

### Technical Datasheet

#### CNC – 5-Axis Machining Center

|              |                           |
|--------------|---------------------------|
| manufacturer | <b>DECKEL MAHO</b>        |
| type         | <b>DMC 125 U hi-dyn</b>   |
| control      | <b>HEIDENHAIN iTNC530</b> |
| built        | <b>2002</b>               |



#### Travels & working area

|                            |            |
|----------------------------|------------|
| Cross (X-Axis)             | 1.250 mm   |
| Table movement (Y-Axis)    | 880 mm     |
| Vertical movement (Z-Axis) | 800 mm     |
| Max. workpiece diameter    | Ø 1.250 mm |
| Max. workpiece height      | 1.230 mm   |

#### Feeds

|                              |                    |
|------------------------------|--------------------|
| X-, Y- und Z-Achse, stepless | 0 - 15.000 mm/min. |
| Feeds in X / Y / Z           | 40.000 mm/min      |

### NC- Rotary table

|                   |                |
|-------------------|----------------|
| Number of pallets | 2              |
| Pallet size       | 1.000 x 800 mm |
| Max. table load   | 1.000 kgs      |
| C-Axis            | 360 x 0,001 °  |

### Universal NC-Milling head with motor spindle

|                          |                   |                  |
|--------------------------|-------------------|------------------|
| B-Axis, Swivelling range | + 180 / -7 °      | stepless         |
| Resolution               | 0,001 °           |                  |
| Max. Power S3, 40 % ED   | 28 kW             |                  |
| Speed range, stepless    | 20 - 18.000 min-1 |                  |
| Tool clamping system     | HSK-63            | DIN 69893 Form A |

### Automatic tool changer

|             |           |
|-------------|-----------|
| Tool places | 60 places |
| Tool holder | HSK-A63   |

### Dimensions, weight

|                            |                       |
|----------------------------|-----------------------|
| Required space for machine | ca. 5,5 x 4,5 x 3,2 m |
| Machine weight             | approx. 15.000 kgs    |

### Connection data

|                         |           |
|-------------------------|-----------|
| Operation voltage       | 3 x 400 V |
| Operation frequency     | 50 Hz     |
| Total power consumption | 58 KVA    |

### Equipment / Accessories

Universal milling machine in a very sturdy design with NC rotary table, tool magazine and pallet changer, NC swiveling milling head (B-head) with 18,000 rpm motor spindle for 5-axis simultanes

- 3D CNC-control HEIDENHAIN iTNC530
- Spindle cone HSK 63 with internal coolant supply (IKZ)
- Direct distance measuring system (glass scales in all three axes)
- Operation mode 4
- 60-slot tool magazine with automatic changer
- 3D Measuring probe
- Chip conveyor
- Internal coolant supply 40 bar with belt filter system
- Rotation viewing disc
- Chip cleaning pistol
- Documentation
- Machine on: approx 76.500h, Operation hours: approx. 69.800h

Technical datasheet, CNC 5-Axis Machining Center DMG DMC125U hi-dyn

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