

TECHNICAL SPECIFICATION

EMCOMILL 750

Restyling 2018

3 AXIS VERTICAL MILLING CENTER



CE



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STRUCTURE CONCEPT:

EMCOMILL 750

EXCEEDINGLY ROBUST TRAVELLING COLUMN DESIGN

All components made out of cast iron and welded steel



CE



DIVISION:
DATE:

MILLING
08.04.2019

EMCOMILL 750
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MACHINE DESCRIPTION:

The EMCOMILL 750 is the ideal vertical milling center for 3 axis operation on parts with small or medium amount of production numbers. It is the perfect machine for job shops, industrial businesses (automobile vendors), general mechanical engineering companies and also for advanced education facilities. The new EMCOMILL 750 is capable to mill parts with an edge size of 750 x 610 x 500 mm in X, Y and Z.

Spindles:

The spindles characteristics is the high drive performance. The basic machine consists of a mechanical spindle 12.000 rpm, not continuous. With the option 15.000 rpm the machine gets a water cooled motor spindle.

Axes:

The axis are made with linear roller guides of 45mm in X and Y-axis, 35mm in the Z-axis. The ball screws are ISO class 3 and are ground up to a diameter of 40mm, and pitch of 20mm in X- and Y-axis, diameter 40mm and pitch of 10mm in the Z-axis, which is direct driven. The axis acceleration is up to 0,3g (3m/s²).

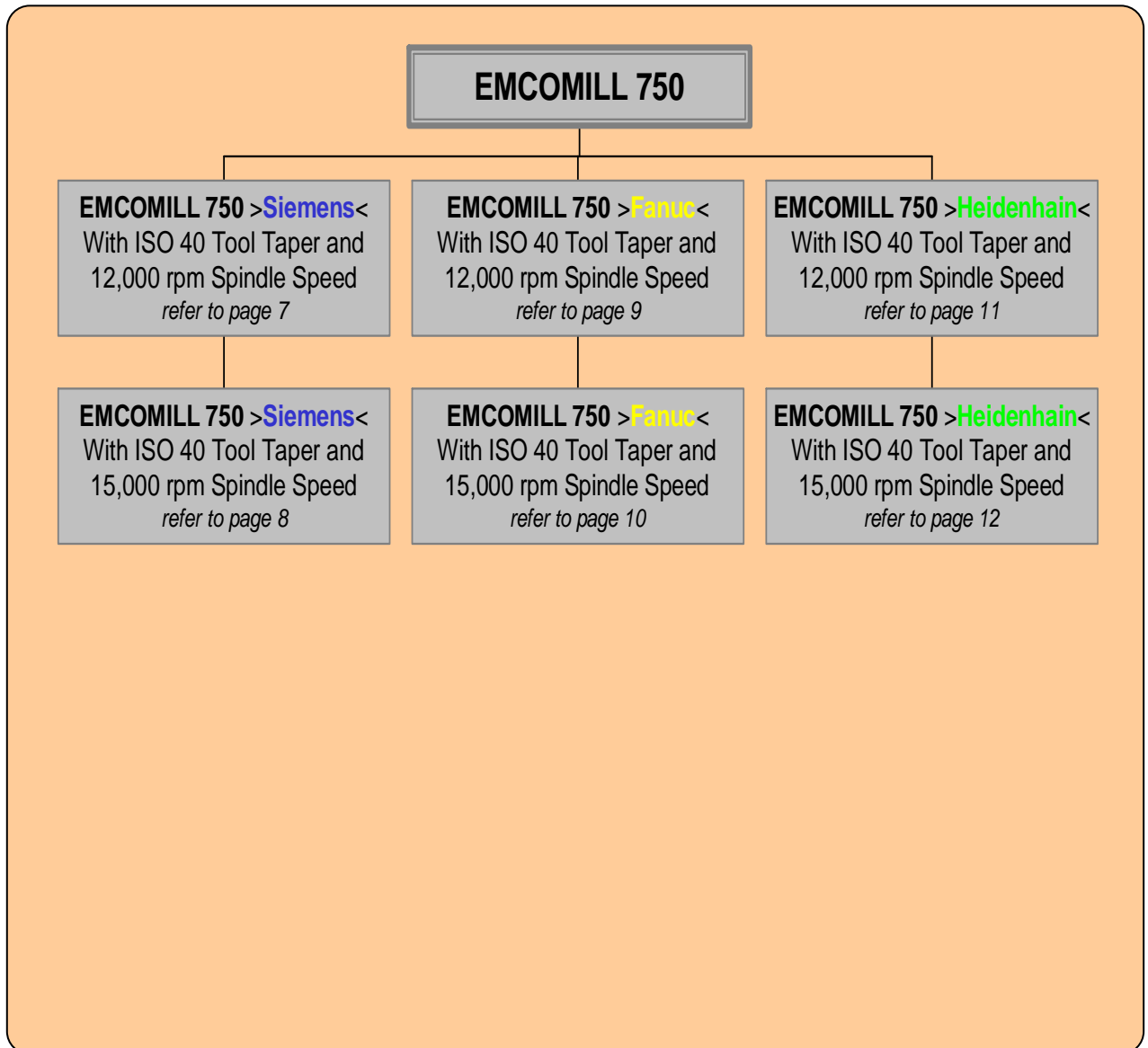
Tool Changer:

The tool changer is a fast double-changing-arm with directional logic and random tool selection. In this way the tool change time is reduced immensely. The tool drum is completely separated from the working area.

Covers:

The working area is closed around the machine but open to the top. It is possible to optionally equip it with a roof cover. The machine door is dimensioned largely to allow an easy loading of the machine. The machine can be equipped, as option, with an automatic side door to the right for loading with external robot.

OVERVIEW OF THE MACHINE'S VERSIONS:



8AE76S712I4

EMCOMILL 750 SIEMENS 12.000 RPM
3 AXIS VERTICAL MILLING CENTER



Control: **SINUMERIK 828D**

- o Advanced CNC control incl.
- o **ShopMill** dialog programming!!

Machine concept: moving column

Spindle: mechanical spindle ISO 40
Spindle speed: 50 - 12000 rpm
Spindle power: 15 kW / S6
Spindle torque: 100 Nm / S6

SIEMENS

Tool Taper: ISO 40 DIN 69871
Tool Pull studs: ISO7388/2 Type B (not included in the basic machine)

Strokes: X=750mm, Y=610mm, Z=500mm

Distance spindle nose-table: 175–675 mm

Rapid Speed X-Y-Z: 30 m/min

Table: cast iron table ground with T- grooves
Number – Width - Distance: 5 – 18 – 125
Useable clamping surface: 900 x 650 mm
Table load max.: 800 kg

Tool Changer:

Tool drum with 30 tool stations.
Tool change time (tool/tool) 2“

Standard Equipment:

- **Control Sinumerik 828D / OPERATE**
- SHOPMILL dialog programming
- USB-interface
- Ethernet interface
- Monitor 15"
- 3D graphical simulation
- LED-Illumination of working area
- Monitored maintenance door for tool changer
- Central lubrication
- Rigid tapping
- Coolant tank 250 liter
- Coolant pump 2 bar
- Leveling elements (5 pieces), with fastening materials
- Documentation, CE-Certificate



8AE76S715I4

EMCOMILL 750 SIEMENS 15.000 RPM
3 AXIS VERTICAL MILLING CENTER



Control: **SINUMERIK 828D**

- o Advanced CNC control incl.
- o **ShopMill** dialog programming!!

Machine concept: moving column

Spindle: motor spindle, water cooled
Spindle speed: 50 – 15.000 rpm
Spindle power: 20 kW / S6
Spindle torque: 100 Nm / S6

SIEMENS

Strokes: X=750mm, Y=610mm, Z=500mm

Distance spindle nose–table: 150 - 650 mm

Rapid Speed X-Y-Z: 30 m/min

Table: cast iron table ground with T- grooves
Number – Width - Distance: 5 – 18 – 125
Useable clamping surface: 900 x 650 mm
Table load max.: 800 kg



Tool Taper: ISO 40 DIN 69871

Tool Pull studs: ISO7388/2 Type B (not included in the basic machine)

Tool Changer:

Tool drum with 30 tool stations.
Tool change time (tool/tool) 2"

Standard Equipment:

- **Control Sinumerik 828D / OPERATE**
- SHOPMILL dialog programming
- USB-interface
- Ethernet interface
- Monitor 15"
- 3D graphical simulation
- LED-Illumination of working area
- Monitored maintenance door for tool changer
- Central lubrication
- Rigid tapping
- Coolant tank 250 liter
- Coolant pump 2 bar
- Leveling elements (5 pieces), with fastening materials
- Documentation, CE-Certificate



8AE76F512I4

EMCOMILL 750 FANUC 12.000 RPM
3 AXIS VERTICAL MILLING CENTER



Control: **FANUC i0-MF**
Advanced CNC control

Machine concept: moving column

Spindle: mechanical spindle ISO 40
Spindle speed: 50 - 12000 rpm
Spindle power: 15 kW / S6
Spindle torque: 100 Nm / S6

Tool Taper: ISO 40 DIN 69871
Tool Pull studs: ISO7388/2 Type B (not included in the basic machine)

Strokes: X=750mm, Y=610mm, Z=500mm

FANUC

Distance spindle nose-table: 175–675 mm

Rapid Speed X-Y-Z: 30 m/min



Table: cast iron table ground with T- grooves
Number – Width - Distance: 5 – 18 – 125
Useable clamping surface: 900 x 650 mm
Table load max.: 800 kg



Tool Changer:
Tool drum with 30 tool stations.
Tool change time (tool/tool) 2“

Standard Equipment:

- **Control FANUC 0i-MF**
- USB-interface
- Ethernet interface
- Monitor 15“
- 3D graphical simulation
- Tool life management
- LED-Illumination of working area
- Monitored maintenance door for tool changer
- Central lubrication
- Rigid tapping
- Coolant tank 250 liter
- Coolant pump 2 bar
- Leveling elements (5 pieces), with fastening materials
- Documentation, CE-Certificate



8AE76F515I4

EMCOMILL 750 FANUC 15.000 RPM
3 AXIS VERTICAL MILLING CENTER



Control: **FANUC i0-MF**
Advanced CNC control

Machine concept: moving column

Spindle: motor spindle, water cooled
Spindle speed: 50 – 15.000 rpm
Spindle power: 20 kW / S6
Spindle torque: 100 Nm / S6

Strokes: X=750mm, Y=610mm, Z=500mm

FANUC

Distance spindle nose–table: 150 - 650 mm

Rapid Speed X-Y-Z: 30 m/min



Table: cast iron table ground with T- grooves
Number – Width - Distance: 5 – 18 – 125
Useable clamping surface: 900 x 650 mm
Table load max.: 800 kg



Tool Taper: ISO 40 DIN 69871
Tool Pull studs: ISO7388/2 Type B (not included in the basic machine)

Tool Changer:
Tool drum with 30 tool stations.
Tool change time (tool/tool) 2"

Standard Equipment:

- **Control FANUC 0i-MF**
- USB-interface
- Ethernet interface
- Monitor 15"
- 3D graphical simulation
- Tool life management
- LED-Illumination of working area
- Monitored maintenance door for tool changer
- Central lubrication
- Rigid tapping
- Coolant tank 250 liter
- Coolant pump 2 bar
- Leveling elements (5 pieces), with fastening materials
- Documentation, CE-Certificate



8AE76H412I4

EMCOMILL 750 HEIDENHAIN 12.000 RPM
3 AXIS VERTICAL MILLING CENTER



Control: **Heidenhain TNC 620**
Advanced CNC control

Machine concept: moving column

Spindle: mechanical spindle ISO 40
Spindle speed: 50 - 12000 rpm
Spindle power: 15 kW / S6
Spindle torque: 100 Nm / S6

Tool Taper: ISO 40 DIN 69871
Tool Pull studs: ISO7388/2 Type B (not included in the basic machine)



Strokes: X=750mm, Y=610mm, Z=500mm

Distance spindle nose-table: 175–675 mm

Rapid Speed X-Y-Z: 30 m/min

Table: cast iron table ground with T- grooves
Number – Width - Distance: 5 – 18 – 125
Useable clamping surface: 900 x 650 mm
Table load max.: 800 kg



Tool Changer:
Tool drum with 30 tool stations.
Tool change time (tool/tool) 2“

Standard Equipment:

- **Control Heidenhain TNC 620**
- USB-interface
- Ethernet interface
- Monitor 19" touch screen
- 3D graphical simulation
- Tool life management
- LED-Illumination of working area
- Monitored maintenance door for tool changer
- Central lubrication
- Rigid tapping
- Coolant tank 250 liter
- Coolant pump 2 bar
- Leveling elements (5 pieces), with fastening materials
- Documentation, CE-Certificate



8AE76H415I4

EMCOMILL 750 HEIDENHAIN 15.000 RPM
3 AXIS VERTICAL MILLING CENTER



Control: **Heidenhain TNC 620**
Advanced CNC control

Machine concept: moving column

Spindle: motor spindle, water cooled
Spindle speed: 50 – 15.000 rpm
Spindle power: 20 kW / S6
Spindle torque: 100 Nm / S6

Strokes: X=750mm, Y=610mm, Z=500mm

Distance spindle nose–table: 150 - 650 mm



Rapid Speed X-Y-Z: 30 m/min

Table: cast iron table ground with T- grooves
Number – Width - Distance: 5 – 18 – 125
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Tool Pull studs: ISO7388/2 Type B (not included in the basic machine)



Tool Changer:
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Standard Equipment:

- **Control Heidenhain TNC 620**
- USB-interface
- Ethernet interface
- Monitor 19" touch screen
- 3D graphical simulation
- Tool life management
- LED-Illumination of working area
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- Coolant tank 250 liter
- Coolant pump 2 bar
- Leveling elements (5 pieces), with fastening materials
- Documentation, CE-Certificate



CONTROL LANGUAGES:

STANDARD LANGUAGES:

8AO-DE6400



Control language / GERMAN

The standard version includes two languages that could be switched from German to English. Additional languages available as per surcharge.

8AO-EN6400



Control language / ENGLISH

The standard version includes two languages that could be switched from German to English. Additional languages available as per surcharge.

8AO-TA6400



Control language / ITALIAN

Additional control language, that could be switched to English when needed. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

ADDITIONAL LANGUAGES AT EXTRA COST:

8AO-FR6400



Control language / FRENCH

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

8AO-SP6400



Control language / SPANISH

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

8AO-SE6400



Control language / SWEDISH

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

8AO-CZ6400



Control language / CZECH

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

8AO-DK6400



Control language / DANISH

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

8AO-NL6400



Control language / DUTCH

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

8AO-FI6400



Control language / FINNISH

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

8AO-HU6400



Control language / HUNGARIAN

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

8AO-PL6400



Control language / POLISH

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

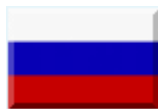
8AO-PT6400



Control language / PORTUGUESE

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

8AO-RU6400



Control language / RUSSIAN

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

8AO-TR6400



Control language / TURKISH

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

8AO-CN6400



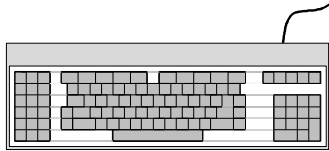
Control language / CHINESE-SIMPLE

Additional control language, that could be switched to English when needed, available as per surcharge. We reserve the right, that not all the displayed text is incorporated in the special language of the control.

CONTROL OPTIONS **SIEMENS 828D:**

8AO-KEYBOARDMM

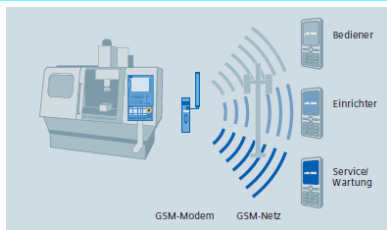
EXTERNAL PC – KEYBOARD SIEMENS



PC-keyboard for comfortable programming at the Sinumerik control. American key assignment - QWERTY

8AO-X3Z450

EASY MESSAGE FOR SINUMERIK 828D

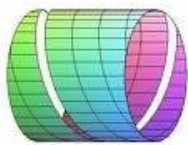


Easy Message allows you to get process information (e.g. tool wear) out of the CNC control to your mobile phone via SMS. Just insert a SIM-card of your choice, set a user profile, select the information you want to get to your mobile phone and keep up to date (SIM card not included).

Retrofit by EMCO specialist!

8AO-SIEOP025

CYLINDER SURFACE INTERPOLATION

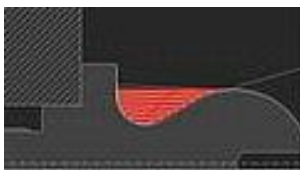


Software option for additional axis interpolation.

Retrofit by EMCO specialist!

8AO-SIEOP032

SHOPTURN EXTENSION PACKAGE



Consisting of:

- Rest material removing cycle
- Monitoring function for simulation

Retrofit by EMCO specialist!

8AO-SIEOP750

SPLINE INTERPOLATION

SPLINE (A,B,C)

Software Option to connect single knots to cams.
Advanced interpolation.

Retrofit by EMCO specialist!



8AO-SIEOP078

CAD READER FOR SINUMERIK

Software CAD reader DXF Siemens 828D.

Functions by the CAD Reader:

- Import DXF files
- Hide graphics layers
- Automatic contour trace
- Optional workpiece zero per contour/drill point
- Several contours/drill points can be selected simultaneously
- Create and convert contours or drill patterns for ShopMill, ShopTurn, SINUMERIK Operate
- Display existing contours/drill points in geometry processor/cycles support.

Retrofit by EMCO specialist!

8AO-SIEOP075

CAD READER FOR PC

Software CAD reader DXF Siemens 828D.

Functions by the CAD Reader:

- Import DXF files
- Hide graphics layers
- Automatic contour trace
- Optional workpiece zero per contour/drill point
- Several contours/drill points can be selected simultaneously
- Create and convert contours or drill patterns for ShopMill, ShopTurn, SINUMERIK Operate
- Display existing contours/drill points in geometry processor/cycles support.

Available for HMI OPERATE 4.7 and higher!

Attention: Only for Windows 95/98/Me/NT 4.0/2000/XP/7

Retrofit by EMCO specialist!

8AO-8FUNZ009

8 FREE PROGRAMMABLE M-FUNCTIONS SIEMENS

4 free OUT- and INPUTS can be controlled and programmed with 8M - functions on additional hardware. Configuration (timer, feedback...) adjustable.

Interface for robot or pallet changer system can be quoted on request!

Retrofit by EMCO specialist!

8AO-VOLREM0750

ELECTRONIC HANDWHEEL SIEMENS



Integrated hand wheel in mobile mini operating panel.
With necessary operating buttons.

Retrofit by EMCO specialist!

8AO-INTROB007

ROBOTER INTERFACE SIEMENS 828D

Programmable M-functions
Digital signals (24V) via Harding-plug,
coupled with Profi-Bus (Siemens).

This option is needed when different
applications are handled by a pallet
changer.

Changes on site will be charged at cost.

Factory Option!

MEASURING OPTIONS SIEMENS 828D:

8AO-CICMI065MARP

AUTOMATIC WORKPIECE SET UP WITH RADIO MEASURING PROBE SIEMENS ISO 40 / DIN 69871 WITH PULL STUD ISO 7388/2 / DIN 69872 SIEMENS



MARPOSS WRS T25S measuring probe with radio connection inserted in spindle ISO40, work piece scanning with automatic storage of data via measuring cycles. Receiver 8AO-CICMIRICWRI is included.

Retrofit by EMCO specialist!

8AO-CICMI066MARP

AUTOMATIC WORKPIECE SET UP WITH RADIO MEASURING PROBE SIEMENS BT40 SIEMENS



MARPOSS WRS T25S measuring probe with radio connection inserted in spindle BT40, work piece scanning with automatic storage of data via measuring cycles. Receiver 8AO-CICMIRICWRI is included.

Retrofit by EMCO specialist!

8AO-CICMI061MARP

AUTOMATIC WORKPIECE SET UP WITH RADIO MEASURING PROBE SIEMENS HSK-A63 SIEMENS



MARPOS T25S measuring probe with radio connection inserted in spindle HSK-A63, work piece scanning with automatic storage of data via measuring cycles. Receiver 8AO-CICMIRICWRI is included.

Retrofit by EMCO specialist!

8AO-PRESET058SIE

LASER DEVICE FOR PRESETTING, BREAKAGE CHECK AND PROFILE MEASURING OF TOOLS SIEMENS



MARPOSS MIDA 75 Laser „light barrier“, mounted on the machine table for probing of tool edges and automatic takeover of the values into the tool offset memory for further processing.

Retrofit by EMCO specialist!

8AO-PRMARPWRTS

AUTOMATIC TOOL PRESETTING DEVICE – PROBE



MARPOSS PROBE WRTS is a tool check probe for machining centers with radio transmission. The probe may be used for checking the tools, setting tool length and diameter measurements and tool wear compensation. WRTS may be used in twin applications together with the WRS inspection probe.

If this option is ordered without automatic work piece setting device WRS (8AO-CICMI065MARP, 8AO-CICMI066MARP or 8AO-CICMI061MARP) you must also order 8AO-CICMIRICWRI.

Retrofit by EMCO specialist!

8AO-CICMIRICWRI

AUTOMATIC TOOL PRESETTING DEVICE – RECEIVER



MARPOSS WRI Integrated interface radio transmission receiver.

It is compatible with all Marposs radio transmission probe.

Retrofit by EMCO specialist!

MACHINE OPTIONS SIEMENS 828D:

8AO-ROTTSEEM750 LINEAR SCALE IN ALL LINEAR AXIS X-Y-Z, SIEMENS



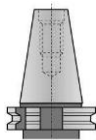
Linear measuring of position with "linear scales" to eliminate displacement (thermal growth) and increase machine precision. The pressurization of the scales prevents the penetration of dust or oil. The machine is also compensated with laser measurement!

Includes Option 8AO-LASERCOMP

Factory Option!

8AO-TRASFBT11

SPINDLE TAPER **BT40 FOR TOOL MAGAZIN WITH 30 STATIONS**

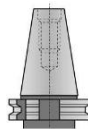


Spindle taper for BT40 tools for 30 tool magazine 30 pull studs BT40 included

Retrofit by EMCO specialist!

8AO-TRASFBT12

SPINDLE TAPER **BT40 FOR TOOL MAGAZIN WITH 40 STATIONS**

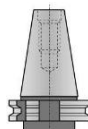


Spindle taper for BT40 tools for 40 tool magazine 40 pull studs BT40 included

Retrofit by EMCO specialist!

8AO-TRASFBT13

SPINDLE TAPER **BT40 FOR TOOL MAGAZIN WITH 60 STATIONS**



Spindle taper for BT40 tools for 60 tool magazine 60 pull studs BT40 included

Retrofit by EMCO specialist!

8AO-KITHSK63A30UT

TOOL DRUM WITH **30 TOOL STATIONS HSK-A63 MOTOR SPINDLE 15.000rpm**



Spindle and tool drum for HSK-A63 instead of ISO40, 30 tool stations.

Available only for the spindle with 15,000 rpm

Factory Option!

8AO-MAGUT750XX12

**TOOL DRUM WITH 30 TOOL STATIONS ISO 40
DIN 69871 / DIN 69872**



Additional price for tool drum with 30 stations for tool taper ISO 40, DIN 69871 and pull studs DIN 69872.

Available only for spindle with 15.000 rpm!

Factory Option!

8AO-MAGUT750XX05

**TOOL DRUM WITH 40 TOOL STATIONS ISO 40 DIN
69871 / ISO 7388/2 type B**



Additional price for tool drum with 40 stations instead of 30 stations ISO 40 DIN 69871 / ISO 7388/2 Type B

Factory Option!

8AO-MAGUT750XX16

**TOOL DRUM WITH 40 TOOL STATIONS ISO 40 DIN
69871 / DIN 69872 FOR SPINDLE WITH 12000 RPM!**



Additional price for tool drum with 40 stations instead of 30 stations DIN 69872 instead of 30 stations ISO 40 DIN 69871 / ISO 7388/2 Type B

Werksoption!

8AO-MAGUT750XX15

**TOOL DRUM WITH 40 TOOL STATIONS ISO 40 DIN
69871 / DIN 69872 FOR SPINDLE WITH 15000 RPM!**



Additional price for tool drum with 40 stations for tool taper ISO 40, DIN 69871 and pull studs DIN 69872.

Factory Option!

8AO-MAGUT750XX10



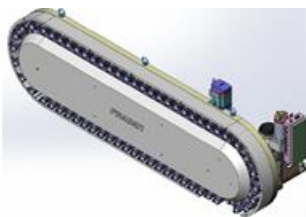
**TOOL DRUM WITH 40 TOOL STATIONS HSK-A63
MOTOR SPINDLE 15.000rpm**

Additional price for tool drum HSK-A63 instead of ISO40, 30 tool stations.

Available only for spindle with 15.000 rpm!

Factory Option!

8AO-MAGUT750XX07



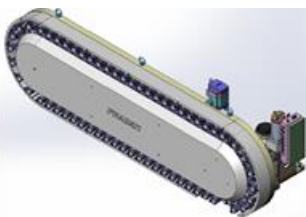
**TOOL DRUM WITH 60 TOOL STATIONS ISO 40, DIN
69871 pull studs ISO 7388/2 Type B- SIEMENS**

Additional price for tool chain with 60 stations instead of 30 stations ISO 40, DIN 69871 pull studs ISO 7388/2

Incl. timeparallel access to the tool changer, working area separated by sliding door

Factory Option!

8AO-MAGUT750XX17



**TOOL DRUM WITH 60 TOOL STATIONS ISO 40,
DIN 69871 pull studs DIN 69872 - SIEMENS**

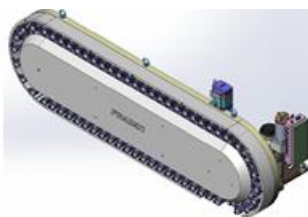
Additional price for tool chain with 60 stations for tool taper ISO 40, DIN 69871 and pull studs DIN 69872.

Incl. timeparallel access to the tool changer, working area separated by sliding door

Available only for spindle with 15.000 rpm!

Factory Option!

8AO-MAGUT750XX20



**TOOL DRUM WITH 60 TOOL STATIONS HSK-63A
SIEMENS**

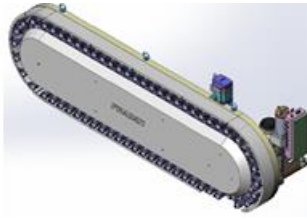
Additional price tool chain with 60 stations HSK-63A instead of 30 stations ISO40

Incl. timeparallel access to the tool changer, working area separated by sliding door

Available only for spindle with 15.000 rpm!

Factory Option!

**8AO-MAGUT750XX27 TOOL DRUM WITH 60 TOOL STATIONS ISO 40,
DIN 69871 pull studs DIN 69872 - SIEMENS**



Additional price for tool chain with 60 stations for tool taper ISO 40, DIN 69871 and pull studs DIN 69872.

Incl. timeparallel access to the tool changer, working area separated by sliding door

Factory Option!

**8AO-TGCSC075SIE CNC ROTARY TABLE 200MM – SIEMENS WITH
PNEUMATIC CLAMPING**



SCOTTI rotary table with infinitely variable positioning and interpolation.

Resolution 0.001°. Integrated pneumatic clamping.

Diameter 200 mm.

Center height = 180 mm.

CNC controlled via programme.

Factory Option!

**8AO-PREEL075SIE ELECTRICAL PREPARATION FOR THE SCOTTI
ROTARY TABLE SIEMENS**

With cable and plugs, without electronic drive unit.

Is not necessary when Option CNC-Rotary Table
8AO-TGCS075SIE has been selected

Factory Option!

8AO-CENIDEM1200S INTEGRATED HYDRAULIC AGGREGATE SIEMENS



Hydraulic system attached to the machine to control clamping devices chucks, hydraulic machine vice etc., Designed for max. 250 bar, complete with valves and connectors. Controlled via CNC with M-commands.

Factory Option!

8AO-APAUTMM750DX AUTOMATIC MACHINE RIGHT DOOR - SIEMENS

Automatic machine door in the right side machine cover for loading the machine with robot or palette changer, controlled by M-commands.

Attention: Works only in connection with a robot or palette changer. These systems must guarantee operator protection.

Factory Option!

8AO-ADDREFEM7502S PAPER BAND FILTER AND 25 BAR COOLANT THROUGH THE SPINDLE 12.000 RPM - Siemens

Drum paper band filter with 25 bar pump.

Consisting of:

- Coolant tank with 400 litres capacity
 - Filtering performance 150 L/min
 - 1 piece screw spindle pump 25 bar
 - 1 piece coolant pump 3,5 bar
 - 1 piece flushing pump 7 bar
 - 1 piece double change-over filter Mahle
- Incl. coolant through the spindle
Footprint: WxDxH 1590x1100x1650 mm



The following options are included:

8AO-BEDFLUSHEM750 (Internal chip flushing system)

8AO-IMPLAVXX50 (Coolant pistol)

8AO-ADDREFMM750 (Coolant through the spindle)

Factory Option!

8AO-ADDREFEM7503S PAPER BAND FILTER AND 25 BAR COOLANT THROUGH THE MOTOR SPINDLE 15.000 RPM - Siemens

Drum paper band filter with 25 bar pump.

Consisting of:

- Coolant tank with 400 litres capacity
 - Filtering performance 150 L/min
 - 1 piece screw spindle pump 60 bar
 - 1 piece coolant pump 3,5 bar
 - 1 piece flushing pump 7 bar
 - 1 piece double change-over filter Mahle
- Incl. coolant through the spindle
Footprint: WxDxH 1590x1100x1650 mm



The following options are included:

8AO-BEDFLUSHEM750 (Internal chip flushing system)

8AO-IMPLAVXX50 (Coolant pistol)

8AO-ADDREFMM750EI (Coolant through the electrospindle)

Maximum spindle speed with air 10.000 rpm.

Factory Option!

8AO-ADDREFEM7506S PAPER BAND FILTER AND 60 BAR COOLANT THROUGH THE SPINDLE 12.000 RPM - Siemens

Drum paper band filter with 60 bar pump.

Consisting of:

- Coolant tank with 400 litres capacity
 - Filtering performance 150 L/min
 - 1 piece screw spindle pump 25 bar
 - 1 piece coolant pump 3,5 bar
 - 1 piece flushing pump 7 bar
 - 1 piece double change-over filter Mahle
- Incl. coolant through the spindle
Footprint: WxDxH 1590x1100x1650 mm



The following options are included:

8AO-BEDFLUSHEM750 (Internal chip flushing system)

8AO-IMPLAVXX50 (Coolant pistol)

8AO-ADDREFMM750 (Coolant through the spindle)

Factory Option!

8AO-ADDREFEM7507S PAPER BAND FILTER AND 60 BAR COOLANT THROUGH THE MOTOR SPINDLE 15.000 RPM - Siemens

Drum paper band filter with 60 bar pump.

Consisting of:

- Coolant tank with 400 litres capacity
 - Filtering performance 150 L/min
 - 1 piece screw spindle pump 60 bar
 - 1 piece coolant pump 3,5 bar
 - 1 piece flushing pump 7 bar
 - 1 piece double change-over filter Mahle
- Incl. coolant through the spindle
Footprint: WxDxH 1590x1100x1650 mm



The following options are included:

8AO-BEDFLUSHEM750 (Internal chip flushing system)

8AO-IMPLAVXX50 (Coolant pistol)

8AO-ADDREFMM750EI (Coolant through the electrospindle)

Maximum spindle speed with air 10.000 rpm.

Factory Option!

CONTROL OPTIONS FANUC 0i-MF:

8AO-FANOP080

OPZ ADDITIONAL OF WORKPIECE COORDINATE SYSTEM 300 PAIRS

FANUC

A02B-0340-J919

Besides the six workpiece coordinate systems based on G54 to G59 (standard workpiece coordinate systems), up to 300 additional workpiece coordinate systems can be used optionally.

As with the workpiece coordinate system based on G54 Program input to G59, the following workpiece origin offset setting and modification methods are available:

- MDI-based method.
- Program-based method.

Setting based on programmable data input (G10L2Pp)

Setting based on custom macros.

Benefits

- Increase of the flexibility of the machine
- Simplification of the programming
- Improvement of the overall machining productivity

Retrofit by EMCO specialist!

8AO-FANOP081

PART PROGRAM STORAGE SIZE 2 MB

FANUC

A02B-0340-J948

The Part Program Storage is the amount of space available for the operator or user of the CNC to store CNC Part Programs.

The size of the program memory can be incremented to up to 2MB.

Retrofit by EMCO specialist!

8AO-FANOP082

NUMBER OF REGISTERED PROGRAMS

FANUC

A02B-0340-J953 EXPANSION 1

The number of registered programs is the total number of programs, subject to the availability of memory space, which can be stored in the CNC.

The number varies with the total size of part program storage.

Benefits

- Allows better organisation of complex part programs into subroutines
- Quick access to a large number of different programs for shop floor programming

Retrofit by EMCO specialist!

8AO-FANOP083

MEMORY CARD PROGRAM ENTRY

FANUC

A02B-0340-S995 COUNT EXTENSION

This function extends the number of part programs and folders that may be formatted onto a memory card for direct operation and/or editing.

The standard allowance of 63 programs and folders may be extended up to a maximum of 1000.

This feature is only used when the PC Tool for Memory Card Program Operation/ Editing software is used to format part program text files to a memory card, for use via the PCMCIA card slot.

Benefits

- Allows up to 1000 folders and programs to be used.
- Use of folders can greatly assist organization of files on memory card.

Retrofit by EMCO specialist!

8AO-FANOP084

DATA MANAGEMENT PACKAGE FANUC

FANUC

A02B-0338-J147 FAST ETHERNET BOARD
A02B-0340-S707 ETHERNET FUNCTION
A02B-0340-S737 DATA SERVER FUNCTION
A02B-0213-K212 COMPACT FLASH CARD 1GB
A02B-0303-K150 COMPACT FLASH CARD ADAPTER

The Fast Ethernet board and functions bring the possibility to install additional Ethernet connections to the CNC. The Fast Ethernet board features its own processors so that more processing power is available to manage the communication and protocols. Together with the embedded Ethernet port, the Fast Ethernet boards and/or the Multi-Function Ethernet Module, up to 4 separate Ethernet connections can be realized.

The Fast Ethernet board can run concurrent protocols and services such as:

- DHCP
- DNS
- DNC1 over Ethernet
- FTP client
- Screen Display Function
- Data Server and Fast Data Server
- FOCAS / FOCAS 2
- Basic Operation Package 2
- Remote Diagnostics
- FANUC Ladder
- FANUC SERVO GUIDE

It can support popular networking protocols such as:

- EtherNet/IP Scanner
- EtherNet/IP Scanner Adapter
- PROFINET I/O Device
- FL-net
- Modbus/TCP

Retrofit by EMCO specialist!

8AO-FANOP085

HIGH SPEED CUTTING FANUC

A02B-0340-S808 / A02B-0340-S637 / A02B-0340-R593

FANUC

AI Contour Control II is used to enable high-precision machining at optimal machining speeds. This function suppresses path errors due to acceleration/deceleration delay, servo positioning delay, and mechanical and electro-mechanical machine performance constraints.

Without this function, machining profile errors would increase proportionally with the programmed path feedrate. In practice, this function is useful when cutting on complex part forms involving sudden cutter direction changes such as are found in die/mold machining.

Benefits:

- Optimization of machining speeds using smooth acceleration / deceleration to minimize axis-overshoot errors
- Decrease of part-form tolerances suppressing acceleration / deceleration delays and servo lag
- Elimination of corner-clipping errors that typically increase as the feedrate increases.

Retrofit by EMCO specialist!

8AO-ESTMEMFANUC

MEMORY EXTENSION - FANUC

MEMORY EXTENSION - FANUC

Programs can be stored on a Compact Flash card with a memory of 1GB.

Retrofit by EMCO specialist!

8AO-8FUNZ009

8 FREE PROGRAMMABLE M-FUNCTIONS

4 free OUT- and INPUTS can be controlled and programmed with 8M - functions on additional hardware. Configuration (timer, feedback...) adjustable.

Interface for robot or pallet changer system can be quoted on request!

Retrofit by EMCO specialist!

8AO-VOLREM0750

ELECTRONIC HAND WHEEL FANUC



Integrated hand wheel in mobile mini operating panel. With necessary operating buttons.

Retrofit by EMCO specialist!

MEASURING OPTIONS **FANUC 0i-MF:**

8AO-CICMI065FA

AUTOMATIC WORKPIECE SET UP WITH RADIO MEASURING PROBE FANUC ISO 40 / DIN 69871 PULL STUD 7388/2 / DIN 69872



MARPOSS WRS T25S measuring probe inserted in spindle **ISO40** with infrared connection 360°, work piece scanning with automatic storage of data via measuring cycles.

Receiver 8AO-CICMIRICWRIFA is included.

Retrofit by EMCO specialist!

8AO-CICMI066FA

AUTOMATIC WORKPIECE SET UP WITH RADIO MEASURING PROBE FANUC **BT 40**



MARPOSS WRS T25S measuring probe inserted in spindle **BT40** with infrared connection 360°, work piece scanning with automatic storage of data via measuring cycles.

Receiver 8AO-CICMIRICWRIFA is included.

Retrofit by EMCO specialist!

8AO-CICMI061FA

AUTOMATIC WORKPIECE SET UP WITH RADIO MEASURING PROBE FANUC **HSK-A63**



MARPOSS WRS T25S measuring probe inserted in spindle **HSK-A63** with infrared connection 360°, work piece scanning with automatic storage of data via measuring cycles.

Receiver 8AO-CICMIRICWRIFA is included.

Retrofit by EMCO specialist!

8AO-PRESET058FA

LASER DEVICE FOR PRESETTING, BREAKAGE CHECK AND PROFILE MEASURING OF TOOLS FANUC



MARPOSS MIDA 75 Laser „light barrier“, mounted on the machine table for probing of tool edges and automatic takeover of the values into the tool offset memory for further processing.

Retrofit by EMCO specialist!

8AO-PRMARPWRTS

AUTOMATIC TOOL PRESETTING DEVICE – PROBE



MARPOSS PROBE WRTS is a tool check probe for machining centers with radio transmission. The probe may be used for checking the tools, setting tool length and diameter measurements and tool wear compensation. It features excellent repeatability and very high touch speed. WRTS may be used in twin applications together with the WRS inspection probe.

If this option is ordered without automatic work piece setting device WRS (8AO-CICMI065FA, 8AO-CICMI066FA or 8AO-CICMI061FA) you must also order 8AO-CICMIRICWRIFA.

Retrofit by EMCO specialist!

8AO-CICMIRICWRIFA

AUTOMATIC TOOL PRESETTING DEVICE – RECEIVER



MARPOSS WRI Integrated interface radio transmission receiver. It is compatible with all Marposs radio transmission probe.

Retrofit by EMCO specialist!

MACHINE OPTIONS FANUC 0i-MF:

8AO-ROTTFANEM750 LINEAR SCALE IN ALL LINEAR AXIS X-Y-Z, FANUC

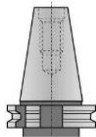


Linear measuring of position with "linear scales" to eliminate displacement (thermal growth) and increase machine precision. The pressurization of the scales prevents the penetration of dust or oil. The machine is also compensated with laser measurement!

Includes Option **8AO-LASERCOMP**

Factory Option!

8AO-TRASFBT11

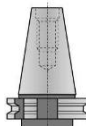


SPINDLE TAPER **BT40 FOR TOOL MAGAZINE WITH 30 STATIONS**

Spindle taper for BT40 tools for 30 tool magazine 30 pull studs BT40 included

Retrofit by EMCO specialist!

8AO-TRASFBT12

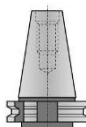


SPINDLE TAPER **BT40 FOR TOOL MAGAZINE WITH 40 STATIONS**

Spindle taper for BT40 tools for 40 tool magazine 40 pull studs BT40 included

Retrofit by EMCO specialist!

8AO-TRASFBT13



SPINDLE TAPER **BT40 FOR TOOL MAGAZINE WITH 60 STATIONS**

Spindle taper for BT40 tools for 60 tool magazine 60 pull studs BT40 included

Retrofit by EMCO specialist!

8AO-KITHSK63A30UT



TOOL DRUM WITH **30 TOOL STATIONS HSK-A63 MOTOR SPINDLE 15.000rpm**

Spindle and tool drum for HSK-A63 instead of ISO40, 30 tool stations.

Available only for the spindle with 15,000 rpm

Factory Option!

8AO-MAGUT750XX12

**TOOL DRUM WITH 30 TOOL STATIONS ISO 40
DIN 69871 / DIN 69872**



Additional price for tool drum with 30 stations for tool taper ISO 40, DIN 69871 and pull studs DIN 69872.

Available only for spindle with 15.000 rpm!

Factory Option!

8AO-MAGUT750XX05

**TOOL DRUM WITH 40 TOOL STATIONS ISO 40 DIN
69871 / ISO 7388/2 type B**



Additional price for tool drum with 40 stations instead of 30 stations ISO 40 DIN 69871 / ISO 7388/2 Type B

Factory Option!

8AO-MAGUT750XX16

**TOOL DRUM WITH 40 TOOL STATIONS ISO 40 DIN
69871 / DIN 69872 FOR SPINDLE WITH 12000 RPM!**



Additional price for tool drum with 40 stations for tool taper ISO 40, DIN 69871 and pull studs DIN 69872.

Available only for spindle with 12.000 rpm!

Factory Option!

8AO-MAGUT750XX15

**TOOL DRUM WITH 40 TOOL STATIONS ISO 40 DIN
69871 / DIN 69872 FOR SPINDLE WITH 15000 RPM!**



Additional price for tool drum with 40 stations for tool taper ISO 40, DIN 69871 and pull studs DIN 69872.

Available only for spindle with 15.000 rpm!

Factory Option!

8AO-MAGUT750XX10



**TOOL DRUM WITH 40 TOOL STATIONS HSK-A63
MOTOR SPINDLE 15.000rpm**

Additional price for tool drum HSK-A63 instead of ISO40, 30 tool stations.

Available only for spindle with 15.000 rpm!

Factory Option!

8AO-TGCSC075FAN



**CNC ROTARY TABLE 200MM – FANUC WITH
PNEUMATIC CLAMPING**

SCOTTI rotary table with infinitely variable positioning and interpolation.

Resolution 0.001°. Integrated pneumatic clamping.

Diameter 200 mm.

Center height = 180 mm.

CNC controlled via programme.

Factory Option!

8AO-PREEL075FAN

**ELECTRICAL PREPARATION FOR THE SCOTTI
ROTARY TABLE FANUC**

Cable and plugs. Without electronic drive unit in the electrical cabinet.

Is not necessary when Option CNC-Rotary Table 8AO-TGCS075FAN has been selected

Factory Option!

8AO-CENIDEM1200F



INTEGRATED HYDRAULIC AGGREGATE FANUC

Hydraulic system attached to the machine to control clamping devices chucks, hydraulic machine vice etc., Designed for max. 250 bar, complete with valves and connectors. Controlled via CNC with M-commands.

Factory Option!

8AO-APAUTMM750DXFA AUTOMATIC MACHINE RIGHT DOOR - FANUC

Automatic machine right door especially for efficient workpiece loading. One hand operation with safety switch for optimum operator protection.

Factory Option!

8AO-ADDREFEM7502FA PAPER BAND FILTER AND 25 BAR COOLANT THROUGH THE SPINDLE 12.000 RPM – FANUC

Drum paper band filter with 25 bar pump.



Consisting of:

- Coolant tank with 400 litres capacity
 - Filtering performance 150 L/min
 - 1 piece screw spindle pump 25 bar
 - 1 piece coolant pump 3,5 bar
 - 1 piece flushing pump 7 bar
 - 1 piece double change-over filter Mahle
- Incl. coolant through the spindle
Footprint: WxDxH 1590x1100x1650 mm

The following options are included:

8AO-BEDFLUSHEM750 (Internal chip flushing system)

8AO-IMPLAVXX50 (Coolant pistol)

8AO-ADDREFMM750 (Coolant through the spindle)

Factory Option!

8AO-ADDREFEM7503FA PAPER BAND FILTER AND 25 BAR COOLANT THROUGH THE SPINDLE 15.000 RPM – FANUC

Drum paper band filter with 25 bar pump.



Consisting of:

- Coolant tank with 400 litres capacity
 - Filtering performance 150 L/min
 - 1 piece screw spindle pump 60 bar
 - 1 piece coolant pump 3,5 bar
 - 1 piece flushing pump 7 bar
 - 1 piece double change-over filter Mahle
- Incl. coolant through the spindle
Footprint: WxDxH 1590x1100x1650 mm

The following options are included:

8AO-BEDFLUSHEM750 (Internal chip flushing system)

8AO-IMPLAVXX50 (Coolant pistol)

8AO-ADDREFMM750EI (Coolant through the electrospindle)

Maximum spindle speed with air 10.000 rpm.

Factory Option!

8AO-ADDREFEM7506FA PAPER BAND FILTER AND 60 BAR COOLANT THROUGH THE SPINDLE 12000 RPM – FANUC

Drum paper band filter with 60 bar pump.



Consisting of:

- Coolant tank with 400 litres capacity
 - Filtering performance 150 L/min
 - 1 piece screw spindle pump 25 bar
 - 1 piece coolant pump 3,5 bar
 - 1 piece flushing pump 7 bar
 - 1 piece double change-over filter Mahle
- Incl. coolant through the spindle
Footprint: WxDxH 1590x1100x1650 mm

The following options are included:

8AO-BEDFLUSHEM750 (Internal chip flushing system)

8AO-IMPLAVXX50 (Coolant pistol)

8AO-ADDREFMM750 (Coolant through the spindle)

Factory Option!

8AO-ADDREFEM7507FA PAPER BAND FILTER AND 60 BAR COOLANT THROUGH THE SPINDLE 15.000 RPM – FANUC

Drum paper band filter with 60 bar pump.



Consisting of:

- Coolant tank with 400 litres capacity
 - Filtering performance 150 L/min
 - 1 piece screw spindle pump 60 bar
 - 1 piece coolant pump 3,5 bar
 - 1 piece flushing pump 7 bar
 - 1 piece double change-over filter Mahle
- Incl. coolant through the spindle
Footprint: WxDxH 1590x1100x1650 mm

The following options are included:

8AO-BEDFLUSHEM750 (Internal chip flushing system)

8AO-IMPLAVXX50 (Coolant pistol)

8AO-ADDREFMM750EI (Coolant through the electrospindle)

Maximum spindle speed with air 10.000 rpm.

Factory Option!

CONTROL OPTIONS HEIDENHAIN TNC620:

8AO-HEIOP014

LOOK AHEAD + SUPERIMPOSE HANDWHEEL HEIDENHAIN SOFTWARE OPTION 21

- Tool compensation, Radius-compensated contour look-ahead for 99 blocks

- 3D-machining, Superimpose handwheel positioning during program run (M118)

Retrofit by EMCO specialist!

8AO-8FUNZ009

8 FREE PROGRAMMABLE M-FUNCTIONS HEIDENHAIN

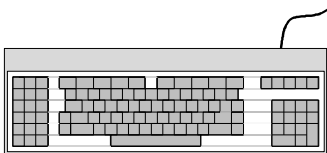
4 free OUT- and INPUTS can be controlled and programmed with 8M-functions on additional hardware. Configuration (timer, feedback...) adjustable.

Interface for robot or pallet changer system can be quoted on request.

Retrofit by EMCO specialist!

8AO-KEYBOARDMMHEI

EXTERNAL PC – KEYBOARD HEIDENHAIN



PC-keyboard for comfortable programming at the control. American key assignment - QWERTY

Retrofit by EMCO specialist!

8AO-VOLREMHEI630

ELECTRONIC HANDWHEEL HEIDENHAIN



Integrated hand wheel in mobile mini operating panel. With necessary operating buttons.

Factory Option!

8AO-HEIOP006

DXF CONVERTER

ID 526450-01

OPZ.42

Drawings in DXF format can be uploaded into the control and internal converted into a CNC part program

Factory option!

MEASURING OPTIONS HEIDENHAIN TNC620:

8AO-CICMI750HEI

AUTOMATIC WORKPIECE SET UP WITH RADIO MEASURING PROBE HEIDENHAIN ISO 40, DIN 69871 WITH PULL STUD ISO 7388/2 / DIN 69872



MARPOSS WRS T25S measuring probe with radio connection inserted in spindle ISO40, workpiece scanning with automatic storage of data via measuring cycles. Receiver 8AO-CICMIRICWRIHEI is included.

Retrofit by EMCO specialist!

8AO-CICMI750BTHEI

AUTOMATIC WORKPIECE SET UP WITH RADIO MEASURING PROBE HEIDENHAIN BT 40



MARPOSS WRS T25S measuring probe with radio connection inserted in spindle BT40, workpiece scanning with automatic storage of data via measuring cycles. Receiver 8AO-CICMIRICWRIHEI is included.

Retrofit by EMCO specialist!

8AO-CICMI049MARP

AUTOMATIC WORKPIECE SET UP WITH RADIO MEASURING PROBE HSK-A63 HEIDENHAIN



MARPOSS WRS T25S measuring probe with radio connection inserted in spindle HSK-A63, work piece scanning with automatic storage of data via measuring cycles. Receiver 8AO-CICMIRICWRIHEI is included.

Retrofit by EMCO specialist!

8AO-PRESET058HEI

LASER DEVICE FOR PRESETTING, BREAKAGE CHECK AND PROFILE MEASURING OF TOOLS HEIDENHAIN



MARPOSS MIDA 75 Laser „light barrier“, mounted on the machine table for probing of tool edges and automatic takeover of the values into the tool offset memory for further processing.

Retrofit by EMCO specialist!

8AO-PRMARPWRTS

AUTOMATIC TOOL PRESETTING DEVICE – PROBE



MARPOSS PROBE WRTS is a tool check probe for machining centers with radio transmission. The probe may be used for checking the tools, setting tool length and diameter measurements and tool wear compensation. It features excellent repeatability and very high touch speed. WRTS may be used in twin applications together with the WRS inspection probe.

If this option is ordered without automatic work piece setting device WRS (8AO-CICMI750HEI, 8AO-CICMI750BTHEI or 8AO-CICMI049MARP) you must also order 8AO-CICMIRICWRIFA.

Retrofit by EMCO specialist!

8AO-CICMIRICWRIHEI

AUTOMATIC TOOL PRESETTING DEVICE – RECEIVER



MARPOSS WRI Integrated interface radio transmission receiver. It is compatible with all Marposs radio transmission probe.

Retrofit by EMCO specialist!

MACHINE OPTIONS HEIDENHAIN TNC620:

8AO-ROTTHEI750

**LINEAR SCALES IN ALL LINEAR AXIS X-Y-Z
HEIDENHAIN**



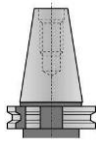
Linear measuring of position with "linear scales" to eliminate displacement and increase machine precision. Pressurizing of the scales prevent penetration of dust or oil.

Machine is also compensated with laser measurement!
Includes Option **8AO-LASERCOMP**

Factory Option!

8AO-TRASFBT11

SPINDLE TAPER BT40 FOR TOOL MAGAZINE WITH 30 STATIONS

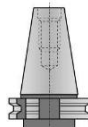


Spindle taper for BT40 tools for 30 tool magazine, 30 pull studs BT40 included

Retrofit by EMCO specialist!

8AO-TRASFBT12

SPINDLE TAPER BT40 FOR TOOL MAGAZINE WITH 40 STATIONS

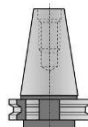


Spindle taper for BT40 tools for 40 tool magazine 40 pull studs BT40 included

Retrofit by EMCO specialist!

8AO-TRASFBT13

SPINDLE TAPER BT40 FOR TOOL MAGAZINE WITH 60 STATIONS



Spindle taper for BT40 tools for 60 tool magazine 60 pull studs BT40 included

Retrofit by EMCO specialist!

8AO-KITHSK63A30UT

TOOL DRUM WITH 30 TOOL STATIONS HSK-A63 MOTOR SPINDLE 15.000rpm



Spindle and tool drum for HSK-A63 instead of ISO40, 30 tool stations.

Available only for the spindle with 15,000 rpm

Factory Option!

8AO-MAGUT750XX12

**TOOL DRUM WITH 30 TOOL STATIONS ISO 40
DIN 69871 / DIN 69872**



Additional price for tool drum with 30 stations for tool taper ISO 40, DIN 69871 and pull studs DIN 69872.

Available only for spindle with 15.000 rpm!

Factory Option!

8AO-MAGUT750XX05

**TOOL DRUM WITH 40 TOOL STATIONS ISO 40 DIN
69871 / ISO 7388/2 type B**



Additional price for tool drum with 40 stations instead of 30 stations ISO 40 DIN 69871 / ISO 7388/2 Type B

Factory Option!

8AO-MAGUT750XX16

**TOOL DRUM WITH 40 TOOL STATIONS ISO 40 DIN
69871 / DIN 69872 FOR SPINDLE WITH 12000 RPM!**



Additional price for tool drum with 40 stations for tool taper ISO 40, DIN 69871 and pull studs DIN 69872.

Available only for spindle with 12.000 rpm!

Factory Option!

8AO-MAGUT750XX15

**TOOL DRUM WITH 40 TOOL STATIONS ISO 40 DIN
69871 / DIN 69872**



Additional price for tool drum with 40 stations for tool taper ISO 40, DIN 69871 and pull studs DIN 69872.

Available only for spindle with 15.000 rpm!

Factory Option!

8AO-MAGUT750XX10



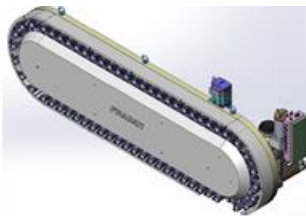
**TOOL DRUM WITH 40 TOOL STATIONS HSK-A63
MOTOR SPINDLE 15.000rpm**

Additional price for tool drum HSK-A63 instead of ISO40, 30 tool stations.

Available only for spindle with 15.000 rpm!

Factory Option!

8AO-MAGUT750XX08



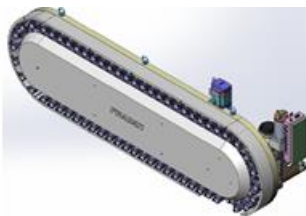
**TOOL DRUM WITH 60 TOOL STATIONS ISO 40, DIN
69871 PULL STUD ISO 7388/2 Type B- Heidenhain**

Additional price for tool chain with 60 stations instead of 30 stations ISO 40, DIN 69871 pull studs ISO 7388/2

Incl. timeparallel access to the tool changer, working area separated by sliding door

Factory Option!

8AO-MAGUT750XX18



**TOOL DRUM WITH 60 TOOL STATIONS ISO 40,
DIN 69871 pull studs DIN 69872 - Heidenhain**

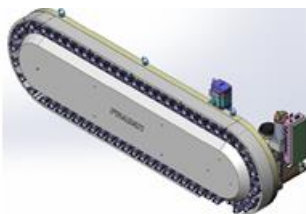
Additional price for tool chain with 60 stations for tool taper ISO 40, DIN 69871 and pull studs DIN 69872.

Incl. timeparallel access to the tool changer, working area separated by sliding door

Available only for spindle with 15.000 rpm!

Factory Option!

8AO-MAGUT750XX21



**TOOL DRUM WITH 60 TOOL STATIONS HSK-63A
Heidenhain**

Additional price for spindle HSK-A63 and tool chain with 60 stations HSK-63A instead of 30 stations ISO40

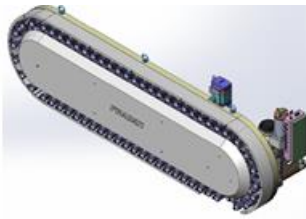
Incl. timeparallel access to the tool changer, working area separated by sliding door

Available only for spindle with 15.000 rpm!

Factory Option!

8AO-MAGUT750XX28

**TOOL DRUM WITH 60 TOOL STATIONS ISO 40,
DIN 69871 pull studs DIN 69872 - Heidenhain**



Additional price for tool chain with 60 stations for tool taper ISO 40, DIN 69871 and pull studs DIN 69872.

Incl. timeparallel access to the tool changer, working area separated by sliding door

Factory Option!

8AO-TGCSC075HEI

**CNC ROTARY TABLE 200MM – HEIDENHAIN WITH
PNEUMATIC CLAMPING**



SCOTTI rotary table with infinitely variable positioning and interpolation.

Resolution 0.001°. Integrated pneumatic clamping.

Diameter 200 mm.

Center height = 180 mm.

CNC controlled via programme.

Factory Option!

8AO-PREEL075HEI

**ELECTRICAL PREPARATION FOR THE SCOTTI
ROTARY TABLE SIEMENS**

With cable and plugs, without electronic drive unit.

Is not necessary when Option CNC-Rotary Table
8AO-TGCS075HEI has been selected

Factory Option!

8AO-INTROB006

STANDARD ROBOT INTERFACE PROFIBUS

For HEIDENHAIN control. Profibus version.

Note: Changes on site will be charged at extra cost.

Factory Option!

8AO-CENIDEM1200H

INTEGRATED HYDRAULIC AGGREGATE HEIDENHAIN



Hydraulic system attached to the machine to control clamping devices chucks, hydraulic machine vice etc., Designed for max. 250 bar, complete with valves and connectors. Controlled via CNC with M-commands.

Factory Option!

8AO-APAUTMM750DXHH

AUTOMATIC MACHINE RIGHT DOOR - Heidenhain

Automatic machine right door especially for efficient workpiece loading. One hand operation with safety switch for optimum operator protection.

Factory Option!

8AO-ADDREFEM7502HH

PAPER BAND FILTER AND 25 BAR COOLANT THROUGH THE SPINDLE 12.000 RPM – Heidenhain

Drum paper band filter with 25 bar pump.



Consisting of:

- Coolant tank with 400 litres capacity
 - Filtering performance 150 L/min
 - 1 piece screw spindle pump 25 bar
 - 1 piece coolant pump 3,5 bar
 - 1 piece flushing pump 7 bar
 - 1 piece double change-over filter Mahle
- Incl. coolant through the spindle
Footprint: WxDxH 1590x1100x1650 mm

The following options are included:

8AO-BEDFLUSHEM750 (Internal chip flushing system)

8AO-IMPLAVXX50 (Coolant pistol)

8AO-ADDREFMM750 (Coolant through the spindle)

Factory Option!

8AO-ADDREFEM7503HH PAPER BAND FILTER AND 25 BAR COOLANT THROUGH THE SPINDLE 15.000 RPM – Heidenhain

Drum paper band filter with 25 bar pump.



Consisting of:

- Coolant tank with 400 litres capacity
 - Filtering performance 150 L/min
 - 1 piece screw spindle pump 60 bar
 - 1 piece coolant pump 3,5 bar
 - 1 piece flushing pump 7 bar
 - 1 piece double change-over filter Mahle
- Incl. coolant through the spindle
Footprint: WxDxH 1590x1100x1650 mm

The following options are included:

8AO-BEDFLUSHEM750 (Internal chip flushing system)

8AO-IMPLAVXX50 (Coolant pistol)

8AO-ADDREFMM750EI (Coolant through the electrospindle)

Maximum spindle speed with air 10.000 rpm.

Factory option!

8AO-ADDREFEM7506HH PAPER BAND FILTER AND 60 BAR COOLANT THROUGH THE SPINDLE 12.000 RPM – Heidenhain

Drum paper band filter with 60 bar pump.



Consisting of:

- Coolant tank with 400 litres capacity
 - Filtering performance 150 L/min
 - 1 piece screw spindle pump 25 bar
 - 1 piece coolant pump 3,5 bar
 - 1 piece flushing pump 7 bar
 - 1 piece double change-over filter Mahle
- Incl. coolant through the spindle
Footprint: WxDxH 1590x1100x1650 mm

The following options are included:

8AO-BEDFLUSHEM750 (Internal chip flushing system)

8AO-IMPLAVXX50 (Coolant pistol)

8AO-ADDREFMM750 (Coolant through the spindle)

Factory Option!

8AO-ADDREFEM7507HH PAPER BAND FILTER AND 60 BAR COOLANT THROUGH THE SPINDLE 15.000 RPM – Heidenhain

Drum paper band filter with 60 bar pump.



Consisting of:

- Coolant tank with 400 litres capacity
 - Filtering performance 150 L/min
 - 1 piece screw spindle pump 60 bar
 - 1 piece coolant pump 3,5 bar
 - 1 piece flushing pump 7 bar
 - 1 piece double change-over filter Mahle
- Incl. coolant through the spindle
Footprint: WxDxH 1590x1100x1650 mm

The following options are included:

8AO-BEDFLUSHEM750 (Internal chip flushing system)

8AO-IMPLAVXX50 (Coolant pistol)

8AO-ADDREFMM750EI (Coolant through the electrospindle)

Maximum spindle speed with air 10.000 rpm.

Factory Option!

MACHINE OPTIONS:

8AO-MILLEM0750



PNEUMATIC CHUCK FOR 4TH AXIS

3-jaw power chuck \varnothing 165 mm pneumatic clamping incl. adapter flange

Retrofit by EMCO specialist!

8AO-MILLEM0751



MANUAL 3 JAW CHUCK FOR 4TH AXIS

3-jaw manual chuck \varnothing 200 mm incl. adapter flange

Retrofit by EMCO specialist!

8AO-CONPN0750



PNEUMATIC COUNTER TAILSTOCK 180MM MANUALLY OPERATED

Counter tailstock with attached cylinder in line with axis; centre height $H = 180$ mm, pressing force $F = 3000N$, length: 288 mm, tailstock center interchangeable via Morse taper MK3

Retrofit by EMCO specialist!

8AO-TABLECHANGEEM



BIGGER MILLING TABLE

Machine table 1300 x 650 mm instead standard table 900 x 650 mm.

Recommendable with the 4.axis.

Factory option!

8AO-CODSUPXX01



PULL STUD ISO 7388/2 TYPE B

Single pull stud for ISO40 tool holder, connecting thread M16 with through hole

8AO-CODSUPXX02

PULL STUD BT40

Single pull stud for BT40 tool holder, connecting thread M16 with through hole

8AO-CODSUPXX03

PULL STUD DIN 69872

Single pull stud for DIN 69872 tool holder, connecting thread M16 with through hole.

8AO-BEDFLUSHM750 INTERNAL CHIP FLUSHING SYSTEM

Suitable for the better transport of the chips into the chip pan or respectively chip conveyor.

Option **8AO-TRASPMM750** Chip Conveyor is needed.

Retrofit by EMCO specialist!

8AO-SOFAR600

AUTOMATIC AIR-JET FOR CHIP REMOVAL (EXTERNAL)



Adjustable compressed air jet (mounted on spindle nose) for specific "blow away" of chips out of the pockets or holes of the work piece Programmable via M-command in CNC.

Factory Option!

8AO-IMPLAVXX50

COOLANT PISTOL



Coolant pistol to clean work pieces and the machine area.

Retrofit by EMCO specialist!

8AO-ADDREFMM750

AIR - WATER COOLANT THROUGH **SPINDLE 12.000 rpm**



Optionally activation of coolant passage through spindle / tool via rotary coupling. High pressure pump 20 bar attached to 1 cartridge with double filter 25 micron (Bypass system).

or:

air blow 5 bar through spindle and tool

Order only if no band filter is needed!!

With this option 8AO-TRASPMM750 is needed.

Factory Option!

8AO-ADDREFMM750EI

AIR - WATER COOLANT THROUGH **MOTOR SPINDLE 15.000 rpm**



Optionally activation of coolant passage through spindle / tool via rotary coupling. High pressure pump 20 bar attached to 1 cartridge filter 60 micron **or** air blow 6 bar through spindle and tool

The operation with compressed air is permitted only to a maximum speed of 10.000 rpm at maximum 5 bar and only alternately with wet machining.

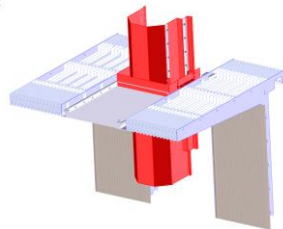
Order only if no band filter is needed!

With this option 8AO-TRASPMM750 is needed.

Factory Option!

8AO-COPSUPXX750

WORKSPACE COVER EMCOMILL 750



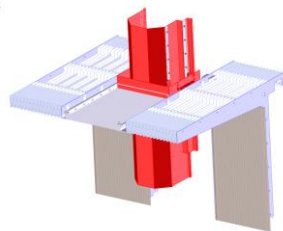
Machine work area top cover. Made of bellows moving left and right, front and rear according to axis movement. Allows crane loading.

Highly recommended when employing coolant through spindle and when using an oil mist separator.

Factory Option!

8AO-AUTCOPSUPMM750

ADDITIONAL PRICE FOR AUTOMATIC OPENING WORKSPACE COVER EM/MM 750



Top roof will be opened automatically by two pneumatical cylinders.

**Highly recommended for crane loading
Please order in association with the
option 8AO-COPSUPXX750**

Factory Option!

8AO-LAMSUPXX01

ALARM STATUS LIGHT



Alarm status light to indicate the different operating conditions of the machine.

Retrofit by EMCO specialist!

8AO-TRASPMM750

CHAIN CHIP CONVEYOR



Chain feeding system, dump-height 1000 mm.
Suitable for: dry - and wet machining. chip discard to the left operator side. With integrated tank, 450 litres.

It is necessary when there is at least one of the following options, because of the big tank:
8AO-BEDFLUSHEM750 (Internal chip flushing system)
8AO-ADDREFMM750... (Coolant through spindle)

Retrofit by EMCO specialist!

8AO-CONAR020

AIR CONDITIONER (ELECTRICAL CABINET)



It seals the cabinet and keeps the temperature constant; necessary for extreme environmental conditions (tropical climate) or graphite or cast work.

Factory Option!

8AO-ASPFUMM750

OIL MIST SEPARATOR LOSMA ICARUS



Integrated suction system especially for oil mist for better environmental surroundings.

Only available in combination with option **8AO-COPSUPXX750** work space cover!

Factory Option!

8AO-ASPFUMM750MEC

PREPARATION FOR EXHAUST SYSTEM



Preparation for an exhaust system connection diameter: 200 mm.

With this option it is recommended to install the work space cover **8AO-COPSUPXX750**

Factory Option!

8AO-OBLV010

ROTATING INSPECTION GLASS



Inspection window for clear sight into working area.

Not possible with option 8AO-VETROPMM750 WORKING AREA DOOR WITH GLASS PLATE

Factory Option!

8AO-VETROPMM750

WORKING AREA DOOR WITH GLASS PLATE

Additional glass plate to the polycarbonate window panel. Only the frontal door. Scratch resistance.

ROTATING INSPECTION GLASS 8AO-OBLV010 NOT POSSIBLE!

Factory Option!

8AO-APAUTMM750

AUTOMATIC MACHINE DOOR



Automatic machine door suitable for the efficient loading of the work piece. One hand operation with safety switch for optimum operator protection.

Factory Option!

8AO-VOLTA006

SUPPLY VOLTAGE 400/ 440V 60Hz, 3 PHASE

Supply voltage of the machine 400V or 440V (+ 10% / - 5%) at 60Hz instead of standard 50Hz. (includes tool turret set for 60Hz)

Factory Option!

8AO-INVMUXX02

60HZ FREQUENCY ON THE MACHINE AT 400 3 PHASE

Includes tool turret set for 60 Hz

Factory option.

8AO-LASERCOMP

LASER MEASUREMENT AND PITCH ERROR COMPENSATION



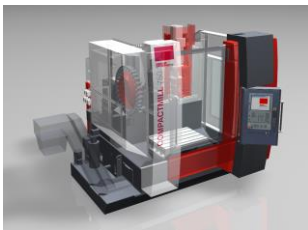
Measurement of the positioning tolerance to ISO 230 and VDI/DGQ 3441 made for all linear axis of the machine over the whole stroke including documentation for all measured axis.

ATTENTION: this values can only be guaranteed under EMCO standardised environmental conditions.

Factory Option!

8AO-EM7503DNEW

3D-MACHINE DATA



3D machine model inclusive work area in STP-format. The 3D machine model data will be delivered on CD-Rom.

Copyright EMCO.

Passing on to third parties is not permitted in any case!

8AO-FOUDATION750

FLOOR PLAN EM 750

Template for drilling holes to log down the machine to the floor. Template is lent to the customer and must be returned after the machine is installed.

Template is provided before the machine commissioning.

Factory Option!

PROGRAMMING SOFTWARE:



Basic license which includes the following ESPRIT modules: 2D / 3D Geometry Modeler, Parasolid solid Modeler, NURBS Surface Modeler, Adaptive Feature Detection, Tool and Speed and Feed KnowledgeBase, Universal Post Processing, Solid Simulation and Verification, Visual Basic for Applications and ESPRIT API; ESPRIT reads data from the following native formats: ACIS, DXF, IGES, Inventor (* .ipt, * .iam), Parasolid (X_T, X_B), Solid Edge (* .par, * .psm, * .Asm), SolidWorks (* .sldprt, * .sldasm), VDA, STEP, STL; Feature handover of Inventor, Solid Edge and SolidWorks

RRP LIST PRICE: 7.900,- EURO, ATTENTION: SPECIAL PRICE ACCORDING TO OFFER ONLY IN CONNECTION WITH NEW MACHINE PURCHASE!

The most powerful CAD/CAM programming software for turning, milling and drilling. In only a few steps you can create the CNC-program from a CAD drawing. A 3D dynamic solid simulation shows the work piece, tools and also the fixture. The machining process is shown in real-time and collisions are detected to provide a proven process to the machine.

The package supports programming of:

- 1 milling spindle
- X/Y/Z - axes

The package includes:

- ESPRIT Basis License,
- ESPRIT SolidMill Traditional,
- EMCO Standard-Postprocessor for Siemens, Fanuc or Heidenhain

Customer data for licensing:

Company: _____

Address: _____

Tel.: _____ Fax.: _____

Contact Person: _____

E-Mail: _____

Customer P.O.-No.: _____

ESPRIT Software-Maintenance contract not included.



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Basic license which includes the following ESPRIT modules: 2D / 3D Geometry Modeler, Parasolid solid Modeler, NURBS Surface Modeler, Adaptive Feature Detection, Tool and Speed and Feed KnowledgeBase, Universal Post Processing, Solid Simulation and Verification, Visual Basic for Applications and ESPRIT API; ESPRIT reads data from the following native formats: ACIS, DXF, IGES, Inventor (*.ipt, *.iam), Parasolid (X_T, X_B), Solid Edge (*.par, *.psm, *.asm), SolidWorks (*.sldprt, *.sldasm), VDA, STEP, STL; Feature handover of Inventor, Solid Edge and SolidWorks

The most powerful CAD/CAM programming software for turning, milling and drilling. In only a few steps you can create the CNC-program from a CAD drawing. A 3D dynamic solid simulation shows the work piece, tools and also the fixture. The machining process is shown in real-time and collisions are detected to provide a proven process to the machine.

The package supports programming of:

- 1 milling spindle
- X/Y/Z - axes
- 2 positioning axes (round axes)

The package includes:

- ESPRIT Basis License,
- ESPRIT SolidMill Production,
- EMCO Standard-Postprocessor for Siemens, Fanuc or Heidenhain
- EMCO standard machine-model simulation

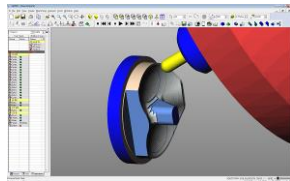
Customer data for licensing:

Company: _____
 Address: _____
 Tel.: _____ Fax.: _____
 Contact Person: _____
 E-Mail: _____
 Customer P.O.-No.: _____

ESPRIT Software-Maintenance contract not included.

224580

SURCHARGE FOR ESPRIT FREEFORM




SURCHARGE FOR ESPRIT FREEFORM

Enables to machine freeform surfaces based on 3-axes interpolation. Upgrades the existing SolidMill or SolidMillTurn modul by NURBS-based 3-axes-multi-surface milling and volume milling. Includes also HSC-machining and optimization of NC-programs.

010250

BASIC TRAINING FOR ESPRIT CAD/CAM

3 days of basic training for ESPRIT CAD/CAM software.
 Max. number of participants: 3 persons
 Location: EMCO in Hallein/Austria
 (Training at the customer's facility on request!)

EMCO CPS Pilot		
224 535	EMCO CPS-PILOT FOR MILLING MACHINE	
	The EMCO CPS-PILOT is the virtual EMCO machine running on a PC. The user is working on an external programming unit with the virtual copy of the machine. This enables to write, test and optimize NC-programs before setting up the machine. This all	



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	<p>allows the user to reach up most machine running time and minimizes the machine set-up time to zero.</p> <p><u>The advantages:</u></p> <ul style="list-style-type: none">• User surface identical to the one of the machine• The user is working as usual on the Siemens or Heidenhain -user surface• 3D simulation behaves the same as the real machine• Collision monitoring for chucking, work piece, tools, tool holders and machine components.• JOG and MDA mode as on the real machine• Ideal for internal machining and operator training <p>► Increase of the real productivity!</p> <p>Automation equipment will not be simulated!</p> <p><u>Customer data:</u> <u>Company:</u> _____ <u>Address:</u> _____ <u>Tel.:</u> _____ <u>Fax.:</u> _____ <u>Contact Person:</u> _____ <u>E-Mail:</u> _____ <u>Customer P.O.-No.:</u> _____</p> <p>ESPRIT Software-Maintenance contract not included.</p>	
224 550	<p>EMCO CPS-PILOT (ADDITIONAL MACHINE ADAPTATION)</p> <p>Additional machine adaptation for EMCO CPS-PILOT – 224 530 or 224 535!</p>	
010 255	<p>BASIC TRAINING FOR EMCO CPS-PILOT</p> <p>1 day training for EMCO CPS-PILOT. Max. number of persons: 2 persons Location: EMCO in Hallein/Austria (Training at the customers facility on request!) 2 days are generally enough!</p>	

MACHINE'S MANUALS:

MANUALS: EMCO EMCOMILL 750

Standard-Languages:

One set included – please confirm one of the standard languages for free.

It includes the CD Siemens 828D

8AO-DE0751



EM 750 Instruction Manual / GERMAN

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-EN0751



EM 750 Instruction Manual / ENGLISH

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-TA0751



EM 750 Instruction Manual / ITALIAN

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

Additional languages at extra costs:

8AO-FR0751



EM 750 Instruction Manual / FRENCH

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-SP0751



EM 750 Instruction Manual / SPANISH

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-SE0751



EM 750 Instruction Manual / SWEDISH

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-CZ0751



EM 750 Instruction Manual / CZECH

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-DK0751



EM 750 Instruction Manual / DANISH

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-NL0751



EM 750 Instruction Manual / DUTCH

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-FI0751



EM 750 Instruction Manual / FINNISH

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-HU0751



EM 750 Instruction Manual / HUNGARIAN

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-PL0751



EM 750 Instruction Manual / POLISH

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-PT0751



EM 750 Instruction Manual / PORTUGUESE

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-RU0751



EM 750 Instruction Manual / RUSSIAN

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-TR0751



EM 750 Instruction Manual / TURKISH

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.

8AO-CN0751



EM 750 Instruction Manual / CHINESE-SIMPLE

It includes information about how to install, operate, maintain and program the machine. The control manuals are provided electronically on a CD-ROM due to environmental reasons.



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ELECTRICAL DOCUMENTATION:

CONTAINED IN THE BASIC MACHINE!!

ADVERTISING FOLDER:

DE7190	EMCOMILL 750 FOLDER – GERMAN
EN7190	EMCOMILL 750 FOLDER – ENGLISH
TA7190	EMCOMILL 750 FOLDER – ITALIAN
FR7190	EMCOMILL 750 FOLDER FRENCH
SP7190	EMCOMILL 750 FOLDER - SPANISH

PACKING:

8AO-COMM750XX01 **STANDARD PACKING MAXXMILL / EMCOMILL 750**
Consisting of: pallet and Rolamit® cover

8AO-COMM750XX02 **CLIMATE PACKING MAXXMILL / EMCOMILL 750**
Consisting of: pallet, aluminium cover, drying agent, small parts

8AO-COMM750XX03 **WOODEN BOX MAXXMILL / EMCOMILL 750**
As additional protection for awkward transports. The climate packing is included in this option and it doesn't have to be ordered with this number.



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TECHNICAL DATA OF THE MACHINE:

Position Range		
X-axis travel	[mm]	750
Y-axis travel	[mm]	610
Z-axis travel	[mm]	500
Distance spindle nose – table, spindle 12.000 rpm	[mm]	175-675
Distance spindle nose – table, spindle 15.000 rpm	[mm]	150-650
Table		
Length	[mm]	900
Width	[mm]	650
Height to floor	[mm]	805
Grooves width "T" (middle: tolerance H7, others: tolerance H12)	[mm]	18
Grooves number		5
Grooves distance	[mm]	125
Work piece weight max.	[kg]	800
Main spindle (mechanical spindle)		
Speed range	[rpm]	50-12.000
Torque (S6)	Nm	100
Spindle power (S6)	kW	15
Tool taper	ISO 40 DIN 69871	
Pull stud	ISO 7388/2 Type B	
Drive	direct drive	
Main spindle (motor spindle)		
Speed range	[rpm]	50-15.000
Torque (S6)	Nm	100
Spindle power (S6)	kW	20
Tool taper (OPTION)	ISO 40 DIN 69871 (HSK-A63)	
Pull stud (OPTION)	ISO 7388/2 Type B (BT40 – DIN 69872)	
Tool Magazine		
Number of tool stations (OPTION)		30 (40/60)
Tool change system		S - arm
Tool management		random
Tool change time (tool - tool)	[sec]	2
Tool diameter max.	[mm]	80
Tool diameter max. (without adjacent tools)	[mm]	125
Tool length max.	[mm]	250
Tool weight max.	[Kg]	8
Drum load max.	[Kg]	100



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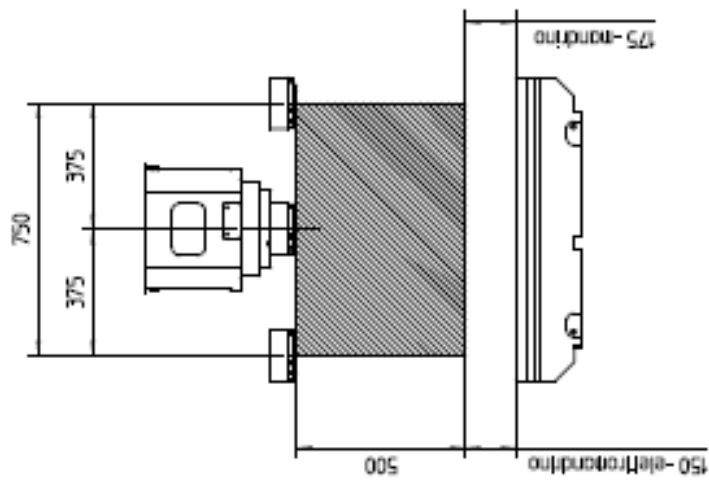
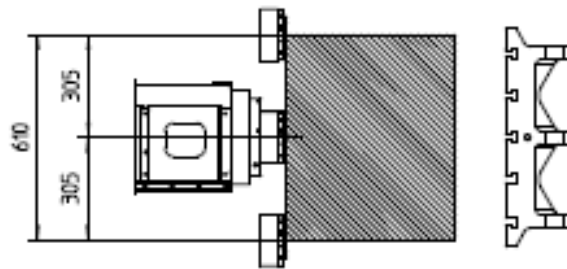
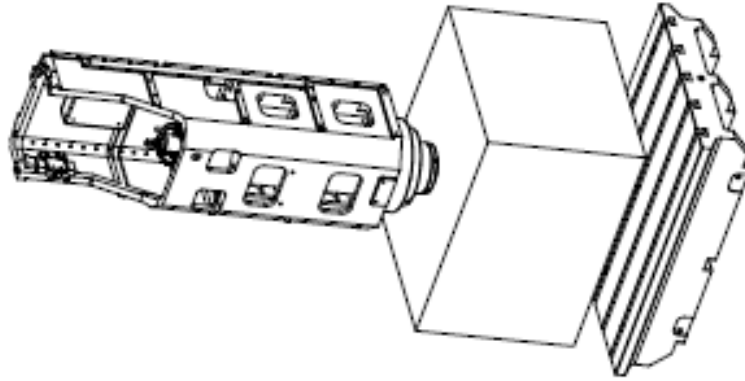
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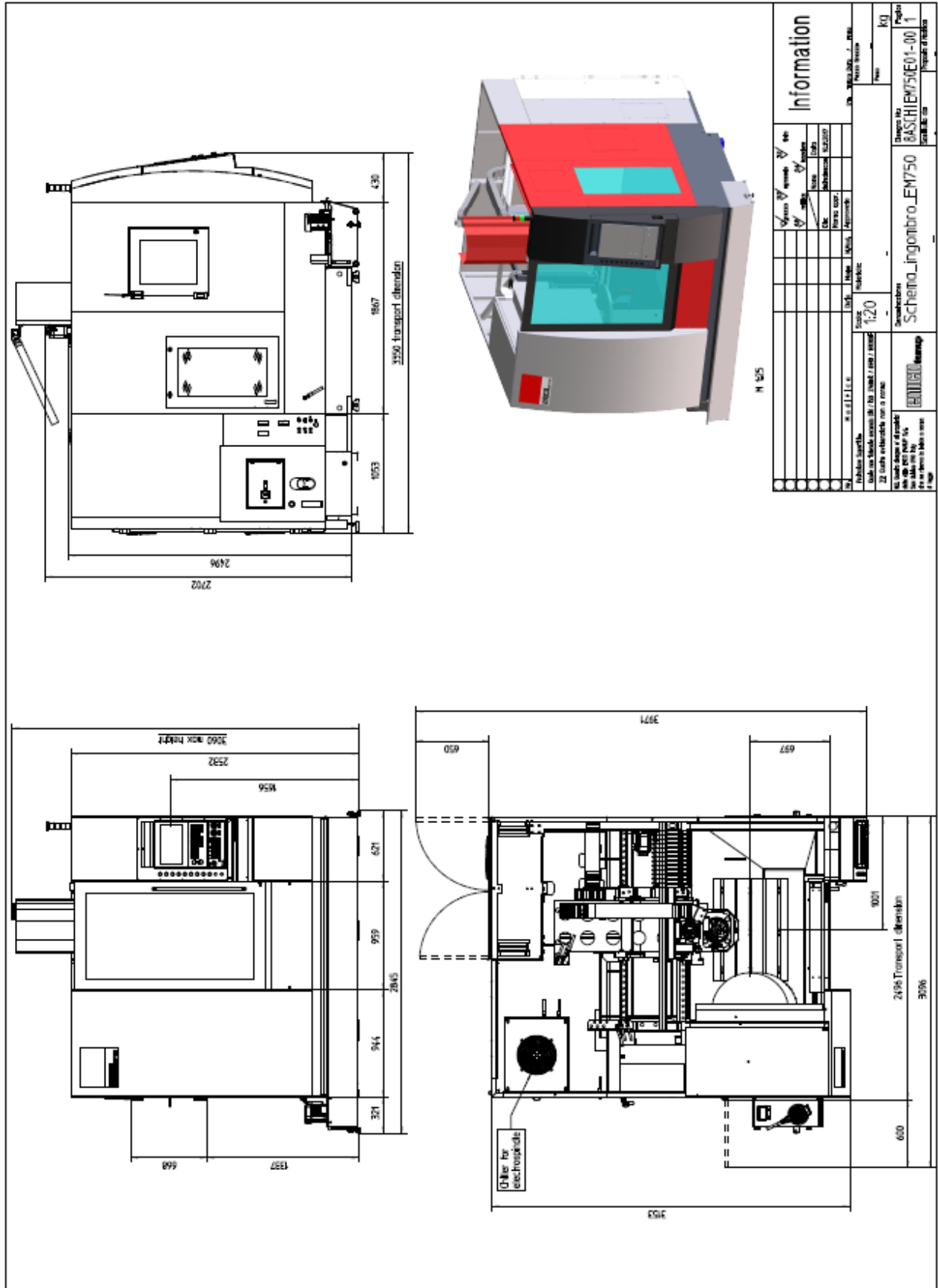
Strokes		
Rapid traverse	[m/min]	30
Acceleration	[m/s ²]	3
Coolant		
Tank capacity	[l]	250
Coolant pressure	[bar]	2
Flow rate 2 bar	[l/min]	40
Output on spindle		2 nozzles
Pneumatic		
Supply pressure	[bar]	6
Supply Volume	l/min	200
Lubrication		
Main spindle		grease lubrication
Guide ways		grease central lubrication
Ball screws		grease central lubrication
Painting		
Red		RAL No. 3020
Light - Grey		RAL No. 7035
Graphite - Grey		RAL No. 7024
Black		RAL No. 9004
Electrical connection		
Power supply	[V]	400 ~3/PE
Voltage fluctuation max.	[%]	+/-10
Frequency	[Hz]	50/60
Connected load of the machine	[kVA]	20
Max. pre-fuse for the machine	[A-slow]	50
Necessary environmental temperature	[°C]	+10 to +35
Dimensions/Weight		
Total height	[mm]	3060
Floor space W×P with coolant tank (without chip conveyor)	[mm]	2770 × 3350
Total weight of machine	[kg]	7500
Noise pressure level		
Average noise pressure level	[db(A)]	78
in following conditions:		
Measuring method: enveloping surface method DIN 45 635		
Measuring point: 1m distance and 1,6m above the floor		
Operating condition: maximum Speed no-load operating		

Technical modifications reserved. Errors and omissions excepted.

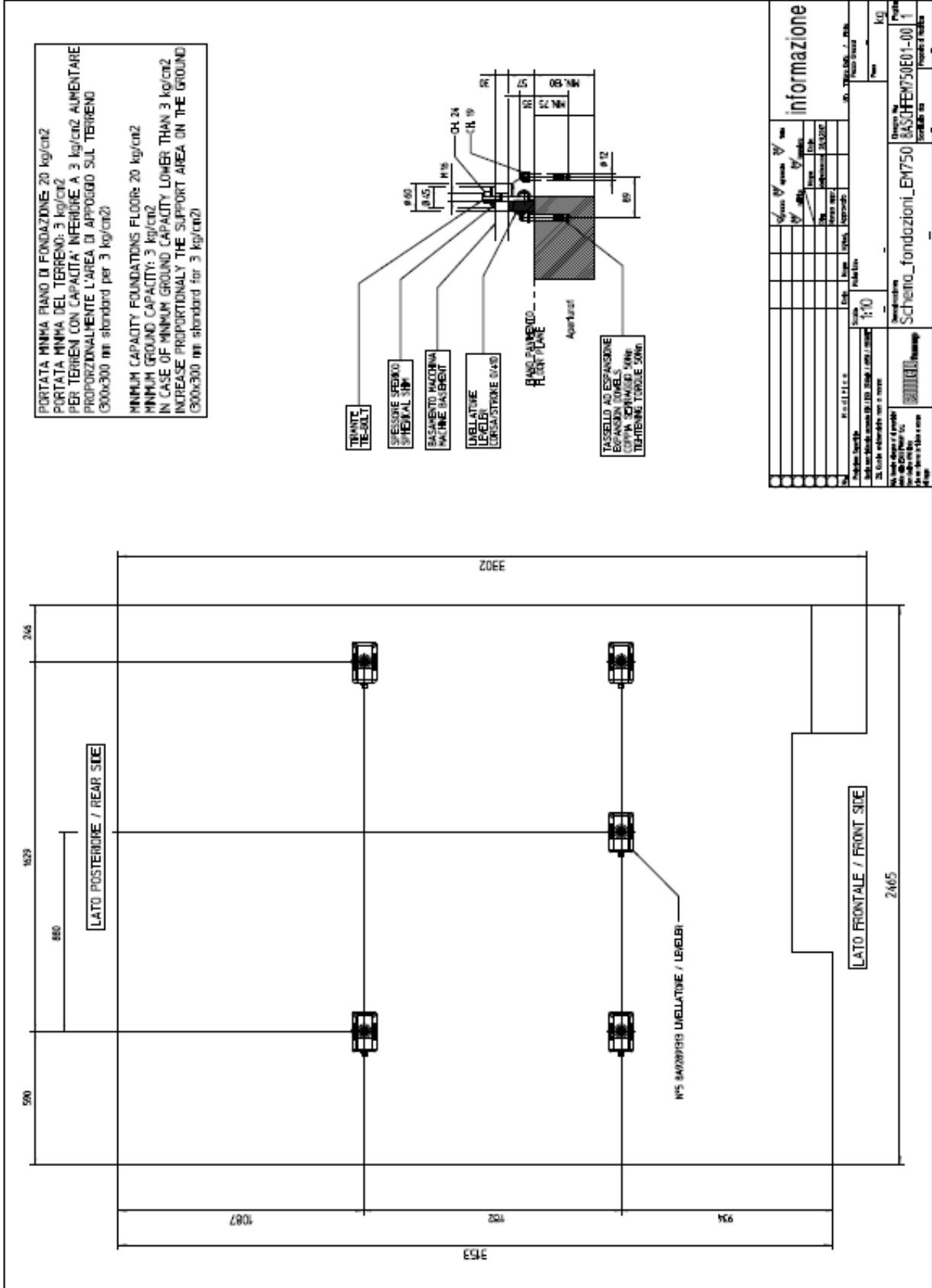
WORK AREA:



MACHINE STD LAYOUT:



FLOOR PLAN:





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CARICHI MASSIMI DINAMICI VERTICALI SUI SUPPORTI
COMPRESIVI DEL PESO DELLA MACCHINA

MAXIMUM DYNAMICS VERTICAL LOADS ON SUPPORTS
INCLUDED MACHINE WEIGHT

SUPPORTO SUPPORTS	CARICO LOAD [kN]
A	35
B	35
C	40
D	35
E	35

CARICHI MASSIMI DINAMICI ORIZZONTALI SUI SUPPORTI
MAXIMUM DYNAMICS ORIZZONTAL LOADS ON SUPPORTS

F = 18 kN

