

CMX 70 U



Highlights

- _ **3D control technology with the new DMG MORI SLIMline® multi-touch control**
(19" / Operate on SIEMENS 840D SL or HEIDENHAIN TNC 620)
- _ **Swivel Rotary Table with digital drives**, machining the workpiece from five sides in one clamping
- _ **Standard inline Spindel, opt. inlineMASTER® up to 15.000 rpm & 36 months warranty**
- _ **Tool magazine 30 pos.** with double gripper as standard, optional up to 60 position
- _ **Rigidity, stability of the body** – mineral bed, small space requirements due to compact design
- _ **DMG MORI IoTconnector included in standard!**
- _ **Possibility of integrate automation with DMG MORI automation solutions**

DMG MORI CMX 70 U

Machine and Options

Basic machine

Universal Milling Centre
CMX 70 U

C-A3407F* 1

Axes travel:
X / Y / Z – 750 / 600 / 520 mm

Standard Equipment:

1. Table D 800x620
Swivel Rotary Table powered B/C Axes
Rotary range B (-10°/+95°) / C (360°)
2. Rapid Feed Linear Axes 30 m/min
3. Spindle speed range 20 to 12.000 rpm
4. AC main drive: 13/9 kW (40/100% DC)
5. Tool taper SK40 DIN 69871
Tool Clamping according to DIN69872
6. Tool Magazine 30 Places, chain with pockets
and
with double gripper
7. Direct Measuring System X, Y, Z
inclusive air purge for measuring system
8. Coolant Air-Blast Changeover
external switchable via M-Function
9. Chip tank
10. DMG MORI IoTconnector

Control

DMG MORI SLIMline® Multi-Touch control
(19" / HEIDENHAIN TNC 620)

C-B3098F* 1

Packages

Production Package 20 bar with chip conveyor C-K3649F* 1

Option includes:

- Internal coolant supply 20 bar
- Chip conveyor (scraper type) with tank capacity: 300 l (left)
- Bed and ATC arm flushing via M-Function
- Coolant spray gun for swarf removal
- External electronic handwheel
- Cabin roof
- Signal lamp with 4 colours
- Double cartridge filter for coolant

Note:

1. When one filter is stuck, operator can manually switch

the coolant flow to the second one and clean or change

the plugged filter without stopping the machine.

2. Additionally to this option: Oil- and Emulsion Mist

Separator is especially recommended.

3. Also recommended: option RotoClear view window

and automatic magazine shutter (instead of brushes) -

especially for production conditions with small / fine chips.

Tool magazine

Tool Magazine 60 places SK40 C-M3013F* 1

Option includes:

- Tool magazine 60 places with double gripper; chain type, servo drive
- Tool (Un-) Loading through Magazine Door during AUTO Mode
- Tool magazine door
- Automatic magazine shutter (instead of brushes)
- Buttons for magazine rotation

Note:

Tool magazine 60 places has an impact on machine

dimensions and parameters.

All details and transport costs should be clarified with

the factory directly.

Coolant supply / chip removal

Preparation for Oil-Mist Extractor Unit C-K3443F 1
Option includes only mechanical preparation
Opening diameter: D150 mm

Measuring / Monitoring

Renishaw Touch Probe-Kit for HEIDENHAIN C-K4227F 1
control
Option includes:
- PP40 Touch probe with optical signal
transmission
- TS27R Probe for tool measurement
- measuring cycles with tool breakage monitoring
- calibration tool
- calibration ring
- case for equipment

Note:
Additionally to this option direct measuring
system
is recommended.

Machine Preparation for use of the C-K2531F 1
3D quickSET toolkit for CMX U.
Option includes software for 3D quickSET for one
machine

Note:
Only with option touch probe

General options

PROTime C-B3027F 1
Electronic display
Display functions:
- Remaining machining time
- Remaining parts to be produced
- Machine status

Documentation

Documentation-1 hungarian C-HU1 1

Screen text language

Screen text hungarian C-D-HU 1

DMG MORI Connectivity

Digital Manufacturing Package (1) IoTconnector

D-CO200* 1

Allows the use of the Online services from DMG MORI

(2) Machine Data Connector (MDC)

Standardized machine data interface
Protocols: OPCUA, MTConnect, MQTT

(3) NETservice

Qualified support through internet-based remote diagnosis

DMG MORI Monitoring

Messenger V4

D-MO002* 1

Clear presentation of the machine live status.

Services

General options and services

Machine 3D model in STEP format for integration into customer CAD/CAM system for machine simulation
(Delivery upon signature of confidentiality agreement)

C-R3010F 1