

YBDARK

BURSİM
CNC CENTER

2009
CATALOGUE

About Bursim

BURSIM Engineering, Revision, Software and Machine Company keeps his production in Turkey's one of the biggest industry cities; Bursa on. The Company Magazine of this company spent a long time to get their experiences about machinery production and BURSİM continues to follow innovations about technology. Based on this intelligence BURSİM produces CNC router, CNC Plasma, CNC Point and CNC Model Machines which are used in industry. We improve the machine models and software in direction of our customer-focused understanding. By expectations of our customers, including ; to increase the productivity, to reach the best quality production we resume optimal price and the best quality for our customers.

Core Business:

Wood Working Machinery
Special Machine Production
Engineering services
Automation for Machine and Factory

Other Workspace:

"NC-CNC" machines production and software
Consulting service to Factories about Modification of "CNC" Machines.

Mission

We can submit our mission as to continue catching latest "CNC Machine Technology" on the Earth and resuming this technology to our business partners. As a Company principle self- development and self-renewal are our roadmap.

Vision

We can submit our vision as; to be a productive and effective Company who has the global requirements of his focused sectors and preferred as a Strategic Job Partner. To reach our vision we will be making some analysis including; Customer Satisfaction, Production processes, Financial situation. We draw an action plan based on our analysis reports and continue to give our best to our partners in business.

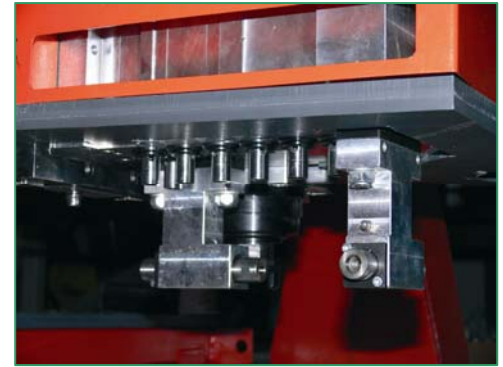
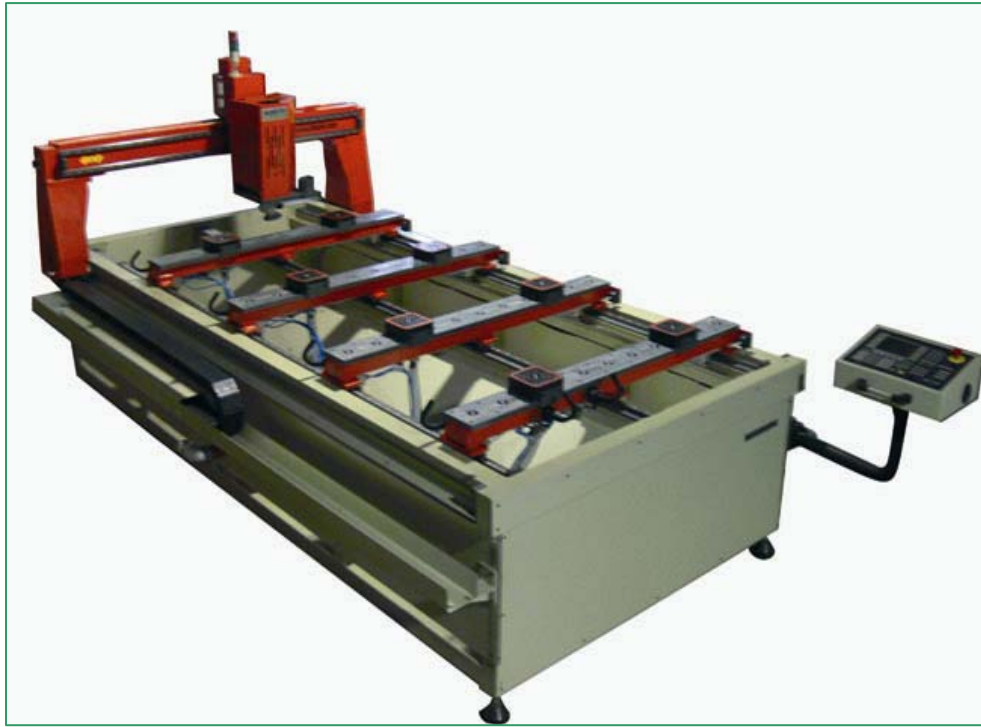


- The axis Y absolute encoder servo motor vibration and its motor vibration is kremer geared.
- **The axis X has double absolute encoder servo motor vibration on bridge and its motor vibration is kremer geared.**
- The axis Z has broken absolute encoder servo motor vibration and its motor vibration is screwed pin.
- **On all axes are used 25 rails and cart with ball in 4 line.**
- On the bridge is a CNC controlled gantry system and parallelism is protect very sensitive.
- **Whole body is steel construction and the tension expense is carried away.**
- The working sensitivity is 0.01 mm
- CNC Digital Control Unit
- **Level surface sensitivity is 0.1mm**
- Thanks to absolute encoder engines stay the positions at on and off fixed and do not need to go to origin.

- **Data transfer from Ethernet, RS 232 and Card Reader.**
- Absolute Encoder servo engine and drivers.
- **Safe control which covers the CNC, PLC, MCP, and I/O parts**
- DIN programming.
- CNC Machine Control Panel.
- **Polyline, circular, spline interpolation**
- **8.5 KW 24000 Rpm / Electric Fan Drawing Spindle (ISO 30 – HSK 63)**
- Master drive inverters.
- **Dust induction system equipment**
- **Machine Control Panel**
- **Double Side Agregat – Magazine of 6 Tool Holder**
- **Bouring Unit with 9 VERTICAL tools 3 Double-Side (3x2) HORIZONTAL tools (Point-to-Point Feature) + 1 saw with 90° rotary mill**
- C Axis Unit (4 th AXIS)
- **Automatic Loading and Unloding Unit.**
- **At the Front and Back Hydraulic Elevators (Lifting Platform) ; 2.000 Kg Lifting Power**
- **Automatic and Hydraulic material conveyer ; 100 Kg Material Lifting Power**



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- **On all axes are used 25 rails and cart with ball in 4 line.**
- On the bridge is a CNC controlled gantry system and parallelism is protect very sensitive.
- **Whole body is steel construction and the tension expense is carried away.**
- The working sensitivity is 0.01 mm
- CNC Digital Control Unit
- **Level surface sensitivity is 0.1mm**
- Thanks to absolute encoder engines stay the positions at on and off fixed and do not need to go to origin.
- **Data transfer from Ethernet, RS 232 and Card Reader.**
- Absolute Encoder servo engine and drivers.
- **Safe control which covers the CNC, PLC, MCP, and I/O parts**
- DIN programming.
- CNC Machine Control Panel.
- **Polyline, circular, spline interpolation**
- **8.5 KW 24000 Rpm / Electric Fan Drawing Spindle (ISO 30)**
- Master drive inverters.
- **Dust induction system equipment**
- **Machine Control Panel**
- MOVING VACUUM TABLE - POINT TO POINT MACHINE (4 PIECES MOVING VACUUM CONSOLE - 8 PIECES BIG SIZE -4 PIECES SMALL SIZE VACUUM ELEVATING CASE)
- 165 M3 Oiled Vacuum Pump.
- **Bouring Unit with 9 VERTICAL tools 3 Double-Side (3x2) HORIZONTAL tools + 1 saw with 90° rotary mill**
- (ATC) AUTOMATIC TOOL CHANGER (up to 6)
- **Quad Side Agregat - Magazine of trinity (3) Tool Holder**



- **The axis Y has servo motor vibration and its motor vibration is kremier geared.**
- The axis X has double servo motor vibration on bridge and its motor vibration is kremier geared.
- **The axis Z has breaked servo motor vibration and its motor vibration is screwed pin.**
- On all axes are used 25 rails and cart with ball in 4 line.
- **On the bridge is a CNC controlled gantry system**
- **Whole body is steel construction and the tension expense is carried away.**
- **Servo engine, driver and inverter**
- Dust induction system equipment
- **All companions are colored with electrostatic oven color.**
- Data transfer by RS 232
- Level surface sensitivity is 0.1mm
- **DIN programming**
- **The working sensitivity is 0.01 mm**
- Safe control which covers the CNC, PLC, MCP, and I/O parts
- CNC Control unit
- **Polyline, circular interpolation**
- 4 - 8.5 Kw 18.000 – 24.000 Rpm spindle. (ER 32 PENS)
- **Machine Control Panel**
- MOVING VACUUM TABLE – POINT TO POINT MACHINE (4 PIECES MOVING VACUUM CONSOLE – 8 PIECES BIG SIZE -4 PIECES SMALL SIZE VACUUM ELEVATING CASE)
- 165 M3 Oiled Vacuum Pump.
- Boring Unit with 7 VERTICAL tools 2 Double-Side (2x2) HORIZONTAL tools (Boring Unit)
- **Quad Side Agregat – Magazine of trinity (3) Tool Holder**



- The axis Y absolute encoder servo motor vibration and its motor vibration is kremer geared.
- **The axis X has double absolute encoder servo motor vibration on bridge and its motor vibration is kremer geared.**
- The axis Z has broken absolute encoder servo motor vibration and its motor vibration is screwed pin.
- **On all axes are used 25 rails and cart with ball in 4 line.**
- On the bridge is a CNC controlled gantry system and parallelism is protect very sensitive.
- **Whole body is steel construction and the tension expense is carried away.**
- The working sensitivity is 0.01 mm
- CNC Digital Control Unit
- **Level surface sensitivity is 0.1mm**
- Thanks to absolute encoder engines stay the positions at on and off fixed and do not need to go to origin.
- **Data transfer from Ethernet, RS 232 and Card Reader.**
- Absolute Encoder servo engine and drivers.
- **Safe control which covers the CNC, PLC, MCP, and I/O parts**
- DIN programming.
- CNC Machine Control Panel.
- **Polyline, circular, spline interpolation**
- **8.5 KW 24000 Rpm / Electric Fan Drawing Spindle (ISO 30)**
- Master drive inverters.
- **Dust induction system equipment**

DIGITAL CNC CONTROL UNIT FUNCTIONS

Windows NT, NURBS interpolation, automatic reference cycle, equipment length and regulating the piece graphic 120 tool offset (equipment length and corrosion) can be entered. Equipment using period control, changeable speed control

Data Transfer: MDI operation RS 232C interface

Programming Functions : Piece programming editor with cutting, searching, pasting, reach and changing function radius angled corner, automatic corner override, writing a program during working another program, to be able to see and calculate the entry time, helical interpolation, engraving pieces on the pole coordination, polynomial and spline interpolation, to make a programmable window.

Scaling the coordination and angular turning, testing the program without moving the axis, searching as to line numbers, the set of instruments length composition, piece zero included 100 pieces (G53-G57, G500-G599).

Operation : x/y is concurrent-operation automatic reference function, empty testing, wait, emergency stop, forward hold on, steps of the forward speed (%0 - %120), jog progressing, restarting in the middle of the program, operation stop, stepping the maximum speed, working line by line, searching line by line, stepping the work pin speed, locking the axis Z.

Other: Alarm screen, cavity compensation, and definite cavity compensation, for entry and exit identifications screen is English (French, Italian, Spanish languages are optional).

	IBDARK Prorouter 2412	IBDARK Prorouter 3116	IBDARK Prorouter 3121	IBDARK Prorouter 4121	IBDARK Prorouter 6121
Net Working Area (mm)	2400x1200x300	3100x1600x300	3100x2100x300	4100x2100x300	6100x2100x300
External dimensions of machine (mm)	3400x1600x1800	3700x2000x1800	3700x2500x1800	4700x2500x1800	6700x2500x1800

- **Options ;**
- **Automatic air ventilled vacuum table**
- **Automatic Tool Changing (6-8-12 Tools)**
- **Double Side Aggregate and sextuplet (6 tools) Tool Changing**
- **Handheld Control Unit.**
- **DIGITAZING (Optic Scanning – Automatic Drawing)**
- **Vacuum Elevating System 8 pieces big 4 pieces small vacuum case**
- **Bouring Unit with 9 VERTICAL tools 3 Double-Side (3x2) HORIZONTAL tools (Point-to-Point Feature) + 1 saw with 90° rotary mill**
- **C Axis Unit (4 th AXIS)**



- The axis Y has servo motor vibration and its motor vibration is kremier geared.
- **The axis X has double servo motor vibration on bridge and its motor vibration is kremier geared.**
- The axis Z has broken servo motor vibration and its motor vibration is screwed pin.
- **On all axes are used 25 rails and cart with ball in 4 line.**
- On the bridge is a Automatic controlled gantry system.
- **Servo engine , driver and inertors**
- Whole body is steel construction and the tension expense is carried away.
- **Dust induction system equipment.**
- All companions are colored with electrostatic oven color.
- **Data transfer by RS 232**
- **Level surface sensitivity is 0.1mm**
- DIN programming
- The working sensitivity is 0.01 mm
- **Safe control which covers the CNC, PLC, MCP, and I/O parts.**
- **CNC Control unit.**
- Polyline, circular interpolation.
- 3.5 Kw 18000 Rpm spindle. (ISO 30)

	IBDARK Fastrouter 2412	IBDARK Fastrouter 3116	IBDARK Fastrouter 3121	IBDARK Fastrouter 4121	IBDARK Fastrouter 6121
Net Working Area (mm)	2400x1200x200	3100x1600x200	3100x2100x200	4100x2100x200	6100x2100x200
External dimensions of machine (mm)	3000x1400x1700	3600x1900x1700	3600x2300x1700	4600x2300x1700	6600x2300x1700

Options ;

- **Automatic air ventilled vacuum table**
- **Automatic Tool Changing (6-8-12 Tools)**
- **4 Kw 24.000 Rpm Spindle (ISO 30) (ATC SPINDLE)**
- **Costumer oriented solutions**

IBDARK ROUTER GENERAL SPECIFICATIONS

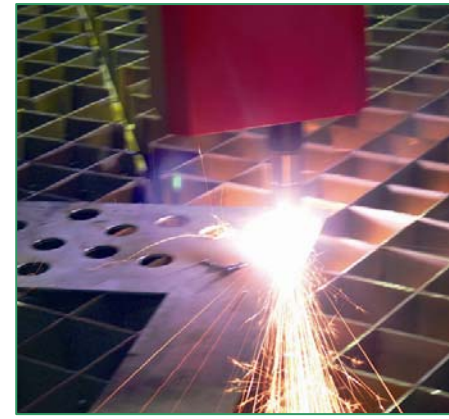


- **The axis Y has step motor vibration and its motor vibration is kremier geared.**
- The axis X has double step motor vibration on bridge and its motor vibration is kremier geared.
- **The axis Z has step motor vibration and its motor vibration is screwed pin.**
- On all axes are used 25 rails and cart with ball in 4 line.
- **Whole body is steel construction and the tension expense is carried away.**
- The working sensitivity is 0.01 mm
- **Level surface sensitivity is 0.1mm**
- All companions are colored with electrostatic oven color.
- PC based control unit
- **Step engine, drivers and invertors**
- Polyline, circular interpolation
- **DIN programming**
- Data transfer by RS 232
- **Dust induction system equipment**
- 2.2 Kw 18000 Rpm Spindle (ISO 30)

	IBDARK Router 2412	IBDARK Router 3116	IBDARK Router 3121	IBDARK Router 4121
Net Working Area (mm)	2400x1200x150	3100x1600x150	3100x2100x150	4100x2100x150
External dimensions of machine (mm)	3000x1400x1600	3600x1900x1600	3600x2300x1600	4600x2300x1600

Options ;

- **Automatic valved vacuum table**
- **Vacuum table with double roomed aliminium tray**
- **Special solutions for customers**



- **The axis Y has servo engine vibration and its engine vibration is premier geared.**
- The axis X is on a bridge with double servo engine and its engine vibration is premier geared.
- **The axis Z has broken servo engine vibration and its motor vibration is screwed pin.**
- On all axes there is kuve 25 railed system.
- **With 15" touch screen industrial PC**
- Data transfer from USB and Network
- **Online Service**
- Possibility to prepare the pieces only by entering the measures of figure (over 72 standards figures)
- **Possibility to work importing the files dxf, dwg, g-codes**
- Possibility to get in to the piece from the top and outside
- **Possibility to determine automatic entrance and exit**
- Thank to automatic nesting serial cutting we make profit about %30 in pieces
- **Possibility to order the manual nesting**
- Preparing statistically and graphically report
- **High progressing speed in free position**
- **HYPERTHERM EDGE 2 / EDGE TI CONTROL UNIT**
- **Possibility to turn the piecing program as to piece**
- With automatic gantry sensitive parallelism
- **Polyline, circular, spline interpolation**
- Possibility to cut the curled pieces with automatic highness control

- **Closed system and one ventilation sortie to prevent the gas spreading out and to aspirate the gas**
- In 8 different rooms air canals and during cutting automatic opening pneumatic covers which suit to the cutting area.
- **Trough 8 different drawer getting possibility to take the fallen pieces**
- Trough the geometric cage formed grill getting the possibility for minimum earth resistance and possibility to pick the pieces walking on the machine
- **Steel construction**
- International **HYPER THERM** warranty
- **Working with gas like air, oxygen, nitrogen for the best cutting**
- Possibility to choice the mean parameters over console
- **1 year warranty**
- Setting up without payment and training for stuff
- **ARC control (high quality cutting)**
- **HYPER THERM** Powermax 1000/1250/1650 CE, HPR 130/260, HT 2000 Plasma Cutting Units
- **Working till 120 ampere**
- Siemens servo engine and drivers

	IBDARK CNC PLASMA 3016	BDARK CNC PLASMA 3020	BDARK CNC PLASMA 4020	BDARK CNC PLASMA 6020	BDARK CNC PLASMA 6025	BDARK CNC PLASMA 12020	BDARK CNC PLASMA 12030
Net Working Area (mm)	3000 x 1600	3000 x 2000	4000 x 2000	6000 x 2000	6000 x 2500	12000 x 2000	12000 x 3000
External dimensions of machine (mm))	3600x2000 x1500	3600x2500 x1500	4600x2500 x1500	6600x2500 x1500	6600x2900 x1500	12600x2500 x1500	12600x3500 x1500



- **The axis Y has servo motor vibration and its motor vibration is kremier geared.**
- The axis X has double servo motor vibration on bridge and its motor vibration is kremier geared.
- **The axis Z has broken servo motor vibration and its motor vibration is screwed pin.**
- On all axes are used 25 and 35 rails and cart with ball in 4 line.
- **On the bridge is a automatic controlled gantry system**
- Whole body is steel construction and the tension expense is carried away.
- **Servo engine, inverter and drivers**
- Polyline, circular interpolation
- **All companions are colored with electrostatic oven color.**
- Safe control which covers the CNC, PLC, MCP, and I/O parts
- **DIN programming**
- **Data transfer by RS 232**
- The working sensitivity is 0.01 mm
- **Level surface sensitivity is 0.1mm**
- 6 Kw 24.0000 Rpm Spindle (ISO 30)
- **CNC Control Unit**
- Dust induction system equipment

	IBDARK 3280 CNC MODEL MACHINE	IBDARK 4280 CNC MODEL MACHINE	IBDARK 6280 CNC MODEL MACHINE
Net Working Area (mm)	3000 x 2000 x 800	4000 x 2000 x 800	6000 x 3000 x 800
External dimensions of machine (mm)	3700 x 2500 x 2500	4700 x 2500 x 2500	7000 x 3600 x 2500



- **The axis Y has step motor vibration and its motor vibration is screwed pin.**
- The axis X has step motor vibration on bridge and its motor vibration is screwed pin.
- **The axis Z has step motor vibration and its motor vibration is screwed pin.**
- On all axes are used 15 rails and cart with ball in 4 line.
- **Whole body is steel construction and the tension expense is carried away.**
- **The working sensitivity is 0.01 mm**
- Level surface sensitivity is 0.1mm
- **All companions are colored with electrostatic oven color.**
- PC based control unit.
- Polyline, circular interpolation
- DIN programming
- **Step engine, inverter and drivers**
- 1.2 Kw 18000 Rpm Spindle (ISO 30)
- **Dimensions ; 500 x 300 x 500 mm**