

DMU 340 FD (new)



Designmuster - Änderungen vorbehalten!
Design example - Subject to alteration!

Highlights

- _ **Milling and turning in one setup** with the DirectDrive table and **rotational speeds up to 120 rpm**
- _ **Electronic balancing sensor**
- _ **2 possibilities of the 5 axes simultaneous processing** :
NC-rotary table with controlled **B-axis** or **A-axis**.
- _ **Thermo-symmetrical construction**, as well as **3-point support** for quick installation
- _ **Gantry design** with **vertically traversable crossbeam** with **hydraulic weight compensation** for **high precision and dynamics**
- _ **Feed and rapid traverse up to 60 m/min** and machining of **workpieces of up to 7 t**



DECKEL MAHO DMU 340 FD (new)

Basic machine

P-A0411 DMU 340 FD
Universal Milling and Turning Machine
3,400 mm x 3,400 mm x 1,600 mm (X,Y,Z)/
133.8 in x 133.8 in x 63 in (X,Y,Z)
Main drive: Motor spindle 10,000 rpm
44 kW / 59 hp (40% duty cycle);
32 kW / 43 hp (100% duty cycle)
Spindle taper HSK-A 100 to DIN 69893
Universal milling head with controlled
B-axis
Tool changer vertical with
double gripper, chain magazine
60 magazine pockets HSK-A 100
NC mill-turn table
d 2,500 mm / d 98.4 in
Coolant tank 2,500 l / 660 gallon
Internal coolant supply 40 bar / 580 psi
through spindle centre (AD)
Chip conveyor
Rotating clear-view window
Electronic handwheel
3D CNC control

Control

P-B0067 3D control Siemens 840D
solutionline FD operate

Options working table

P-W0265 1 set (4 pcs) chuck jaws
manually adjustable
Clamping power 64 KN / 14,387 lbs

Main drive

P-W0350 Main drive:
Integrated motor spindle HSK-A 100
Spindle speed max. 12,000 rpm
52 kW / 430 Nm (40% ED)
69.8 hp / 317 ft lbs (40 % duty cycle)

Tool magazine

P-D0029 Tool magazine
chain magazine horizontal with
120 magazine pockets HSK-A 100

Automation / Measuring / Monitoring

- P-K0223 Infrared measuring probe
Type Renishaw PP60 optical (OMP 60)
HSK-A 100
- P-K0294 Combination tool measuring in machining area
Maker Blum LaserControl NT-H 3D
laser-system for milling tools
3D touch-probe for turning tools
automatic retraction of measuring device
in a protective housing
- P-K0135 Tool breakage control HSK-A
100 mechanical version
- P-K0224 3D quickSET
Tool kit for control and compensation
of the cinematic accuracy of
4 / 5 axis machine configurations
(only together with option
measuring probe)
- P-K0095 Tool identification
(Tool Dialogue System TDS)
Type Balluff, data carrier BIS C-122
Reading/Writing manually, without contact
with a chip for spindle taper HSK-A 100
- P-K0376 MPC Machine Protection Control
Machine protection by quick shutdown
- P-K0196 Signal lamp with 4 colours
red: general error
yellow: intervention required
green: machine in automatic operation
blue: machine in set-up operation

Cooling media / chip removal

- P-K0173 2 pressure steps for internal coolant supply
40 bar/23 l/min / 580 psi/6 gallon/min
80 bar/15 l/min / 1,160 psi/3.9 gallon/min
(theoretical pump performance)
selected with NC program
- P-K0410 Coolant temperature control for internal
coolant supply 2,500 lt / 660 gallon
Heating power max.: 3,000 W / 4 hp
Cooling power max.: 9,000 W / 12 hp
- P-G0004 Spray pistol with pump
1 bar/40 l/min
14.5 psi/10.4 gallon/min
(theoretical pump performance)



P-G0075 Scraper flight conveyor, worm conveyor exclusively for short-chipping materials (no standard chip conveyor and push rod conveyor for long-chipping materials)

Options for SIEMENS control

P-H0103 3D-machining, 3D-tool compensation with vector to the surface

P-H0106 MCIS_TDI Tool management (Module TDI_Machine) comprises: Overview, Toolhandling and Planning

P-H0127 Application Tuning Cycle ATC programmable feed parameter selection for machining task: accuracy/surface/speed

P-L0050 Safety package for power failure: Voltage control with fast deceleration trigger Uninterrupted Power Supply (UPS) for control Display of last executed program number

P-H0123 Interpolation turning Turning-recessing cycle Manufacture of simple sealing surfaces and grooves using

General options

P-T0006 1 set of lubricants

P-G0123 Package for tropical climate for ambient temperature of max. 50° Celsius at machine location

Documentation

P-D1-D Documentation 1 German

P-D2-GB Documentation 2 English

P-Z0032 Machine documentation on CD-ROM operating instructions, programming instructions (Language as selected documentation)



P-DZ-GB Extra documentation Englisch
1 set operating instructions
and programming instructions

P-EP-GB Electric circuit diagram English

Screen Text Language

P-D-D Screen display German

Special constructions

SK001 Swarf Bin (Model 500)

DMG Powertools

D-NT401 **DMG Netservice - client**
Green light for your machine
Will be installed on an external PC!

D-SA300 **DMG Service Agent**
Warning in advance - Service on time

DMG SMARTkey

D-KEY02 DMG SMARTkey - Milling package

D-KEY03 DMG Masterkey - replaces key switch

D-KEY05 DMG SMARTkey - Milling package
"Next Generation" (incl. USB stick)

Services machine

P-Q0103 Installation 3D quickSET at customer's site
Traveling and accommodation:
on request

Service technology supplier

P-R0006 3D data model in STEP format for
integration in a CAD system by the
customer. It is used for machine
simulation.
(Data basis in component structure)

Services DMG Service

P-Y0904 Extended warranty of 6 months or 1500 hours
machine power-on time

DMG Powertools commissioning

D-IB003 DMG Service Agent - Starting up