

DURMA

VS SERIES Variable Rake CNC Shear



- Perfect Cutting
- Fast Speed
- Powerful
- Accurate
- Efficient



DURMA





As a total supplier for sheet metal manufacturing with almost 60 years of experience, Durma understands and recognizes the challenges, requirements and expectations of the industry. We strive to satisfy the ever higher demands of our customers by continuously improving our products and processes while researching and implementing the latest technologies.

In our three production plants with a total of 150.000 m², we dedicate 1,000 employees to delivering high quality manufacturing solutions at the best performance-to-price ratio in the market.

From the innovations developed at our Research & Development Center to the technical support given by our worldwide distributors, we all have one common mission: to be your preferred partner.

Present Durmazlar machines with **DURMA** name to the world.



1

High technology,
modern production
lines



2

Top quality
components



3

High quality
machines designed
in R&D Centre

VS Series

Variable Rake CNC Shear

Well equipped for precision cuttings (± 0.05 cutting precision)

High technology VS variable rake shears, with $0^{\circ} 30' - 2^{\circ} 30'$ precise rake adjustment, cut fast and efficiently. Easy to use and good quality cutting feature are suitable for every job. By entering all cutting parameters you can have precise and perfect cutting.

High efficient and maximum security VS shears will differentiate you with its precise cutting.



Advance Your Standards

Precision and high quality cuts with automatic gap adjustment

In world standards equipped with high-tech products VS Series Shears offer you exact solutions. We have reduced the cutting angle to achieve straight precision and minimum twist tolerance.

**Easy to
Use**

Economic

Efficient

Faster

**Reliable
Brand**



Why DURMA Shears

- Better and faster cuttings
- Automatic blade gap adjustment
- Stronger and rigid body structure
- High sensitivity and repeatability
- High-tech excellent equipments
- Low service cost
- Adds value to your company
- Reliable brand

We have minimized the cutting angle to provide sensitivity to minimum linearity and torsional tolerance in the total material length.

Gain More Power

Performance and Productivity

The DURMA VS series CNC variable rake shear is one of the most advanced production shears available today.

From 6 up to 25 mm shearing capability these highly developed machines yield the most flexibility you can hope to get in a modern shearing machine.



General Specifications

- Robust design & powerful body for perfect cutting
- Hardened and ground blades for long life and precise
- CE standards security
- The combination of economic and perfect cutting performance
- Blade clearance and cutting angle automatically adjusted by CNC controller
- User friendly CNC touch screen control unit
- VS shears provide flexible use for narrow or wide, thin or thick sheet metal cutting.
- Automatic swing up back gauge for more comfortable use
- Sheet support arms
- Front feeding and conveyor systems
- Front support arms T-Slots for easy cutting and feeding material
- Ball Transfer table

Standard & Optional Equipment

Standard Equipments

CE-Norm
Heavy duty steel construction & Stress relieved frame
User friendly CNC Touchscreen control unit D-Touch 7
Automatically adjusted rake angle by CNC
Adjusted cutting length by CNC
Ball integrated front tables
Ball screw back gauge, 1000mm
Flip-up finger guards 1000mm
Squaring arm with scale T-Slot (L=1500mm)
Support arms T-Slot & Tilting stop (L=1000mm)
Illumination & Shadow line
Throat depth with 350 mm
Automatically pressure adjusted solid holddowns
Top and bottom blades with four sides

Optional Equipments

Laser Cutting Line
Light curtains for finger protection
Pneumatic sheet support DURMA I (This option is not available for VS 3013)
Pneumatic sheet support DURMA IV (This option is not available for VS 3013 ve 6013)
Hydraulic anti-twisting
Special throat depth
Back gauge 1250 mm
X1, X2 axis
Oil coolant (Standard for VS 3020 - 6006 & 6013).
Oil heater (Standard for VS 6006 & 6013)
Central lubrication manual
Central lubrication motorized
Adjustable angle stop 0-180°
Add. Support arms
Special blades
Temperature measurement
Overseas special packaging

D-Touch 7 Control Unit



Fast data input



Easy connection USB port



Ethernet Rj-45 10/100M



Easy programming

Cuttings are easier with D-Touch 7

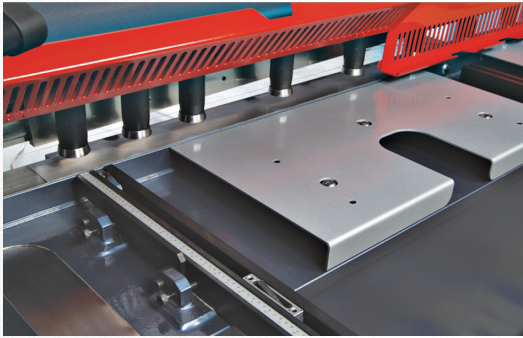
With easy to use interface D-Touch 7 enables perfect cutting in seconds by endless programming and material entrance feature.

- Wide, colored, touch-screen (LCD 7" 800x480)
- Quick data entry
- Easy connection
- USB input
- Ethernet: RJ-45 10/100M
- Windows CE Unlimited program and steps
- Unlimited material type

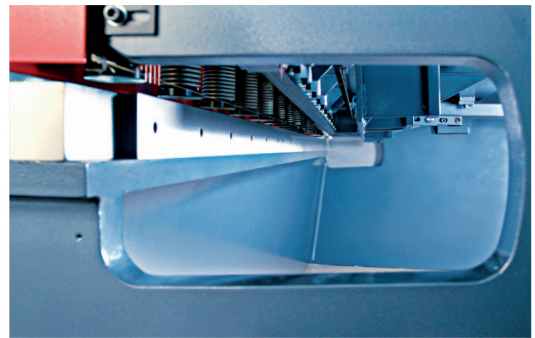


VS Series General Features

With choice of standards and optional equipment VS Series add to value your business by offering proper solutions for your needs. With the high-tech features high efficiency, high precision, high performance criteria VS Series have proved that it is user-friendly and the best of in this sector.

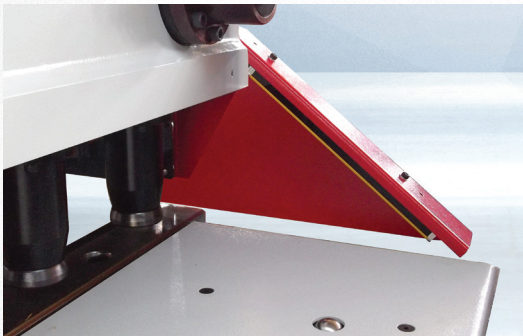


Flip-up Finger Guard
Ball Transfer Table
Hydraulic Holddowns

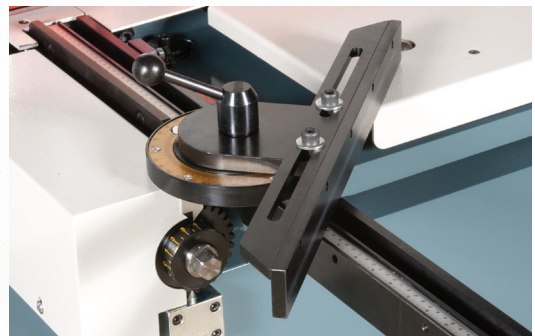


Special Throat Depth

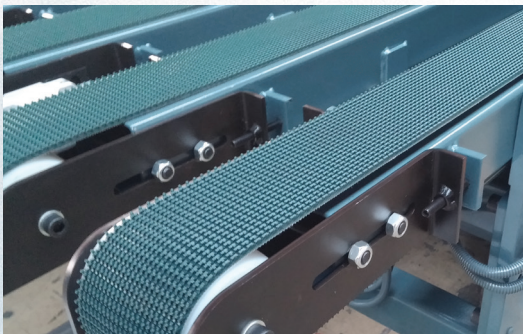
Throat depth of at least 350 mm allows the cutting of longer sheets than the knife length



Light Curtains For Finger Guard



Adjustable Angle Stop 0-180°



Conveyor System



Thin Sheet Support System

Robust Back Gauge System

Precision

Robust

Min. Deformation



- Fast and high accuracy
- Reliable movement
- Adjustment at any point
- Resistance to crash
- Maintenance free
- Better and fast cutting
- Easy and secure usage
- High precision and repeatability

Why DURMA Back Gauge?

One of the most important factor for cutting capacity is the design of back gauge and stability.

Quality cutting is possible with perfect product, stability and precision back gauge.

The high speed ballscrew back gauge system movement is also supported with linear guides, which helps the back gauge achieve long life, greater sensitivity and strengthens against any collisions.

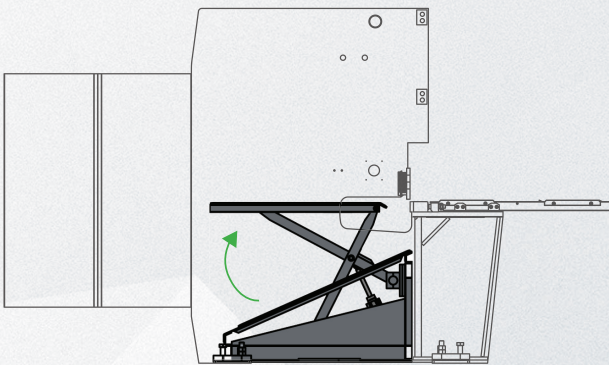


Ballscrew back gauge

Sheet Support Systems

Pneumatic Thin Sheet Support System

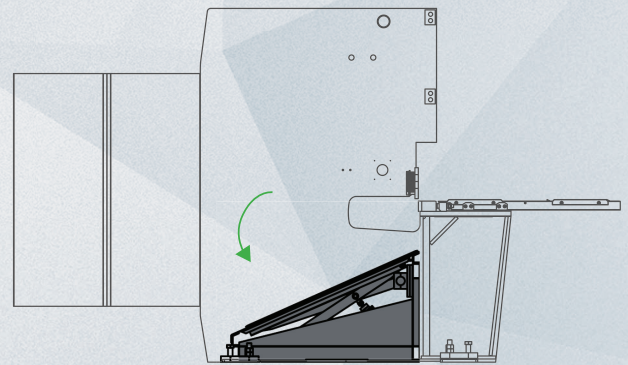
DURMA I



Step

1

Before cutting operations, sheet support system with pneumatic driven assists for sheet as moving upwards as per in the picture.



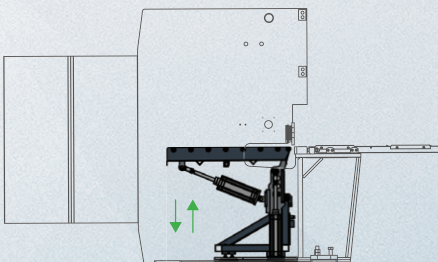
Step

2

Once the cutting process is kicked off, the table comes down lower position at the same time and this will ensure cutting sheets placed over the table again as seen in the picture.

Pneumatic Thin Sheet Support System

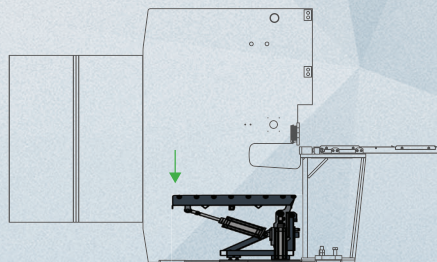
DURMA IV



Step

1

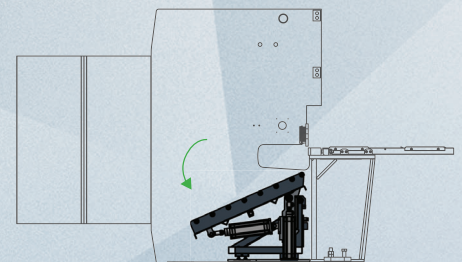
Before cutting operations, sheet support system with pneumatic driven assists for sheet as moving upwards as per in the picture.



Step

2

Once the cutting process is kicked off, the table comes down lower position at the same time and this will ensure cutting sheets placed over the table again as seen in the picture.



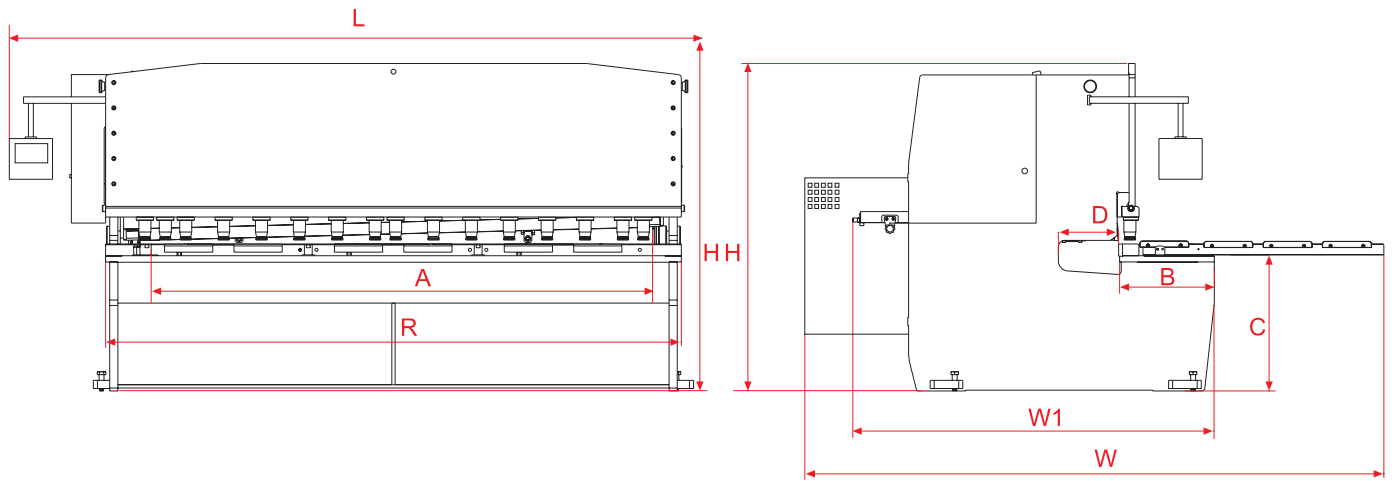
Step

3

After cutting process is finished, sheets are discharged by closing movement of the table.

VS Series Technical Details

VS Series	Cutting Length	Cutting Capacity		Stroke per min.	Cutting Angle		Number of Holddowns	Holddown Force		Back Gauge Range
		MS (450 N/mm ²)	SS (700 N/mm ²)		Minimum	Maximum		Minimum	Maximum	
	mm	mm	mm	1/min.	°	°	mm	Ton	Ton	mm
	A									
3006	3080	6	4	12 - 20	0° 30'	2°	16	4	20	1000
3013	3080	13	10	9 - 17	0° 30'	2° 30'	17	8	40	1000
3016	3080	16	12	7 - 12	0° 30'	2° 30'	14	11	55	1000
3020	3080	20	15,5	6 - 12	0° 30'	2° 30'	14	17	83	1000
4006	4080	6	4	10 - 20	0° 30'	2°	20	4	20	1000
4013	4080	13	10	7 - 13	0° 30'	2° 30'	20	10	48	1000
4016	4080	16	15	5 - 9	0° 30'	2° 30'	17	50	100	1000
6006	6080	6	4	6 - 10	0° 30'	2°	29	10	20	1000
6013	6080	13	10	5 - 10	0° 30'	2° 30'	29	29	58	1000



Back Gauge Speed	Motor Power	Oil Capacity	Throat Depth	Front Arms	Table Height	Table Width	Table Length	Length	Width	Total Width	Height	Weight
mm/sec.	kW	lt	mm	Unit	mm	mm	mm	mm	mm	mm	mm	~kg
			D		C	B	R	L	W1	W	H	
200	11	125	350	3	820	494	3280	4100	2050	3650	1950	7980
200	30	300	350	3	835	559	3380	4200	2100	3560	2450	12860
200	45	450	350	3	840	554	3420	4130	2210	3820	2570	18150
200	45	500	350	3	840	580	3460	4100	2300	3700	2650	21400
200	11	125	350	4	820	494	4400	5150	2100	3550	2050	10470
200	30	330	350	4	835	589	4400	5200	2150	3560	2550	17720
200	45	400	350	4	1000	630	4385	5890	2100	3625	2950	24400
200	22	200	350	6	900	630	6370	7300	2150	3400	2750	25500
200	37	400	350	6	950	650	6375	7400	2200	3700	2900	33820

Special Projects

CNC Front Feeding



Sheet Support + Belt Conveyor + Stacker + Scrap Container



Fast on Service and Spare Parts

DURMA provides the best level of service and spare parts with qualified personnel and spare parts in stock. Our experienced and professional service personnel are always ready at your service. Our professional training and application enriched courses will give you an advantage to use our machinery.



Consultancy



Spare Parts



R&D Center



After Sales
Service

DURMA

Solution Center



Service
Agreements



Software



Training



Flexible Solution

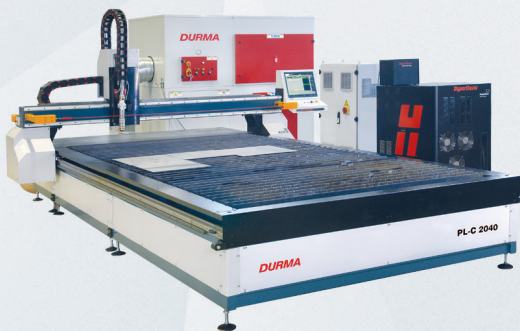
DURMA



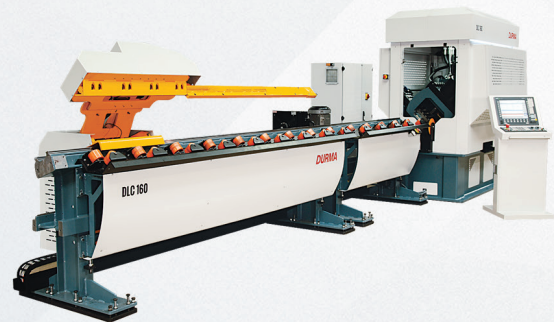
PANEL BENDER



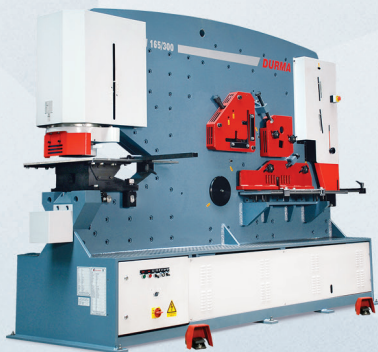
PUNCH



PLASMA



L ANGLE PROCESSING CENTER

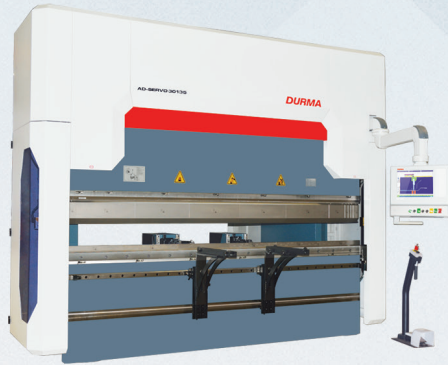


IRON WORKER

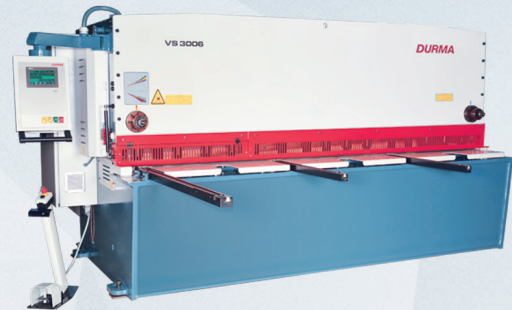


POWER OPERATED SHEAR

DURMA



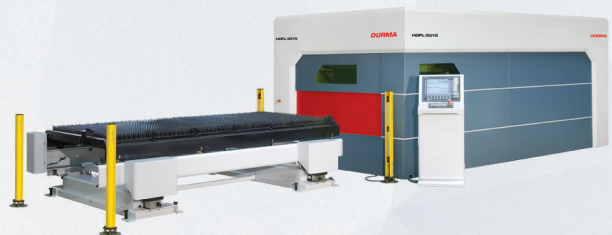
PRESS BRAKE



VARIABLE RAKE SHEAR



TUBE LASER CUTTING



FIBER LASER



ROLL BENDING



PROFILE BENDING



CORNER NOTCHER

DURMA

[illegible]

DURMA

VS SERİSİ Variable Rake Cnc Shear

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EN 2023/04/V09

Durmazlar Makina San. Tic. A.Ş. has right to change catalogue values and machine technical details without notice.