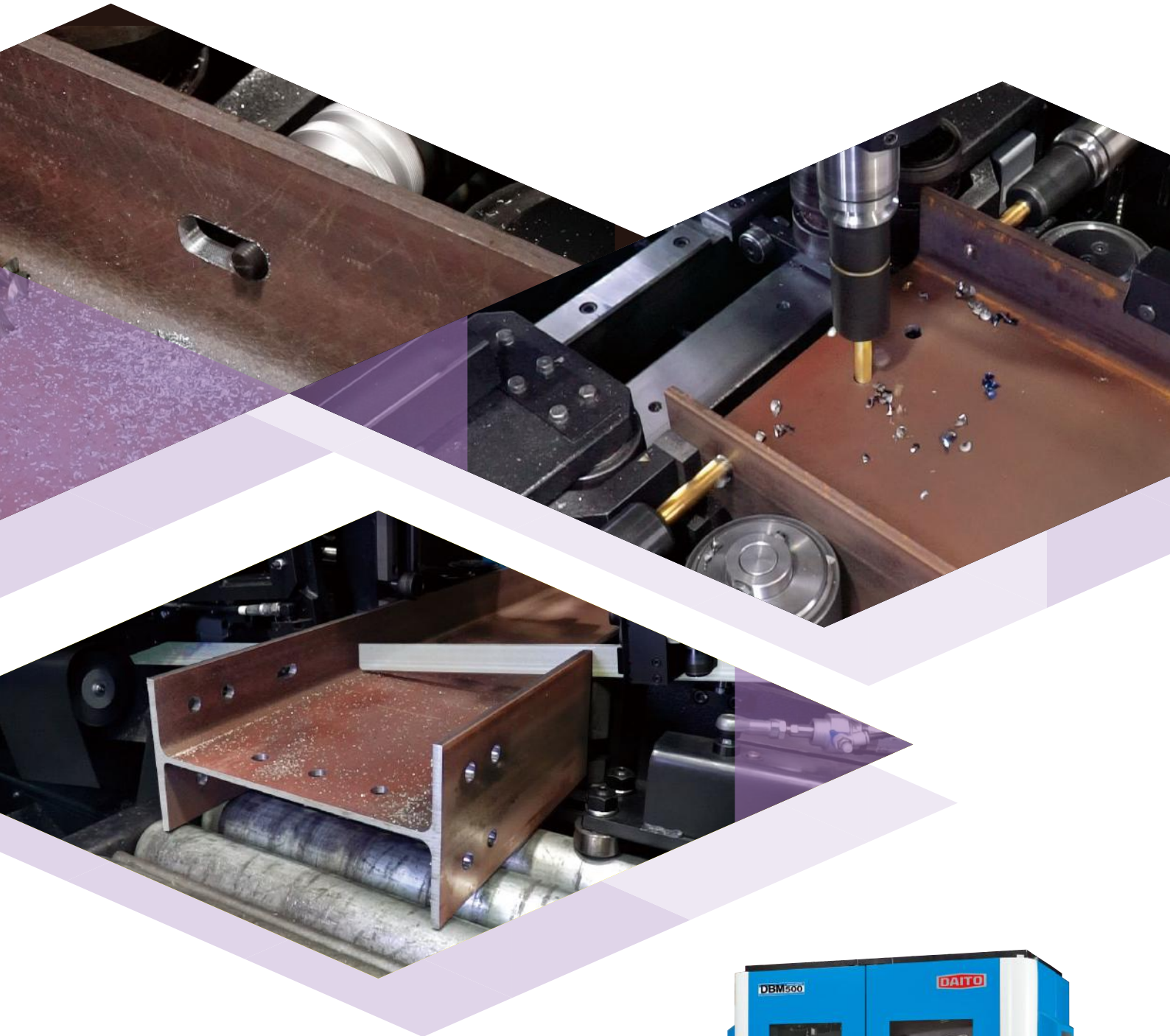


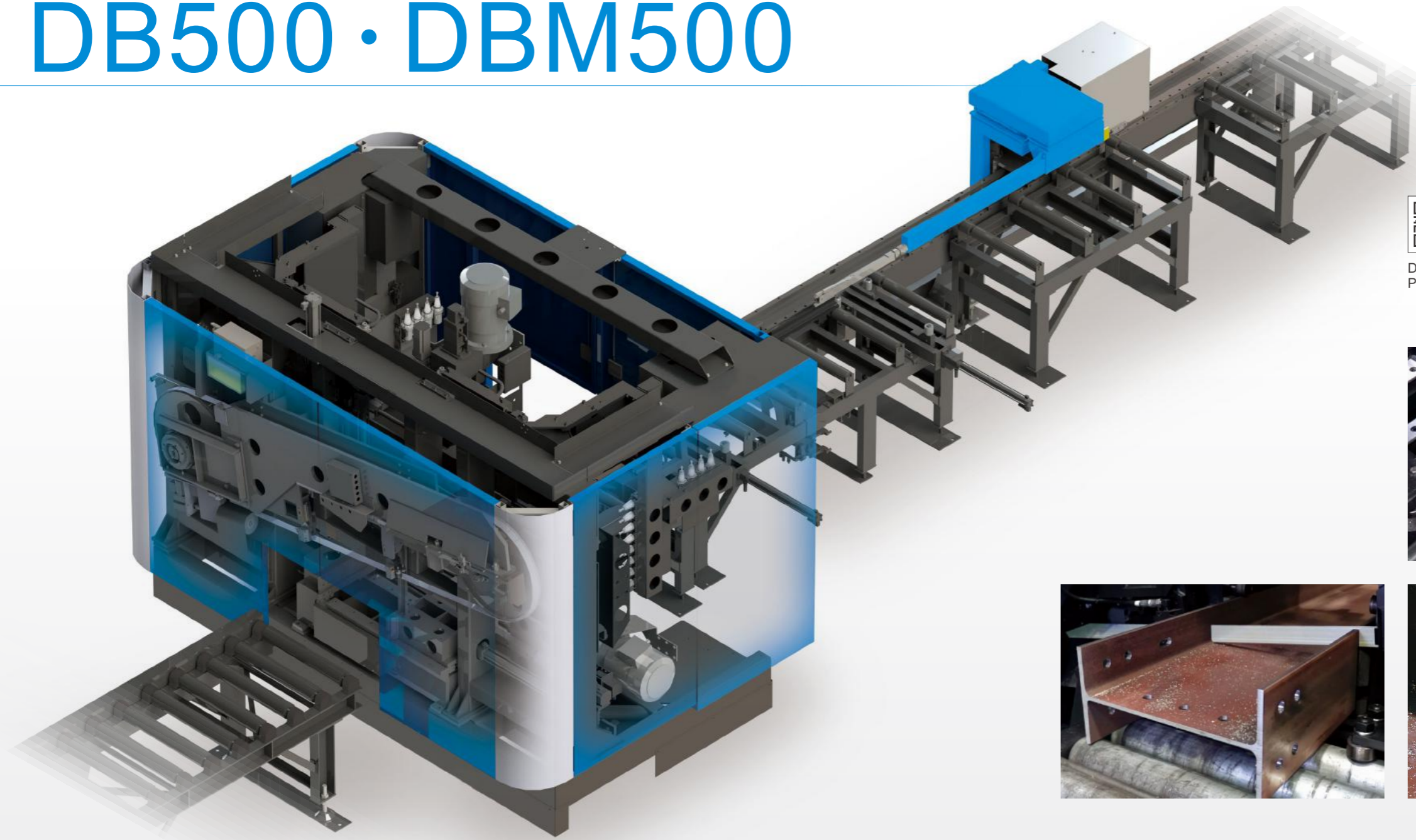
# COMBINATION MACHINE

DB500 · DBM500

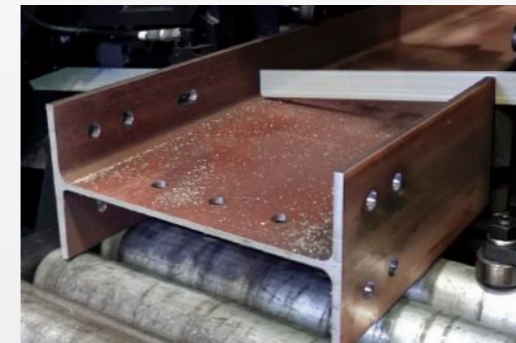
mm



# DB500 · DBM500



DB500 · DBM500  
Promotion Video



## Including Drilling, Sawing, Milling and Tapping Altogether

DAITO's Drill-Bandsaw DB500 · DBM500 are automatic complex models, combining both drilling machine and bandsaw into 1 single machine. With automatic tool changers on each of the 3 drills heads, drilling, marking, milling (DBM500 Only) of various profiles is fast and effective.



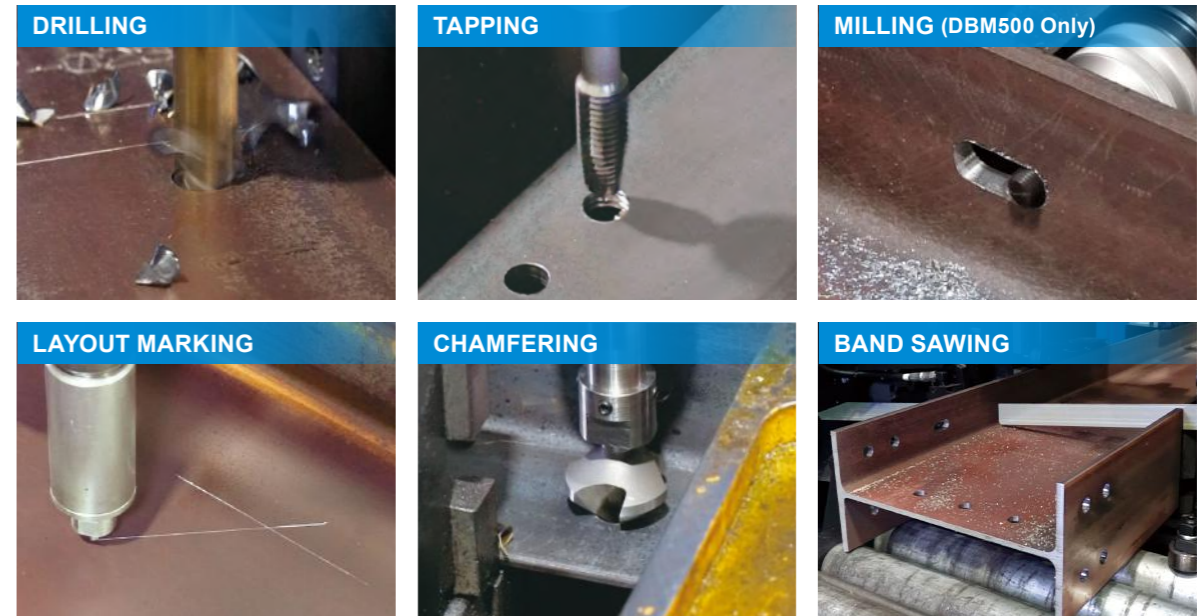
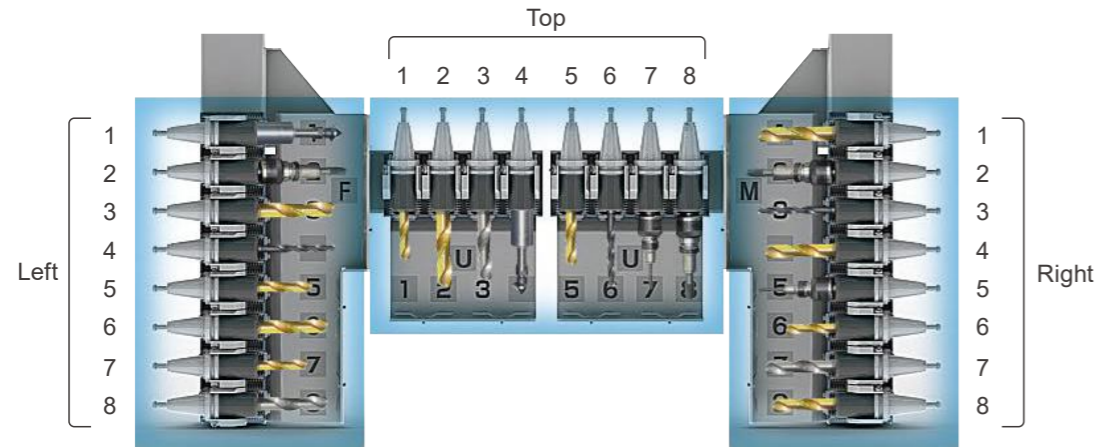
DB500



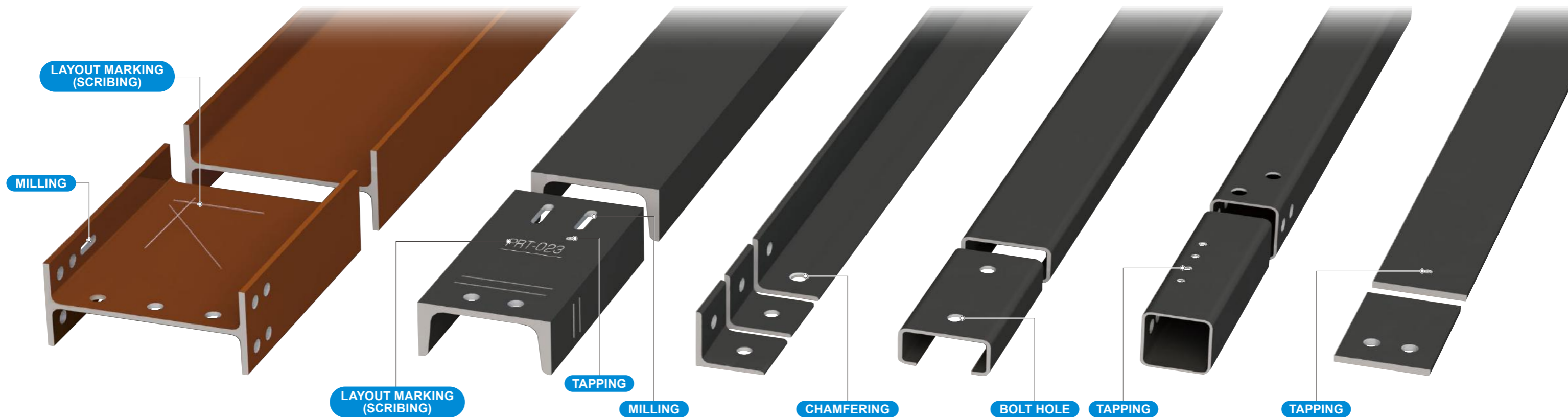
DBM500

# Various Functions for Various Profiles

DB500 • DBM500 has an auto tool changer (ATC) on each drill unit (top/left/right) together with a tool magazine of 8 tools (each ATC). By changing tools, different diameter holes, tapping, milling, long holes (DBM500 Only), marking (scratching & scribing), and chamfering are available on various profiles with optional tools. Finally the high speed bandsaw cuts workpieces by the programmed length.



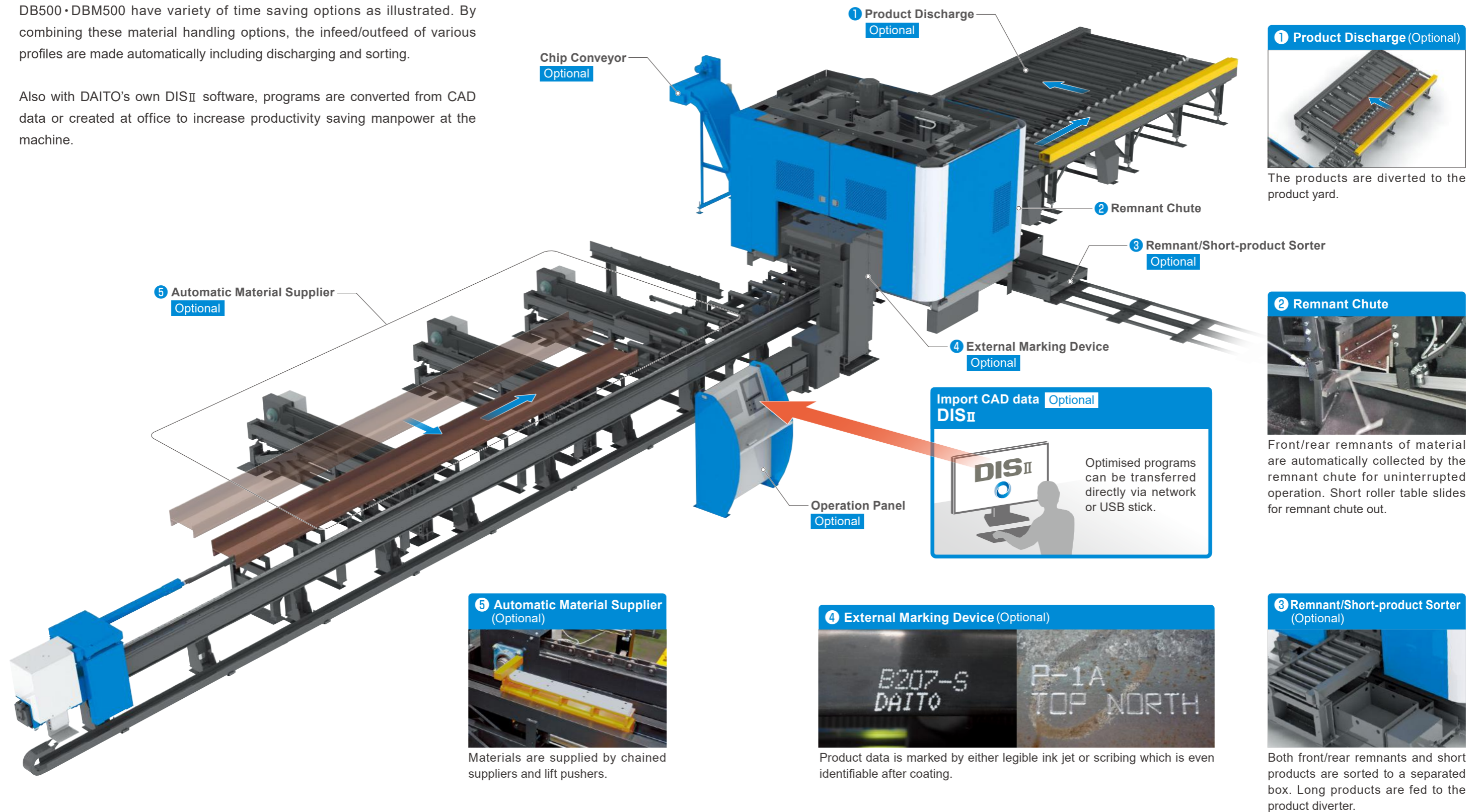
\* All tools are optional except initial oil hole drills and a bandsaw blade.



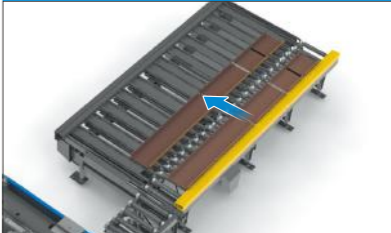
# Fully Automatic Operation

DB500 • DBM500 have variety of time saving options as illustrated. By combining these material handling options, the infeed/outfeed of various profiles are made automatically including discharging and sorting.

Also with DAITO's own DISII software, programs are converted from CAD data or created at office to increase productivity saving manpower at the machine.



1 Product Discharge (Optional)



The products are diverted to the product yard.

2 Remnant Chute



Front/rear remnants of material are automatically collected by the remnant chute for uninterrupted operation. Short roller table slides for remnant chute out.

3 Remnant/Short-product Sorter (Optional)



Both front/rear remnants and short products are sorted to a separated box. Long products are fed to the product diverter.

Import CAD data **DISII** (Optional)

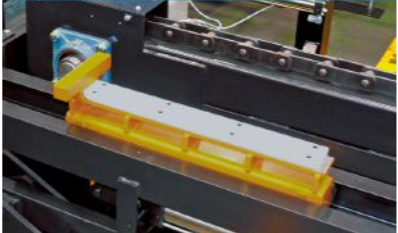
Optimised programs can be transferred directly via network or USB stick.

4 External Marking Device (Optional)



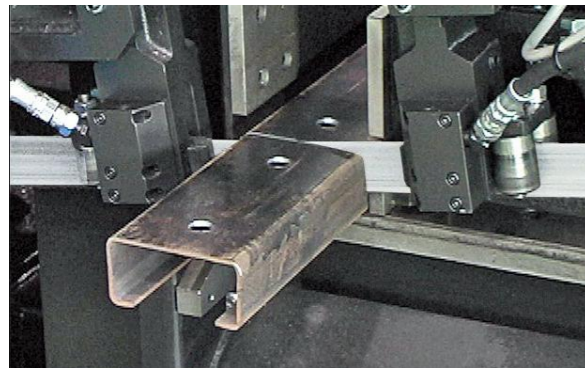
Product data is marked by either legible ink jet or scribing which is even identifiable after coating.

5 Automatic Material Supplier (Optional)



Materials are supplied by chained suppliers and lift pushers.

# High Usability



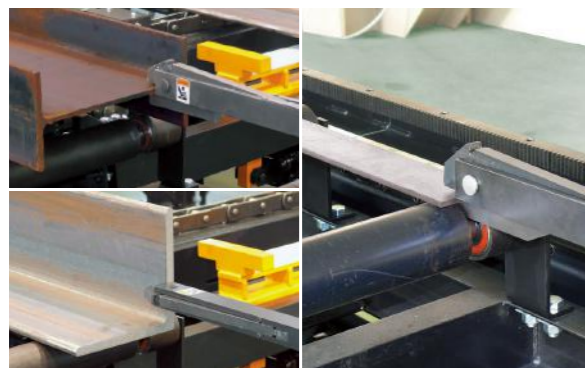
## VERSATILE BANDSAW

Unlike thick circular saws, the thin band saw blade is much more effective and versatile for a wider range of profiles. The saw blade is fully optimised and tensioned to cut even small and thin workpieces.



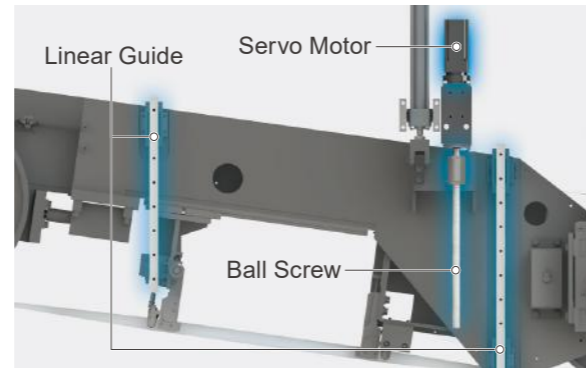
## SEMI DRY CUT

Mist Lubricant is sprayed to blade edges. Unlike watered cutting fluid, both workpiece and the machine are kept clean to improve productivity.



## VERSATILE GRIPPER

The feed bar gripper accurately positions the workpiece. Manually select either vertical or horizontal clamping direction to cope with various profiles.



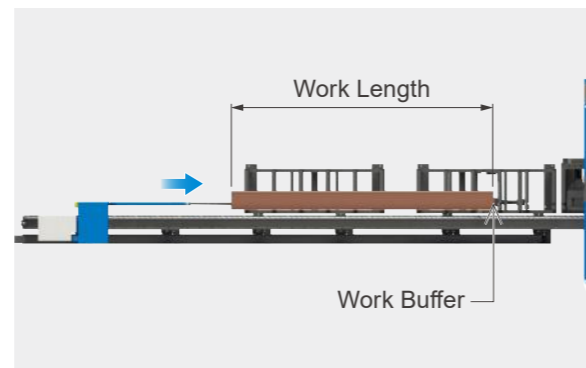
## SERVO-MOTOR-BALL-SCREW FEED METHOD

The Servo-Motor-Ball-Screw feed method is not affected by temperature, unlike hydraulic method; always accurate and stable. The feed is free from any vibration, being backed up by a rigid saw frame on the linear guides.



## OIL HOLE DRILL

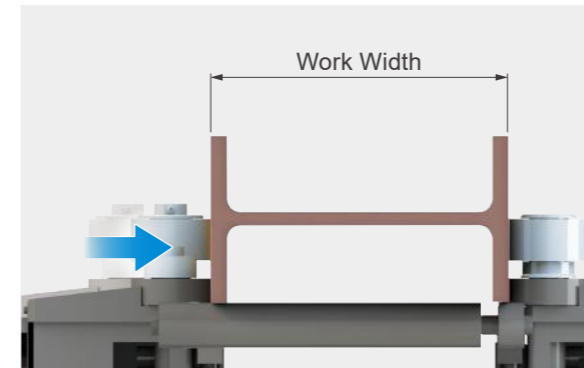
Being provided with cutting fluid directly to the edges, the oil hole drill runs high speed without heating-up. This prolongs tool life even more.



## WORKPIECE LENGTH MEASUREMENT

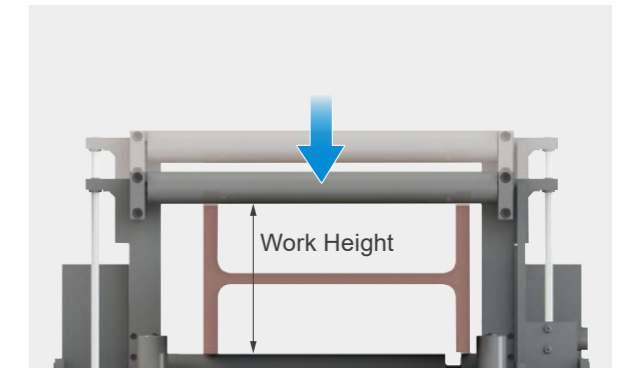
The carriage pushes the workpiece against the work buffer to measure the product length.

# Variety of Features



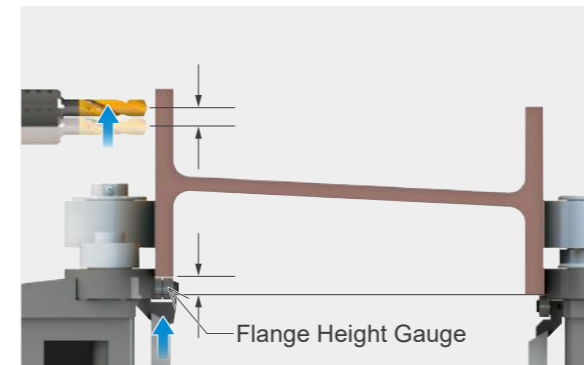
## WIDTH MEASUREMENT

The guide roller measures the precise material width.



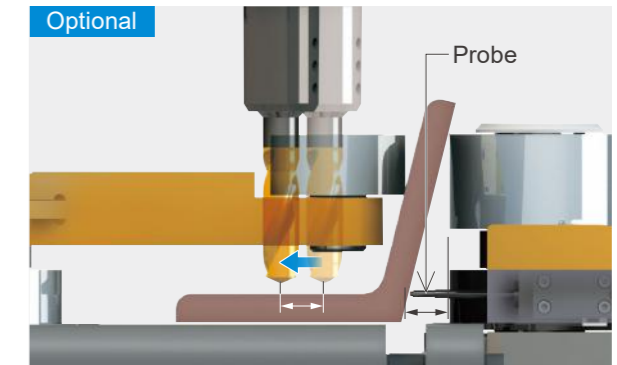
## HEIGHT MEASUREMENT

The yoke roller measures the precise material height.



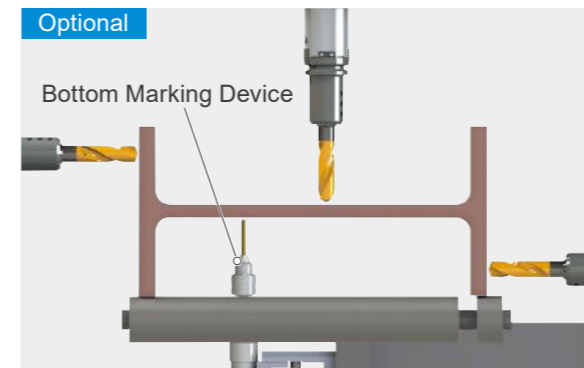
## FLANGE HEIGHT GAUGE

Even distorted material, hole position is compensated by the flange height gauge.



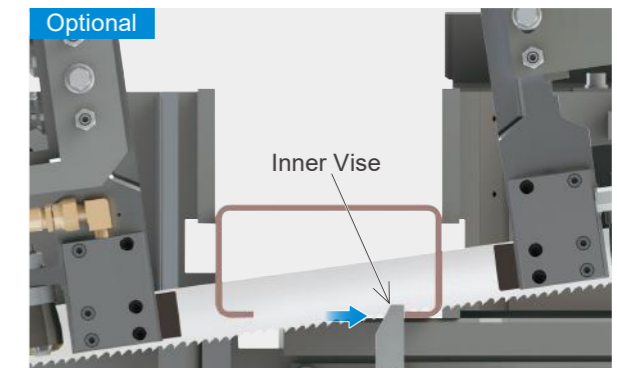
## HEIGHT COMPENSATION

Even distorted angle, hole position is compensated by the work feed roller of fixed side.



## BOTTOM MARKING DEVICE

Marking all 4 sides of H beam is possible with the bottom side point marking device.



## INNER VISE

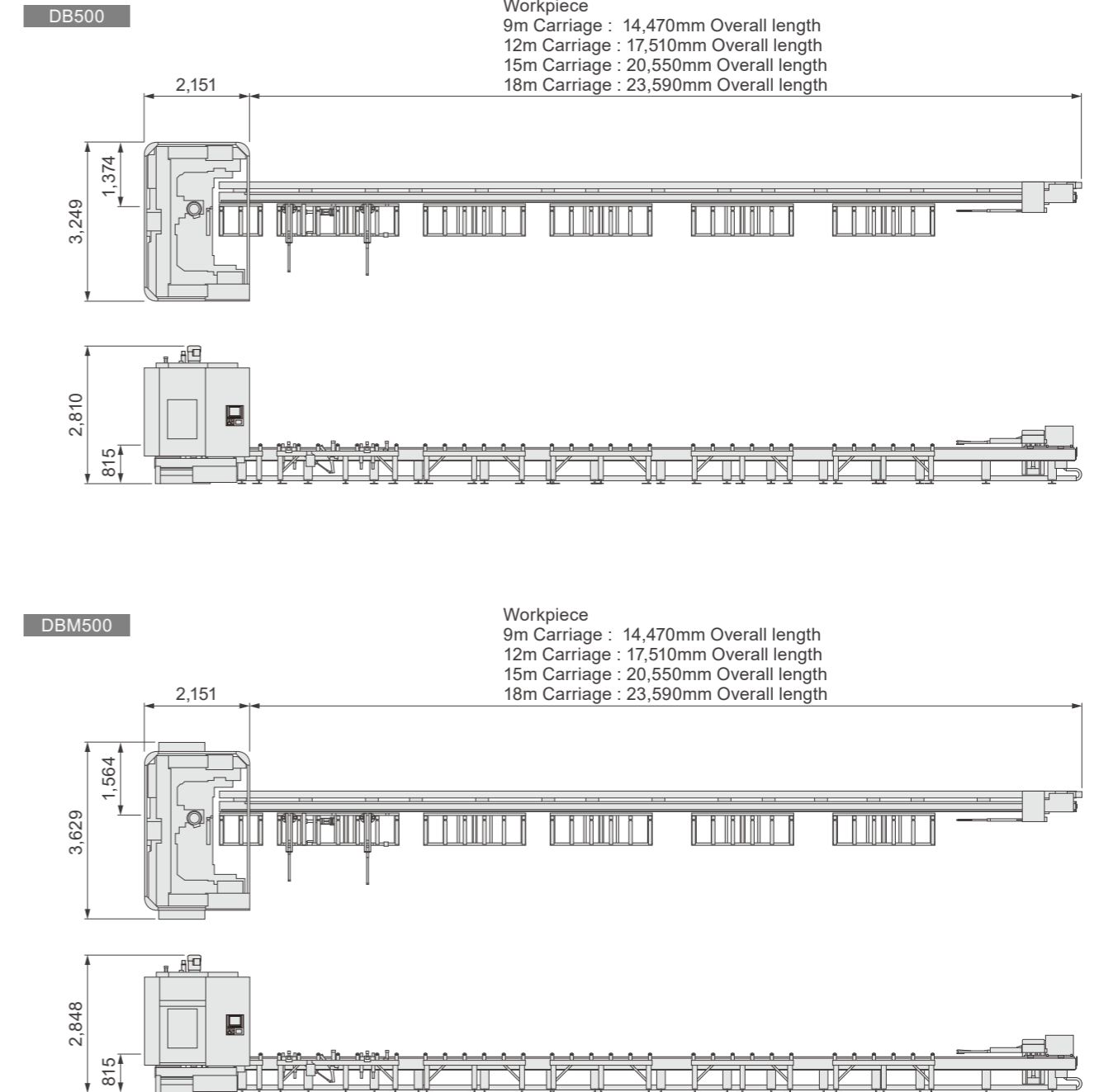
C channel lip inner clamping vise. The workpiece is clamped from inside to avoid deformation. Even thin material is cut smoothly.

## Specifications

		DB500	DBM500
Capacity (mm)	H	100 × 50 - 500 × 300	
	L	50 × 50 - 250 × 250	
	□	75 × 40 - 380 × 100	
	□	90 × 40 - 250 × 75	
	I	50 × 50 - 300 × 300	
Drill Spindle	Axis	3 Axes Top / Left / Right	
	Spindle rpm	0rpm - 800rpm	0rpm - 1,100rpm
No. of Drills in ATC (Each Unit)		Top, Left, Right 8	
Blade Size	Width × Thickness	41mm × 1.27mm	
	Length	6,550mm	
Main Work Feeder	Measure	Carriage with AC Servo Drive	
	Max. Feeding Speed	40m/min	
	Max. Indexible Weight	2,000kg (170kg/m)	
Min. Work Length	Auto Cycle	1,500mm	
	Saw Blade	7.5kW × 1	
Motor Output	Drill Spindle	5.5kW × 3	7.5kW × 3
	Hydraulic	2.8kW × 1	
	Saw Frame up/down	0.75kW × 1 (AC Servo)	
	Drill Travel	0.75kW × 6 (AC Servo)	
	Carriage Travel	1.8kW × 1 (AC Servo)	
	Others	0.59kW	
	Total	34.44kW	40.44kW
	Power Consumption	129A (AC200V)	
Air Compressor*	Pressure	0.6MPa	
	Required Flow	400 l/min	
	Min. Consumption	3.7kW	
Machine Weight		5,500kg	6,700kg

\* No air compressor is included to this model.

## Overall Dimensions (mm)



Specifications/outlook are subject to change without notice.



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DAITO SEIKI Web Site



YouTube channel "DAITOSEIKI-en"

Contains various product movies  
and company profiles. Please check.

