# CHETE:

CNC DEEP HOLE DRILLING WITH MILLING

www.cheto.eu

SiC Series 6 Axes



## **OUR PRODUCTS & DESIGN**







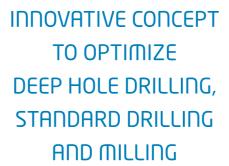
## Location

GPS. 40°48′00.5″N | 8°30′35.3″W

E. info@cheto.eu



**WORLDWIDE PRESENCE** 



















### 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.









#### **CNC Axis**

W drilling stroke
X longitudinal travel
Y' vertical travel
Z cross travel
B table rotation
A table tilting rotation

### **Drilling capacity**

Drilling capacity

#### Milling capacity

Milling Rigid tapping Helical threading

#### **Spindle**

Spindle taper
Speed
Power

Torque

#### **Automatic rotary table**

Table size

Positioning type

Max. load in rotation

#### Layout dimensions

Total weight
Foot print (WxL)

#### **SiC**650

1100 mm 43.4 in 650 mm 25.6 in 840 mm 33.1 in 500 mm 19.7 in

360,000 +90°/-45°

ø3-25 mm ø0.1-1.0 in

250 cm3/min 15.3 in³/min 3/8""

Standard

HSK-A63 / BTT 40 0-11,820 rpm

21/26kW 28/35 hp 80.2/101.7 Nm 59/75 ft-lbs

500x500 mm 20x20 in 360,000

750 kg / 600 kg 1653 lbs / 1323 lbs

t 13 To

13 Ton 28,660 lbs 6840x2901 mm 267.3x124.4 in

#### **SiC**1000

1400 mm 55.1 in 1200 mm 47.2 in 1100 mm 43.3 in 700 mm 27.6 in 360,000 +110°/-45°

ø3-32 mm ø0.1-1.3 in

450 cm3/min 27.5 in³/min M20 3/4""

HSK-A100 / SK 50 BIG + / BTT 50 0-12,000 rpm

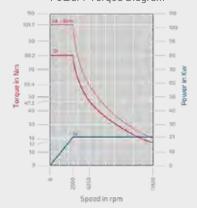
45 / 49.5 kW 60.3 / 66.4 hp 285 / 315 Nm 210.2 / 232.3 ft-lbs

ø800 mm 31x31 in 360,000 1200 kg / 925 kg 2646 lbs / 2039 lbs

20 Ton 44092 lbs 8216x4555 mm 323.5x179.3 in

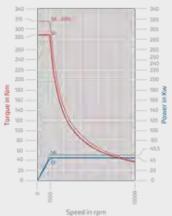
#### **SiC**650

Power / Torque Diagram



#### **SiC**1000

Power / Torque Diagram



Subject to technical change without notice

# SIC Small Indexable CHETO

— 6 AXES

6 Axes with Gun Drill Arm



#### 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

- ATC 60 tools, L=600 mm | 23.6 in
- High-pressure pump up to 100 bar, 75 l/min | 1,450 psi, 19.5 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

# SIC OPTIONAL EQUIPMENT



#### TABLE WITH CLAMPING SYSTEM **AUTOMATIC DOOR**

LASER MEASURING SYSTEM BLUM NT MC A7-2 **ELECTRONIC PROBE** BLUM TC60



#### CHILLER FOR OIL/EMULSION

AIR CLEANING UNIT









#### 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.

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



INTERFACE REQUIREMENTS HEIDENHAIN TNC 640

SIEMENS SINUMERIK 840

**FAGOR** CDC 8065





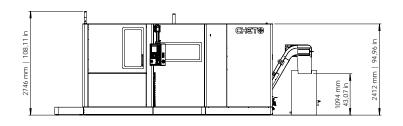


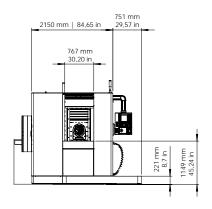


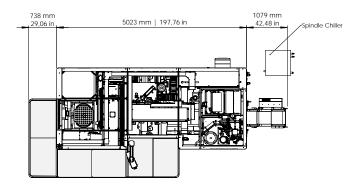
#### **END OF EXTRAORDINARY COSTS OF NONCONFORMANCE**

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.

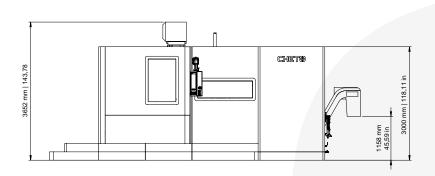
## **FOOT PRINT SIC** 650

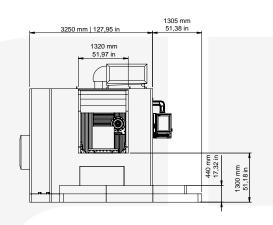


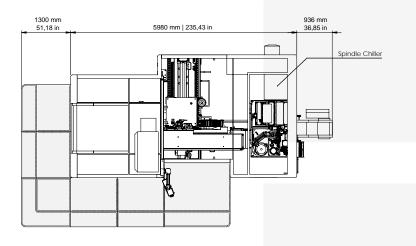


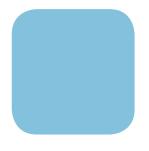


## **FOOT PRINT SIC 1000**









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## CHETO

### CHETOCORPORATION, S.A.

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