

September 13, 2018  
AMADA HOLDINGS CO., LTD.

## Launching the CM II-DG Series of Carbide-tipped Circular Saw Machines

Delivering high-speed and high-precision cutting with a movable saw blade guide featuring a new mechanism and proposing a wide range of automated solutions



AMADA MACHINE TOOLS CO., LTD. (Isehara/Japan, President: Masahiko TADOKORO) will launch CM II-75DG / CM II-100DG carbide-tipped circular saw machines for small-diameter steel materials used in the automotive parts, steel cutting and, forging industries, on November 1.

The CM II-DG Series features the new Dyna Guide mechanism, which is a movable saw blade guide, enabling stable high-speed and high-precision cutting. Adopting this mechanism, we succeeded in reducing circular saw blade vibration, which occurs when the blade makes initial contact with the surface of a workpiece and has the most effect on cutting precision, to one-fifth\* compared to conventional machines. We also have a wide lineup of peripheral equipment (optional) available for loading and unloading workpieces, and deliver solutions that meet the needs of customers automating production processes in factories, thereby contributing to labor savings for customers.

\* Under conditions set by the company

Recently, customers' needs for automation have been growing rapidly, due to the effects of workstyle reforms, a serious labor shortage in Japan, and rising labor costs overseas. In addition, capital investment has been strong and customers are requesting new products with higher productivity, which is boosting demand to replace aging equipment. As a result, AMADA MACHINE TOOLS aims to triple the sales quantity of the CM II-DG Series by fiscal

year 2021 from fiscal year 2017 by packaging a carbide-tipped circular saw machine with a wide variety of peripheral equipment.

The AMADA Group, in its medium-term management plan, has the target of increasing sales of the cutting business of AMADA MACHINE TOOLS to JPY 50 billion by fiscal year 2021. The company is positioning carbide-tipped circular saw machines as a flagship product next to band saw machines in the cutting business, and is aggressively promoting sales activities for products both in Japan and overseas.

## Main features of the CM II-DG Series

### New Dyna Guide movable saw blade guide

With conventional machines, the upper and lower blade guides, which support a circular saw blade, are fixed according to the maximum workpiece size. The guides are positioned far from the start point of a cut, resulting in the problem of the circular saw blade not being adequately supported when making initial contact with the surface of a workpiece, which has the most effect on cutting precision. With the CM II-DG series of circular saw machines, the Dyna Guide movable saw blade guide is set closest to the start point of a cut, leading to significantly improved support and rigidity of a circular saw blade when it makes initial contact with the surface of a workpiece, resulting in stable, high-quality cutting.

## Specifications

Model name			CM II-75DG	CM II-100DG
Cutting capacity	Round material	mm	∅10 – ∅76.3	∅20 – ∅101.6
	Rectangular material	mm	□10 - □65	□20 - □80
Carbide-tipped blade	Blade size (OD x ID x T)	mm	∅285 x ∅40 x 2.0	∅360 x ∅40 x 2.6
	Number of teeth		60, 80	60, 80, 100
Motors	Blade	kW	7.5	11
	Hydraulic pump	kW	1.5	2.2
Feed drive			AC servo motor and ball screw	
Feed guide			Linear guide	
Cutting condition setting			CNC automatic setting	
Path line		mm	900	900
Power requirement		kVA	24	30
Air source		MPa	0.5	0.5
Allowable load mass of workpiece		kg	2,160	2,300
Dimensions of machine* (W x L x H)		mm	2,160 x 7,300 x 1,630	2,160 x 7,300 x 1,750
Mass of machine		kg	2,000	2,400

Note: The information herein is subject to change without notice. \* Including automatic loader (optional)

## **About AMADA Group**

Founded in Japan in 1946, The AMADA HOLDINGS (TSE: 6113) is a global comprehensive manufacturer of metalworking machines. The Group's main businesses include the development, manufacture, sales, leasing, repair, maintenance, checking, and inspection of metalworking machinery and equipment. The group has over 8,000 employees and about 130 bases in 30 countries and approximately 90 companies including its subsidiaries and affiliates. Our results for fiscal year 2017 were net sales of JPY 300.6 billion and net profit of JPY 29.8 billion.

The Group's core operations in metalworking machinery center mainly on three businesses focusing on sheet-metal machinery (AMADA), metal cutting and stamping press machinery, structural steel cutting machines and machine tools (AMADA MACHINE TOOLS), and precision welding (AMADA MIYACHI). In addition to its main businesses, the Group also provides total solution services ranging from computer software and peripheral devices for controlling metalworking machines to tooling and maintenance.