



**DAITO'S
BEAM LINE SYSTEM**

**DAITO'S
BAND SAWING MACHINES**



**ST-II 5080
STA5080**

Max. Beam Width : 800
Max. Flange Height : 410



**GTE 5080 CNC
GTA 5080 CNC**

Max. Beam Width : 800
Max. Flange Height : 400



**GT 7010 CNC
GTA 7010 CNC**

Max. Beam Width : 1020
Max. Flange Height : 660



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DRILLING MACHINE

for structural steel

Carbide Super Drill series



**CSD-II 1050
CSD-II 1350
CSD-II 1570**



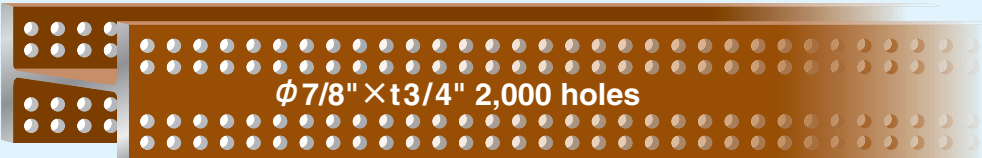
DRILLING SENSATION!



Carbide drill bits have never before been used for structural steel drilling because of the fragile characteristics of carbide. Now, Daito's innovative engineering has developed a new series of high-speed machines capable of utilizing carbide drill bits - the CSD series. The new Daito CSD series machines boast powerful 15 kW spindle motors and

exceptionally rigid construction that combine to produce drilling that is 4.6 times faster than conventional. Drilling costs are dramatically reduced by the amazing productivity and overall tooling costs. The machines feature Daito's unique "X-Y positioning 3 drills" method and are fully covered to provide a safe and clean working environment.

CARBIDE DRILL + 15kW MOTORS



● DRILLING TIME for above example

CARBIDE DRILL 1,300 rpm 0.37 mm/rev	2.9 sec/hole (4.6 times faster than H.S.S)
H.S.S DRILL 360 rpm 0.27 mm/rev	13.2 sec/hole

● TOOL COST

CARBIDE DRILL Throw-away tip	Initial cost				(30% cheaper than H.S.S)
H.S.S DRILL Re-grind 9 times	Initial cost		Re-grind cost		



CSD II 1350

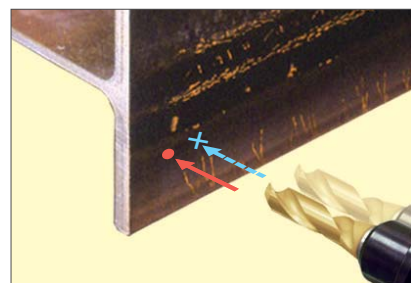
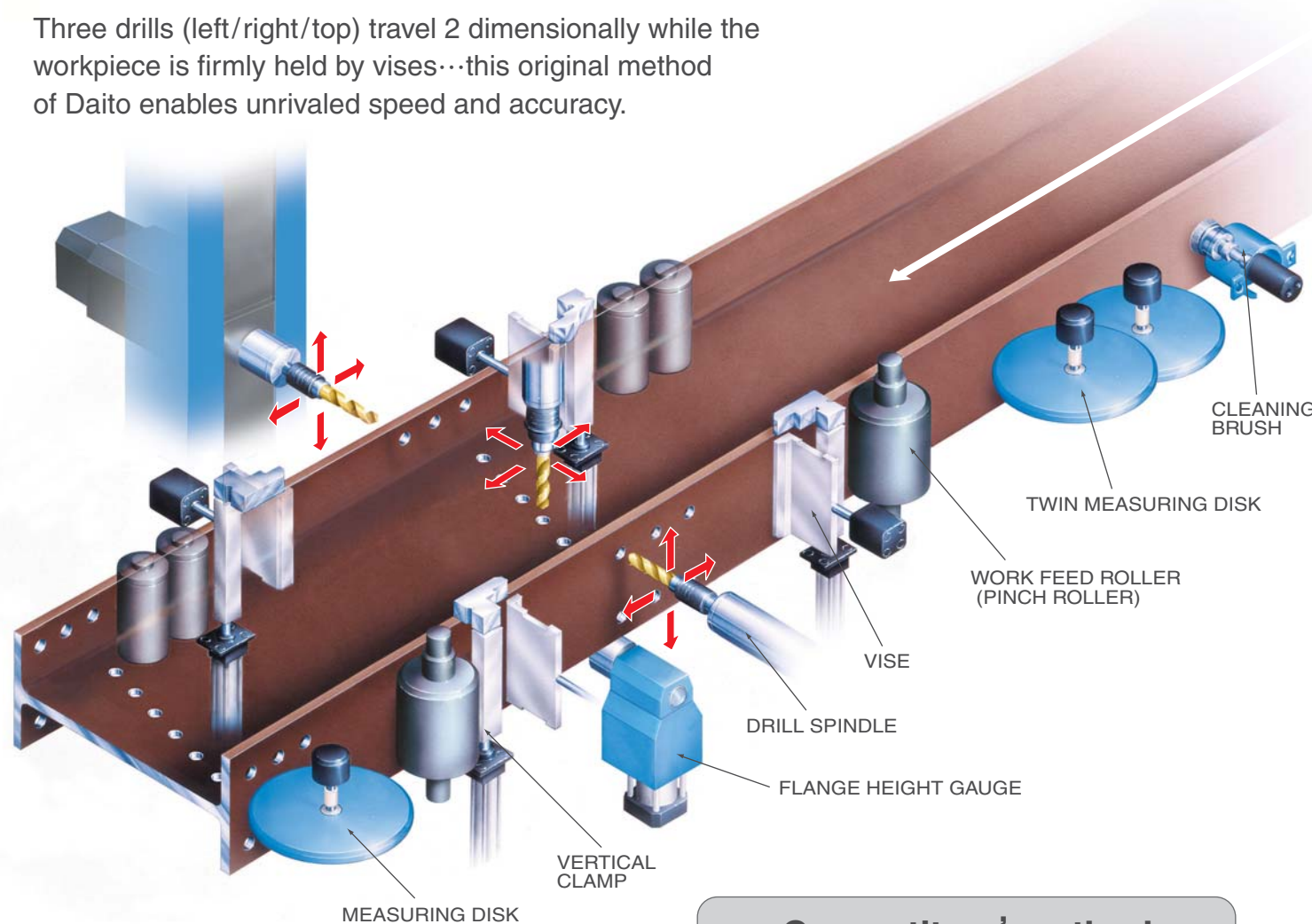


CSD II 1570 with Chip Sweeper

DAITO IS DIFFERENT!

Daito's "X-Y positioning 3 drills" method

Three drills (left/right/top) travel 2 dimensionally while the workpiece is firmly held by vises...this original method of Daito enables unrivaled speed and accuracy.

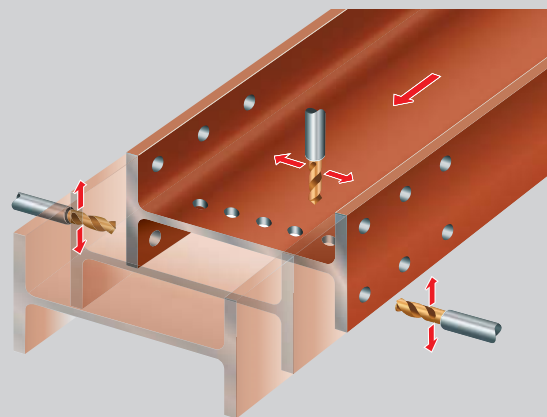


Positioning compensation

The workpiece positioning error caused by inertia is compensated by the positioning of each drill.

Competitors' method

Three drills travel only 1 dimensionally for moving workpiece. Due to frequent feed of heavy workpiece, this method is slow and inaccurate.



FEATURES

PINCH ROLLER SYSTEM



The workpiece is fed by powerful pinch rollers located on the infeed/outfeed sides of the machine. Even the heaviest workpiece is fed efficiently.

TWIN MEASURING DISKS



For precise measurements, twin disks work together. If the measurements of each disk vary, an alarm will be issued to stop the machine.

POWER CLEANING BRUSH



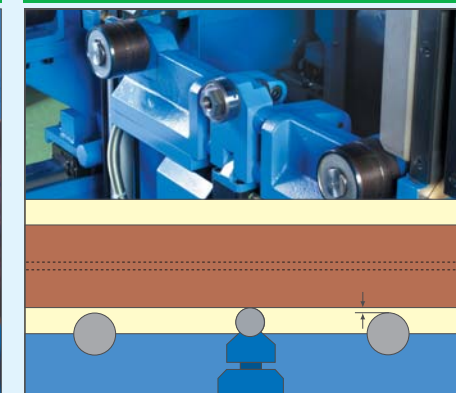
To assure measurement accuracy, a cleaning brush located before the in-feed measuring disk removes rust and scale from the workpiece.

FOUR VERTICAL CLAMPS



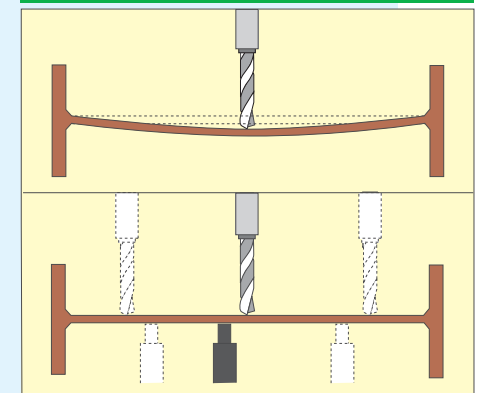
Four hydraulic vertical clamps securely hold down the workpiece to straighten slightly bowed beams and avoid upward deviation of the workpiece.

FLANGE HEIGHT GAUGES



The flange height gauges not only support flanges, but also measure flange distortion that might remain after being vertically clamped.

WEB SUPPORTS



Web supports prevent thinner webs from bending under the pressure of drilling. This feature reduces drill bit failure and improves hole quality.

AUTOMATIC TOOL CHANGER



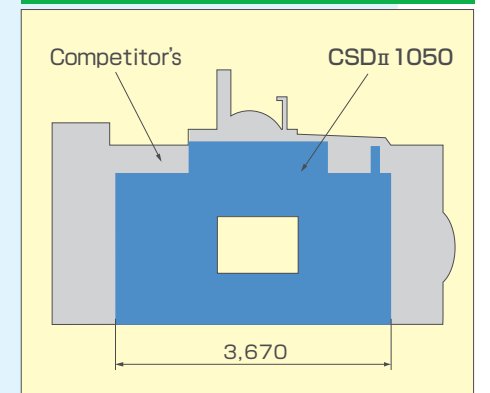
The web drill head is equipped with an Automatic Tool Changer (ATC) which can store as many as four different drill bits.

PENDANT OPERATION PANEL



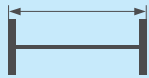
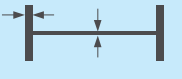
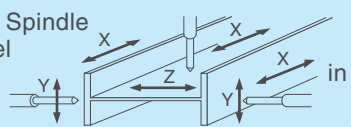
The pendant mounted operation panel can be easily swung to either side of the machine for easy setup and operation.

COMPACT / SAFE / CLEAN

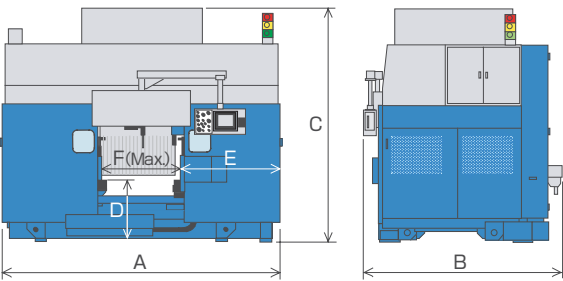


The compact and fully covered construction of the machine assures a space saving, safe and clean working environment.

SPECIFICATIONS

MODEL		CSD II	1050	1350	1570	
Beam Width		mm	Max.	1,010	1,310	1,500
			Min.	150		200
Flange Height		mm	Max.	500		700
			Min.	75		100
Thickness		mm	Max.	50		100
			Min.	5		8
Hole Diameter		mm	Max.	Carbide 26	H.S.S. 50	
			Min.	Carbide 17	H.S.S. 9	
No. of Drill Spindles			3			
Each Spindle Power		kW	15			
Spindle rpm			0~2,250			
Max. Spindle Travel		X	550			
		Y	485		635	
		Z	970	1,270	1,470	
No. of Drills in Web ATC			5		4	
Max. Feeding Speed		m/min	30(60 : Optional)			
Max. Work Load		lbs	15,000			
Power Consumption		Amps	200(AC200V)			
Machine Gross Weight		kg	10,300	11,000	13,400	

OVERALL DIMENSIONS



	CSD II		
	1050	1350	1570
A	3,670	3,970	4,570
B	2,702		2,802
C	3,350		3,890
D	800		1,050
E	1,315		1,515
F	1,040	1,340	1,540

MATERIAL HANDLING UNITS



This unit is linked to a roller table to feed the workpiece.



The workpiece is pushed against vertical rollers for precise alignment.



Built-up drill chips are swept away during the workpiece feed.

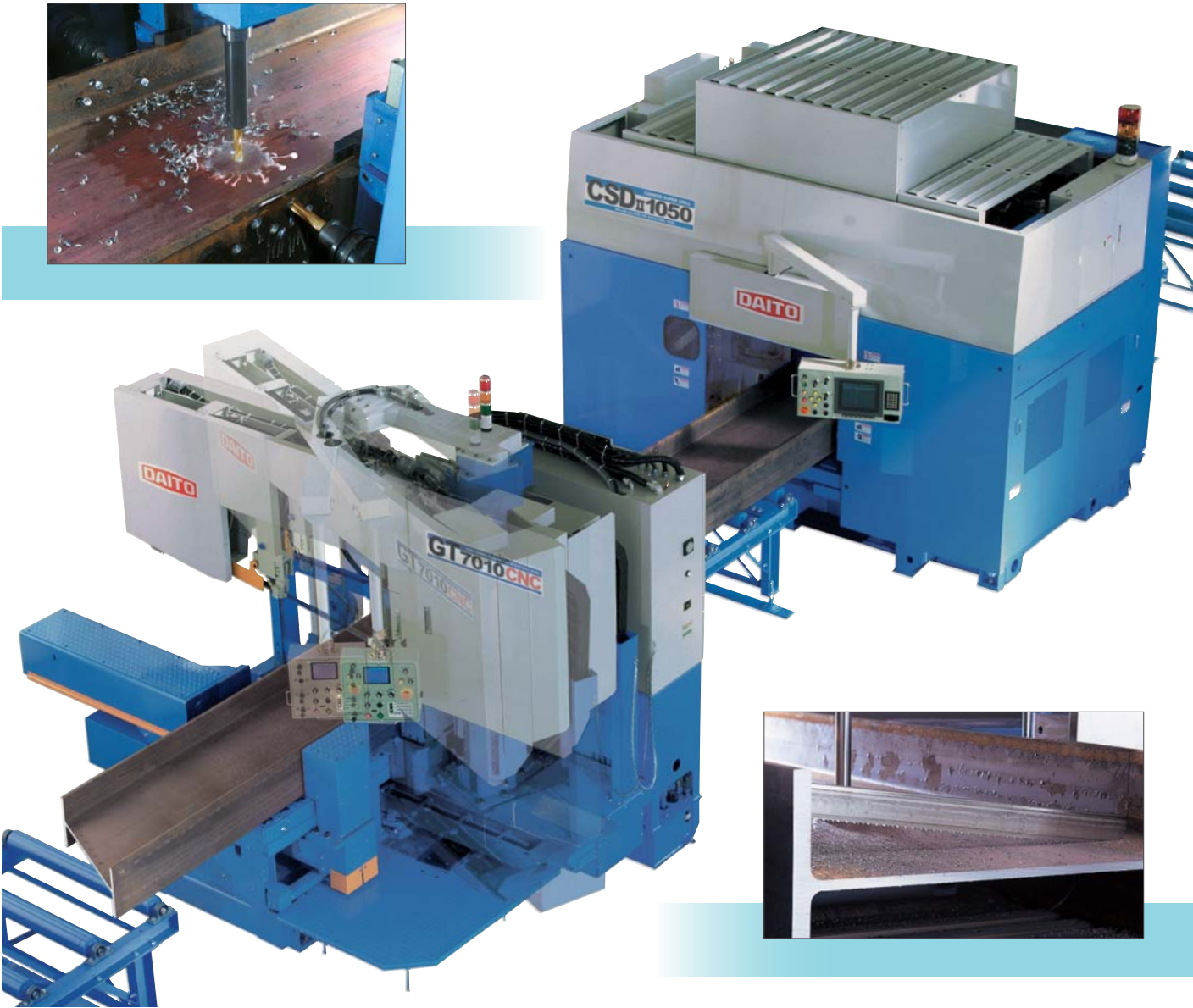


The workpiece is lifted and carried to multiple positions.

DRILLING/SAWING CELL

The CSD series carbide drill can be combined with Daito's high-speed GT series bandsawing machines to create a Drilling/Sawing Cell. By sharing the same measuring system, the

cell dramatically streamlines shop operations, reduces material handling, requires only one operator and occupies much less floor space.



Daito's Mechanical Advantage

With competitor's drill/saw combinations, the drill cannot function while the saw is cutting. The result is a significant loss of productivity. Daito's mechanical advantage, the "X-Y positioning 3 drills" method is the answer! Three

drill spindles position freely and independently within a substantial area and holes within that range are drilled simultaneously with the sawing. This synchronization minimizes efficiency losses and restores maximum productivity.