CHETO®

CNC DEEP HOLE DRILLING WITH MILLING

www.cheto.eu

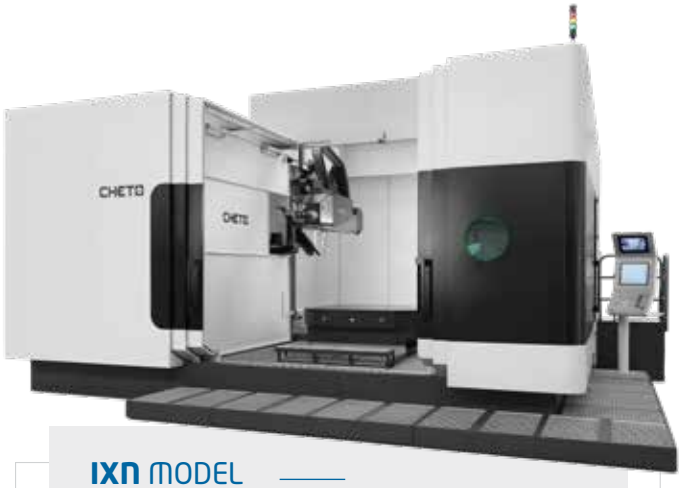
DB Series 6 Axes

OUR PRODUCTS & DESIGN

INL MODEL

BTA / GUNDRILL

up to **3** Axes



IXN MODEL

1000 / 2000 / 3000 / 4000

6 & **7** Axes

PWN MODEL

1000 / 2000 / 3000

5 Axes

CSHI MODEL

Versions 4.0 / 9.0

SiC MODEL

650 / 1000 / 1000 HD

6 Axes with Gun Drill Arm

- Efficient **Deep Hole Drilling** with **Milling** for **Small Size Parts**
- Working **5 Faces** on a **Single Setup**
- **3+2 milling / 5 axes**
- **No Angle Limitation**

CE

Registered Design

Location

CHETO TECHNOLOGICAL CENTER:

Área de Acolhimento Empresarial
UI-Loureiro, Lotes 13-21
3720-070 Loureiro, Oliveira de Azeméis
Portugal
GPS. 40°48'00.5"N | 8°30'35.3"W

CONTACT US

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WORLDWIDE PRESENCE

DEEP SOLUTIONS

INNOVATIVE CONCEPT
TO OPTIMIZE
DEEP HOLE DRILLING,
STANDARD DRILLING
AND MILLING

PME líder

PME excelência'16

inovadora'21

CHETO®

CNC DEEP HOLE DRILLING WITH MILLING

INNOVATIVE
machine tools

CHETO was officially established in 2009, when the founders started a project to fully develop a deep hole drilling and milling machine-tool up to 7-axis, specialized for the mold making and energy industry.

Since then, a continuous improvement and investigation allowed CHETO to offer the market a versatile product with high levels of accuracy and reliability.

This concept quickly positioned CHETO as a world-renowned brand. With machines sold in four continents, it is our goal to keep improving and innovating, to offer a highly competitive and value-creating product.

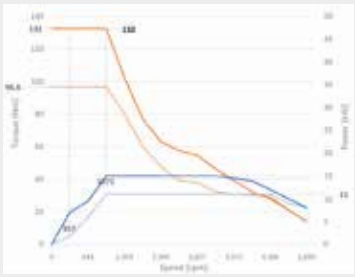
Milling Configuration


Deep Hole Drilling Configuration

	DBA		DBB	
CNC Axis				
W drilling stroke	1500 mm	59.0 in	1500 mm	59.0 in
X longitudinal travel	1250 / 1800 mm	49.2 / 70.9 in	1250 / 1800 mm	49.2 / 70.9 in
Y vertical travel	900 mm	35.4 in	900 mm	35.4 in
Z cross travel	800 mm	31.5 in	800 mm	31.5 in
B table rotation	360,000		360,000	
A tilting rotation	+25°/-15°			
Drilling capacity				
Max. drilling stroke W+Z	1500+800 mm	61.0+31.5 in	1500+800 mm	61.0+31.5 in
Drilling capacity	Ø4-30 mm	Ø0.16-1.18 mm	Ø4-30 mm	Ø0.16-1.18 mm
Milling capacity				
Milling	250 cm³/min	15.3 in³/min	250 cm³/min	15.3 in³/min
Rigid tapping	M20		M20	
Helical threading	Standard		Standard	
Spindle*				
Spindle taper	ISO50 / BT50 / CAT50		ISO50 / BT50 / CAT50	
Speed	0-6000 rpm		0-6000 rpm	
Power	11 kW	14.8 hp	11 kW	14.8 hp
Torque	96/132 Nm	70.8/97.4 ft-lbs	96/132 Nm	70.8/97.4 ft-lbs
Automatic rotary table				
Table size	1000x1000 mm	39.4x39.4 in	1000x1000 mm	39.4x39.4 in
Resolution	0,001°		0,001°	
Max. load in rotation	6 Ton	13,228 lbs	6 Ton	13,228 lbs
Layout dimensions				
Total weight	21 Ton	46.297 lbs	20.5 Ton	45.195 lbs
Foot print (WxL)	5993x6455 mm	235.9x254.1 in	5993x6455 mm	235.9x254.1 in

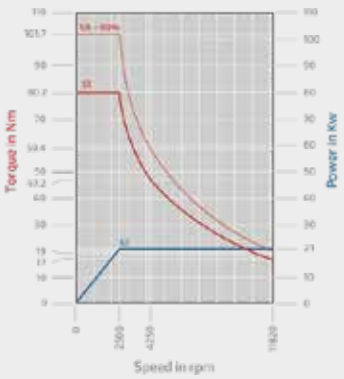
ISO50 / BT50 / CAT50

Spindle Power / Torque Diagram



*HSK63 (optional)

High Speed Spindle
Power / Torque Diagram



Subject to technical change without notice

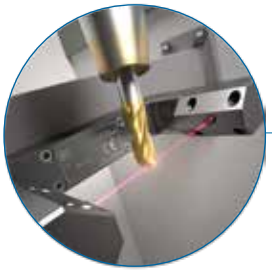
DB Series 1250 | 1800

— 6 AXES

STANDARD EQUIPMENT

- CNC HEIDENHAIN TNC 640
- CNC FAGOR 8065 as optional equipment
- Electronic handwheel
- Digital drives
- Encoders in linear axis X, Y, and Z
- Angular encoders in rotating axis A and B
- Positioning table with continuous movement controlled with servo motor
- 3+2 milling / 5 axes
- External status led indication
- High-pressure pump up to 90 bar, 70 l/min | 1,305 psi, 18.5 gal/min
- Machine prepared to use emulsion or oil
- Coolant tank with automatic filtering
- Pumps for oil recirculation
- Automatic chip conveyor
- Quick change between drilling/milling
- Rigid tapping
- Complete cover with doors
- Spindle HSK63 (11.620rpm) as optional equipment
- ATC 40/80 tools, L=600 mm | 23.6 in for Spindle HSK63 as optional equipment
- ATC 32/50 tools, L=600 mm | 23.6 in for Spindle ISO50/BT50/CAT50 as optional equipment

DB OPTIONAL EQUIPMENT*



*LASER MEASURING SYSTEM
BLUM LC50

*ELECTRIC PROBE
BLUM TC60

*TOOL CABINET

*CHETO RE100
GUNDRILL GRINDER Ø5-32 MM | Ø0.2-1.26 in

WISE SYSTEM

TWO CONTROL OPTIONS

INTERFACE REQUIREMENTS

- HEIDENHAIN TNC 640
- SIEMENS SINUMERIK ONE
- FAGOR CNC 8065

END OF EXTRAORDINARY COSTS

ADAPT MACHINING PARAMETERS ONLINE

- Spindle torque
- Feed
- Coolant pressure
- Coolant flow
- Vibration

INTERSECTION

The system automatically detects intersections in the process and sets the parameters accordingly to keep the quality of the operation and to protect the tool lifetime.

PROCESS

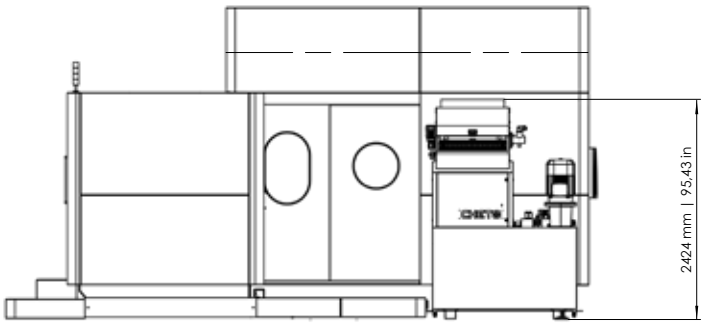
The system detects variations of the efforts of the process and automatically adjust the drilling parameters online to keep a continuous process.

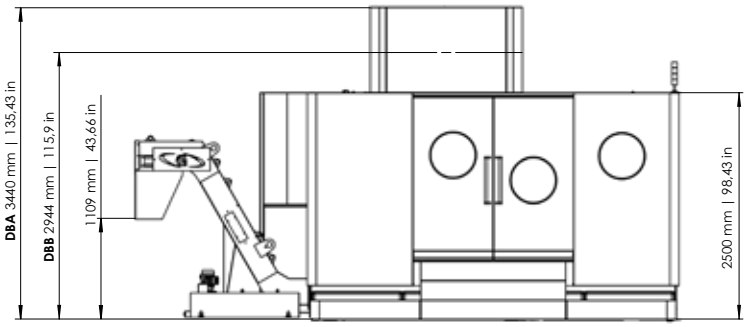
PATENTED

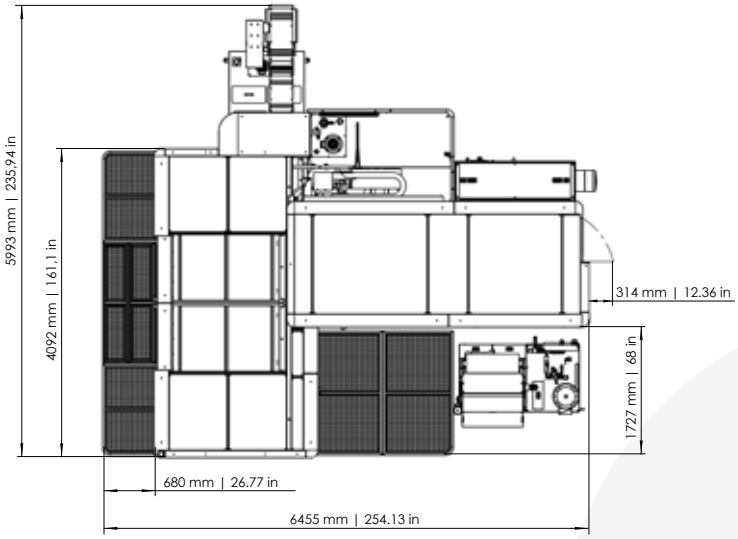
END OF EXTRAORDINARY COSTS OF NONCONFORMANCE

The diversity of operations, the lack of raw materials homogeneity, the deficient parameter settings, and intersection holes often lead to the reduction of the tool lifetime. As hole intersections are a constant matter on mold making, and considering the difficulty of these operations, it´s common to have problems on final results as unexpected hole drifts, premature tool wear or tool break.

FOOT PRINT DB Series







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en.V2.2025

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