

VS

Variable Rake
CNC Shear

Series



> Perfect
Cutting

> Fast
Speed

> Powerful

> Accurate

> Efficient



As a total supplier for sheet metal manufacturing with almost 70 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.



PRODUCTION IS MORE EFFECTIVE NOW

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.

Durmazlar offers it's machines to the world markets under the Durma brand.



1

High technology,
modern production
lines



2

Top quality
components



3

High quality
machines designed
in R&D Centre

VS

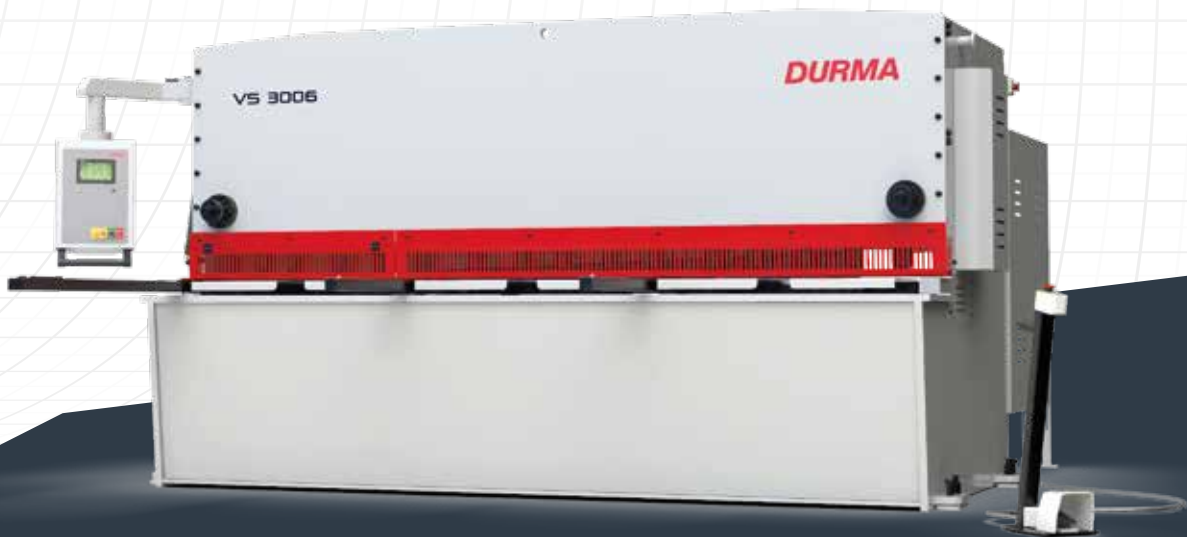
VS Series

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.



Production is *More Effective Now.*

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.



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

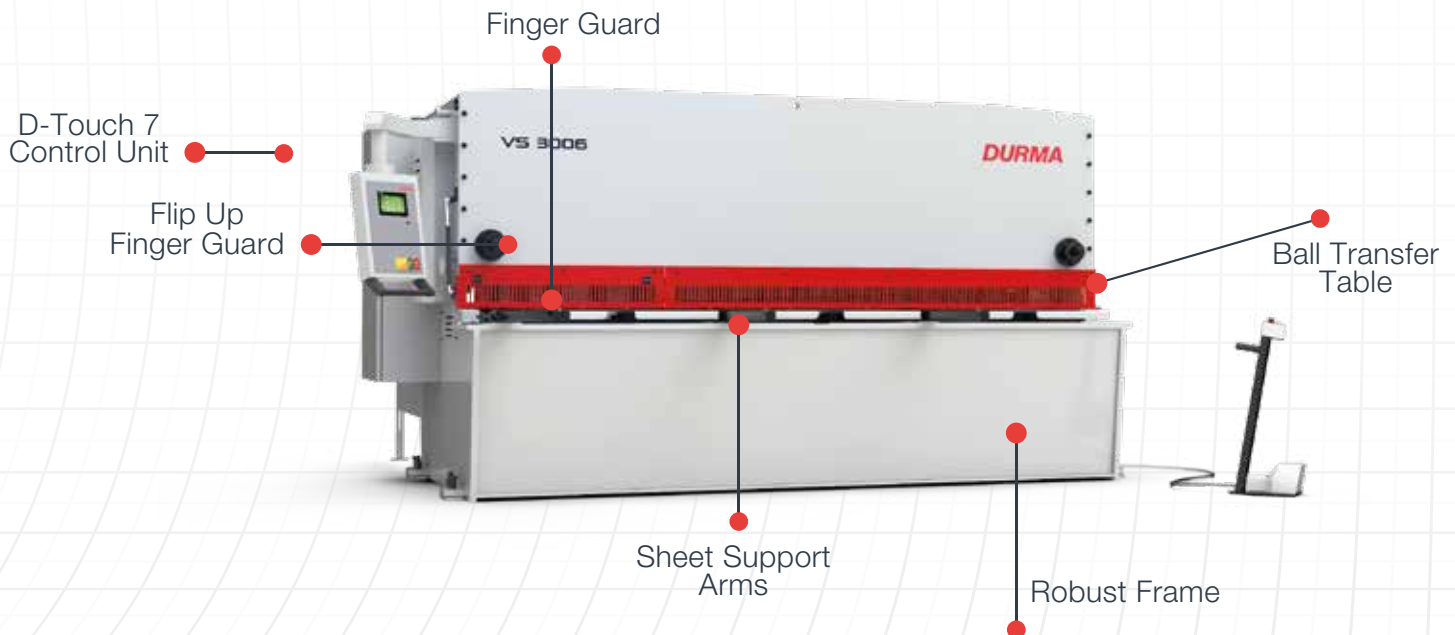
We have minimized the cutting angle to provide sensitivity to minimum linearity and torsional tolerance in the total material length.

VS

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

Production is *More Effective Now.*

Special Projects

■ CNC Front Feeding



VS

D-Touch 7 Control Unit



Fast data entry



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



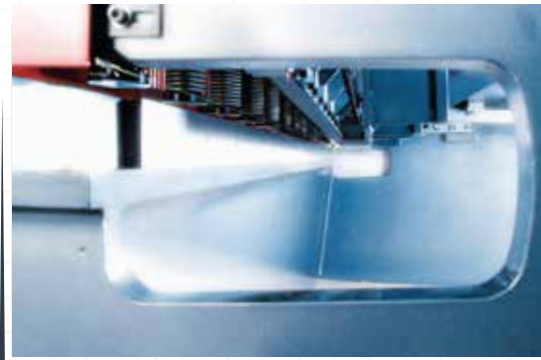
Production is *More Effective Now.*

VS Series General Features

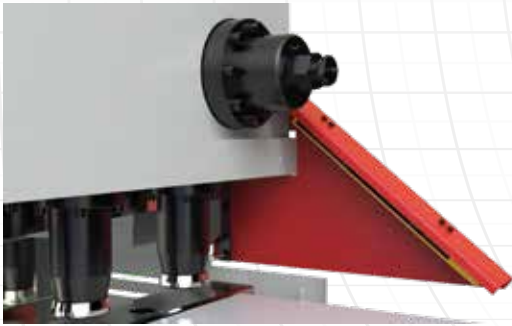
With choice of standards and optional equipment VS Series add to value your business by offering proper solutions for your needs. With the high-tech features high efficiency, high precision, high performance criteria VS Series have proved that it is user-friendly and the best of in this sector.



■ **Flip-up Finger Guard**
Ball Transfer Table
Hydraulic Holdowns



■ **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**

VS

STRONG 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.

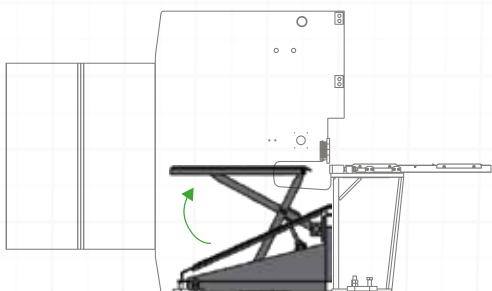
Quality cutting is possible with perfect product, stability and precision back gauge.

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.

Sheet Support Systems

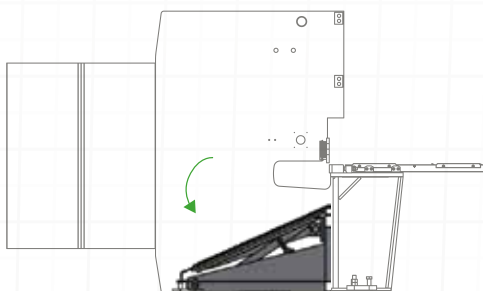
■ Pneumatic Thin Sheet Support System

DURMA I



Step 1

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

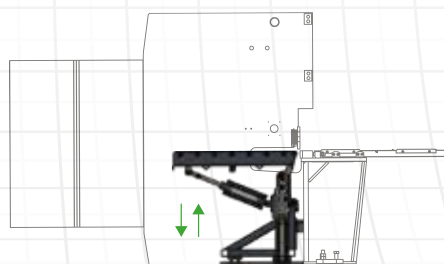


Step 2

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.

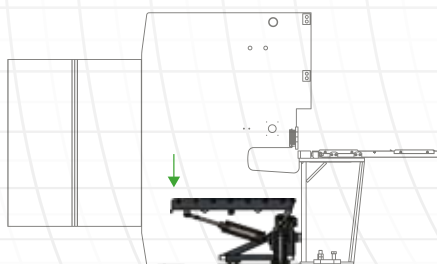
■ Pneumatic Thin Sheet Support System

DURMA IV



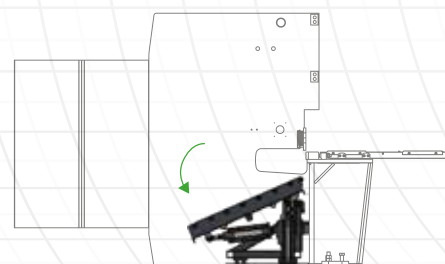
Step 1

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

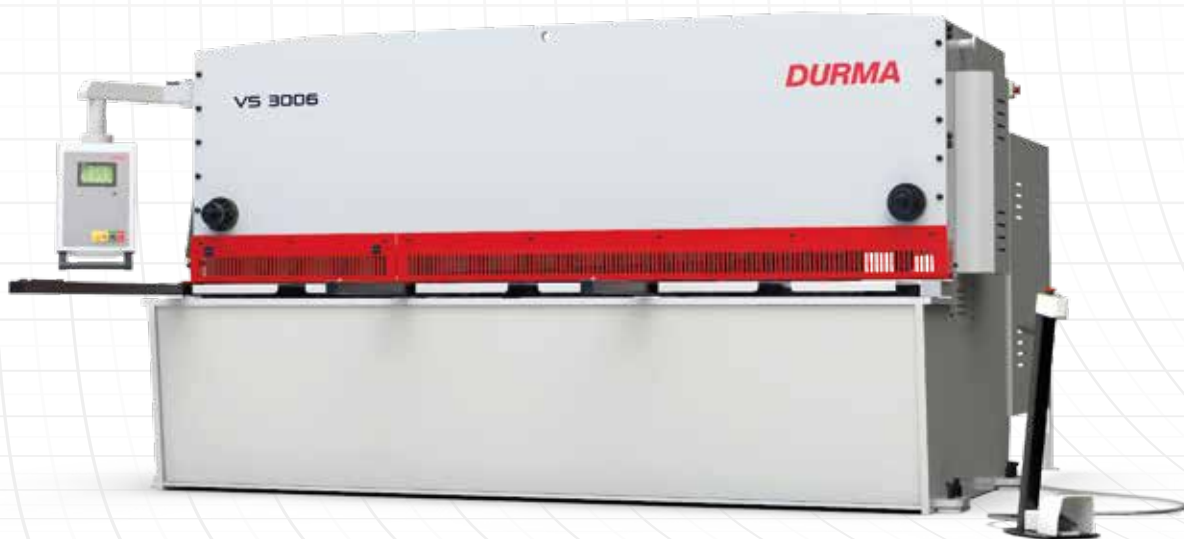
After cutting process is finished, sheets are discharged by closing movement of the table.

VS

VS Series Technical Details

VS Series	Cutting Capacity	Cutting Length	Cutting Angle	Number of Strokes per Minute (SPM)	Number of Hold-down Cylinders	Hold-down Cylinders Force		Motor Power	Oil Capacity	Stroke	Threat Depth		Height	Lenght	Total Width	Width	Weight
	mm	mm	^	1/dak	adet	Min. ton	Max. ton	kW	lt	mm	mm Option	mm Option	mm	mm	mm	mm	~ kg
	A										D		H	L	W	W1	
3010	10	3.080	0°30' - 2°	10-20	16	4	20	22	200	175	350	500	2.150	3.800	5.050	2.150	9.400
3013	13	3.080	0°30'-2°30'	9-17	17	8	40	30	350	190	350	500	2.450	4.200	3.560	2.100	12.860
3016	16	3.080	0°30'-2°30'	7-12	14	11	55	45	420	175	350	500	2.570	4.130	3.820	2.210	18.150
4013	13	4.080	0°30'-2°30'	7-13	20	10	48	30	350	230	350	500	2.550	5.200	3.560	2.150	17.720
4016	16	4.080	0°30'-2°30'	5-9	17	50	100	45	420	255	350	500	2.950	5.890	3.625	2.100	24.400
6016	16	6.080	0°30'-2°30'	4-10	29	29	58	45	550	350	350	500	2.950	7.400	3.790	2.200	39.300
6020	20	6.080	0°30'-3°15'	3-6	29	48	100	45	650	410	350	500	3.530	8.100	4.100	2.800	61.000

Production is *More Effective Now.*



Production is *More Effective Now.*

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.



VS

STANDARD & OPTIONAL EQUIPMENT

Standard Equipments

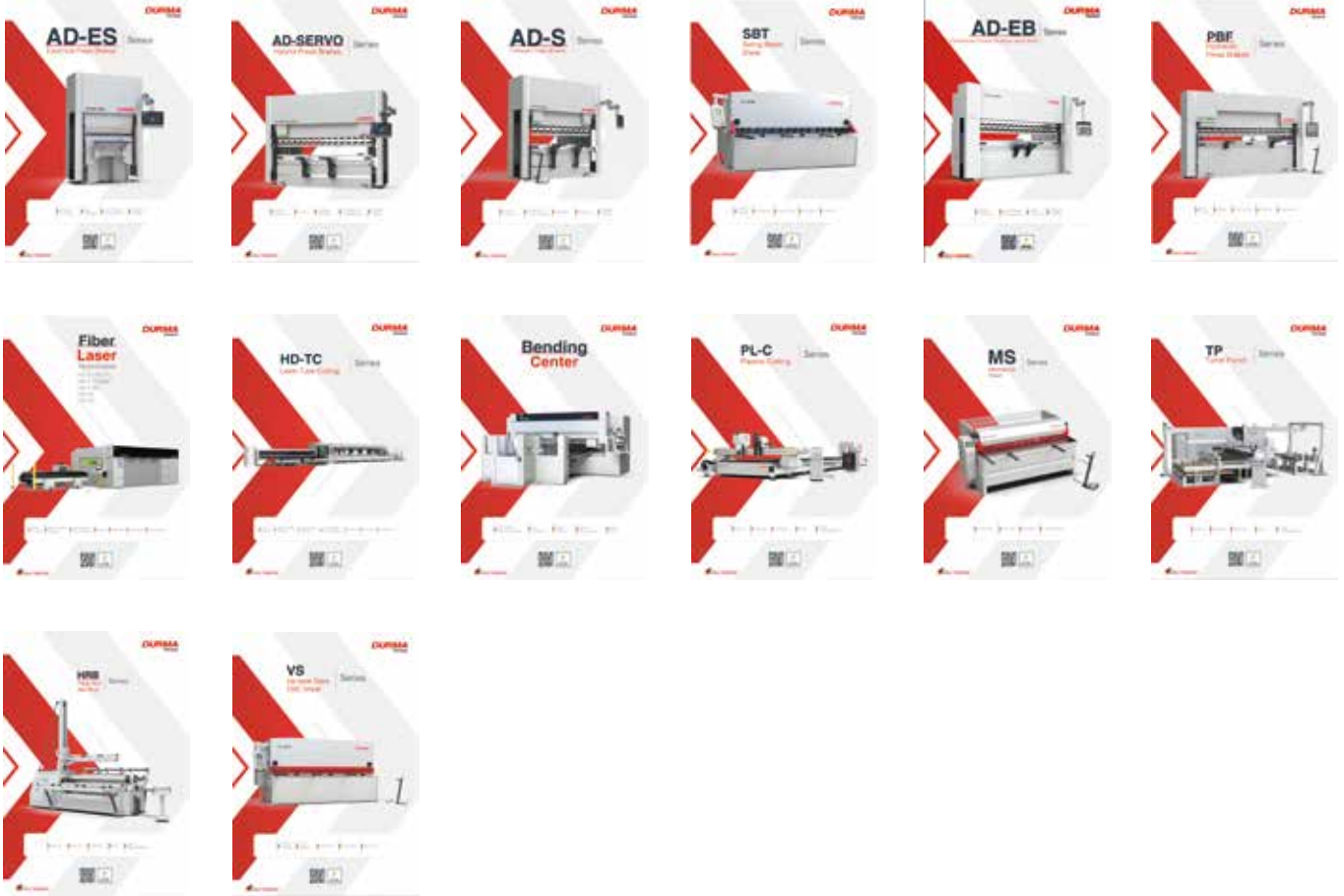
- User Friendly CNC Touchscreen Control Unit D-Touch 7 CE-Norm
- Heavy Duty Steel Construction & Stress Relieved Frame
- Automatically Adjusted Rake Angle by CNC
- Adjusted Cutting Length by CNC
- Ball Integrated Front Tables
- 1000 mm Ballscrew Backgauge
- Flip-up Finger Guards (1000 mm)
- Squaring Arm with Scale with T-Slot (L=1500 mm)
- Support Arms with T-Slot & Tilting Stop (L=1000 mm)
- 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)
- Pneumatic Sheet Support (DURMA IV)
- Hydraulic Anti-twisting
- Special Throat Depth
- 1250 mm Backgauge
- CNC Controlled X1, X2 Axis
- Oil Coolant (Standard for VS 6006 & VS 6013)
- Oil Heater (Standard for VS 6006 & VS 6013)
- Central Lubrication (Manual/Motorized)
- Adjustable Angle Stop 0-180°
- Extension Support Arms
- Special Blades
- Temperature Measurement
- Special Packing for Overseas Shipments

Product Groups

DURMA



f Durma International
@ durmainternational
X durmaint
▶ durmamachines
in Durmazlar



EN 2026/07/V06



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