

PLATIT BY BLÖSCH

A top reference in hard coating domain. TORNOS-BECHLER and other big businesses in Switzerland and foreign countries are convinced about.

The machine tool industry has experienced fundamental changes within the last 20 years. The modern technologies did permit to considerably improve the performance and productivity of the machines in this sector. TORNOS-BECHLER manufactures, in the product assortment of DECO 2000 and Multispindles, parts getting more and more complicated and having more and more difficult tolerances and surfaces.

Also the tool manufacturers had to adapt to the demand because of these technical advances. The indexable inserts, form tools, stepped drills and further tools used by these machines have to be manufactured with specified material with a suitable geometry and high precision.

HIGH TECHNOLOGY SWISS MADE

The PLATIT process is the result of 10 years research and development at Blösch AG in Grenchen, SO.

This exceedingly successful technology, 100 % SWISS MADE is represented by hard coatings, obtained through PLATIT hard coating equipment. The PVD arc process by PLATIT is unique in the domain of functional hard coatings.

The aim of PLATIT coatings: improve the productivity

You in sense of user can enable your tools having a 10 to 100 times longer live time or efficiency with one of these coatings.

The PLATIT system disposes a high quality standard in hard coating domain, because it is guaranteed by an incomparable ionization arc process.

This process runs with a permanent control of the arc confinement (Modular Arc Confinement). This electronic arc control guarantees a constant coating characteristic and meets in particular with one of today's most important factors: the reproductivity.

Advantages of PLATIT coating on your tools:

- ◆ Improvement of cutting conditions
- ◆ Better wear resistance
- ◆ Prolongation of live time
- ◆ High resistance to heat
- ◆ High application safety
- ◆ Improvement of quality

The manufacturing in branch of industries as: machine tool, mechanic, automobile, medicine, aviation, space industry or watches is

more and more confronted with Machining complex materials. In this matter the hard coatings and other coatings form unavoidable an alliance to fulfil the daily actual and decisive criterions of productivity and quality.

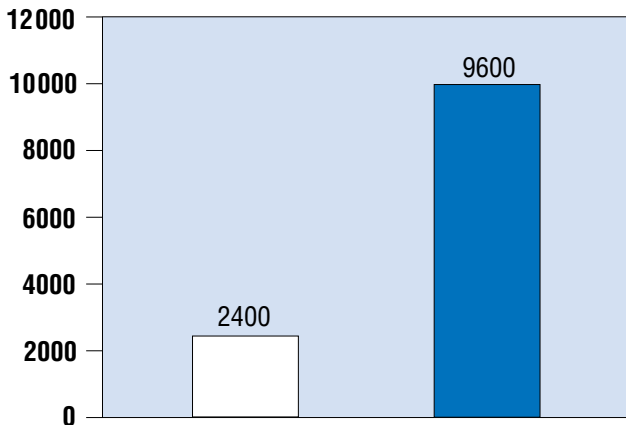
TORNOS-BECHLER SA, is again thanks its quality of machines and products in the top of the machine tool industry sector. Blösch AG is proud contributing to this success, being partner in sense of coating the tools for the different machines delivered and installed world wide by TORNOS-BECHLER.

The diverse coatings recommended by the hard coating center Blösch AG are:

- Beta PLATIT	- TiN
- Alpha-PLATIT	- TiCN
- Gamma-PLATIT	- Ti2N
- Alpha-MP-PLATIT	- TiCN (Gradient)
- Delta-PLATIT	- CrN
- UniversAl-PLATIT	- TiAlN
- MOVIC	- MoS2 (solid lubricant based coating)

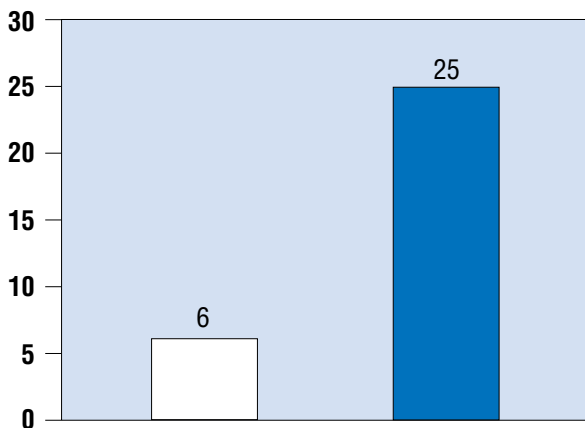
For further information:

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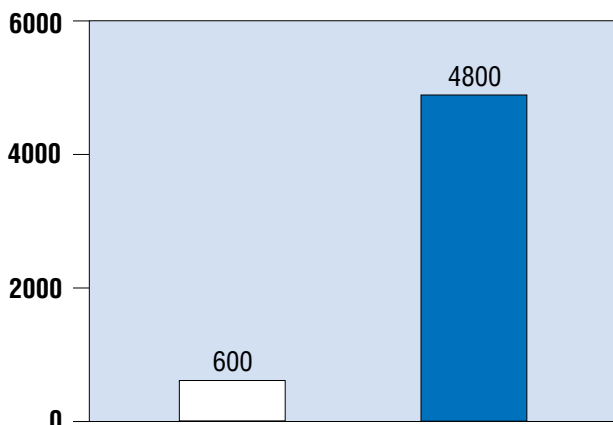
Sample: Beta-PLATIT (TiN) coating

Tool : Carbide stepped helical drill MD diameter 2.80 mm
 Material : Steel inox 305 / X 12 Cr Ni S 18.8. diameter 10 mm
 Cutting speed : 60 m/min.
 Feed : 0.035 mm / rev.
 Depth of cut : 7 mm
 Operation : Drilling and chamber with lubrication
 Machine : SAS 16.6
 Result : Uncoated tool 2400 pcs
 : Beta-PLATIT coated tool 9600 pcs



Sample: Gamma-PLATIT (Ti2N) coating

Tool : Carbide cut-off insert MD
 Material : Steel 70 S20 Pb (1.0759) Steel trempable diameter 4 mm
 Cutting speed : 100 m/min.
 Feed : 0.03 mm / rev.
 Operation : Lubricated cut-off
 Machine : DECO capacity 10 mm
 Result : Uncoated tool 6 h
 : Gamma-PLATIT coated tool 25 h



Sample: Alpha-PLATIT (TiCN) coating

Tool : Carbide stepped tube bit drill diameter 14 mm
 Material : Steel inox 1.4435, AISI 430 F
 Cutting speed : 70 m/min.
 Feed : 0.126 mm / rev.
 Cutting length : 17 mm
 Cut depth : 0.10 mm
 Operation : Reaming
 Machine : MULTIDECO 26/6
 Result : Uncoated tool 600 pcs
 : Alpha-PLATIT coated tool 4800 pcs

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