

Pos.	Order No.	Quantity	Name
1	051126	1	DMP 35

Basic Machine Data

High dynamic Vertical Drill-Tap centre with best milling performance

Manufacturer **DECKEL MAHO**
Year of manufacturing **2021**
Status **1 Demo**

Control

Name **3D-control Siemens 840D sl Operate**
Manufacturer **Siemens**
Kind/Type **3D-Control**
Detail description **19" screen**





similar to picture

Technical details

Working area 1

Longitudinal	350 mm
Cross	420 mm
Vertical	380 mm

Technical Data

Feed rate longitudinal/transverse/vertical	60000/60000/60000 mm/min
Rapid traverse longitudinal/transverse/vertical	60/60/60 m/min

Equipment

Full cabin with inboard sliding doors including cabin roof

Direct Measuring system X,Y,Z

Integrated swivel rotary table simultaneous

Integrated swivel rotary table
DMP 35 version
5-Axis simultaneous mode!
Torque drives incl. direct measuring
in A- and C-Axis
Swivel range A-Axis -120 / + 100 degrees
Max. load C-axis 100kg
Table diameter C-Axis d290mm
Rotary joint, 4-channels
Inclusive Software package
Sinumerik Mdynamics 5-axis

Clamping pneumatic, one circuit

Clamping hydraulic, two circuits

Clamping hydraulic 2-circuit
30-240 bar manual adjustable
Safety regulations according to EN 13857
must be observed.

Tool magazine 25 places

Tool magazine 25 places
(suitable for inclusion in the tool spindle)
Max. tool length 150 mm
Chip-to-chip time 1.6 sec
Note: machine width increases to 1410 mm!

Spindle speed 24,000 rpm

Spindle 24,000rpm
with tool taper ISO 7388-2 - J30
BT30 / BBT 30 (BIG PLUS) possible
for pull-studs ISO 7388-3 - JD30
(MAS 403-45°)
at spindlespeed higher than 20.000 rpm
BBT 30 (BIG PLUS) stipulated!
AC-Motor 20 / 4 KW (max. / 100% ED)
Watercooling Spindle and Spindle motor
via heat exchanger (fan)

Production package band filter ICS 40bar

Production package
Paper band filter ICS 40bar includes:
Paper band filter 40bar/ 23l/min
Additional tank 600l
Chip conveyor useable for fine chips
(self cleaning slotted filter)
Discharge height: 600mm; Tank volume
200 L (DMP 70) // 170 L (DMP 35)
Flushing in working room
Spray gun for swarf removal
mech. prep. for Oil- and emulsion mist separator
Tool cone cleaning function via 2 additional
nozzles at spindle stock.
Magazine exchange pocket cleaning function

Air blast through spindle centre

Air blast through spindle center via
M-Command;
maintained air with small Oil portion
Due to needed lead through in main
spindle only with swarf removal package
ICS possible!

Oil and emulsion mist separator

Oil and emulsion mist separator
Mechanical filter
Throughput volume 1,100 m³/h

Rotating clear-view window

BLUM Precision package

Blum Precision package
suitable to milling spindle including:
Touch probe TC-52 Infrared
Tool length and diameter measuring BLUM LC50
automatically cleaning through external airblast
Calibration tool with taper
Measuring cycles

3D Quick SET

3D quickSET
Tool kit for control and compensation
of the cinematic accuracy of
5 axis machine configurations
(only with option touch probe)

Signal lamp 4-colour

Signal lamp, 4 colours

Standard Automation Interface right

Automation interface right according to DECKEL MAHO Standard consisting of:
Interface (Profibus) via M65;
Automatic loading door right;
Working table with 6-channel rotary joint;
4-channel energy supply to machine table for (3-Axis-Machines)

Manual control panel**10 free M-functions for Siemens**

Free M-Codes (M180-M189)
for Siemens 840D potential-free on contacts
inside electrical cabinet

ATC (Application Tuning Cycle)

ATC (Application Tuning Cycle)
programmable feed parameter selection
for machining task:
accuracy/surface/speed

3D data model

3D data model in STEP format for
integration in CAD System by the
customer. It is used for machine
simulation.
(shipping against signed non disclosure
agreement)

Accessories (internal handling) - RMS Sensor**Digital Manufacturing Package**

Digital Manufacturing Package
(1) IoTconnector
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

Service Agent

Service Agent
Overview of all maintenance work
on the machine

Special equipment

SK001exhibition executionSK002Booster for clamping pneumatics to 8,5 bar

Special equipment

SK003
Oil pack for Motorex Ortho NF- X15

SK004

Machine side preparation for Fire extinguishing system Siemens Sinorex al-deco plus

Workpiece loading & unloading system WH 3 CELL

Workpiece loading & unloading system WH 3 CELL
with 6-axis industrial robots and
workpiece carrier storing system (paternoster);
maximum possible workpiece weight of 3 kg,
maximum workpiece size 100 x 100 x 50 mm
Robot FANUC LR Mate 200 iD/7L
PROFIBUS interface on the automation side;
Parameterizable handling procedure
for one workpiece clamping;
Signal lamp 4-colours,

WH 3 CELL Integration kit for DMP 35/70

WH 3 CELL Integration kit for DMP 35/70
Machine-specific adaptation for the
protective housing on one DMP 35/70

Dual gripper PGN 80 (without gripper fingers)

Dual gripper Type Schunk PGN 80
with 8 mm travel per jaw
(gripper fingers not included!)

Workpiece carrier standard

Workpiece carrier standard - plastic
15 Workpiece carrier 600x400
(workpiece specified inlay's not include)

SPC drawer

SPC drawer (only to be removed)
Output of a trial workpiece
for process control

Turning station (without gripper/gripper fingers)

Turning station with
preparation gripping module PGN 64/80
and rotary module 0° / 180°
(gripper and gripper fingers not included!)

Not OK discharge via slide

Not OK discharge via slide
Removal of bad parts
after machine signal

Robot Teachset

Robot Teachset for the new creation
of workpieces / workpiece carriers
as well as for the basic adjustment
of the robot and / or gripper.

Additional magazine for DMP at WH3

Additional magazine for DMP at WH3
Tool magazine with 45 places
for BT30 / BBT30 tools
Max. tool length: 130mm
max. tool diameter: 70mm
incl. gripper change function

Special equipment

SK003- External battery compartment
SK004- Drip tray

Special equipment

Robot in calci white
Electric pallet pusher