

Carbide band saw machines CTB 400 / CTB 7040



CTB 400 / CTB 7040

Vertical band saws with carbide concept

With the CTB 400 and CTB 7040 models, Amada offers vertical band saws, which set new standards thanks to their advantageous carbide concept with respect to both with the cutting performance and the cutting quality.



CTB 7040 carbide panel saws

CTB 400

the CTB 400 is the industry standard in the field of compact carbide saw machines. Small machine dimensions in conjunction with a strong drive make the CTB 400 the ideal basis for our automation solutions.

CTB 7040

The CTB 7040 is an extremely high-performance panel saw also especially for tool steel with a working range of 430 mm (height) x 700 mm (width). Therefore, the machine is the ideal precursor to precision panel manufacturing with AMADA duplex milling machines of the THV series.

SAWING TECHNOLOGY

When compared to conventional band saws, the CTB 400 / CTB 7040 is so fast that it only requires a third of the time compared to conventional machining.

The CTB 400 / CTB 7040 also work with very low vibration; this reduces the noise level, increases the cutting quality and guides to an increased band saw blade life time. The construction was greatly improved for this performance:

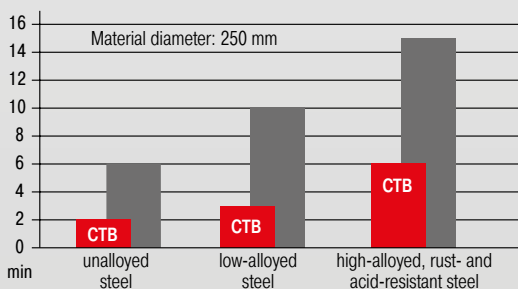
- The material table and saw frame are separated.
- The machines are equipped with a special saw guide close to the material.
- All feed rates are with high precision, ensured by linear guides.

However, the CTB 400 / CTB 7040 models also offer a variety of technical highlights in other areas.

- The frequency-controlled direct drive supplies high power, but the 7.5 kW saves considerable amount of power.
- The machines are equipped with two hydraulic clamping vices with automatic zero positioning.
- The sawing process is controlled via the CNC control with integrated material database.

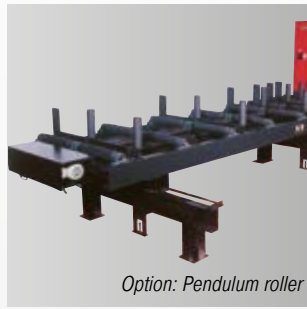
Automatic high performance thanks to optimum technology.

With the CTB 400 / CTB 7040, everything is perfectly matched – this results in impressive cutting performance. For example, thanks to the stored information, the controller automatically ensures optimum feed pressure and cutting speed. Also, because perfect tuning of the machine and tools increases the performance, Amada has developed a particularly powerful carbide saw blade especially for the CTB 400 / CTB 7040.



CTB 400/CTB 7040 compared to conventional band saws

ADVANTAGES



Practical in all details with perfect results

The CTB 400 / CTB 7040 cuts perfectly automatically:

- This is also ensured by permanent monitoring of the cutting parallelism.
- The automatic blade guide adjustment also contributes to the safe sawing process; the position of one of the guide arms is fixed underneath the workpiece support, the other arm moves automatically according to the workpiece dimension.
- The special blade guide with its large rollers makes sure that vibration is kept as low as possible.
- The band saw cleaner is released conveniently; the motor-driven chip brush is adjusted automatically.

The intelligent controller makes cutting convenient

The sawing process for the CTB 400 / CTB 7040 is computer-controlled with automatic parameter adjustment from the database. Input of only three factors – material, shape and dimension – is sufficient for optimum sawing. In addition, the operator receives comprehensive information on everything. The CNC controller:

- calculates the cutting time,
- displays the material requirements,
- displays the current band saw blade lifetime,
- provides information on the performance status of the machine.

Those are only a few examples that show how convenient cutting is with the CTB 400 / CTB 7040.

ECOLOGY

The frequency-controlled direct drive in conjunction with the low deflection of band saw blade ensures extremely high degree of efficiency. This allows effective saving of electrical power. Due to the AMADA quality and service policy, you can expect a very long

lifetime – spare parts are normally available for a very long period. This also saves valuable resources.



AXCELA SAW BLADES

High-performance saw blades for the CTB 400 and CTB 7040.

Amada has developed the AXCELA high-performance saw blades perfectly matched to the CTB 400 / CTB 7040. The carbide-tipped saw blades have demonstrated in many test series and in practice that high performance can be calculated by the optimum coordination of tools and machine. The special geometry of the AXCELA saw blades is designed for maximum cutting capacity. Optimum force and chip rate is ensured thanks to the formation and arrangement of the teeth without offset.

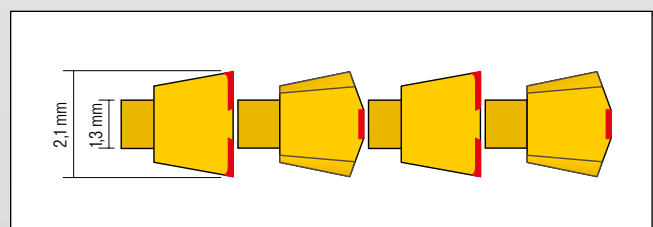
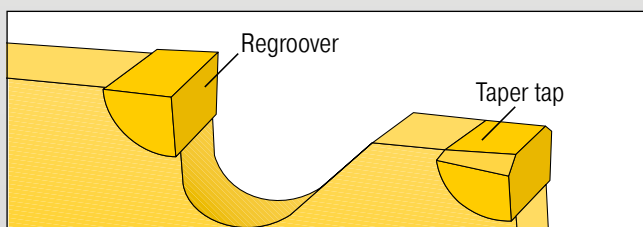
The AXCELA saw blades are distinguished by smooth running and long lifetime.

Type	Range of use
AXCELA S	Standard applications
AXCELA B	Non-ferrous metals
AXCELA G*	Rust- and acid-resistant steels, tool steels
AXCELA H	High heat-resistant alloys, nickel-based alloys, titanium

*coated



Quality "Made in Austria"



CTB 400

Cutting capacity	min.	30 mm
	Round/square	max. 430 mm
Cutting length	min.	5 mm
	max.	9,999 mm
Off-cut length	min.	15 mm
Bundle	min.	104 mm
Input accuracy	min.	0.1 mm
Material feed		
front vice	max.	300 mm
rear vice	max.	400 mm

Technical data		
Saw blade motor		7.5 kW
Hydraulic motor		1.5 kW
Coolant motor		0.18 kW
Cleaning brush motor		0.09 kW
Voltage		380 V / 50 Hz
Control voltage		DC 24 V
Chip conveyer drive		hydraulic
Saw blade speed		15 - 150 m/min continuously variable
Saw blade dimension		41 x 1.3 x 4,715 mm
Work table		Height 1,000 mm
Load		2,500 kg
Tank capacity	Coolant	230 l
	Hydraulic oil	35 l
Pump pressure	Hydraulic	45 bar
Flow rate	Hydraulic	22 l/min
Machine dimensions	W x D x H	2,632 x 2,740 x 2,422 mm
Machine weight		4,500 kg

CNC control	■ Speed/performance
	■ Material/cross section
	■ Plane parallelism indicator
	■ Automatic parameter correction

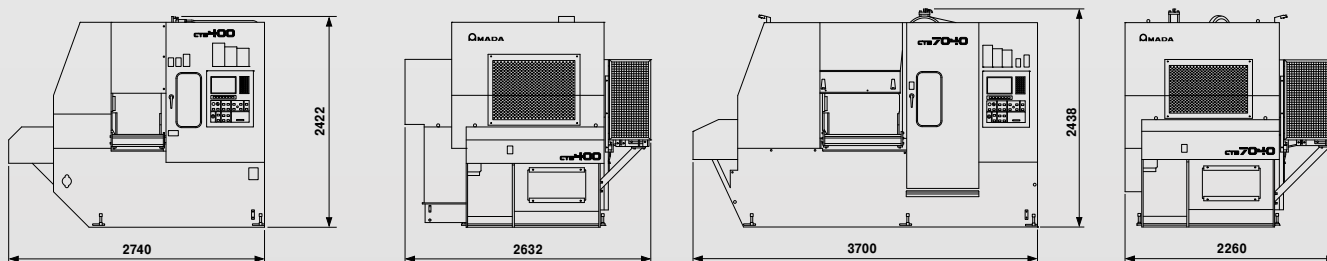
CTB 7040

Cutting capacity	min.	30 mm
	Round/Square	max. 430 mm
Rectangular	max.	730 x 430 mm
Cutting length	min.	10 mm
	max.	9,999 mm
Off-cut length	min.	15 mm
Input accuracy	min.	0.1 mm
Material feed		
front vice	max.	300 mm
rear vice	max.	400 mm

Technical data		
Saw blade motor		7.5 kW
Hydraulic motor		1.5 kW
Coolant motor		0.18 kW
Cleaning brush motor		0.09 kW
Voltage		380 V / 50 Hz
Control voltage		DC 24 V
Chip conveyer drive		hydraulic
Saw blade speed		15 - 150 m/min continuously variable
Saw blade dimension		41 x 1.3 x 5,630 mm
Work table		Height 1,000 mm
Load		2,500 kg
Tank capacity	Coolant	417 l
	Hydraulic oil	35 l
Pump pressure	Hydraulic	45 bar
Flow rate	Hydraulic	22 l/min
Machine dimensions	W x D x H	2,260 x 3,700 x 2,438 mm
Machine weight		6,250 kg

CNC control	■ Speed/performance
	■ Material/cross section
	■ Plane parallelism indicator
	■ Automatic parameter correction

Subject to technical modifications



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