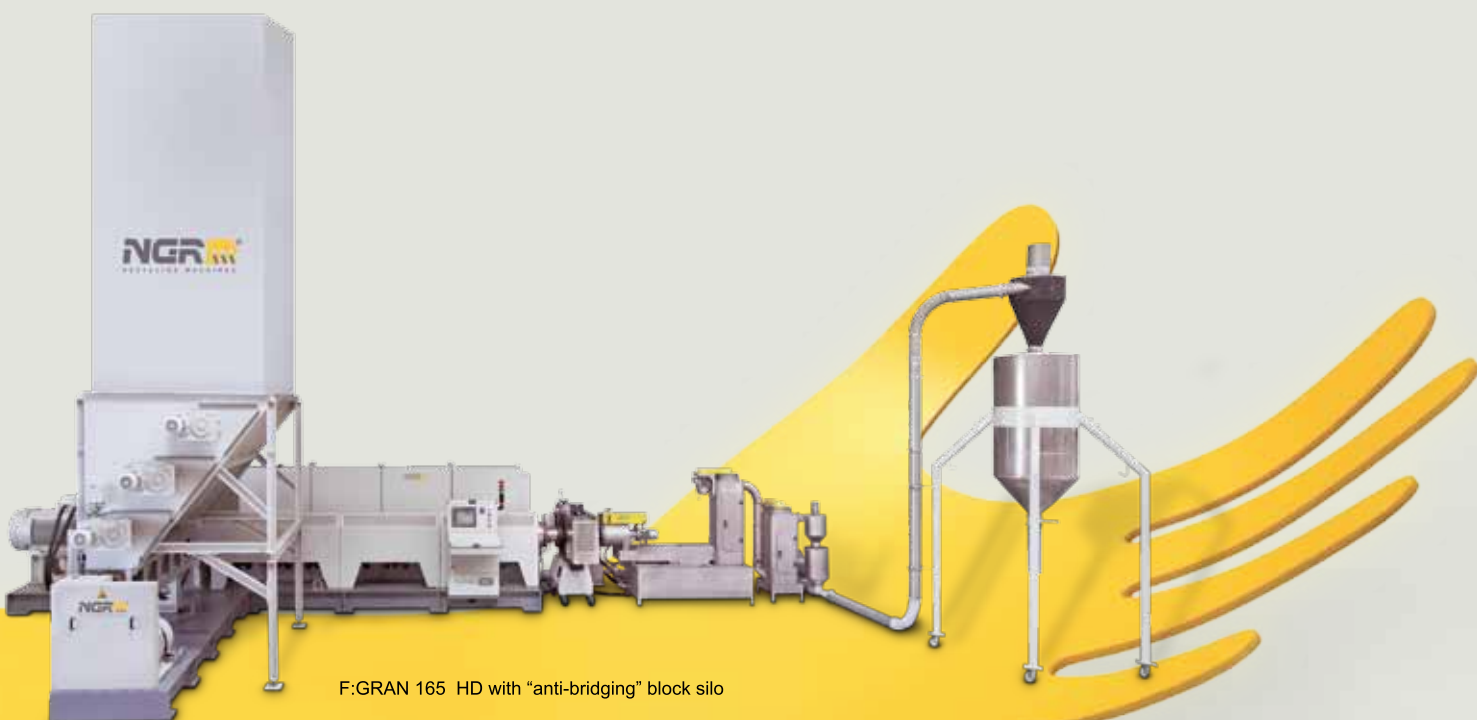
For ground fluff or regrind applications where an integrated shredder is not required, such as

- Post-consumer material coming from a washing line (bottle flakes, film fluff, etc.)
- BOPP fluff / industrial waste already size reduced with grinders

Based on NGR's extrusion success with the "ONE-STEP" recycling technology, the F:GRAN recycling machine is designed without a shredder. F:GRAN series machines are able to process flakes either dry or with residual moisture of approx. 5%, such as after a washing process.

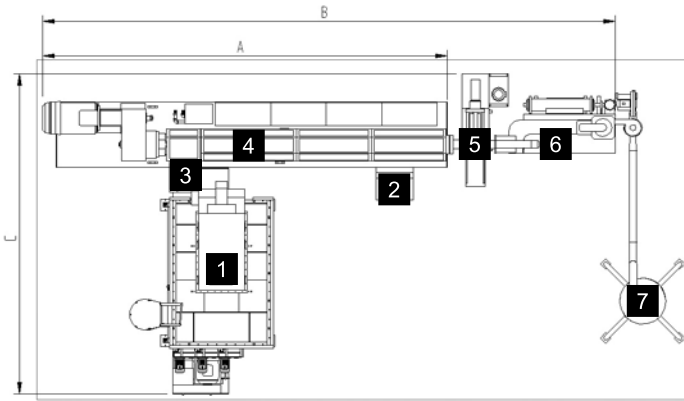
F:GRAN recycling machines with an extruder screw diameter of up to 125 mm [4,9 inch] are equipped with a regrind or fluff hopper, a horizontal feeding screw and a force feeding system. Machines with extruder screw diameters between 145 mm [5,7 inch] and 205 mm [8,0 inch] use a special "anti-bridging" block silo positioned above the horizontal feeding screw which feeds the extruder directly.

- Short payback period due to the excellent output rates in combination with **low operating and energy costs**
- **Top pellet quality** due to the gentle extrusion process
- The **uniform pellet size** allows homogeneous mixing with virgin material
- **Simple start-up and shut-down:** immediate restarts after sudden unintended plant stops (e.g. power loss, emergency stops) with filled hopper and extruder screw
- The **highly automated process** reduces operator influence on pellet quality and output rate
- Simple access to wear parts **minimizes downtime**



F:GRAN 165 HD with "anti-bridging" block silo

Layout example F:GRAN 165 HD with "anti-bridging" block silo



- 1 Buffer silo
- 2 Operation panel
- 3 Feeding screw
- 4 Extruder
- 5 Screen changer
- 6 Water ring die face pelletizer
- 7 Cyclone silo combination

*) output for LDPE according to NGR standards, material and form. Values are "up to"

standard execution:

Basic ... short screw without venting

additional options:

- Variable screw speed with frequency converter
- V ... single vacuum venting
- VV ... double vacuum venting
- AV ... atmospheric venting plus vacuum venting

type venting option			F:GRAN 105				F:GRAN 125				F:GRAN 145			
			Basic	V	VV	AV	Basic	V	VV	AV	Basic	V	VV	AV
output of pellets *)		kg/h / lbs/hr	600 / 1.320				800 / 1.760				1.100 / 2.400			
extruder	screw diameter	mm / inch	105 / 4,13				125 / 4,92				145 / 5,71			
	screw length	L/D	26	37	53	49	26	37	53	49	30	39	55	51
dimensions	A	m / inch	4,9 / 193	6,1 / 241	7,9 / 311	7,4 / 291	5,1 / 201	7,5 / 295	9,6 / 378	9,0 / 354	7,2 / 283	8,5 / 335	10,8 / 426	10,2 / 403
	B	m / inch	7,6 / 301	8,9 / 350	10,7 / 419	10,1 / 399	8,9 / 351	11,0 / 434	13,1 / 517	12,5 / 493	10,7 / 421	12,0 / 472	14,3 / 564	13,7 / 541
	C	m / inch	5,9 / 232				5,9 / 232				5,5 / 217			

type venting option			F:GRAN 165				F:GRAN 185				F:GRAN 205			
			Basic	V	VV	AV	Basic	V	VV	AV	Basic	V	VV	AV
output of pellets *)		kg/h / lbs/hr	1.400 / 3.100				1.750 / 3.900				2.000 / 4.400			
extruder	screw diameter	mm / inch	165 / 6,5				185 / 7,28				205 / 8,07			
	screw length	L/D	30	39	55	51	30	39	55	51	30	39	55	51
dimensions	A	m / inch	7,8 / 305	9,2 / 364	11,9 / 468	11,2 / 442	8,7 / 343	10,4 / 409	13,3 / 525	12,6 / 496	9,4 / 369	11,2 / 441	14,5 / 570	13,7 / 538
	B	m / inch	11,4 / 448	12,9 / 507	15,5 / 611	14,9 / 585	13,0 / 512	14,7 / 577	17,6 / 694	16,9 / 665	13,6 / 537	15,5 / 610	18,8 / 739	18,0 / 707
	C	m / inch	7,5 / 295				7,5 / 295				7,5 / 295			

WE TAKE CARE
OF YOUR PLASTIC WASTE

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