

Press brake for extremely high-mix,
small-batch production

HG 1003 ATC



Automation of tool setup and angle accuracy adjustment by batch tool layout for multiple part types

Hybrid press brake with the next-generation ATC

The automatic tool changer (ATC) is added to the digital hybrid press brake HG-1003 with a new mechanism. Tool changes are automated to accommodate high-mix small-batch assembly production.

Press brake for extremely high-mix, small-batch production **HG-1003ATC debut !**



*This photograph contains the optional devices.

4 Four new technology of HG-1003ATC

New technology 1

Process intelligence

AMNC 3i

An 18.5-inch wide multitouch LCD panel is adopted to provide "easy to use and see" screen. The screen is designed for intuitive operation like a smartphone screen and allows for fast entry. The user-oriented design of the new NC unit AMNC3i ensures ease of operation.

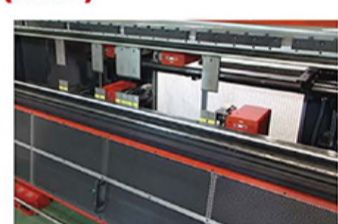


New technology 2

Non-skilled setup

Automatic tool changer (ATC)

Automatic tool changer allows non-skilled setup. The ATC tool storage is capable of holding many different tool types to cover a wide range of bending requirements.
 15 punch racks
 18 die racks
 800mm/rack



New technology 3

High speed & high accuracy bending from thin to thick material

I New hybrid drive system / Hydraulic crowning system

High speed, high precision bending is achieved via servo motor controlled hydraulic pumps, resulting in lower power consumption. The hydraulic crowning system produces bending tolerance of +/-15' at any point along the beam.



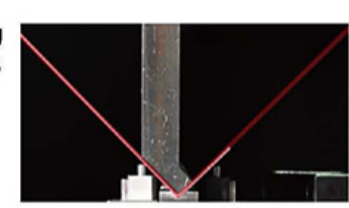
II New backgauge system

The left and right backgauge stoppers independently move back and forward, left and right at high speed. (L-shift)



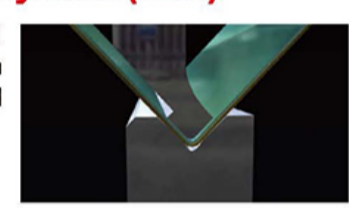
III Angle measurement device

Bi-S and Bi-L measure the bending angle and make corrections as required.



IV Thickness detection system (TDS)

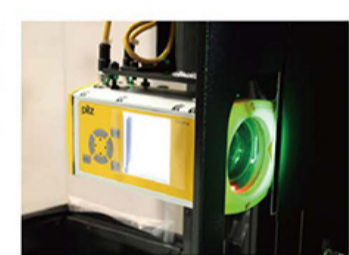
TDS reads variance of material thickness and compensates depth position automatically for stable and correct bending.



New technology 4

New laser type safety device

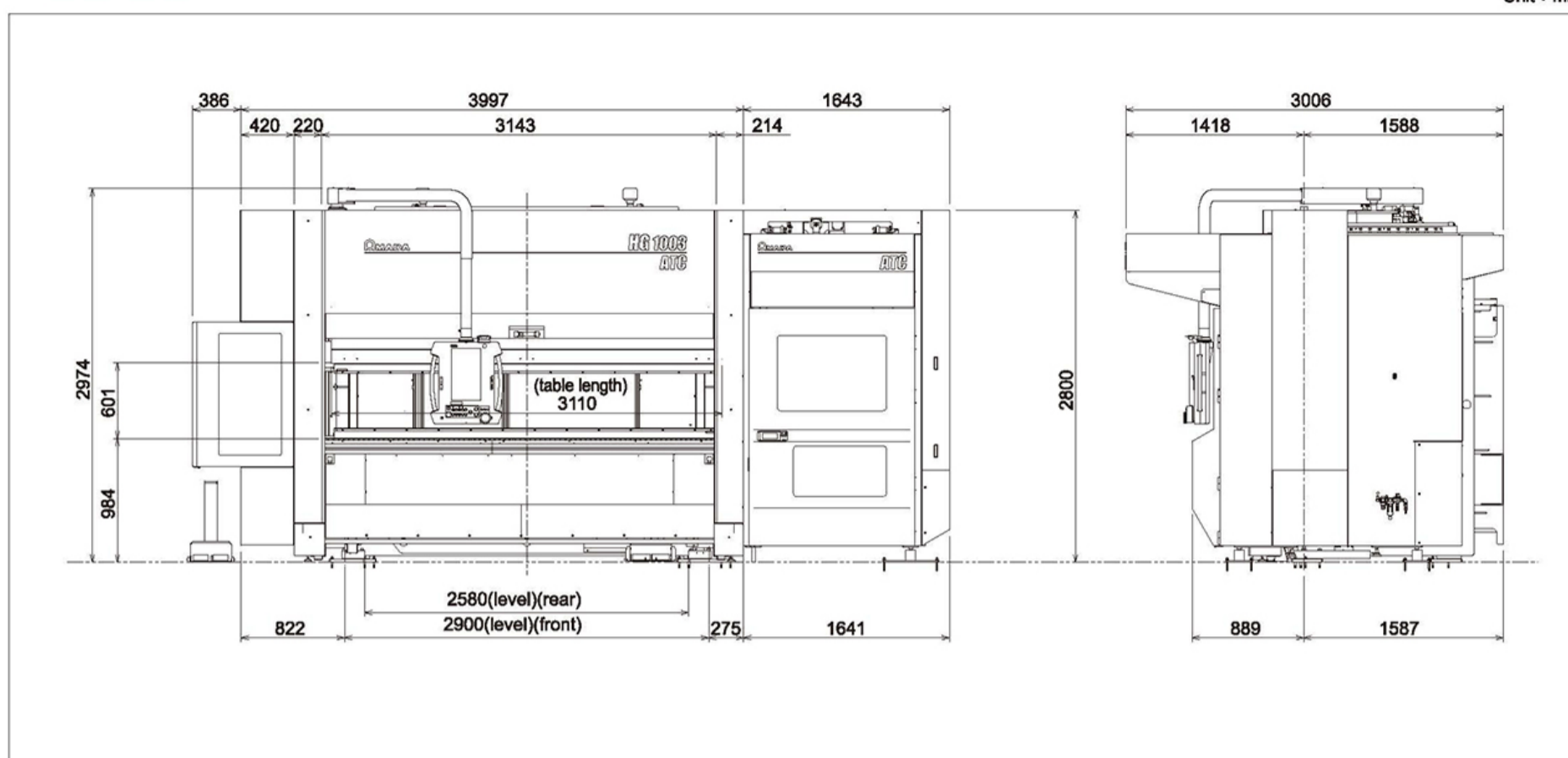
A new laser type safety device ensures operator safety while maintaining high productivity.



HG 1003 ATC

■Dimensions

Unit : mm



■Machine specifications

Model		HG-1003
Capacity	kN	1000
Bending length	mm	3110
Stroke length	mm	620
Rapid closing speed	mm/s	220
Bending speed	mm/s	20
Opening speed	mm/s	250
Motor	kW	4.4×2(D), 2.9(CC)
Tank capacity	L	59.5

■ATC specifications

Tool type		AMTSⅢ (ATC)
Number of tool stockers(dies)		18 dies
Number of tool stockers(punch)		15 punch
Tool layout length	mm	15 ~ 2495
Tool length increments	mm	5



For Your Safe Use

Be sure to read the manual carefully before use.

●Use of this product requires hazard prevention measures to suit your work.

- * Specifications, appearance, and equipment are subject to change without notice by reason of improvement.
- * The official model name of machine described in this catalog is HG1003ATC.
Use the registered model name when you contact the authorities for applying for installation, exporting, or financing.
The hyphenated spelling HG-1003ATC is used in some portions of this catalog for ease of readability.
- * Hazard prevention measures are removed in the photos used in this catalog.
- * The specifications described in this catalog are for the Japanese domestic market.

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F007-HQ02en

May. 2016