

The low speed specialist

MINI GOLIATH

570 mm !



Experience
and expertise
to your little
sprues
recycling

THE MOST COMPACT
LOW SPEED
GRANULATOR



moditec[®]
The passion for the plastic technology



MINI 1



MINI 2

suits for recycling :
engineering plastics PC,
Nylon with or without
fiber glass.
Maximum
output =
3.8 kg/hour



straight hopper
available on request

MODITEC latest innovation, the MINI GOLIATH has been designed for recycling of very small sprues (1 mm diameter and larger). The MINI GOLIATH benefits from MODITEC's 30 years know-how for low speed technology and GOLIATH quality :

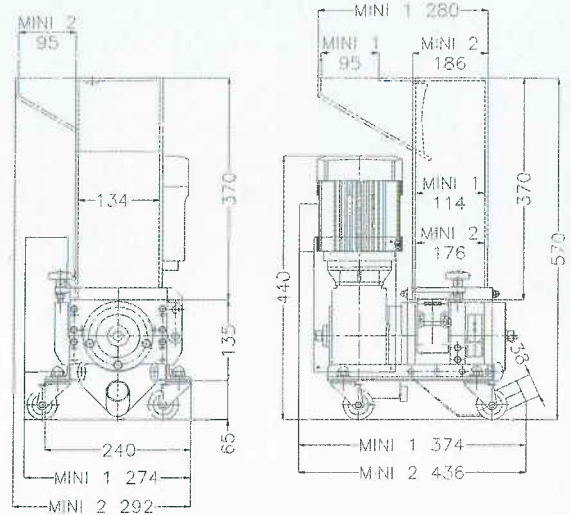
- ★ the most compact low speed granulator (25 rpm) needs little space,
- ★ total weight of 45 kg including a PC hopper makes this low speed granulator easy to move,
- ★ reversible cutters and combs reducing sharpening frequency to 50% less,
- ★ 370 Watts low power consumption (550 W in option),
- ★ very little dust,
- ★ easy to clean,
- ★ very quiet and silent operation.

MINI GOLIATH

GRANULATORS		MINI 1	MINI 2
Transmission		direct	direct
Motor power	kW	0.37 (0.55)	
Speed	rpm	25	
Cutting chamber	mm	134x114	134x176
Granulometry	mm	5	
Maxi output*	mm	2	3.8
Weight	kg	45	50

* according to material, granulometry and way to feed

optional



09/2007 Subject to alteration

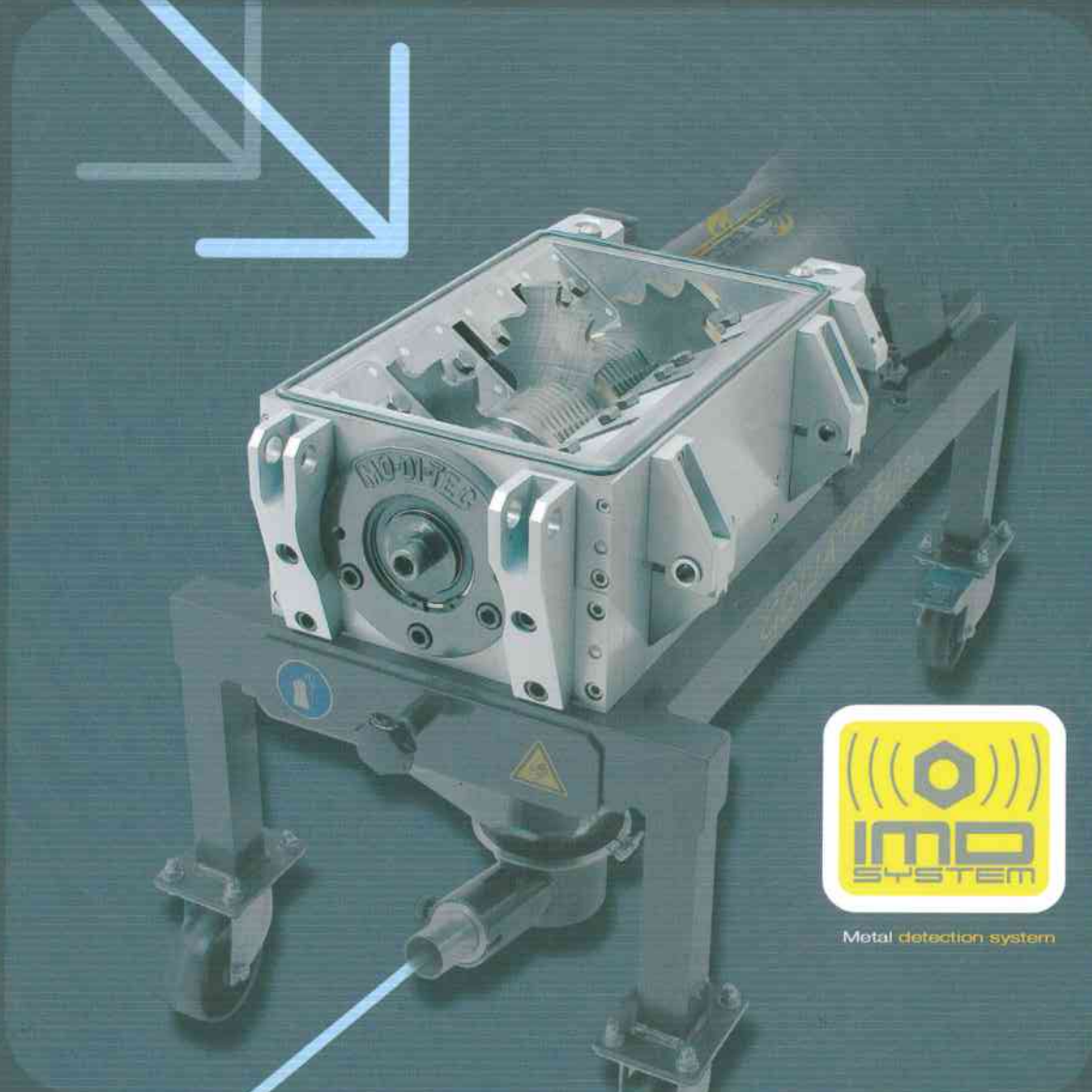


moditec[®]
The passion for the plastic technology

ZAC de la Donnière F-69970 MARENNES
Tel. +33 (0)4 78 02 40 05 - Fax +33 (0) 4 78 02 13 70
moditec@moditec.fr - www.moditec.fr

MODITEC

INNOVATIVE LOW SPEED GRANULATORS



Metal detection system

Know-how & innovative technology
to serve low speed

granulator

transmission

power

speed

efficiency

cutting

cutter

security

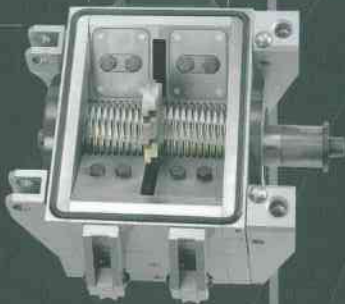
hopper

granules

profitability

GPlus 1

172 mm



GPlus 2

266 mm



GPlus 3

359 mm



GPlus 4

453 mm



GPlus 4 MASHER, ABS, IMD, soundproofed C hopper, open block.



GPlus 1, vertical gearmotor*, hopper B**



GPlus 2, horizontal gearmotor*, hopper C**



GOLIATH Plus

30 years experience in low speed technology !

To improve grinding process directly beside the IMM, to come up to recycling constraints; to make the maintenance easier.

The 25 rpm, and the resulting torque, permit to:

- avoid overheating during recycling,
- less dust, to optimise quality granules,
- less noise,
- less wear of cutting elements and motor,
- minimized footprint,
- fast and very simple cleaning.

The teeth unique conception, both trapezoid & helical, gives an optimum quality of granules. 3 types as standard: tpz5, tpz6 and tpz8. Specific steel coating, to protect cutting elements during recycling of abrasive material.

Optional: titanium coating wear.



The ABS system cabinet handled by automatic cycle and operator dialogue terminal with a front LCD screen (parameters, alarms, various clocks).

* Vertical or horizontal, gear motors from 0.75Kw to 2.2Kw.

** Available according to your need, hopper B or C

Optional : automatic hopper

Masher system - available on Goliath Plus and Goliath Twin Plus (option)

This patented 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.





patented system

Integrated Metal Detection, the technological advance

IMD (Integrated Metal Detection)

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 GoliathPlus granulator rotor stop 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 is available in 2 versions:

- Electrical cabinet with ABS system,
- With stop start button, without ABS system.

Ask for more info !



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 higher output.

With a seven-precutter twin rotors issued from the Goliath Plus technology, the efficiency is doubled thanks to two gear motors (2 x 2.2 kW) and a bigger cutting chamber (504 x 457 mm).

The ABS system is available as option on twin rotors.



The ABS system cabinet

Handled by an 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.



Optional : bin with level sensor with paddles (ROTONIVO)



Open hopper

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.

Reversibles combs and counter-combs

The lifespan is doubled.



because each application is different

Granulators GOLIATH Plus		GPlus 1			GPlus 2			GPlus 3			GPlus 4		
Gear motor position		Vertical	Horizontal		Vertical	Horizontal		Vertical	Horizontal		Vertical	Horizontal	
KW		0,75	1,5	2,2	0,75	1,5	2,2	-	1,5	2,2	-	1,5	2,2
Rpm		25 rpm			25 rpm			25 rpm			25 rpm		
Cutting chamber		229 x 172 mm			229 x 265 mm			229 x 359 mm			229 x 453 mm		
Number of cutters		1			2			3			4		
Cutters Ø		248 mm			248 mm			248 mm			248 mm		
Number of rollers		2			3			4			5		
Overall dimensions (mm)													
With B hopper and shop / start	length	669	684	1040	767	782	1134	-	876	1228	-	951	1317
	width	678	678	678	678	678	678	-	678	678	-	678	678
	height	1210			1240			1330			1330		
With ABS	width	776	776	776	776	776	776	-	776	776	-	776	776
With MASHER	length	-	-	-	-	-	-	-	-	-	-	1118	1464
	width	-	-	-	-	-	-	-	-	-	-	655	655
	height	-	-	-	-	-	-	-	-	-	-	1656	1656
Weight (kg)													
Standard version		240			280			340			390		
MASHER version		-			-			-			500		

Granulators GOLIATH TWIN Plus

GTwinPlus Masher

Transmission	by flexible coupling
KW	2 x 2,2
Rpm	25 rpm
Cutting chamber	510 x 453 mm
Number of cutters	7
Cutters Ø	248 mm
Number of rollers	9

Overall dimensions (mm)

Length : standard 2 x 2,2 KW	1503
Width	770
Height	1694

Weight (kg)

Standard version	750
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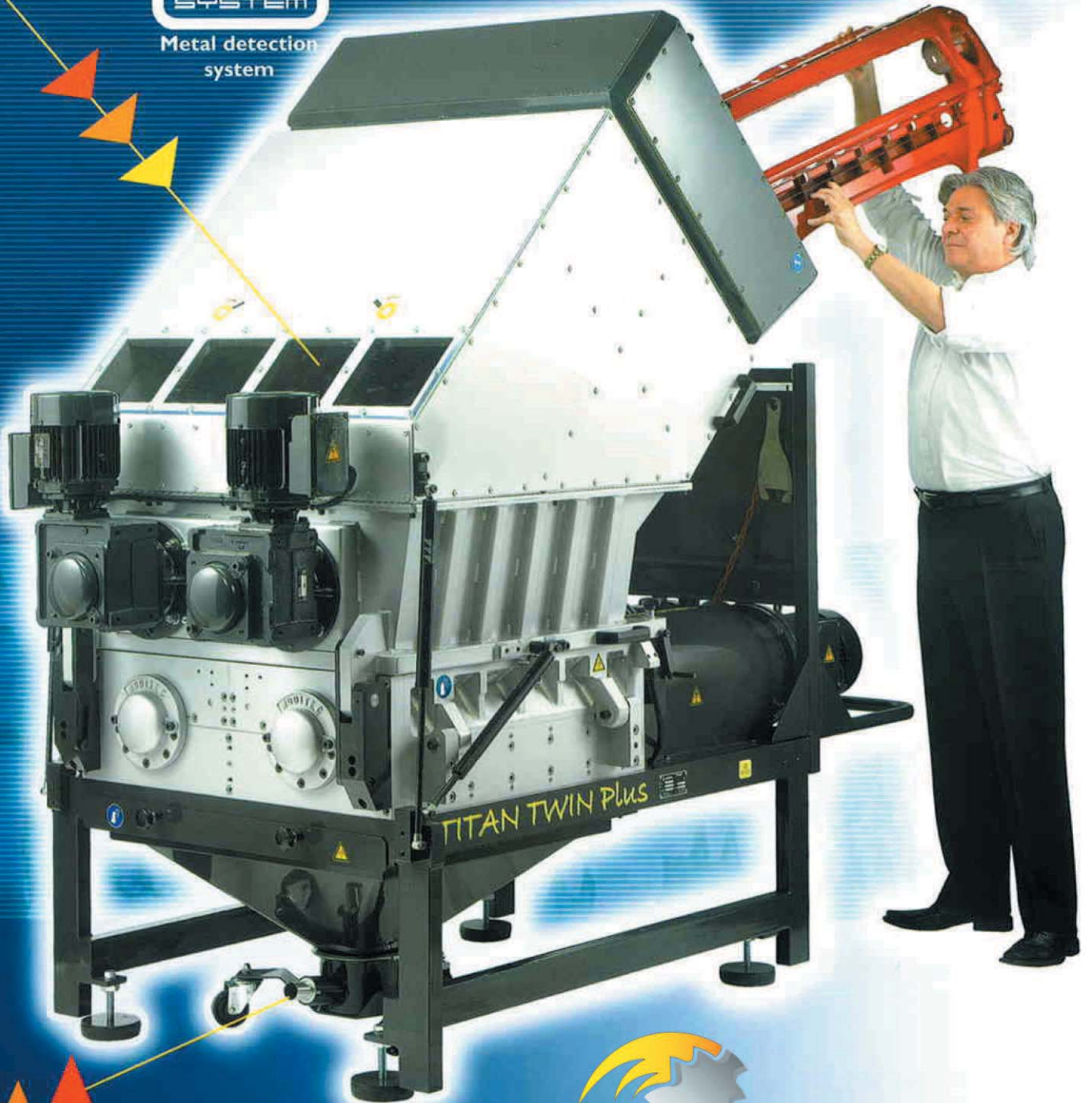


The slow speed specialist

TITAN PLUS



Metal detection system





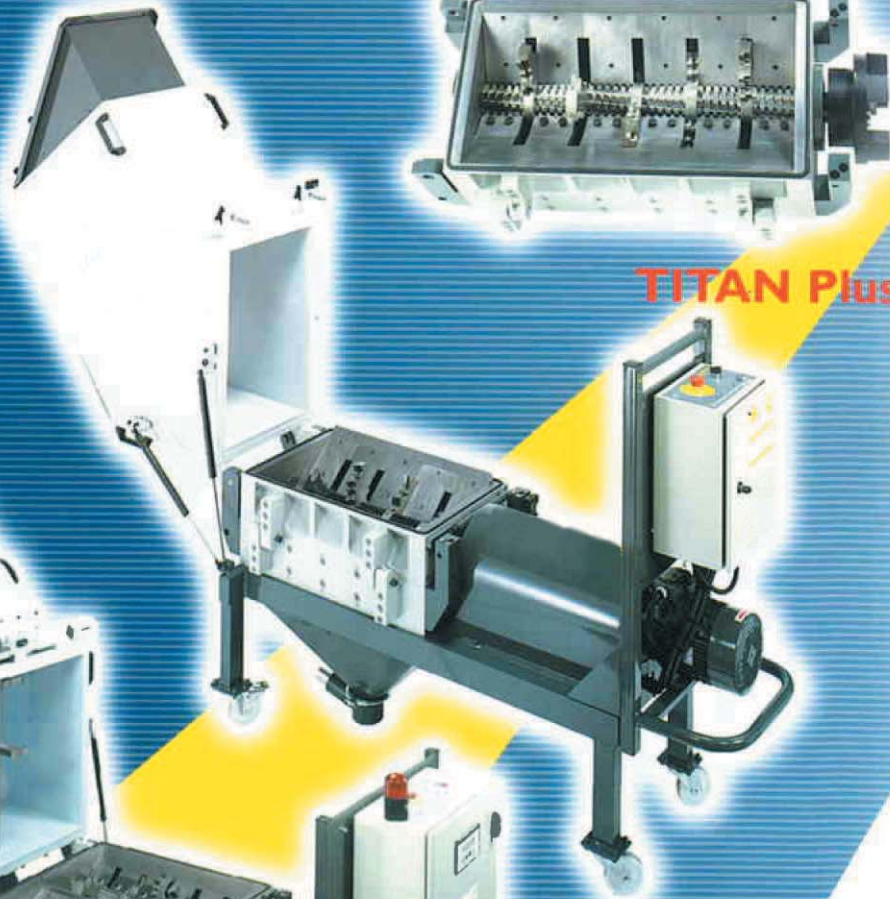
Level detector

optional on the material bin

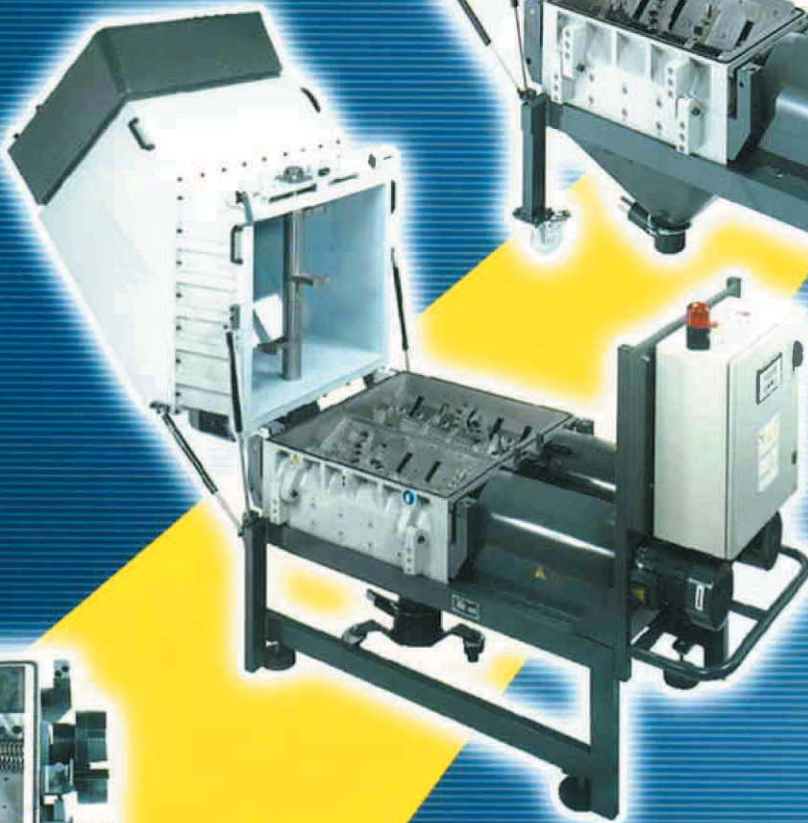


LCD display

*On the electrical cabinet,
displays troubleshooting
messages*



TITAN Plus



TITAN TWIN Plus



The TITAN Plus power :

The *Titan Plus* granulators benefit from MO-DI-TEC's slow speed technology and ability to recycle larger plastic pieces such as automotive components, bumpers and TV housings.

- 1 model is available in the *Titan Plus* range with a cutting chamber 746x400 mm with 5 cutters, power geared motor 4 kW.
- 2 models are available in the *Titan Twin Plus* range with cutting chambers with 8 or 10 cutters, POWER GEARED MOTOR 2x4 kW.

Several innovative options are available such as anti-blocking (ABS) system, cabinet with LCD display, patented Masher system, patented new integrated metal detection (IMD).

MASHER system

Available on the *Titan Plus* line as an option, the patented Masher system will accurately pull bulky reject parts into the cutting chamber and push them into the rotor.

The rotational hooks of the Masher are assembled on a shaft which is located in a mechanical frame between the hopper and the cutting chamber. The Masher hooks grab the parts and push them onto the cutters of the cutting chamber. The Masher is run on an automatic cycle which checks the granulator feed and guarantees user safety.

The third shaft Masher is designed to avoid the stagnation of the pieces in the cutting chamber. Since it rotates in both directions, all the pieces are transferred into the cutting chamber. An optional double Masher on the *Titan Twin Plus* or angled cutters enables the capture of larger and bulkier pieces.



Double Masher option



Integrated Metal Detection

This new patented concept was designed to avoid serious damage should metal parts fall into the cutting chamber.

The *Titan Plus* granulator rotor stops within 40 milliseconds when the system detects a metal part (by contact between 2 areas in the cutting chamber). The LCD display on the electrical cabinet displays a troubleshooting message that metal has been detected.

The *significant advantages* for the user are : **increased productivity** (production is only stopped to remove the metal object), **significant savings** in repair cost.

This optional feature is always combined with the ABS system.



Titan Plus combs



Specifications



GRANULATORS		TITAN Plus	TITAN TWIN Plus 8	TITAN TWIN Plus 10
TRANSMISSION		Flexible coupling		
Motor power	kW	4 (option 5.5 kW)	2 x 4 (option 2 x 5.5 kW)	
Speed	r.p.m.	25		
Cutting chamber	mm	746 x 400	618 x 840	746 x 840
Number of cutters		5	8	10
Cutter diameter	mm	320		
Number of rollers with teeth		6	10	12
OVERALL DIMENSIONS				
Standard/Option 5.5 kW	length	1840 / 2055		-
	width	620		-
	height	1778		-
WITH MASHER SYSTEM				
with Masher/Option 5.5 kW	length	2019 / 2235	1888 / 2107	2019 / 2235
	width	620		1080
	height	2090	2171	2171
WEIGHT				
Standard / with Masher		900/1100	- / 1880	- / 2080

TITAN Plus applications

With beside press operation, TITAN Plus granulators are particularly adapted for recycling sprues and bulky plastic pieces from the automotive, appliance and computer industries.

In these sectors, many new materials developed by manufacturers (glass or mineral filled) are now used. We obtain very good results by grinding these new engineering materials with the TITAN Plus range.

TITAN Plus granulators can be fed manually, by conveyor belt or by sprue picker. MODITEC granulators are extremely robust and easy to maintain. Combs and cutters are reversible to reduce maintenance cost.

TITAN Plus granulators have all the advantages of slow speed:

- very little dust
- no longs
- low heat generation
- no molecular structure damage to the granulate
- low wear
- low noise level
- energy saving (2x4 kW) due to the use of a speed reducer and a superior cutting method
- easy to clean



Angled cutters option



Cutting chamber with plastic rejects

04/2016 - Subject to alteration



Sarl Montage Diffusion Technique
2 chemin du Génie – Bât. 23, allée André Chapelon
69200 VENISSIEUX – France
Tél. : 33 (0) 4 72 90 00 00
Fax : 33 (0) 4 72 90 00 09
Email : mo-di-tec@mo-di-tec.fr
Sarl au capital de 50 000€ - 523 806 404 RCS LYON
N° TVA : FR18 523 806 404 APE : 4676Z