

The low speed specialist

GOLIATH PLUS



Metal detection
system



moditec[®]
The passion for the plastic technology



Soundproofed hopper type C



The ABS system cabinet with LCD display

Improved and handled by a smart relay. A front operator dialogue screen indicates all the granulators basic malfunctionings.

NEW



GPlus 1



Granulometry

NEW

3 types as standard : t_{pz} 5, t_{pz} 6 and t_{pz} 8. The teeth unique conception, both trapezoid and helical, gives an optimum quality of granules.



GPlus 2



GPlus 3



GPlus 4



GOLIATH Plus

GOLIATH Plus :
Slow speed experience !

20 year experience in slow speed technology enables MODITEC to perfect its granulators and to introduce its new range GOLIATH Plus.

GOLIATH Plus granulators not only offer all the advantages to grind thermoplastics at low speed, that is to say with less noise, less dust and less

wear on the equipment thanks to a low cutting speed (25 rpm) and a minimum horsepower requirement, but GOLIATH Plus granulators also develop important innovations such as reversible combs and counter combs, various t_{pz} granulometries, ABS cabinet with LCD display (optional), MASHER system (optional) and the new Integrated metal detection IMD (optional)



MASHER System

Available on GOLIATH Plus and GOLIATH TWIN Plus as an option, the patented MASHER system will accurately pull large bulky reject parts into the cutting chamber. The rotational cutters of the MASHER are assembled on a rotating shaft fixed in a frame which is located between the hopper and the cutting chamber. These cutters will grab the parts and direct them easily into the cutters of the cutting chamber.

On the GOLIATH Plus granulator, the MASHER system has a rotating shaft, temporized and alternated, which makes all the pieces transfer in the cutting chamber easier and avoid their stagnation (optional on this system : ABS system on the rotor and MASHER system



Angled cutters (details)

shaft run by an automatic cycle)

On the GOLIATH TWIN Plus granulator equipped with MASHER system, the ABS system (on the 2 rotors and the MASHER shaft) is included as standard.

The MASHER is run by an automatic cycle which checks permanently each of the 3 gear motors and fits the rotational movement and the stops according to the form and the dimension of the parts, providing the best grinding.

The MASHER system on GOLIATH Plus and GOLIATH TWIN Plus granulators enables you to granulate large reject parts directly beside the press.



Open chamber and patented MASHER system

OPTIONS

Available on GOLIATH Plus and GOLIATH TWIN Plus granulators as an option, the anti-jamming ABS system, larger material bins, special hoppers, automatic hoppers, cooling circuit, 2.2 kW gear motors or level sensors.



Integrated detection

IMD (Integrated Metal Detection)

The technological advance

This new patent pending concept, was designed to avoid serious damages in case of a metallic part falling down into the cutting chamber.

Actually, as soon as a metal part is detected by this system (by contact between 2 areas in the cutting chamber), the GOLIATH Plus granulator rotor stops immediately : within 40 milli seconds. The operator will read at the same time, on the LCD screen of the electrical cabinet, the corresponding malfunctioning message

The significant advantages for the user are :

- to maintain productivity as the production is stopped only during the cutting chamber cleaning,
- a significant saving in repair cost (cutting chamber, press screw , mould, etc...).

This process, including the ABS system, is optional on some of GOLIATH Plus and GOLIATH TWIN Plus granulators. Contact us for further details !

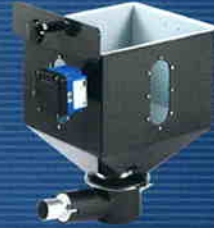


The ABS system cabinet

handled by a automatic cycle. An operator dialogue terminal with a front LCD screen, enables to select the appropriate parameters, to display alarms, to consult their history and the various clocks



Open hopper



Bin with level sensor with paddles (rotonivo)



Reversible combs and counter-combs :

the lifespan is doubled.

NEW



GTwin Plus

GOLIATH TWIN PLUS

The GOLIATH TWIN PLUS capacity

The GOLIATH TWIN PLUS granulator has the same advantages as the GOLIATH PLUS, assuring you an optimal regrind of bulky part and a higher output. With a seven-precutter twin rotors issued from the GOLIATH

Plus technology, the efficiency is doubled thanks to two gear motors (2x1.8 kW or 2x2.2 kW optional) and a bigger cutting chamber = 504 x 452 mm.

The ABS system is available as option on twin rotors.

GOLIATH Plus and GOLIATH TWIN Plus granulators are especially designed to grind sprues but also little and medium reject parts.

OPTIONS

the anti-jamming ABS system, MASHER system, IMD integrated detection, soundproofed hoppers, automatic hoppers, larger material bins, level sensors, cooling circuit, 2.2 kW gear motor, t_{pz} 5 and t_{pz} 8 granulometries .



GOLIATH Plus

GRANULATORS		GPlus 1 ch	GPlus 2 ch	GPlus 1	GPlus 2	GPlus 3	GPlus 4
TRANSMISSION		By chain drive		By flexible coupling			
Motor power	kW	0.90		1.8 (Option 2.2)			
Speed	rpm	25					
Cutting chamber	mm	229x172	229x265	229x172	229x265	229x359	229x453
Number of cutters		1	2	1	2	3	4
Cutter diameter	mm	248					
Number of rollers with teeth		2	3	2	3	4	5
OVERALL DIMENSIONS (mm)							
Without hopper :	length	571	571	1062	1156	1250	1344
	width	550	601	485	485	485	485
	height	507	537	537	537	627	627
With hopper type B :	length	692	692	1062	1156	1250	1344
	width	550	550	588	588	588	588
	height	1210	1240	1240	1240	1330	1330
With ABS control :	length	990	990	1062	1156	1250	1344
With Masher option :					1371/1438	1484/1539	1512/1632
Length : standard/option 2.2 kW							
	width					485	
	height				1538	1648	1656
WEIGHT (kg)							
Standard version		160	230	240	280	340	390
With Masher :					410	455	500

GOLIATH TWIN Plus

GRANULATORS		GTwinPlus
TRANSMISSION		By flexible coupling
Motor power	kW	2 x 1.8 (Option 2 x 2.2)
Speed	rpm	25
Cutting chamber	mm	510 x 453
Number of cutters		7
Cutter diameter	mm	248
Number of rollers with teeth		9
OVERALL DIMENSIONS (mm)		
Length : standard/ option 2 x 2.2 kW		1373 / 1493
	width	770
	height	1490
With Masher :		
Length: standard/ option 2x2.2 kW		1503 / 1623
	width	770
	height	1694
WEIGHT (kg)		
Standard version		670
With Masher :		750



Applications

Beside the press operation, our GOLIATH Plus granulators are very adaptable to the recycling of plastics parts and runners for injection molding processes.

Our GOLIATH Plus granulators are built with common parts for better maintenance and low inventory of parts for the users.

All of our granulators have the advantage to regrind at low speed (25 rpm) and high torques with :

- Very little dust,
- No shear,
- No screen,
- Very quiet operations,
- Minimum maintenance on blades, rotor pre-cutter,
- Without destroying the molecule structure of the thermoplastics,
- Small footprint,
- Low power consumption,
- Easy to clean.



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