

DMG I60 FD S840D

Machine tool support kit for NX CAM and CAM Express

fact sheet

Siemens PLM Software

www.siemens.com/nx

► Summary

A machine tool support kit is a package consisting of post-processor, simulation driver, machine tool model, CAM templates, documentation, etc. that enables out of the box post-processing and simulation for a specific machine tool using NX™ CAM or CAM Express software and ISV software. This machine tool support kit is tailored for the DMG DMU I60 FD Series 5 axes head table milling machine tool with the Siemens 840D Controller.

Content of the machine tool support kit:

- Post-processor
- Machine tool driver for simulation
- Schematic 3D machine tool model
- Machine specific NX CAM template
- Machine specific NX CAM UDE's
- Example data (part, setup, operations)
- Documentation (installation, usage)
- Installation routine (only for Microsoft Windows)

Supported software version

- NX 5

Prerequisites

- NX CAM Base
- NX Post Exec
- ISV – Adv. Simulation

These prerequisites are for example met with the MACH 2, 3 and 4 bundles of NX.

Technology used

- Post-processor: TCL based
- Simulation driver: TCL based
- Simulation support for external NC-Programs (programs containing the same syntax as the programs generated by this machine kit)

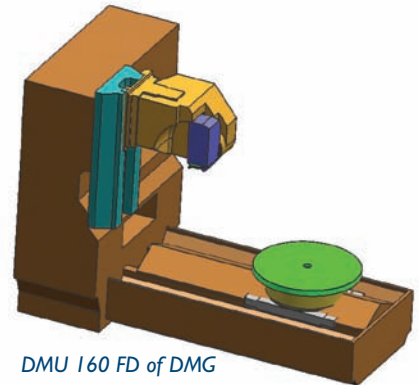
Supported machine tool configuration (requires customization)

- DMG DMU I60 FD S840D

Unit

- Metric

The supported units influence: post-processor output, simulation driver, contained NX part files.



Supported capabilities

Turning processes – highlights (not all inclusive)

- A-axis turning at A-angle 0 and -90 degrees

Canned drilling cycles for live rotary tools

- Coordinate system rotation support (CYCLE800)

AC-axis milling

- 5 axis positioning (3+2) coordinate system rotation support (CYCLE800)
- 5 axis simultaneous (Traoti)

Preparatory G-code support list

G0	Rapid move
G1	Linear move
G2/G3	Circular move clw / cclw
G4 F	Delay time (not in cycle mode)
G40/41/42	Cutter compensation (valid for milling tools)
G54-G59 G505-G599	MCS fixture offset value

Preparatory G-code canned cycle support

CYCLE81	Axial Z drill cycle
CYCLE82	Axial Z drill dwell cycle
CYCLE83	Axial Z drill deep cycle
CYCLE84	Axial Z tapping
CYCLE85	Axial Z bore cycle

Miscellaneous M-code support list

Process/method allocation master codes

M0	UDE stop	
M1	UDE opstop	
M30	End of program	
M3	Spindle on	CLW
M4	Spindle on	CCLW
M5	Spindle off	Off
M6	Tool change	
M13	Spindle on	CLW
M14	Spindle on	CCLW
M7 H30=1	UDE coolant on	
M7 H30=2	UDE coolant on	
M8	UDE coolant on	
M8 M7 H30=1 UDE	Coolant on	
M8 M7 H30=2 UDE	Coolant on	
M9	UDE coolant off	

Contact

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