SOLUTION

AMADA DIGITAL INNOVATION
V-factory

ID-TOGU

Auto-grinding machine for ID tool

ID TOOL ONE TOUCH GRINDING UNIT

Grinding

あける 研削 曲げる

切る 旋削 付ける

The Engineering AMADA

AMADA

Skill-less and optimal tool-grinding has been achieved by digital control

Although tooling maintenance is so important and indispensable element to keep/raise the product quality in sheet metal products, the reality is left to operator's knack or experience to judge the timing and degree for the maintenance. The maintenance difference directly leads to "dispersion of product quality". Every one can achieve the optimal grinding because "ID-TOGU" gets the grinding value automatically from AITS server. The tooling condition is controlled digitally and the stable quality-control is realized in sheet metal fabrication because the punch height measured by Auto-measuring function is transferred to AITS server.
This is the digital tooling maintenance. No more operator's knack and experience are required!

ID-TOGU

Machine with ID tooling system

AITS server

ID tooling

Auto-grinding machine for ID tool

ID-TOGU

ID-TOGU　New technology

1 Simple operation and precise grinding

High quality grinding by digital control

Just reading ID information automates the grind-value setting through AITS server. The grinding starts just by depressing the start-button after setting the tool on the unit. Also manual-data setting of grind value for non-ID tool can be made as same as existing TOGUⅢ. *AITS server is required separately.

❶Obtain tooling information from bar-code

❷Auto-data transfer from AITS server

❸Depress start-button after lowering the wheel near the tooling

2 Sharing tool information without skill after regrinding

Realizing stable punching by tool information sharing through network

Measure ground tool by using measuring function. And transferring the value to AITS server enables digitally to control the tooling condition and to perform the optimal-punching operation(*AITS server is required separately). Measuring device can function in wider range by same scale unit without any jigs from higher range like punch body to lower range like die.

❶Switching to measuring display after ground

❷Setting the tool on the measuring unit

❸Depress transfer button after measuring

3 Advanced new functions from TOGUⅢ

Shortening maintenance time

❶ **Punch height measuring function**
Punch assembly height can be adjusted while checking the measured value on display.

❷ **Safety door**
Rapid door-drop can be avoided without hand-support.

❸ **Air-blowing function after ground**
Blowing air against remaining coolant on the surface of ground tool.

❹ **High speed mode function**
High speed mode has been added for manual wheel-up/down.

❺ **Maintenance navigation function**
Display of maintenance condition by navigation function.

❶

❷

❸

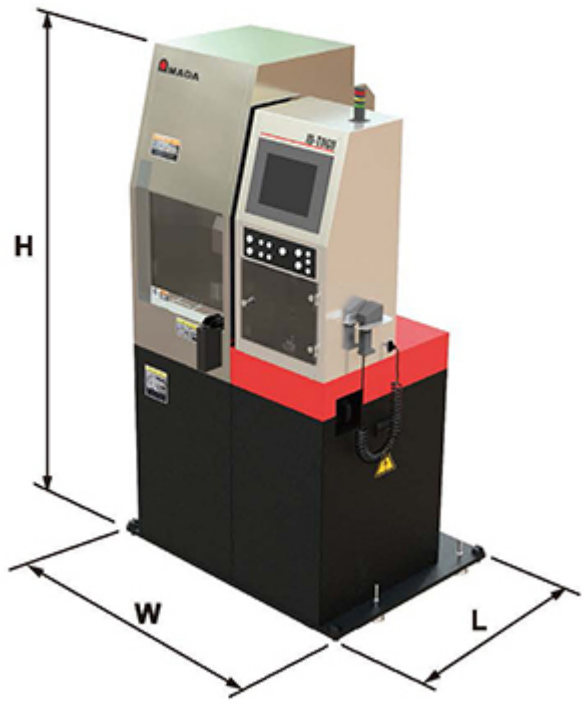
❹

❺

■Dimensions

Unit : mm

▌ID-TOGU
(W : 1070 x L : 850 x H : 1930)



■Machine specifications

Model			ID-TOGU
Mass of machine		kg	700
Power supply			three(3)-phase, 200V at 50/60 Hz
Power requirements		kVA	2.5
Air consumption		L/min	600 (max. 200 L /1 cycle *1)
Standard grinding wheel		mm	CBN ϕ135(conductive)
Max. tool diameter		mm	ϕ160(E-4½"die)
Min. tool diameter		mm	ϕ1.51(guaranteed)
Max. tool height		mm	150(E-4½"shear-angle jig is used)
Min. tool height			chuck jaw height
Spindle motor		kW	1.5 × 2 P
Spindle rotating speed		min^{-1}	2810/3000 (50/60 Hz)
Vertical travel distance		mm	240
Vertical feed motor		W	40 AC servo motor with 1/10 gear head
Grinding speed	A(½"), B(1¼") and C(2")	mm/min	0.06
	D(3½") and E(4½")	mm/min	0.03
Table motor		kW	0.1× 4 P 1/30 geared motor
Table rotating speed		min^{-1}	60/72(50/60 Hz)
Coolant pump motor		kW	0.06 × 2 P
Coolant pump capacity		L/min	20/25(50/60 Hz)
Min. readable dimension		mm	0.02
Tool height measureing range		mm	28~209

*1 1cycle : required air consumption to position the grind wheel from tool upper surface to 10mm above.
* This specification, profile and unit will be changed to improve without ant notice.

For Your Safe Use
Be sure to read the manual carefully before use.

●When using this product, appropriate personal protection equipment must be used.

●Please use Amada genuine tool for Amada made NCT turret punch press.
Use of other tool than Amada made may lead to tool and machine trouble.

*The specifications described in this catalog are for the Japanese domestic market.

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Inquiry

AMADA head office is certified and registered of ISO14001.

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