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NC SURFACE GRINDING MACHINE

HIGH PRECISION



SUPERIOR SURFACE



PERFECT RESULT

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ABOUT

Dener Makina was established in 1974 in the Kayseri Old Industrial Zone. Since 2000, the company has focused on the production of CNC Sheet Metal Processing Machines, manufacturing a wide range of products including Guillotine Shears, Hydraulic Press Brakes, Ball Screw Press Brakes, Servo-Electric Press Brakes, Plasma Cutting Machines, and Fiber Laser Cutting Machines.

In 2016, the company made a major investment by expanding its facilities to include 155,000 m² of factory buildings and 27,000 m² of social facilities on a 1,300,000 m² site within the İncesu Organized Industrial Zone (O.S.B). In this new phase, Dener Makina began the production of CNC Metal Processing Machines such as Taksan Integrated Systems, Double Column Machining Centers, 5-Axis Simultaneous Machining Centers, Vertical Machining Centers, Lathes, and Grinding Machines.

With its extensive production range, over half a century of experience, skilled workforce, and multinational R&D center, Dener Makina holds a leading position globally by providing high-value industrial investment products in the fields of CNC Sheet Metal Processing and CNC Metal Processing Machines.

03 Overview

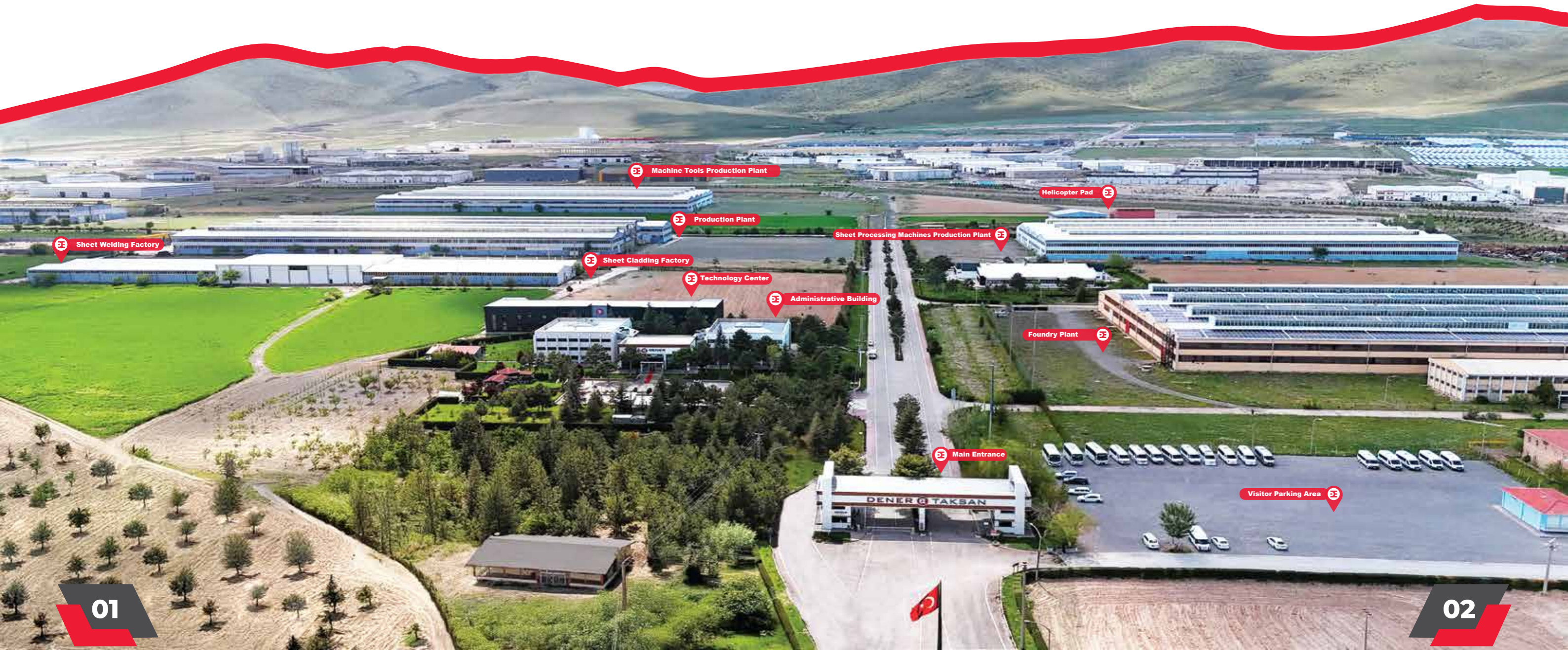
04 Standard & Optional Equipment

05 Body and Column Structure

06 Workpiece Loading and Working Capacity

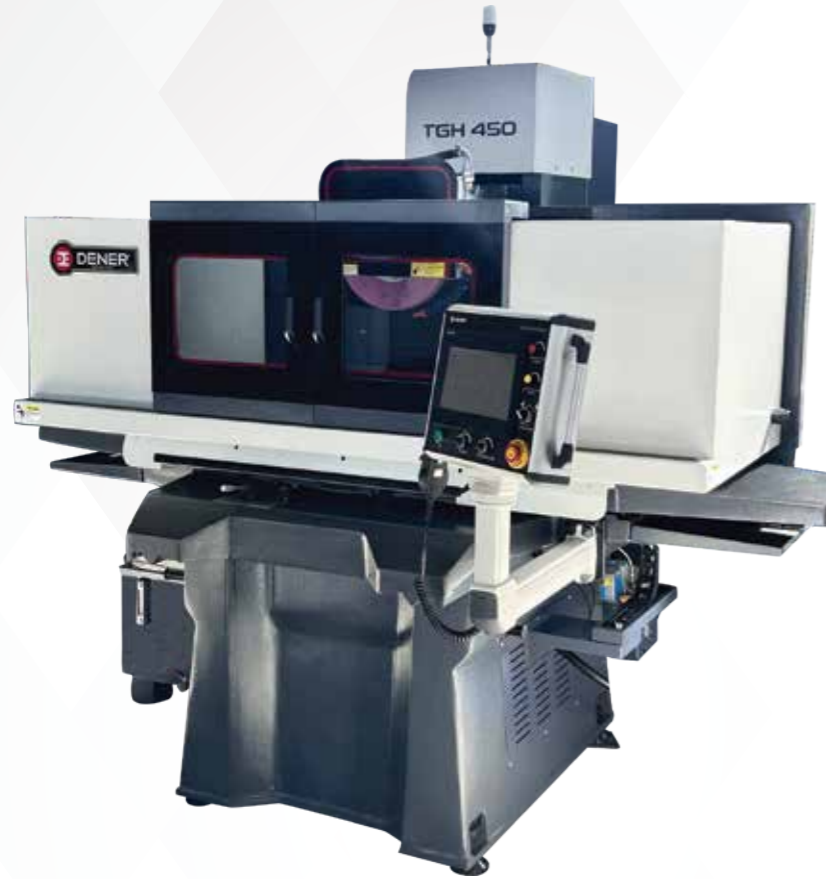
07 Control Unit and Hydraulic Unit

08 Technical Data



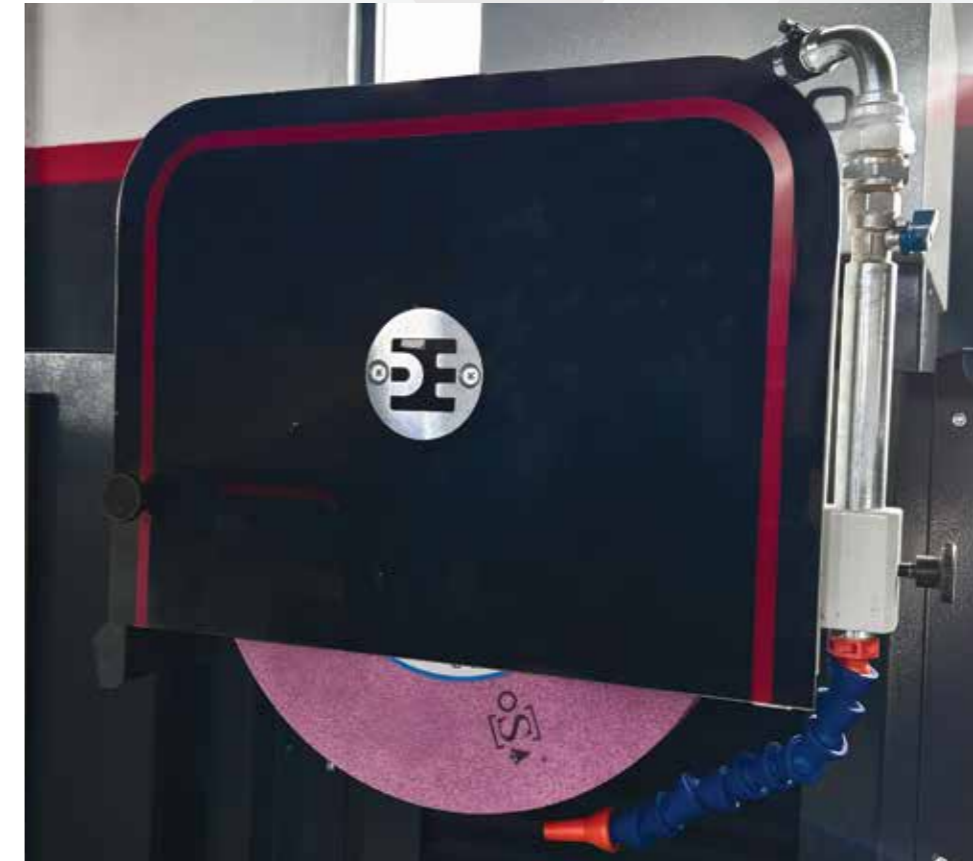
TGH - SERIES NC GRINDING MACHINE

I Overview



Our high precision surface grinder machine's capability to operate with any kinds of materials for longitudinal and cross directions grinding ensures maximum accuracy.

- 10" User-friendly touchscreen panel
- Vertical and cross travel driven by AC servo motor with ball-screw + MPG
- Precise chips removal for cross travelling and vertical axis with NC controlling system
- Hydraulic system controls for the longitudinal travelling
- Ultra precise, strong, direct-drive without backlash rigid shafts are positioned in multiple location
- V guide-rails, covered with protective casing, provides finer grinding surface finish
- Hand-scraped prism box guide-rails provides the finest grinding surface finish
- On-time service with spare parts and delivery



I Standard Equipments

- Vertical and Cross Feed Travel Driven by AC Servo Motor + MPG
- 10" Colour LCD Touch Screen Panel
- Remote Hand-wheel
- Semi Guarding for Table
- Grinding Wheel Flange
- Elektromagnetic Table (400x800)
- Wheel Balancing Stand
- Balancing Arbor
- Grinding Wheel ($\text{Ø}350 \times \text{Ø}127 \times 40$)
- Puller for Wheel Flange
- Table Type Wheel Dresser (With the diamond)
- Coolant Equipment
- Paper filter cooling equipment (Manual)
- Work Light & Program Light
- Front door safety switch
- Tools & Box
- Hydraulic Unit With the Oil (100 Lt)
- Chuck Control for Elektromagnetic Table
- Lifting Screws
- Leveling Bolts & Plates
- Operator's Manual

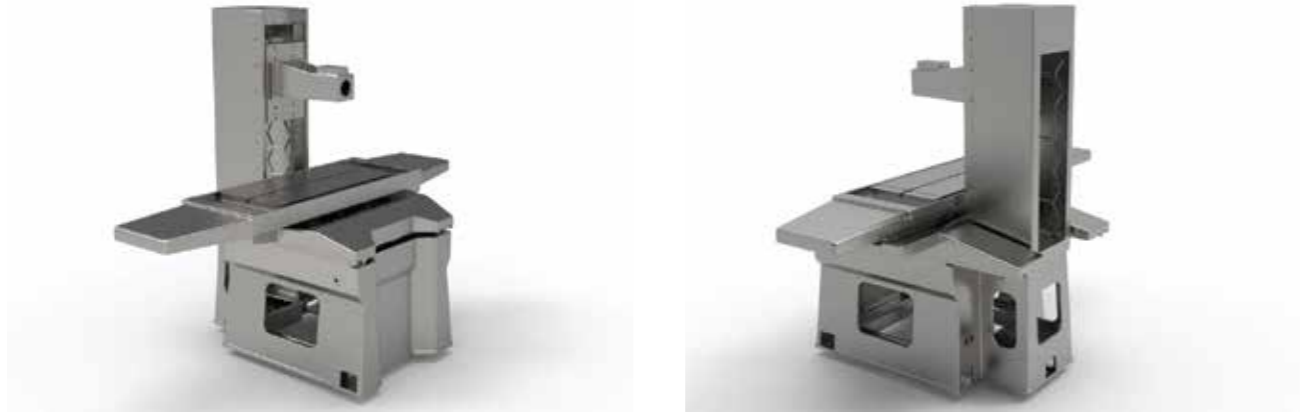
I Optional Equipments

- NC controls for vertical and cross axes
- Additional wheel flange
- Parallel wheel dresser on wheel head with the diamond)
- Sin bar with magnetic (V-S 100M)
- Auto paper strip filter with magnetic separator coolant system
- Tool maker vice (MVM-40)
- Demagnetizer (for workpiece) (VDM-68)
- Sine bar (VS-100)
- Punch former with the sine plate (V-PB-BS)

TGH - SERIES NC GRINDING MACHINE

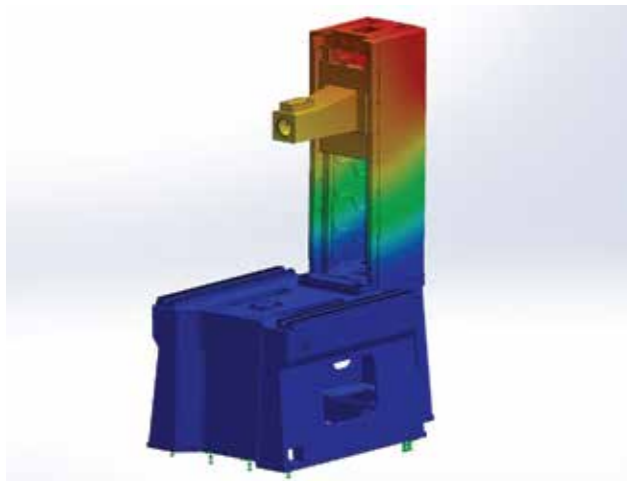
Body Structure

Stress relieved meehanite casting with annealed body structure provides working under heavy conditions, vibration damping, high precision and high resistance.



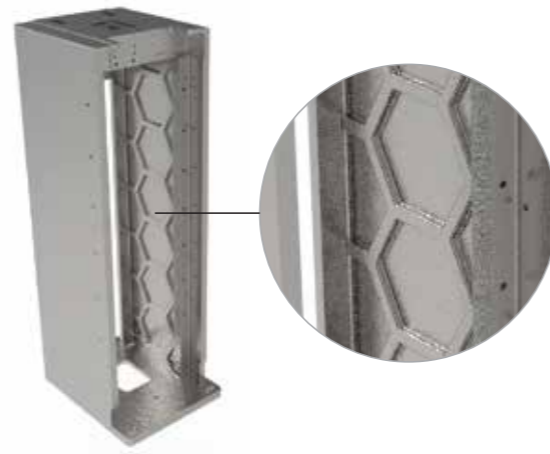
Finite Element Method

By using the finite element method, optimum body structure is obtained.



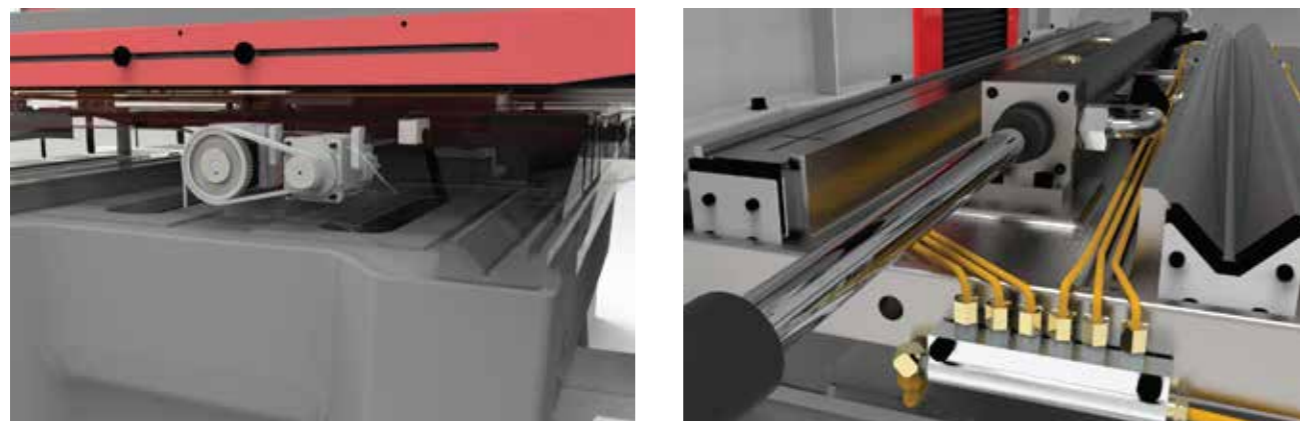
Column structure

Due to comb support at column, high resistance and vibration damping performance.

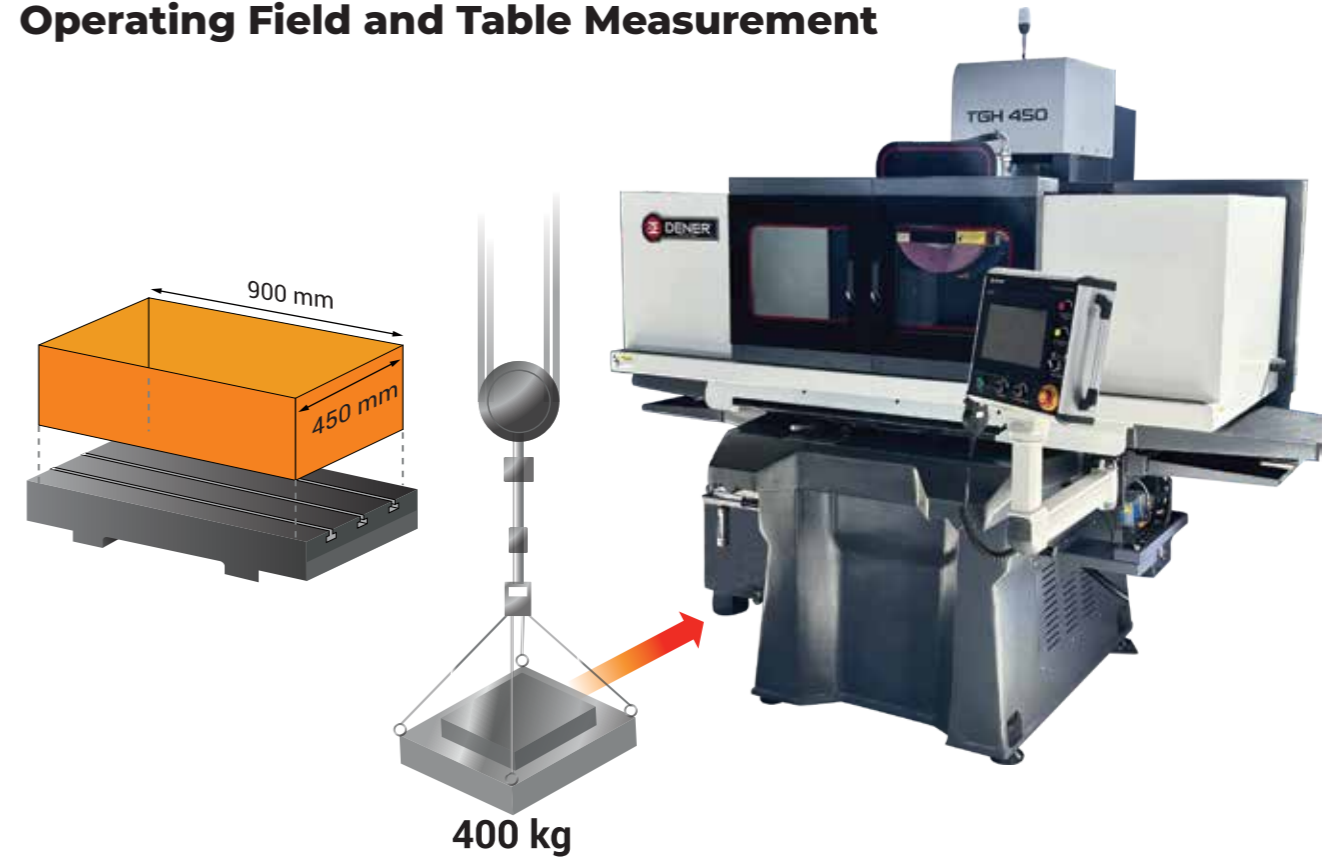


Linear Guide Way System

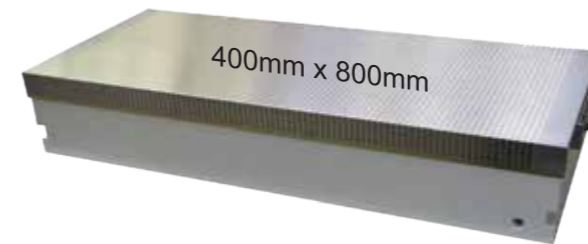
Meehanite casting and hand scrapped due to Turcite-B protective casing box-prism rail system precise linear way, positioning and without vibration running.



Operating Field and Table Measurement



Magnetic Table



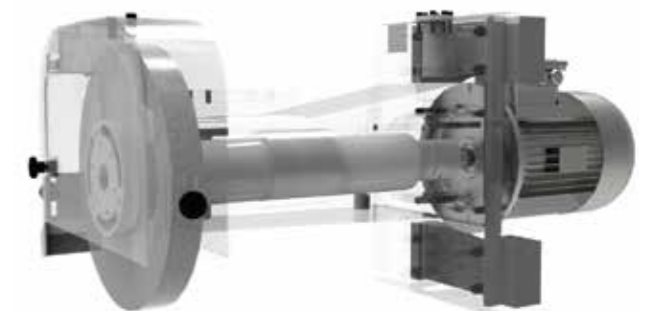
Column Axis

Hardened and protected casing rails with Turcid-B rigid linear way due to high precision, front loading, grinded ball-screw precise positioning and repeatability.



Direct-Drive Spindle

Due to direct drive motor connection, pre-loaded and precise roller type bearing supported with spindle provides excellent surface and precise grinding.



TGH - SERIES NC GRINDING MACHINE

Control Unit

User Friendly interface with latest technology and ergonomic design.



Coolant Tank (Opt.)

100 lt. capacity, self-filtered and functional tank design provides optimum cooling and easy maintenance.



Hydraulic Unit

Due to controlled with hydraulic unit of table axis movement, even in hard conditions, fast and stable working capability.



Automatic Lubrication System

By using two different pumps to table axis and all other axes, effective lubrication provides longevity of the equipment.



		TGH - B 450 (M)		
Work Table	Table Size	mm	450 x 850	
	Magnetic Table Size	mm	400 x 800	
	Max. Grinding Length (Longitudinal)	mm	900	
	Max. Grinding Width (Cross)	mm	450	
	Max. Distance from Spindle Center to Table Surface	mm	550	
	Table Guideway		V & Flat Guideway	
	T-Slot Number/Size		1/14H7	
Ball Screws	Max. Safety Table Load	kg	400	
	Ball Screw for Vertical Feed	mm	C3 25	
Traverses Axis	Ball Screw for Cross Feed	mm	C6 25	
	Rapid Power (Up/Down)	mm/min	6000	
	Rapid Power Cross Feed	mm/min	6000	
	Min. Feeding Setting	mm	0,001	
	Table Speed Approx	Longitudinal	m/min	5~25
		Cross	mm	0,05~20
	Automatic Feed	Vertical	mm	0,001
Motors	AC Spindle Motor Power	kW	4	
	AC Spindle Motor Speed	rpm	1450	
	Servo Motor Power for Vertical Movement	kW	0,7	
	Servo Motor Speed for Vertical Movement	rpm	3000	
	Servo Motor Torque for Vertical Movement	N-m	2,4	
	Servo Motor Power for Cross Movement	kW	0,7	
	Servo Motor Speed for Cross Movement	rpm	3000	
	Servo Motor Torque for Cross Movement	N-m	2,4	
	AC Motor Power for Longitudinal Movement	kW	2,2	
	AC Motor Speed for Longitudinal Movement	rpm	1450	
AC Lubrication Pump Motor Power	kW	0.025 kw - 0.020 kw		
Grinding Wheel	Frequency Converter Type		F-F840	
	Speed	rpm	100-1450	
	Max. Speed	rpm	1450	
Power Requirement	Dimensions(Outer Diameter/ Inner Diameter/Thickness)	mm	Ø350xØ127x40	
	Electrical Connection Power Requirement	kVA	20	
Machine Dimensions	Length	mm	3280	
	Width	mm	2750	
	Height	mm	2390	
	Weight	kg	3700	
Coolant System Capacity (Motor, Pressure & Flow)	Coolant Pump Power (Pressure)	kW-(bar)	0,09	
	Coolant Tank Capacity	liter	70	
Hydraulic System Capacity (Motor, Pressure & Flow)	Hydraulic Pump Power (Pressure)	kW-(bar)	2,2	
	Hydraulic Tank Capacity	liter	70	
Control Unit	NC System		Mitsubishi-FX5U	
	Display		10" Color LCD Touchscreen	

*Values stated in the table are subject to change depending on machine revisions and improvements.

After Sales Services

Fast Service and Spare Part Delivery

Dener Makina responds to service requests as quickly as possible to ensure production continuity. All service and parts needs received from our customers are systematically evaluated and processed by our experienced customer representatives. From the moment a malfunction is reported, the response process is meticulously managed. Our field teams are quickly deployed, minimizing production interruptions.

Our spare parts inventory management is fully aligned with our machinery. By constantly maintaining critical parts in stock, we offer our customers fast and reliable parts supply. This prevents time loss during service interventions and ensures the uninterrupted operation of your machines.



R&D Service Backup

Dener Makina's R&D center actively works to develop service solutions tailored to customer needs. Based on feedback from field experience, existing machines are updated with software and hardware, and new functions are integrated. This allows the machines to easily adapt to changing production needs.

Technical requirements, particularly those encountered in production for specific processes and sectors, are analyzed by our engineering departments and solution-focused projects are developed.

This allows user-specific machines to be optimized for high efficiency. This R&D-supported approach is key to Dener's success.



Remote and Digital Support

Thanks to our remote access system integrated into our digital infrastructure, our machines can be accessed from anywhere in the world. This system allows software updates, error analysis, and setting checks to be performed instantly. In cases where urgent technical support is required, rapid solutions are provided before physical intervention, resulting in time and cost savings.

Our remote access support service is designed to be compatible with all our machine models. Being available to our customers whenever they need it is the cornerstone of our service approach. This digital support system increases efficiency, minimizes downtime, and ensures uninterrupted production."



Our Product

Sheet Metal Machines



Hydraulic Press Brake



Hybrid Press Brake



Servo Electrical Press Brake



Ball - Screw Press Brake



Panel Bender



CNC Hydraulic Shear



NC Hydraulic Shear



Gantry Fiber Laser Cutting Machine



Tube Profile Fiber Laser Cutting Machine

Milling Machines



5 Axis Milling Center



Double Column Milling Center



CNC Vertical Milling Machine



CNC Lathe



NC Grinding Machine

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Dener Makina A.Ş. reserves the right to modify catalog information and machine specifications without obligation to notify.

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