



ishear

GUILLLOTINE SHEAR



1950

MVD produced its first machine .

1971

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

1974

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.

1981

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.

1994

MVD produced the first tandem press brake in Turkey.

2001

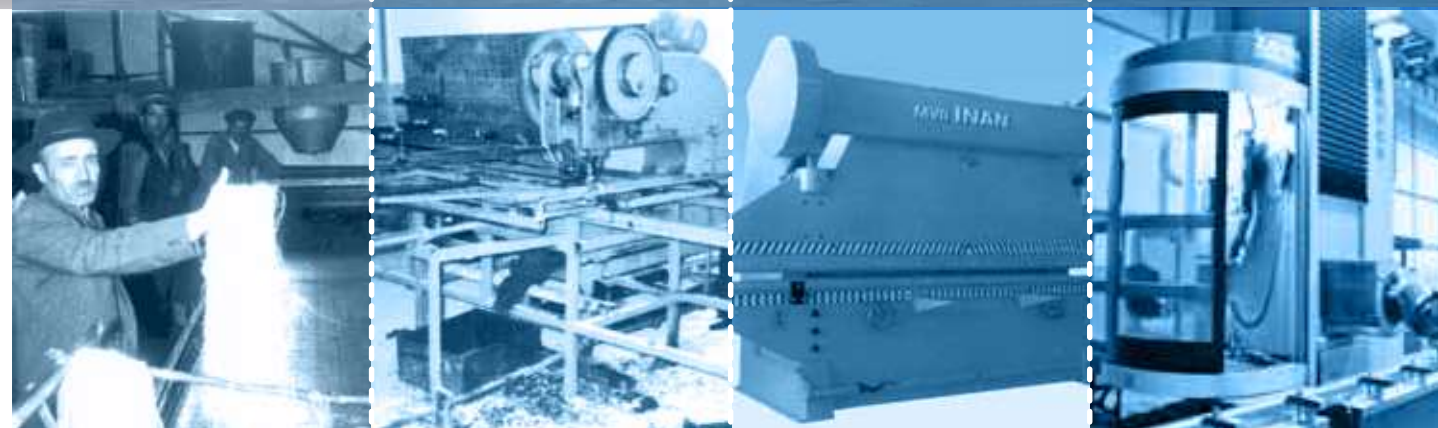
Finalised the CE conformity procedures and had its machines CE marked.

2003

CNC Hydraulic Turret Punch machine was presented to the market.

2011

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 analyzed 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.



iShear C Series

CNC VARIABLE RAKE ANGE HYDRAULIC GUILLOTINE SHEARS

General Features

- ▶ Machine body and upper beam's made of steel constructions, has been designed according minimum stretch and optimum resistance criteria
- ▶ Body, as the manufacture of precise CNC machining center for provide maximum cutting quality and accuracy.
- ▶ Body, as the manufacture of precise CNC machining center is a single operation
- ▶ Designed Heavy –Duty rigid body concept in order to prevent deflections
- ▶ Back gauge range (stroke) 1000 mm.
- ▶ .Back gauge accuracy performed with linear ball shaft, without backlash guide
- ▶ Programmable back gauge has 0,1 mm positioning tolerance and retract features .
- ▶ Automatic swing –up feature of back gauge after 1000mm to feed longer sheets easily
- ▶ C series CNC Hydraulic automatic cutting angle operated shears, provides high cutting quality in the widest range of materials type and sheets thickness.
- ▶ C Series shears automatically calculate and apply; cutting angle, blade gap adjustment, stroke of the cutting length, back gauge positioning according material type and thickness with CNC controller and servo hydraulic valve.
- ▶ Cutting angle automatically adjusted according sheet thickness, this features provide high and precise cutting quality and reduced twisting or torsion effects of thin and narrow parts also .
- ▶ When cutting thin and short parts, Stroke reduced, performed number of stroke, speed increase .
- ▶ Prevent user errors, increases blade life
- ▶ Top beam precise movement provided with hardened slide ways and pulley

▶ Controller



▶ Cybelec DNC 60



▶ MVD M25



▶ Delem DAC 360



▶ Cybelec Touch 6



iShear C Series

Standard Equipments

- ▶ CNC controller
- ▶ Easily adjustable with scale blade gap setting system for precise cutting and long life blade's
- ▶ Movable controller arm
- ▶ Roller bearings on the table to help feeding sheets to the machine easily
- ▶ Welded monoblock heavy steel frame using rigid structural steel produced with modern manufactured methods
- ▶ Automatic, CNC controlled motorized back gauge 1000 mm range (stroke) with ball shaft and guide system .
- ▶ Programmable backgauge, with retract and swing up features for longer sheets
- ▶ Prevents scratching of the sheet with ball on the table
- ▶ Pressure adjustable Hydraulic sheet holder system, protect sheet parts when cutting process
- ▶ Cylinders, processed as precise from solid full material and made honed .
- ▶ Pistons, processed from forged steel, hardened, grinding is done, and chrome-coated.
- ▶ Automatic cutting angle adjustment operation
- ▶ Automatic blade gap adjustment operation
- ▶ Automatic stroke adjustment operation
- ▶ Adjustable bottom blade holder provide high precise robust set for long life blade
- ▶ Adjustable cutting length on the control panel, increase speed number of stroke for short parts
- ▶ High Quality alloy material bottom and upper blade for long life
- ▶ Bottom Blade 4 edges, Upper Blade 4 edges
- ▶ No maintenance dry ball joint system
- ▶ Hoerbiger or Bosch Rexroth low maintenance hydraulic block
- ▶ Schneider-Telemecanique electrical components, with ventilations electrical cabinet
- ▶ Foot pedal stand suitable for serial cutting operation and setting blade adjustment
- ▶ Front support arms 1000mm, with scale and flip over stops in T slot
- ▶ Back and side protection covers
- ▶ CE conformity rear light beams
- ▶ Shadow, illuminations cutting line
- ▶ Emergency stop button
- ▶ Oil tank level indicator
- ▶ Stroke hits Counter
- ▶ Complete electrical switch board and control panel for 400V AC 3 Phase 50Hz

Equipments



▶ Automatic Swing-Up Feature of Back Gauge After 1000 mm Sheets Back Gauge



▶ Throat



▶ Roller Bearing Top Table



▶ Automatic Blade Gap Adjustment System



▶ Front Finger Protection Open Able 1000 mm



▶ Rear Protection Light Beams



▶ Adjustable Angular Gauge
Optional

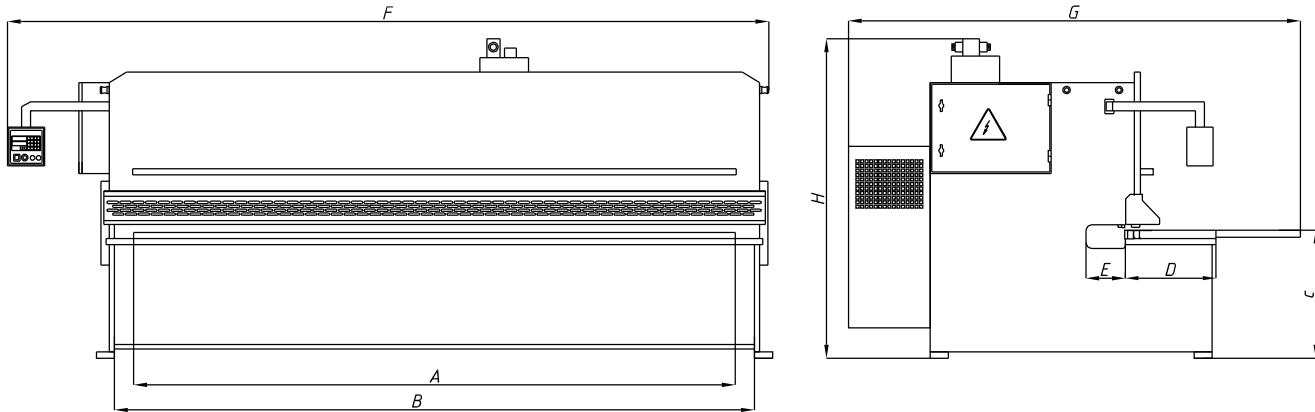


▶ Pneumatic Sheet Support System
Optional

iShear C Series

Optional Equipments

- ▶ Pneumatic sheet support system
- ▶ Front Finger Protection Open able full length
- ▶ Adjustable Angular Gauge for cutting angle parts 0-180°
- ▶ Longer Front Support Arms
- ▶ Special Throat 500mm
- ▶ Front finger protection light barriers with CE conformity
- ▶ Special Blade for kind of cutting material
- ▶ 220-240V 60hz operating voltage
- ▶ 440-480V 60hz operating voltage
- ▶ 220-240V 60Hz and 440V-480V 60 Hz double operating voltage (by preliminary preparation)



Technical Table

| iShear C series | | C06-3000 | C08-3000 | C10-3000 | C13-3000 | C16-3000 | C20-3000 | C06-4000 | C08-4000 | C10-4000 | C13-4000 | C16-4000 | C20-4000 | C10-6000 | C13-6000 | C016-6000 | C20-6000 | |
|--------------------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|--------|
| Cutting capacity (450N/mm2) | | 6 | 8 | 10 | 13 | 16 | 20 | 6 | 8 | 10 | 13 | 16 | 20 | 10 | 13 | 16 | 20 | mm. |
| Cutting capacity (700N/mm2) | | 4 | 5 | 6 | 8 | 10 | 13 | 4 | 5 | 6 | 8 | 10 | 13 | 6 | 8 | 10 | 13 | mm. |
| Cutting length | A | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 6050 | 6050 | 6050 | 6050 | mm. |
| Cutting angle | | 0,5-2 | 0,5-2,5 | 0,5-3 | 0,5-3 | 0,5-3 | 0,5-3 | 0,5-3 | 0,5-3 | 0,5-3 | 0,5-3 | 0,5-3 | 0,5-3 | 0,5-3 | 0,5-3 | 0,5-3 | 0,5-3 | degree |
| Hold Down Cylinder | | 12 | 12 | 14 | 14 | 17 | 14 | 17 | 17 | 17 | 17 | 18 | 18 | 26 | 26 | 26 | 26 | Unit |
| Speed Stroke per minute / High Speed | | 10/15 | 10/15 | 11/15 | 11/15 | 11/15 | 11/15 | 10/14 | 9/13 | 9/13 | 9/13 | 8/12 | 8/12 | 5/12 | 5/12 | 5/9 | 5/7 | 1/min |
| Distance Between Columns | B | 3450 | 3450 | 3470 | 3470 | 3500 | 3500 | 4460 | 4470 | 4470 | 4470 | 4500 | 4500 | 6470 | 6470 | 6650 | 6650 | mm. |
| Table Height | C | 775 | 855 | 855 | 855 | 855 | 870 | 830 | 850 | 900 | 900 | 900 | 950 | 900 | 1230 | 1240 | 1255 | mm. |
| Table Width | D | 520 | 600 | 620 | 640 | 640 | 700 | 600 | 630 | 650 | 700 | 720 | 720 | 800 | 845 | 920 | 1100 | mm. |
| Throat Depth | E | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | mm. |
| Backgauge Travel Distance Stroke | | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | mm. |
| Machine Length | F | 3800 | 3850 | 4380 | 4400 | 4450 | 4500 | 5300 | 5350 | 5400 | 5400 | 5450 | 5500 | 8600 | 8600 | 8650 | 8650 | mm. |
| Machine Height | H | 2010 | 2170 | 2250 | 2450 | 2500 | 2700 | 2200 | 2350 | 2350 | 2530 | 2700 | 2850 | 3120 | 3150 | 3200 | 3310 | mm. |
| Machine Width | G | 2350 | 2650 | 2950 | 3050 | 3100 | 3150 | 2700 | 2850 | 2950 | 3050 | 3150 | 3250 | 3200 | 3200 | 3250 | 3300 | mm. |
| Oil tank capacity | | 140 | 230 | 230 | 230 | 315 | 370 | 230 | 230 | 280 | 370 | 370 | 370 | 300 | 305 | 430 | 535 | lt. |
| Motor Power | | 11 | 18,5 | 18,5 | 22 | 30 | 30 | 11 | 15 | 22 | 22 | 30 | 30 | 30 | 30 | 30 | 37 | Kw. |
| Weight | | 6000 | 7500 | 9000 | 12000 | 16000 | 19000 | 10000 | 12000 | 14000 | 16500 | 21000 | 23000 | 27000 | 30000 | 40000 | 50000 | Kg. |

Technical specifications are subject to change without notice

Special capacity machines can be manufactured upon request

Special Applications



6100-20mm



6100-6mm



3100-20mm