



Woodworking Technology

 **THAI NAGOYA**  
MACHINERY



**Offer N°SL00405**

**PROJECT 250**



M0PR250000002

N. 1

PROJECT 250  
CNC MACHINING CENTER WITH 3 CONTROLLED AXIS

**BASEMENT**  
HEAVY MONOLITHIC BASEMENT. ELECTROWELDED AND  
ADEQUATELY RIBBED STRUCTURE TO GUARANTEE RIGIDITY AND LONG LASTING  
PRECISION.

**CARRIAGE FOR OPERATING UNITS**  
'CANTILEVER" STRUCTURE TYPE (Y AXIS) WITH HIGH RIGIDITY MADE OF  
WELDED AND RIBBED STEEL.IT MOVES LENGTHWISE (X AXIS) ALONG THE  
BASEMENT AND SUPPORTS A ALUMINIUM CARRIAGE ON WHICH ARE  
MOUNTED THE OPERATING UNITS.



**AXIS DISPLACEMENT X AXIS**  
X AXIS DISPLACEMENT WITH RACK AND PINION.  
RACK WITH GROUND AND RAKING TEETH MADE UP OF HARDENED AND  
TEMPERED STEEL; TEMPERED PINION WITH GROUND TEETH.THE PINION IS  
INTEGRAL TO A EPICYCLOIDAL REDUCTION GEAR WITH HIGH PRECISION.  
ONE FELT PINION IS COUPLED TO THE STEEL PINION AND IS COSTANTLY  
LUBRICATED AND APPLY A LUBRICATING FILM TO THE TEETH OF THE  
RACK TO GUARANTEE LONG LASTING AND PRECISION.

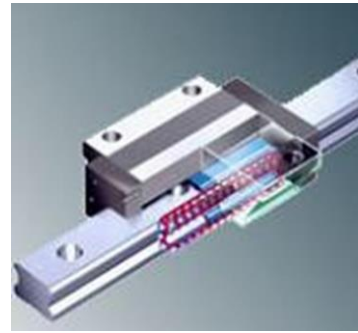


**AXIS DISPLACEMENT Y - Z**  
DISPLACEMENT WITH HIGH PRECISION PRELOADED LEAD SCREWS.  
THE PRELOADING GUARANTEES A TOTAL ABSENCE OF PLAYS FOR HIGH  
DISPLACEMENT PRECISION.  
THE NC CONTROL OF ACCELERATIONS ALONG WITH THE HIGH RIGIDITY  
OF THE STRUCTURE ALLOWS FAST DISPLACEMENT WITHOUT VIBRATIONS.



#### SLIDEWAYS

ALL DISPLACEMENTS ARE WITH LINEAR GUIDES WITH PRELOADED LINEAR BEARINGS WITH DOUBLE SEAL TO PREVENT THE DUST ENTERING INSIDE THE BEARINGS. THIS SYSTEM GUARANTEES UNLIMITED LASTING WITHOUT ANY MAINTENANCE.



#### LUBRICATION

THE MACHINE IS EQUIPPED WITH A CENTRALIZED LUBRICATION SYSTEM WHICH PROVIDES THE DISTRIBUTION OF THE LUBRICANT TO ALL THE MOVABLE PARTS OF THE MACHINE.



#### MOTORIZATIONS

THE AXIS MOTORIZATION IS WITH BRUSHLESS MOTORS (WITHOUT BRUSHES) WHICH ALLOW SPEEDS AND ACCELERATIONS IMPOSSIBLE TO BE REACHED WITH THE TRADITIONAL CC MOTORIZATION AND BRUSHES. NO MAINTENANCE REQUIRED BEING THEM EQUIPPED WITH DIGITAL TECHNOLOGY, THEY GRANT HIGHER PRECISION AND BETTER FINISHING OF MACHININGS.

#### STROKES AND WORKING FIELDS

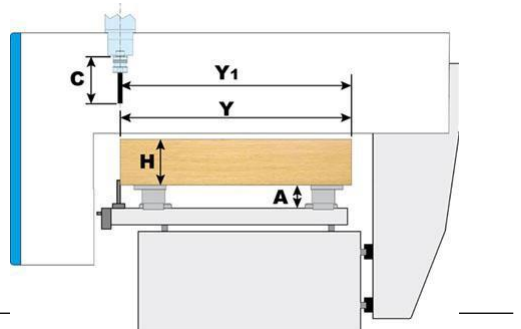
##### WORKING STROKES:

- X = 3380 MM
- Y = 1865 MM
- Z = 350 MM

##### WORKING FIELD - WORKABLE PANELS:

- X = 3000 MM
- Y = 1165 MM (VERTICAL ROUTER AXIS)
- Z =
- \* A = 50 MM
- \* H = 200 MM
- \* C = 205 MM

MAX WORKPIECE CLEARANCE IN Y = 1165 MM



AXIS SPEED:

- X = 65 M/MIN
- Y = 65 M/MIN
- Z = 25 M/MIN

**BORING HEAD**

BORING HEAD FOR VERTICAL AND HORIZONTAL BORING OPERATIONS WITH INDEPENDENT MANDRELS. ALUMINIUM STRUCTURE, MACHINED BY HIGH PRECISION CNC MACHINING CENTRE.

ALL MANDRELS ROTATE SIMULTANEOUSLY, CLOCKWISE OR COUNTER CLOCKWISE INDEPENDENT LAUNCH OF EACH MANDREL THROUGH PNEUMATIC CYLINDERS FOR SINGLE OR MULTIPLE BORINGS.

BORING HEAD IS COMPOSED AS FOLLOWS:



**OGG00014V**

**N. 1**

19 MANDRELS BORING HEAD MADE UP OF:

- 7 INDEPENDENT VERTICAL MANDRELS ALONG X-AXIS
- 6 INDEPENDENT VERTICAL MANDRELS ALONG Y-AXIS
- 2 DOUBLE INDEPENDENT HORIZONTAL MANDRELS ALONG X-AXIS;
- 1 DOUBLE INDEPENDENT HORIZONTAL MANDREL ALONG Y-AXIS
- C/C BETWEEN THE MANDRELS: 32 MM
- 1,7 KW MOTOR POWER
- 4000 RPM REVOLUTION SPEED.



**OGT40050**

**N. 1**

EUROVOLTAGE 380/400/415V 50/60HZ

**O000SELO**

**N. 1**

GROOVING SAW BUILT IN THE BORING HEAD FOR LONGITUDINAL CUTS

- REVOLUTION SPEED 4000 RPM
- MAX.SAW BLADE DIAMETER:125 MM.
- # SAW BLADE NOT INCLUDED



#### VERTICAL ROUTER

ROUTING UNIT MOUNTED ON THE "Z" CARRIAGE WITH PNEUMATIC LAUNCH.  
 DISPLACEMENT WITH LINEAR GUIDE OF 75 MM WIDTH AND PRELOADED LINEAR BEARINGS TO GUARANTEE THE SAME LOADING CAPACITY TOWARD THE 4 DIRECTIONS. THE ABOVE SOLUTION ALONG WITH THE LARGE DISTANCE OF THE Z AXIS GUIDES AND THE OPTIMUM PLACING OF THE LEAD SCREW (IN CENTRAL POSITION) GUARANTEE HIGH ROUTING PRECISION.

THE LOCKING OF THE TOOL HOLDER CONE IS BY BELLEVILLE WASHERS, THE UNLOCKING IS BY PNEUMATIC CYLINDER. TWO SENSORS ENSURE THE CORRECT HOOKING OF THE TOOL.

THE ELECTROSPINDLE IS EQUIPPED WITH A AIR BLOWING CLEANING SYSTEM FOR THE CONE FOR SAFE LOCKING OF THE SAME.

TECNICAL DATAS:

**O000I12KW**

**N. 1**

12 KW AIR COOLED ELECTROSPINDLE

- ISO 30 CONE ATTACHMENT
- REVOLUTION SPEED UP TO 24.000 RPM
- MANUAL QUICK TOOL CHANGE WITH PUSH BUTTON
- AUTOMATIC TOOL CHANGE WITH TOOLS MAGAZINE
- CONES AND COLLETS NOT INCLUDED



**OGG1010G**

**N. 1**

TOOLS MAGAZINE :

- CAROUSEL TYPE WITH 10 POSTS POSITIONED ON CARRIAGE SIDE
- ISO 30 CONE ATTACHMENT
- MAX TOOL DIAMETER: 160 MM.
- C/C DISTANCE BETWEEN THE TOOLS: 175 MM.
- # CONES AND COLLETS NOT INCLUDED



**O00I12KW**

**N. 1**

INVERTER FOR 12 KW ROUTER :

"STATIC FREQUENCY CONVERTER"

- CNC PROGRAMMABLE TOOLS REVOLUTION SPEED
- AUTOMATIC CONTROL OF TOOL BREAKING FUNCTION
- PROTECTION AGAINST CURRENT AND TENSION OVERLOAD AND SHORT CIRCUIT
- TROUBLES DIAGNOSTIC VISUALISED ON DISPLAY

**DCOPJ00009**

**N. 1**

TUBELESS TYPE WORKING TABLE

HIGH TECHNOLOGY SYSTEM MADE OF ALUMINIUM PROFILES SUPPORTING THE SUCTION CUPS OR THE PNEUMATIC CLAMPS.

ALUMINIUM PROFILES WITH INTERNAL CHAMBERS FOR VACUUM FLOW WITH MAGNETIC VALVES OPERATED AUTOMATICALLY BY THE SUCTION CUPS WHEN POSITIONED.

THIS SYSTEM PERMITS TO ELIMINATE ALL EXTERNAL PIPES WITH THE FOLLOWING ADVANTAGES:

- NO RISK OF DAMAGING THE PIPES DURING THE MACHINING.



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- LESS DISTANCE BETWEEN THE SUCTION CUPS FOR BETTER HOLDING OF THIN PANELS.



- POSSIBILITY TO POSITION UP TO 8 SUCTION CUPS ON EACH PROFILE.
- LESS DISTANCE BETWEEN THE PROFILES WITH CONSEQUENT REDUCTION OF THE DIMENSIONS OF THE SMALLEST PANEL TO BE MACHINED.
- EASY SET UP OF WORKING TABLE BY POSITIONING THE SUCTION CUPS WHEREVER NEEDED WITHOUT THE BIND OF THE PIPES.

THE ADVANTAGES OF THIS SOLUTION PERMIT:

- TO SAVE TIME,
- TO BETTER HOLD THE WORKPIECES,
- TO MAKE THE SETUP OF WORKING TABLE EASY, THANKS TO THE WIDE RANGE OF SUCTION CUPS AND PNEUMATIC CLAMPS AVAILABLE

LENGTH WISE POSITIONING OF ALUMINIUM PROFILES WITH LINEAR GUIDES AND PRELOADED LINEAR BEARINGS FOR SMOOTH DISPLACEMENT. LINEAR BEARINGS WITH DOUBLE SEAL TO PREVENT THE DUST FROM ENTERING INSIDE THE BEARINGS. LOCKING OF THE ALUMINIUM SUPPORTS ALWAYS ACTIVATED ON THE TWO GUIDES BY A SPRINGS DEVICE. PNEUMATIC UNLOCKING.

**DCOPJ25010**

**N. 1**

#### TUBELESS TABLE

THE MACHINE IS EQUIPPED WITH NR.6 BARS WHICH INCLUDES CNC CONTROLLED SINKING REFERENCE STOPS MOUNTED INSIDE THE ALUMINIUM PROFILES FOR HIGH RIGIDITY.

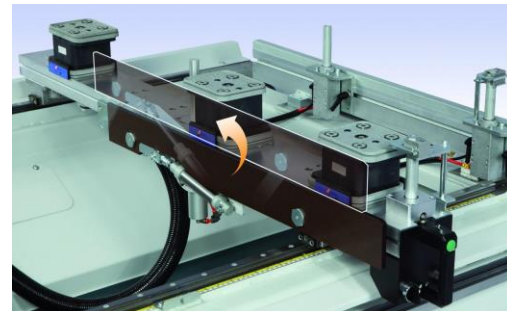
- NR.6 FRONT REFERENCE STOPS
- NR.1 R/H SIDE REFERENCE STOPS
- NR.1 L/H SIDE REFERENCE STOPS

WORKING TABLE DIVIDED IN TWO ZONES FOR "TANDEM" MACHINING: WHILST THE MACHINE IS WORKING IN ONE ZONE, THE OPERATOR CAN LOAD THE PIECE IN THE OTHER ZONE.



#### LIFTING BLADES

N. 4 PANEL LIFTING BLADES FOR EASY LOADING AND UNLOADING OF HEAVY PANELS OR PANELS WITH LARGE DIMENSIONS (2 FOR EACH ZONE).



**OGG00017**

**N. 1**

#### 100 M3/H VACUUM PUMP

ROTARY VANES PUMP TO GENERATE VACUUM WITH A CAPACITY OF 90 M3/H AT 50 HZ (108 M3/H AT 60HZ) THE PUMP IS WITHOUT OIL (DRY) WITH LESS MAINTENANCE COMPARED TO THE NORMAL OIL PUMP.



OV0000PC

N. 1

#### USER INTERFACE ON P.C.

PERSONAL COMPUTER HP COMPAQ 6000 PRO SFF PC

- WINDOWS 7 PRO MUI
- RAM: 4 GB
- HARD DISK: 500 GB
- CD ROM
- MONITOR: 17" LCD
- 2 ETHERNET CARDS
- TWO RS 232 SERIAL PORTS - 6 USB 2.0 - 2 USB 3.0
- MICROPHONE CONNECTORS,AUDIO STEREO IN/OUT
- KEYBOARD: PS2
- MOUSE: PS2

AS THE MACHINE CONTROL IS MADE BY MEANS OF THE PERSONAL COMPUTER, THE USER ISN'T ALLOWED TO MAKE ANY HARDWARE OR SOFTWARE MODIFICATION IF NOT AUTHORIZED IN WRITING, UNDER PAIN OF WARRANTY'S LOSS.

#### TELEASSISTANCE ON LINE :

MACHINE IS DELIVERED WITH AN ETHERNET CARD REQUIRED FOR THE INTERNET CONNECTION FOR THE TELEASSISTANCE ON LINE. TELEMATIC CONNECTION TO MASTERWOOD HOT LINE ALLOWS A REMOTE INTERVENTION FOR IMMEDIATE SOLUTIONS TO EVENTUAL PROGRAMMATION PROBLEMS RELATED TO OPERATIVE SYSTEMS, HARDWARE CONFIGURATIONS, SOFTWARES UPDATINGS REDUCING THE COSTS PRODUCED BY THE MACHINE STOP. #ADSL LINE CONNECTION AT CUSTOMER'S EXPENSE.



O0000MWC0

N. 1

#### MASTERWORK MACHINE VERSION

MASTERWORK IS A GRAPHIC PROGRAMMING SYSTEM WHICH ALLOWS TO AVOID THE ISO PROGRAMMING THANKS TO AN EASY, FAST AND INTUITIVE GRAPHIC INTERFACE. THIS BECAUSE MASTERWORK IS NOT A GRAPHIC COMPILER OF LINES (ISO), BUT IT'S A REAL PROGRAMMING ENVIRONMENT ORIENTED TO THE WORKPIECE.

IT IS A TOOL FOR ALL USERS, BUT SPECIALLY DEDICATED TO WHOM HAVE NO EXPERIENCE OF PROGRAMMING.

MASTERWORK COMPLIES WITH WINDOWS STANDARDS AND GUARANTEES THE IMMEDIATE AND EASY UNDERSTANDING OF ALL COMMANDS.

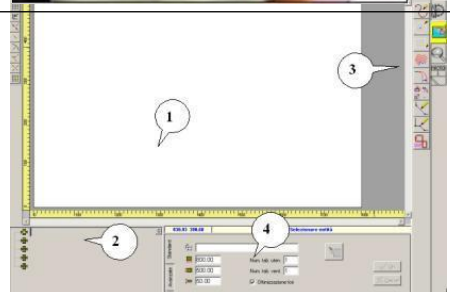
THE MAIN AREAS TO BE USED ARE 4:

- THE FIRST ONE IS THE "CENTRAL WINDOW" (1) GRAPHIC AND INTERACTIVE WHICH VISUALIZES THE MACHINING CARRIED OUT ON THE SELECTED SURFACE WITH ZOOM POSSIBILITY AND PATH SELECTION FOR MODIFICATIONS OR ADDITIONS.

- ON THE L/H WINDOW (2) IT IS POSSIBLE TO ACTIVATE THE MACHINING MENU SELECT THE SURFACE TO BE VISUALIZED,THE MACHINING TO BE MODIFIED OR THE RELEVANT SEQUENCE BY SIMPLY USING THE MOUSE.

- IN THE R/H DOUBLE COLUMN (3) IT IS POSSIBLE TO SELECT THE VARIOUS PHASES FOR CREATING THE PROGRAMME SUCH AS THE DRAWING, THE MACHININGS AND THE ACTIONS TO TAKE:I.E.:DRAW A STRAIGHT LINE OR A CIRCLE. THIS WILL ALLOW TO FILTER THE LARGE NUMBER OF OPTIONS AVAILABLE, MAKING ITS USE MORE RATIONAL AND INTUITIVE.

- IN WINDOWS (4) CAN BE INPUT THE MACHINING PARAMETERS NEEDED FOR THE SELECTED FUNCTION. TO MAKE IT EASY HAS BEEN USED A LARGE NUMBER OF SYMBOLS, MAKING THIS PHASE FULLY GRAPHIC AND INTUITIVE.





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MASTERWORK DOESN'T NEED MACROS OR EXTERNAL ADDITIONS FOR BASIC  
FUNCTIONS BECAUSE THE GRAPHIC FUNCTIONS THEMSELF ARE MORE THAN

ENOUGH. MASTERWORK IS ABLE TO CARRY OUT PARAMETER.

IT IS ALSO POSSIBLE TO USE ADVANCED FUNCTIONS SUCH AS GRAPHIC VISUALIZATION STEP BY STEP OF THE PROGRAMME, VISUALIZATION OF TOOL PATH ON THE PIECE, ZOOM FUNCTION, MEASURING FUNCTIONS, MACHINING TIME CALCULATION AND PROGRAMME CHECK.

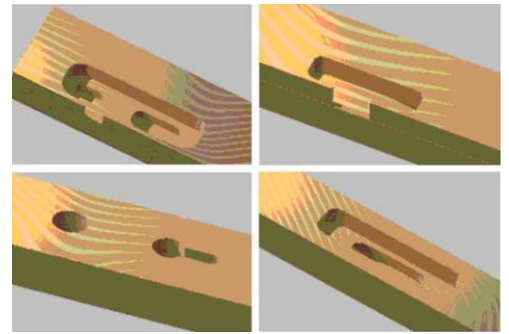
MASTERWORK ALSO ALLOWS THE USE OF ALL THE TYPICAL CAD FUNCTIONS: HOOKING, OFFSET, SCALE, ROTATE, RADIUS, BEVEL AND MANY OTHERS.

#### DETAILS

- GRAPHIC BORING - ROUTING AND CUTTING PROGRAMMING
- BORING CYCLE OPTIMIZATION
- REALISATION OF PROFILES AND PARAMETRIC DRAWINGS
- TOOLS CONFIGURATION (MACHINE SETTING - TOOLS EDITOR)
- GRAPHIC BASIC MACROS FOR SIMPLE AND COMPLEX ELABORATIONS
- GRAPHIC VISUALISATION OF THE SURFACES TO BE MACHINED
- IMPORTING OF DXF FILES GENERATED BY CAD SYSTEMS OR BY COMMERCIAL PROGRAMMES FOR FURNITURE PROCESSING
- AUTOMATIC CONVERSION OF DXF FILES INTO ISO PROGRAMMES

#### PRE DEFINED MACROS:

TO CARRY OUT PARTICULAR GEOMETRIES IT IS POSSIBLE TO USE PRE DEFINED GRAPHIC MACROS. IT IS ALSO POSSIBLE TO REALIZE PERSONALISED MACROS FOR DEDICATED ALGORITHMS DIRECTLY IN ISO ENVIRONMENT AND THEN, RECALLING THEM IN GRAPHIC ENVIRONMENT, DEFINE THE MACHINING PARAMETERS



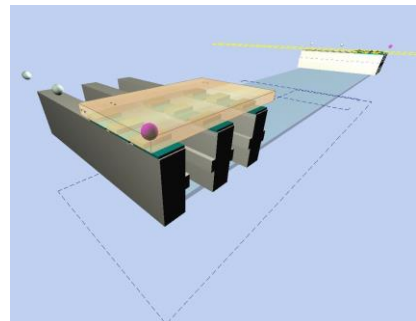
#### DXF FILES IMPORT:

IT IS POSSIBLE TO MODIFY AND MAKE DRAWINGS IN DXF FORMAT CONTAINING THE TECHNOLOGICAL INFORMATION. OBVIOUSLY, BY IMPORTING DXF FILES, MASTERWORK IS OPEN TO ALL THE VARIOUS PROGRAMMES ON THE MARKET.

FURTHERMORE, THIS FUNCTION ALLOWS THE PROGRAMMING OF THE MACHINE DIRECTLY FROM AUTOCAD WITHOUT FURTHER OPERATIONS.

#### SUCTION CUPS POSITIONING:

MASTERWORK CAN HANDLE THE POSITIONING OF THE SUCTION CUPS ACCORDING TO THE PROGRAMME IN PARAMETRIC MODE. IN OTHER WORDS, IF THE SIZES OF THE PIECES CHANGE, THE POSITIONING OF THE SUCTION CUPS WILL CHANGE ACCORDINGLY. THE COORDINATES OF THE CUPS (INCLUDED THE ROTATION ANGLE) CAN BE VISUALIZED DIRECTLY ON THE ALUMINIUM SUPPORTS (OPTIONAL) OR ON THE PENDANT PUSH BUTTON (OPTIONAL). ON THE COMPUTER SCREEN ARE VISUALIZED THE POSSIBLE COLLISION WITH THE TOOL BY PAINTING WITH YELLOW COLOUR THE INTERESTED PARTS.



MASTERWORK OFFICE VERSION  
 SAME FUNCTIONS OF MACHINE VERSION, BUT IT CAN BE USED IN THE OFFICE AS  
 PROGRAMMES GENERATOR AND AS SINGLE PROGRAMMING STATION FOR ALL  
 THE MASTERWOOD'S MACHINES. N. 1 HARDWARE SAFETY KEY INCLUDED.

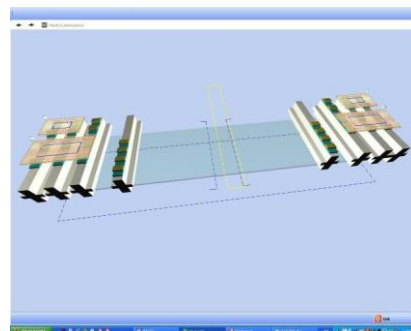
**O0000MWAT0**      **N. 1**

#### MASTER AT

IT IS A 3D VISUAL ENVIRONMENT ALLOWING THE ARRANGEMENT OF  
 WORKING TABLE, VACUUM BARS, AS WELL AS SUCTION PADS POSITIONING.  
 IT DISPLAYS THE WORKPIECE AND THE WORKING TABLE COMPLETE WITH  
 CLAMPING SYSTEMS (SUCTION PADS OR CLAMPS) AVAILABLE ON THE WORKING  
 CENTRE.

IT WILL EXECUTE THE CORRECT POSITIONING OF THE CLAMPING SYSTEM SO AS  
 TO ENSURE A SOLID POSITIONING OF THE WORKPIECE WITHOUT INCURRING  
 ANY INTERFERENCE BETWEEN THE CLAMPING DEVICES AND THE CUTTING TOOL.  
 AS FINAL OPERATION, MASTER AT WILL OUTPUT ALL THE INFORMATION SO AS  
 TO ALLOW THE CORRESPONDING MANUAL PLACEMENT (BASED ON METRIC RULERS  
 OR DIGITAL READOUT DISPLAYS) OR AUTOMATIC POSITIONING FOR MACHINES  
 EQUIPPED WITH AN AUTOMATIC WORKING TABLE.

MASTER AT ALSO ALLOWS THE PLACEMENT OF MULTIPLE WORKPIECES AND  
 SUBSEQUENT OPTIMIZATION OF TOOLS PATH REDUCING SIGNIFICANTLY THE  
 EXECUTION TIME OF EACH PIECE.



**OPTINKITM**      **N. 1**

#### OPTIONALS FITTED ON THE MACHINE

THE FOLLOWING OPTIONALS WILL BE FITTED ON THE MACHINE BY MASTERWOOD  
 TECHNICAL STAFF AT FACTORY

**OPTKTNCP250**      **N. 1**

#### KIT FOR BASIC SAFETY PROTECTIONS :

- TOTAL TRANSPARENT ENCLOSURE OF OPERATING HEAD TO CHECK THE WORKING ZONE
- SAFETY MATS TO DETECT THE OPERATOR'S PRESENCE
- SIDE AND REAR ANTI INTRUSION PROTECTIONS
- # KIT NOT IN ACCORDANCE WITH EC STANDARDS



**OPTKTM026**      **N. 1**

#### KIT REAR SINKING STOPS NC CONTROLLED FOR DOUBLE REFERENCE FOR WORKTABLE WITH 6 ALUMINIUM SUPPORTING BARS:

- 6 REAR STOPS
- 1 R/H SIDE STOP
- 1 L/H SIDE STOP

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# WORKING FIELD - WORKABLE PANELS:  
- Y = 1236 MM (VERTICAL ROUTER AXIS)

# MAX WORKPIECE CLEARANCE IN Y = 1425 MM

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**OPTKTMP19** N. 1

KIT 6 REAR AND 2 SIDE SINKING REFERENCE STOPS FOR VENEERED PANELS WITH OVERHANG.

- MINIMUM THICKNESS OF PANEL: 20 MM



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**OPRKT011** N. 1

PREARRANGMENT FOR HORIZONTAL ROUTER ASSEMBLY

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**OGG00474** N. 1

PENDANT PUSH-BUTTON STRIP WITH:

- EMERGENCY PUSH-BUTTON
- HOLD PUSH-BUTTON
- START PUSH BUTTON FOR R/H WORKING AREA
- START PUSH-BUTTON FOR L/H WORKING AREA
- OVERRIDE (MACHINING SPEED VARIATOR)



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**OPTKT0028** N. 1

KIT AIR CONDITIONER FOR THE ELECTRICAL CABINET

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**OSCH0V01** N. 12

SUCTION CUP 114 X 140 X 50 MM.



**OSCH0V03** N. 6

SUCTION CUP 125 X 75 X 50 LENGTHWAY.



**OIMB0008C** N. 1

SEAWORTHY PACKING

- PALLET
- MACHINE COVERED WITH SEAWORTHY NYLON

**OCOLL000M1** N. 1

MACHINE INSTALLATION : "MEDIUM" VERSION TRAINING

SET UP :

THE SET UP WILL BE PERFORMED BY OUR TECHNICIANS FOLLOWING THE PROCEDURE IN THE CONTRACT AND EXPLAINED BELOW.

IMPORTANT ! UPON ARRIVAL OF THE TECHNICIAN :

- THE MACHINE SHALL BE POSIITONED IN THE ESTABLISHED LOCATION AND ON THE PLATES SUPPLIED WITH IT.
- ELECTRICAL AND PNEUMATIC CONNECTIOND SHALL BE ARRANGED
- SHAVING HOOD COLLECTOR SHALL BE ARRANGED AND READY TO BE CONNECTED TO THE MACHINING CENTER AS SOON AS THE TECHNICIAN FINISHES THE ASSEMBLING.
- THE TOOLS SHALL BE READY TO USE AND SHALL CONFORM TO THE CHARACTERISTICS SUPPLIED BY OUR COMPANY.

SET UP AND CHECK UP :

- MACHINE AND ACCESSORIES STATUS CHECK UP
- POSITIONING AND LEVELLING
- REMOVAL OF THE TRANSPORT FASTENING JIGS
- ASSEMBLY OF THE COMPONENTS PACKED SEPARATELY DURING TRANSPORT
- PERIMETRICAL PROTECTIONS ASSEMBLY
- SAFETY MATS ASSEMBLY
- ELECTRICAL AND PNEUMATIC CONNECTION

ESTIMATED HOURS : 14

TRAINING AND MAINTENANCE :

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- DURING THE STAY IN YOUR PREMISES, OUR TECHNICIAN WILL EXPLAIN THE  
FUNCTIONING OF THE DIFFERENT WORK PIECE HOLDERS (VACUUM CUPS) AND THE  
CONFIGURATION OF TOOLS ( BORING AND ROUTING)

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- INSTALLATION, CONFIGURATION AND PROCESSING TESTS OF CHIPS DEFLECTORS (UP TO 3 PIECES)
- INSTALLATION, CONFIGURATION AND PROCESSING TESTS OF THE HORIZONTAL TILTING ROUTING UNIT OR INDEX AGGREGATE.
- NORMAL MAINTENANCE REQUIRED DURING NORMAL MACHINE OPERATIONS
- DURING THE ABOVE MENTIONED TRAINING, PRACTICAL TESTS SHALL BE DONE FOR EVERY SUBJECT SUCH AS THE VERTICAL BORING, HORIZONTAL BORING, PANEL SQUARING, ROUTING OF ONE PARTICULAR PANEL TYPE, USE OF AN AGGREGATE (INDEX OR TILTING ONE), ROUTING ON FLAT SURFACES (5 FACES), ROUTING OF ONE FLASH DOOR.

ESTIMATED HOURS : 32

ALL THE TRANSFER, JOURNEY, BOARDING AND LODGING EXPENSES ARE INCLUDED

NOTES :

- BEFORE THE RECEIPT OF YOUR MACHINING CENTER, YOU WILL BE INVITED BY OUR TECHNICAL SERVICE DEPARTMENT TO PARTICIPATE TO OUR MANDATORY TRAINING COURSE AT OUR PREMISES. THE COURSE IS FREE OF CHARGE AND DOES NOT INCLUDE TRAVEL, LODGING AND BOARDING.

DUE TO ORGANIZATIONAL REASONS, THE MAXIMUM PARTICIPANTS PER COMPANY IS LIMITED TO 3 AND WILL LAST TWO DAYS ACCORDING TO THE FOLLOWING SCHEDULE : 08:30-12:30 / 14:00-17:30.

MASTERWOOD OFFERS THE POSSIBILITY TO TAKE ADVANTAGE OF SPECIAL LODGING CONDITIONS RESERVED FOR OUR CUSTOMERS THAT WILL BE COMUNICATED TOGETHER WITH THE TRAINING INVITATION.

- ADDITIONAL TRAINING DAYS NOT INCLUDED IN THE CONTRACT WILL BE INVOICED ( EURO 720,00/DAY - VAT EXCLUDED)
- IDLE OR WAITING HOURS NOT RESULTING FROM MASTERWOOD FAULT WILL BE CHARGED 64,00 EURO PER HOUR ( VAT EXCLUDED)

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**OCOLL00FM1**

**N. 1**

INSTAL. IN: ALTRI PAESI INCLUSO BIGLIETTO AEREO

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