



MVD produced its first machine .

1950 1971 1974 1981

The first sheet metal working machine "perforation press" was presented to the market.

The production of "Heavy-duty Press Brakes and Guillotine Shears" started and MVD had the distinction of being the first Turkish manufacturer for heavy press brakes and shears.

Moved to second factory and added the production of 4 roll bending machines and Expanded Metal presses in the next years. Thus, a great variety of machines were presented in sheet metal working industry.





MUD INAN





MVD produced the first tandem press brake in Turkey.

1994 2001 2003 2011

Finalised the CE conformity procedures and had its machines CE marked.

CNC Hydraulic Turret Punch machine was presented to the market.

Plasma cutting machine and Fiber Laser Cutting machines were presented to the market.















Quality High Technology

Quality and service support is accepted as principle. Designing and manufacturing are based on reliability, durability and precision.

Machines are easy to use and are built to be ready for user errors. Machines are designed and analized with 3-D supported computer aided programs, precisely machined in moving column CNC machining centres, equipped with world-known equipments and presented to the customers' use after quality control.





MVD

1.LEEP

E mvo

→ www.mvd.com.tr

iLaser Shift to power

Fastest economic and maintanance free technology

 The fiber laser cutting method best, most experienced in the industry in the production of sheet metal processing machinery manufacturers are rebuilding with MVD Machine.



Specifications

- > Designed with high precision criteria, rigid, powerfully body
- > The mechanical structure constructed for heavy duty conditions
- Produced by the world's best components, reliable, robust fiber laser technology
- ▶ IPG LASER Source resanators

- IPG Laser Chiller Unit
- Faster, powerfull loading unloading shuttle table
- Precitec Laser Cutting Head
- Touch Screen Industrial CNC controller
- User friendly interface

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High effiency, highest perfromance IPG Multi Mode Fiber Laser YLS

- Perfectly Beam Quality for best cutting
- > Optimum focal diameter for high accuarcy laser cutting
- Maintanence free technology, 100.000 hours diode life time
- Optical consumable cost free, affected by working conditions, continuously perfect beam quality with laser beam is transmitted by fiber core
- Lowest running cost
- Cutting possibillities Cooper, titanium, brass
- High Effiency, low consumptions of electricity fiber laser technology, 5-6 times lower runnig cost.
- Energy effiency with Low capacity chiller necessary

Precitec Cutting Head

- Most reliable Germany produced Precitec HP-SSL laser cutting head
- Protect glass of lens for long life cutting lens, low consumable cost
- Cartrige lens system for easy change, less setup time
- Advantage of setup time for different cutting thickness with cartrige equipment
- High performance, high accurate height control system for constant cutting quality
- Collision control functions and safe working for cutting head equipment
- Orginal Precitec nozzle, ceramic parts for continously cutting quality and safe working



- High speed fiber laser cutting, 4 times speedy compare other laser cutting applications
- Free Laser Resanator cost

- Perfectly cutting countour with high density laser beam
- High Accurate geometric performance
- Not needed calibrations or adjusting optical companent, advantage of time and cost

HPSSL Plus Optional

- Motorised focus adjustment
- Piercing Sensor
 Control
- Processing
 Sensor



IPG Laser Chiller Unit Standard

- Reliable efficiency for IPG laser source cutting head and lenses
- > Digital micro processing controlled industrial chiller





Filtre Ünitesi



iLaser CNC Controller

- > 15 " resistive touch screen 1024x768 pixel
- ▶ Intel Pentium ®1.6GHz CPU
- ▶ 160 GB HDD, (SSD veya CF opsiyonel)
- ▶ 1 GB RAM
- ▶ 1x Front USB port
- > 2 x RJ45 Ethernet 10/100/1000Mhz
- 4 x Back USB port
- External keyboard connections
- Industrial based PC controller
- TCP /IP or USB connection for sending part programs
- EtherCAT communications for data transfer or machine control
- Reliable, Real Time Linux system.
- Database for cutting parameters, From thin to thick materials
- "No Piercing" technologhy for thin materials, efficiency time and cost improvements
- > Fly Cut functions for same direction high speed cutting

Automatic Loading Unloading Shuttle Table

Standard

Rigid, powerfully, speed loading table







- "G codes standart" support
- Kerf calculations on controller or software
- Special Restart functions, for any interruption
- Referencing options, and Automatic sheet recognition
- Unlimited part program size
- Different user-level possibilities by password Supervisor, maintenance or operator mode
- Direct counter or part choosing functions, maximum flexibility on the process according job, part priority
- Ethercat bus protocol.
- > Create manual programs according job, part priority
- Motion task cycle time 0.5 ms.
- Soft plc with 1 ms cycle time.
- 2D Process monitor
- Preview of the part to be processed.
- Get the cutting technology from G code or override selected parameters.

Laser Protective Glasses Standard

 Laser cabin according fiber laser vawe length for eye protections



Standard

- > Automatic Machining for cutting head optimum calculations
- Automatic Nesting and optimizations
- > Time and cost analysis, simulations before cutting
- Part importer / Exporter from CAD system, DXF, DWG, IGES, Step etc file format acceptable
- > Part Drawing module, call parts, automatic or manual nesting, machining, CNC codes generates, Sheet metal stock searching etc.
- > Parts management, open database. All parts can be searching with different criteria dates thickness, material, customer .
- Scrap databes.
- > Complicated functions and programmable cad cam system for Common cut, micro joint, lead in lead out parameters.

Specifications

Machine Model	F2 - 1530	F3 - 1530	F4 - 1530	F2 - 2040
Laser Power	2 Kw	3 Kw	4 Kw	2 Kw
Туре	Fly Optic	Fly Optic	Fly Optic	Fly Optic
Maximum Sheet Size	1530 mm. x 3030 mm.	1530 mm. x 3030 mm.	1530 mm. x 3030 mm.	2030 mm. x 4030 mm.
Maximum Cutting Thickness	Steel 15 mm	Steel 18 mm	Steel 20 mm	Steel 15 mm
	Stainless steel Ç. 6 mm	Stainless steel 9 mm	Stainless steel 12 mm	Stainless steel 6 mm
	Aluminium 5 mm	Aluminium 8 mm	Aluminium 10 mm	Aluminium 5 mm
Maximum Loading Capacity	1000 Kg.	1000 Kg.	1000 Kg.	1750 Kg.
Axes				
X Axes	3030 mm.	3030 mm.	3030 mm.	4030 mm.
Y Axes	1530 mm.	1530 mm.	1530 mm.	2030 mm.
Z Axes	100 mm.	100 mm.	100 mm.	100 mm.
Average Electricity Consumption kw/h	20kw/h	30kw/h	35kw/h	20kw/h
Acceleration	X, Y, Z: 1.5 G	X, Y, Z : 1.5 G	X, Y, Z : 1.5 G	X, Y, Z : 1.2 G
Axes Speed	X, Y : 120 meter / minute			
Axes	X and U Parallel, Y and Z 4 axes	X and U Parallel, Y and Z 4 axes	X and U Parallel, Y and Z 4 axes	X and U Parallel, Y and Z 4 axes
Positioning Accuracy	X, U, Y and Z +/- 0.02 mm.	X, U, Y and Z +/- 0.02 mm.	X, U, Y and Z +/- 0.02 mm.	X, U, Y and Z +/- 0.02 mm.
Repability	.+/- 0.01 mm. For 4 axes			
Cutting Head	5'' ve 7.5'' Focus length	5" ve 7.5" Focus length	5'' ve 7.5'' Focus length	5'' ve 7.5'' Focus length
Z Axes Height Control	Precitec Lasermatic	Precitec Lasermatic	Precitec Lasermatic	Precitec Lasermatic
Lighting	4 pieces Light	4 pieces Light	4 pieces Light	4 pieces Light
Cutting Gas Type	Compressor Air, Oxygen and Nitrogen Cutting Gas			
Cutting Gas Pressure	Oxygen 0,2 bar - 2.5 bar, Nitrogen 5 - 25 bar	Oxygen 0,2 bar - 2.5 bar, Nitrogen 5 - 25 bar	Oxygen 0,2 bar - 2.5 bar, Nitrogen 5 - 25 bar	Oxygen 0,2 bar - 2.5 bar, Nitrogen 5 - 25 bar
Machine Weight	16.500 Kg (Chillier, Cutting table Filter dust collector included)	16.500 Kg (Chillier, Cutting table Filter dust collector included)	16.500 Kg (Chillier, Cutting table Filter dust collector included)	22.200 Kg (Chillier, Cutting table Filter dust collector included)

Automatic Nesting

- Maximum flexibility maximum performance manual or automatic nesting
- Copy, move, reverse, turn alignment manual, semi automatic, automatically functions geometrical working
- Autonesting parameters
- Scrap parameters and nesting on scrap materials



F3 - 2040	F4 - 2040	F2 - 2060	F3 - 2060	F4 - 2060
3 Kw	4 Kw	2 Kw	3 Kw	4 Kw
Fly Optic				
2030 mm. x 4030 mm.	2030 mm. x 4030 mm.	2030 mm. x 6030 mm.	2030 mm. x 6030 mm.	2030 mm. x 6030 mm.
Steel 18 mm	Steel 20 mm	Steel 15 mm	Steel 18 mm	Steel 20 mm
Stainless steel 9 mm	Stainless steel 12 mm	Stainless steel 6 mm	Stainless steel 9 mm	Stainless steel 12 mm
Aluminium 8 mm	Aluminium 10 mm	Aluminium 5 mm	Aluminium 8 mm	Aluminium 10 mm
1750 Kg.	1750kg	2750 Kg.	2750 Kg.	2750kg
4030 mm.	4030 mm.	6030 mm.	4030 mm.	4030 mm.
2030 mm.				
100 mm.				
30kw/h	35kw/h	20kw/h	30kw/h	35kw/h
X, Y, Z : 1.2 G				
X, Y : 120 meter / minute				
X and U Parallel, Y and Z 4 axes	X and U Parallel, Y and Z 4 axes	X and U Parallel, Y and Z 4 axes	X and U Parallel, Y and Z 4 axes	X and U Parallel, Y and Z 4 axe
X, U, Y and Z +/- 0.02 mm.	X, U, Y and Z +/- 0.02 mm.	X, U, Y and Z +/- 0.02 mm.	X, U, Y and Z +/- 0.02 mm.	X, U, Y and Z +/- 0.02 mm.
.+/- 0.01 mm. For 4 axes				
5'' ve 7.5'' Focus length	5'' ve 7.5'' Focus length	5'' ve 7.5'' Focus length	5" ve 7.5" Focus length	5" ve 7.5" Focus length
Precitec Lasermatic				
4 pieces Light				
Compressor Air, Oxygen and Nitrogen Cutting Gas				
Oxygen 0,2 bar - 2.5 bar, Nitrogen 5 - 25 bar	Oxygen 0,2 bar - 2.5 bar, Nitrogen 5 - 25 bar	Oxygen 0,2 bar - 2.5 bar, Nitrogen 5 - 25 bar	Oxygen 0,2 bar - 2.5 bar, Nitrogen 5 - 25 bar	Oxygen 0,2 bar - 2.5 bar, Nitrogen 5 - 25 bar
22.200 Kg (Chillier, Cutting table Filter dust collector included)	22.200 Kg (Chillier, Cutting table Filter dust collector included)	27.750 Kg (Chillier, Cutting table Filter dust collector included)	27.750 Kg (Chillier, Cutting table Filter dust collector included)	27.750 Kg (Chillier, Cutting table Filter dust collector included)







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Technical specifications are subject to change without notice.



