

ITG 2 / G + PD

**Continuous feed grinding and
deburring machine for fine
blanked parts with conveyor
belt
without work-piece rotation**



- Compact design with 2 stations possible to place coolant filtration unit under the machine, can be direct connected to fine blanking press
- Only deburring, only grinding or grinding and deburring with the identical machine.
Spindle power up to 22 kW

Introduction

- All Imatec machines are built in modular design. Therefore many specific designs can be arranged.
- The ITG 2/G + PD is specially adapted for only deburring, only grinding or both, grinding and deburring. This makes it a universal applicable machine for the fine blanking industry.
- 1. station can be used for grinding one side of the part by using a cup grinding wheel which is self-dressing or, for optimal deburring one side of the part by using an elastic cup wheel which is self-sharpening over the total usable height.
- The control of the machine is from Beckhoff, Siemens or Mitsubishi



Photo: Closed view of typical machine

Advantages

- Powerful deburring because force supported by side guide-rails.
- Constant quality due to elastic self-dressing deburring wheel with automatique wheel wear compensation.
- Minimum floor-space requirement because only 2 stations and direct connection with fine blanking press.
- Coolant filtration with chiller and oil shimmer to separate punch oil from coolant.



Photo: Complete production line

Technical main data's

Conveyor belt with:		
Conveyor belt width		150, 175, 200 mm
Conveyor belt length		4'600 or 5'100 mm
Conveyor belt above floor		1'050 or 1'350 mm
Conveyor belt feed	adjustable	500mm to 12'000 mm/min.
1st station with:		
Spindle drive motor water-cooled		11, 18.5 or 22 kW
Spindle speed	adjustable	up to 4'000 RPM
Vertical in-feed by step motor		200 mm
Wheel diameter OD		350 or 400 mm
Wheel diameter ID		200 or 250 mm
Wheel height usable		75 mm
Wheel compensation		by air / by probe
2nd station with :		
Planetary brush head	4 brushes	∅ 115 mm
Head speed	adjustable	up to 500 RPM
Brush speed		3 x faster than head
Sense of rotation		inversed after each stop
Drive motor water-cooled		4 or 7.5 kW
Machine dimensions (without fixture circulation)		
Length of machine		2'400 – 2'700 mm
Width of machine		1'800 mm
Height of machine		2'450 – 2'700 mm
Weight		3'800 kg

Please request detail information's and quotation for your specific application.

IMATEC manufacturing program

Besides the present machine, IMATEC is manufacturing the following other types:

Models IRG	Through feed grinding machine with rotary table
Models IEG	Continuous flow surface grinding machines with only 1 main station
Models ITC	Continuous flow cutting machine for ferrite
Models PWS 20	Through feed deburring machines with conveyor belt
Models PWS 200	Tool grinding machines, semi or fully automatic
Models PWS 240	High production air gap grinder
Models PWS 250	Customer-specific CNC grinder with index or rotary table
Models PWS 02/05	Tool grinder for punch tools, manually operated
Models PWS 280	CNC hob sharpening machines

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