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NEWS RELEASE



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AMADA Introduces Large Hybrid Bending Machine on Full Scale Basis -Responding to Increased Demand for Processing of Medium to Thick Plates-

AMADA (President and CEO, Mitsuo Okamoto) has introduced a large bending machine with pressurizing capacity of 3500 kN to 6000 kN that processes thick and long plates with accuracy driven by customer demand. As demand for trucks, railroad vehicles, construction machinery and energy plants is increasing in Asia and other regions around the world, AMADA is aiming to fill the above demand in the medium to thick plate processing market. This newly introduced product employs the hybrid drive of the servo valve and hydraulic drive, and is equipped with the functionality that is compatible with the network standard. These features reduce the setup time for processing and improves workability, both of which help realize high-quality product processing. The sales goal for this large bending machine is 20 units a year in both domestic and global markets.

This machine is priced at between 46.2 and 94.8 million yen for the 3500 kN to 6000 kN class. (Prices of the machine manufactured to standard specifications excluding optional equipment).

Demand for processing of medium to thick plates is rising worldwide, particularly in emerging countries where infrastructure maintenance requirements are increasing. At the same time, with the growth in size of products and appearance of difficult-to-process materials such as high tension materials, demands for large bending machines is increasing. AMADA has so far delivered more than 400 large machine units with 3500 kN or greater pressurizing capacity to customers. However, since they were custom-built machines, it was difficult to standardize the parts and promote planned purchasing of them, leaving us with cost management problems that must be solved. AMADA succeeded in introducing its large machines as a series when it acquired TOYOKOKI Mfg., Ltd. (now AMADA TOYO CO.,

LTD.) in 2009 that had unique know-how in manufacturing large machines and was highly evaluated in the industry.

The addition of the large bending machines to AMADA's series enhanced the CAD/CAM environment of the integrated system that covers processes from blank welding to bending for large machines in the same way as that for medium- to small-sized machines. This arrangement also allows programs to be created and managed through the offline setup. Also, employment of the angle sensor (optional) that is able to be specified in the range of 60 to 150 degrees ensures high-quality bending work even when less skilled operators are in control of the process. Installation of the follow-up system (optional) relieves operators from the exhausting work of processing large workpieces.

The HD series comprises machines that employ hybrid drives of the servo valve and hydraulic drive. Large machines in the series support the large-sized deep bending process with an open height of 620 mm and stroke size of 350 mm to expand the processing area of thick plates. Their load-bearing capacity is 1,300 kN/m, 1.3 times the value able to be achieved with existing machines. Also, the anti-drop keyway die grip (one-touch strong clamp) is installed as standard equipment to enable use of strong dies.

Major specifications

	Pressurizing capacity (kN)	Bending length (mm)	Stroke (mm)
HD-5020NT	500	2,090	200
HD-8025NT	800	2,570	200
HD-1303NT	1,300	3,110	200
HD-1303LNT	1,300	3,110	350
HD-1703LNT	1,700	3,110	350

(Added large series machines)

	Pressurizing capacity (kN)	Bending length (mm)	Stroke (mm)
HD-3503NT	3,500	3,100	350
HD-3504NT	3,500	4,100	350
HD-5005NT	5,000	5,100	350
HD-5006NT	5,000	6,100	350
HD-6006NT	6,000	6,100	350
HD-6007NT	6,000	7,100	350