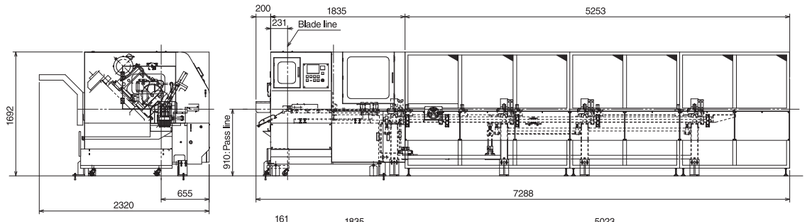
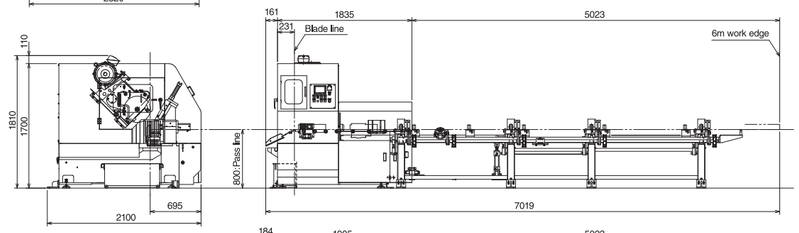
■Dimensions

Unit : mm

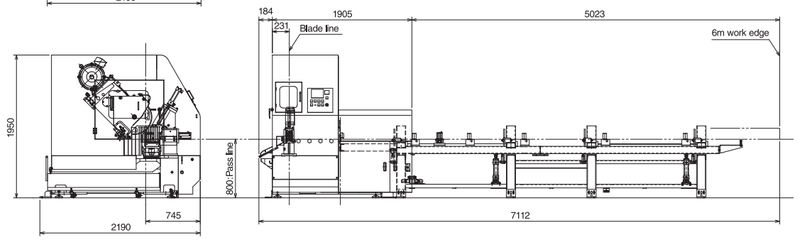
CMB-75



CMB-100



CMB-150



■Specifications

Model				CMB-75	CMB-100	CMB-150
Workpiece	Blank size (Automatic cutting range)	Round workpiece	mm	10-76.3	φ25～φ100	φ75～φ150
		Angular workpiece	mm	10-60	□25～□75	□75～□100
	Length of cut material		mm	10～6000	10～6000	20～6000
Cutter saw	Cutter type			Throw-away carbide tipped		
	Cutter size		mm	OD 285 x ID 40 x 2.0	OD 360 x ID 40 x 2.6	OD 460 x ID 50 x 2.7
	Number of teeth		teeth	60 or 80	60, 80 or 100	40 or 60
Cutter	Cutting conditions	Circumferential velocity	m/mm	50 - 200	60 - 200	70～170
		Running speed	min^{-1}(rpm)	56～225(Inverter-controlled invariable speed change)	56～210(Inverter-controlled invariable speed change)	50～115(Inverter-controlled invariable speed change)
		Feed	mm/sec	0～30(Automatic setup with AC servomotor)		
	Cutter saw drive motor capacity			7.5 kW × 4P	11 kW × 4P	15 kW × 4P
	Drive system			AC servomotor + ball screw 45-degree oblique slide cutting		
	Clamp system			Horizontal vise(Clamping force can be reduced)		
				Vertical vise(Clamping force can be reduced)		
	Hydraulic pressure system motor capacity		kW	1.5		
Sizing device	Drive system			AC servomotor + ball screw		
	Effective stroke		mm	715	715	755
	Transfer positioning speed		m/min	24	24	18
Others	Main body dimensions (depth × length × height)		mm	1700 × 2023 × 1580	1940 × 1995 × 1700	2030 × 2089 × 1950
	Main body weight		kg	2500	2800	3300
	Loader weight (6m)		kg	900	900	1000
Optional equipment	Automatic loader			76.3 mm x 10 pcs. x 6.0 m	φ100 mm × 10 pcs. × 6.0 m	φ150 mm × 6 pcs. × 6.0 m
	Simple cutting			Manual simple cutting function		
	Chip conveyor			Scraper type		

- Details in the catalog are current at November 2010 and may be subject to change without notice.
- The products in the catalog may be subject to the provisions of foreign exchange and the Foreign Trade Law. When exporting cargo subject to such controls, permission pursuant to regulation is required. Please contact our business representative in advance when exporting products overseas.
- When using our products, safety equipment is required depending on the operational task.
- For safe and correct operation, ensure thorough reference to the Instruction Manual prior to operation.
- Please use the machine model name without a hyphen such as CMB75, when applying for administration applications. Examples: installation report, export, and financing, etc. To make this catalog more legible, we have inserted a hyphen in the machine model name such as CMB-75. This includes all other machine model names.

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Nov.2010

Circular Sawing Machines

CMB-Circular sawing machine series for bar material

CMB-75/100/150 | Circular saws capable of using both carbide-tipped and high-speed-steel blades

The optimal technology for realizing reductions in cycle time and high precision cutting for bar steel cutting

Features

High-speed, high-precision cutting
Parts are cut using an oblique-slide cutting mechanism. This ensures high precision positioning to +/- 0.01mm and an optimal rake angle for cutting bar steel. This design improves stability, resulting in higher precision and enhanced cutting rates

AMADA MACHINE TOOLS' unique carbide-tipped tool
The saw blade is a very important factor in realizing high-speed, high-precision cutting. Amada has developed a unique carbide-tipped circular saw that cuts cleanly and virtually burr free.

Capable of cutting a variety of metal materials
This machine can cut a wide variety of materials including round bar, flat bar, pipe and tube in a range of materials like mild steel, stainless steels, tools steels and nonferrous materials.

Spray-mist lubricant reduces cutting fluid cleanup
This machine incorporates a semi-dry cut system that generates eco-friendly oil mist, thus work pieces get less wet while cutting; resulting in simplified downstream processes.

No clean-up process needed for the cut-face
This machine makes highly precise cuts, the resulting cut-face being very clean. By eliminating the surfacing work, like when materials are band saw cut, total processing time is greatly reduced.

Longer circular saw blade life
Using an oblique-slide (from the upper oblique direction) cutting mechanism and cermet carbide pads, which dampen most vibrations that result from cutting, lessens the wear of the saw blade. Resulting in much greater service life of the circular blades and noticeably reducing the costs/cut.

Highly rigid and stable
Its highly rigid machine frame reliably supports high-speed operation of the circular saw. The cutting and material feed sections of the machine incorporate a drive system comprising an AC servomotor and ball screw to ensure stability for high-precision cutting.

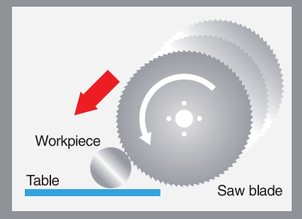
High-precision auto sizing device
This auto sizing device incorporates a gripper that feeds and positions the workpiece in the correct machining position. Using a photoelectric switch, the gripper detects the leading edge of the workpiece, grips the workpiece from the right and left sides, and then feeds it with high precision.

Simple input and easy operation
The input sections includes an easy-to-read liquid crystal touch screen. The screen is very easy to see and is intelligently arranged, allowing the operator to quickly generate cutting data, set up auto-operation programs or run a simple manual cutting operation.

Powder clutch system
This unique clutch system absorbs backlash on the drive gear, precisely controlling the position of the blade while approaching the cut. This ensures a clean, smooth cut face and longer blade life.

High-speed gripper
To help reduce total machining time, we adopted a high-speed gripper and high-speed vises in the cutting section. The high-speed gripper is equipped with a retraction function in order to avoid scratching of workpieces.

Delivery chute
The trim cut pieces are automatically directed to a scrap bin. When production cutting begins the delivery chute automatically shifts position to deposit production parts to their own bin.



45-deg. Oblique slide system (down-cut)
With a shorter cutting distance, cut times are reduced.

AUXILIARY EQUIPMENT

Automatic loader
Once work pieces are placed on the incline table unattended continuous cutting operation at the maximum cutting speed can be achieved. The loading table can handle a total of between 6 -10 pieces of material depending on the diameter of the material.