

Complete machine description

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| 1 | 1 | Completely refurbished
vertical CNC-machining centre model DZ 12 WM
Year of construction: 2001, weight: 4.200 kg | |
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Machine-No. 466-57

Scope of delivery:

Column moving machining centre with work piece changing equipment

Main spindle drive with AC-motor

5 kW at 100 %

9,5 kW at 25 %

Spindle speed range: 20 - 10.500 rpm - 60 Nm

Drilling capacity in steel 60

2 x \varnothing 25 mm (with insert drill)

Tapping capacity

2 x M 20

Milling capacity in steel 60

2 x 100 cm³/min.

Travel:

X-axis

300 mm

Y-axis

300 mm

Z-axis

425 with adjustable tool change level

Spindle distance in X-Axis

250 mm

Automatic tool changer

Tool places

2 x 12

Tool shaft

SK A 40 acc. DIN 68971 + 72

Tool- \varnothing

max. 65 mm

Tool- \varnothing

if adjacent places are free

max. 150 mm

Tool weight

max. 2,5 kg (5,0 kg on 2 places per spindle)

Tool change time approx.

0,9 s (depends on CNC)

Chip-to-chip-time approx.

2,4 s (depends on CNC)

Workpiece swivel table 0/180

Clamping surface 2 x 660 x 350 mm²

with thread and locating hole grids

M 16 x \varnothing 15 H7 x 50 mm

Workpiece change time approx. 2,9 s

Table loading capacity per side max. 100 kg (150 kg)



AC-servo motors for x-, y- and z-axes

digital direct drives with indirect absolute path measuring system
rapid traverse in all axes 40 m/min.

SIEMENS CNC-Steuerung 840D

(PCU 50.3 with 40 GB Sata Harddisk / NCU 572.5, 6 measuring cycles, 1 canal)
incl. 10,4" TFT colour LCD screen / full keyboard OP032S

Windows XP

NC-memory Min 3 MB Max 6 MB

for ISO 66025 programming

drilling cycles G81-G89

drilling and milling cycles

M- and T- functions

circular interpolation (360 degrees)

re-start into program

Subroutines, parameter programming

simultaneous programming

contour programming with cycle support

support through cycles

polar coordinates

tool offsets for geometry, wear

tool radius correction for

intersection computing

crossingradius

4 zero offsets G54-G57

30 zero shifts programmable with G-functions

3D and helical interpolation

screen switch off

mirror function

scaling function

insert of chamfer and radius

Universal interface RS 232C (2 x V24)

orientated spindlestop

drip feed function through V24 interface

dimension metric or inch

software limitswitch

NC-diagnosis

machine-diagnosis

absolute indirect path measurement systems

powermeter in screen

4 M-functions

8 additional M-functions – each time with a feedback

rigid tapping



Pos.	Qty.	Article Description	Price / €
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CMS Powersafe

Software package for selective shutdown of installed consumers such as axis motors, drives, spindles, coolant-pumps and auxiliary equipment during production breaks.

Definable point in time at which the machine goes demand-oriented automatically into it's Power Safe mode.

Working hours and piece counter

in the screen

Socket 230 V

at control panel

Machine enclosure

with sliding doors, electrically interlocked, 1800 mm high above floor, incl. machine lamp service friendly with removable side walls vertical bellows

Mini-operating panel

with start and receipt push buttons, for pallet recognition M61/M62

Installation elements

Wash gun

Central pneumatic supply

with 2 outlet couplings, without control

Chip conveyor (scratch band)

discharge height 850 mm with coolant unit tank capacity 300 l,

2 Machine preparation

for inside tool cooling trough spindle, acc. to DIN 69871 form A

incl. increase of the machine enclosure from 1800 mm to 2200 mm

Automatic loading door of total enclosure

opening and closing, incl. two-hand push buttons



Pos.	Qty.	Article Description	Price / €
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Coolant equipment KF 150 / KFA 500

(for cast iron slurry, Al with Si \geq 12%)
tank capacity 500 l,
pump capacity from 80 l/min at 3,0 bar
up to 100 l/min at 1,8 bar
high pressure pump capacity 20 l/min at 30 bar
coolant filtration for high pressure and flood coolant
with compact paper bond filter KF 150,
filtration 50 μ m nominal.
twin filter in the high pressure circuit for the protection of the machine.

2 x 4. Axes ready for plug-in

Automatic central grease lubrication

Machine colour

Two-components-structure varnish - 2 colours
light grey acc. to NCS S1502-B
basalt grey acc. to RAL 7012

Main circuit

total power supply 400 / 230V \pm 10 %, 50 cycles N/PE,
neutral conductor, load possible, pressure supply
6 bar, \pm 1 bar at all procedures,
room temperature max 40°

Information Export

We point out that the CNC-machining centres are subject
to controls. For the export from the European Union an export license
is necessary.

Information Machine safety

The machine is designed and built in accordance with the European
machine guideline, according placing the product on the first time
onto the market.

Other safety features due to special company rules and specifications
can be considered. The actual cost will be invoiced.



Information Coolant lubrication

The machine is designed for standard water soluble coolant and fully enclosed at the standard version. The machine must be equipped with fume extraction. The machine contents different plastics, varnish, resin and glue, which are selected carefully for using coolant and cutting oil.

The use of aggressive coolant and additive could cause major damages and machine stops. Contact in any case your coolant supplier before machine set-up and installation.

