

The Winning Force

**DURMA**

**SBT** SERIES  
SWING BEAM SHEAR



- Perfect Cutting
- Hi-Speed
- Heavy Duty
- Accurate
- Efficient



**DURMA** The Winning Force





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 m<sup>2</sup>, 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



3

High quality  
machines designed  
in R&D Centre

2

Top quality  
components



# The Winning Force

## Rigid body structure and perfect cutting

Unique design and rigid body enable SBT series to provide perfect cutting quality and low cost solutions.



# Advance Your Standards

## Precision and high quality cuttings

High technology standards, design and user-friendly interface SBT provides perfection with high standard safety, efficient solutions that strengthen your skills and add value to your company. 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

- Fast and quality cuttings
- Robust body structure
- High precision and repeatability
- Low maintenance cost
- Hi-tech perfect equipments
- Boost your business
- Reliable Brand

# Gain More Power

## High performance, advanced technology and economic solution

*DURMA* Shears have been manufactured since 1956 and have been installed and working in a wide variety of sheet metal cutting operations for many industries.

Years of experience has helped us develop durable, low distortion and precise cutting machines.



## General Specifications

- Robust design & powerful body for perfect cutting
- Hardened and ground blades for long life and precise
- Proved and rigid design with swing beam top table
- Minimum deformation and optimum cutting quality with best cutting angle
- CE standards security
- The combination of economic and perfect cutting performance
- CNC controlled gap adjustment and cutting angle
- User friendly CNC touch screen control unit
- 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
- Balls tranfered table and T-slot front feedings arm helps prices cuttings
- Table with balls and feeding plates

# Strong Back Gauge System

Precise

Robust

Min. Deformation

- Fast and high accuracy
- Reliable movement
- Adjustment from each point
- Resistance to crash
- Maintenance free



## 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.



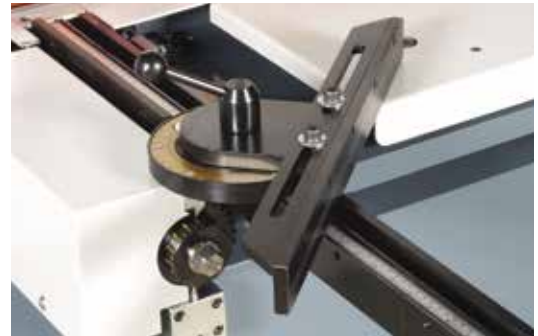
Ballscrew back gauge

# SBT Series General Features

With choice of standards and optional equipment SBT boost your business by offering proper solutions for your needs. With the hi-tech features like high efficiency, precision, and high performance criteria SBT has proved that it is user friendly and the best of this sector.



Flip-up Finger Guard  
Ball Transfer Table  
Hydraulic Holddowns



Adjustable Angle Stop 0-180°



Light Curtains For Finger Protection



Blade Gap Adjustment



Thin Sheet Support System



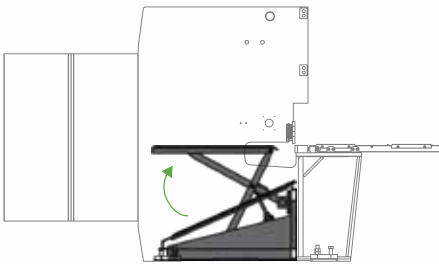
# Sheet Support Systems

- Better and fast cutting
- Easy and secure usage
- High precision and repeatability

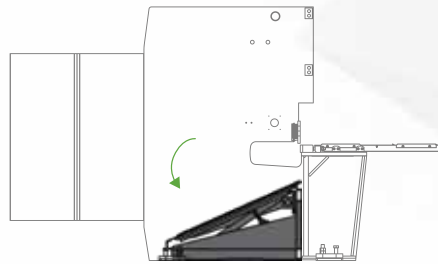


Pneumatic Thin Sheet Support System

DURMA I



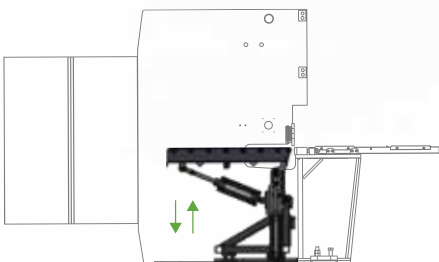
Step 1



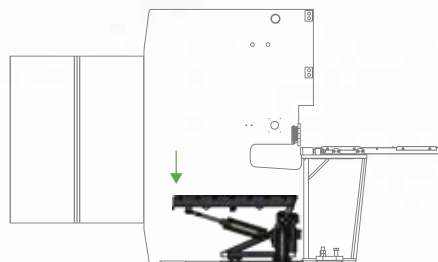
Step 2

Pneumatic Thin Sheet Support System

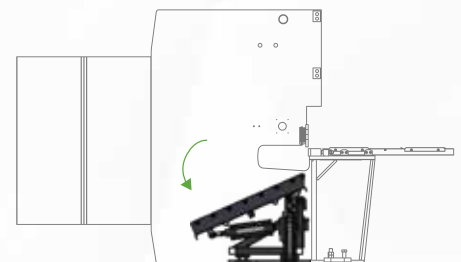
DURMA IV



Step 1



Step 2



Step 3

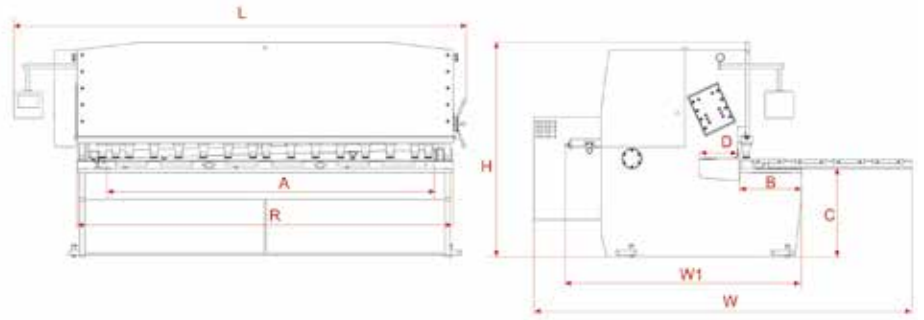
# SBT Series Technical Details

SBT Series	Cutting Length	Cutting Capacity		Throat Depth	Stroke per min.	Cutting Angle	Holddowns	Holddown Force	Back Gauge Range	Back Gauge Force
		MS (450 N/mm <sup>2</sup> )	SS (700 N/mm <sup>2</sup> )							
	inch	inch	inch	inch	1/min.	°	lbf	inch	kW	
	A			D						
3006	122	0,25	0,15	2	15	1° 30'	16	31500	39	0,75
3010	122	0,40	0,25	2	13	1° 30'	16	5000	1000	0,75
3013	122	0,50	0,30	2	13	1° 45'	16	83200	1000	0,75
3016	122	0,60	0,40	14	10	2°	14	137200	1000	0,75
3020	122	0,80	0,50	14	6	2°	14	173200	1000	0,75
4006	161	0,25	0,15	2	12	1° 30'	20	38500	1000	0,75

## Standard & Optional Equipment

### Standard Equipment

Heavy duty St 44 steel construction & stress relieved frame  
 User friendly CNC Touch screen control unit D-Touch 7  
 Easy blade gap adjustment  
 Ball integrated front tables  
 Ballscrew back gauge, 40 inch & automatic swing-up  
 Squaring arm with scale & T-Slot & tilting stop  
 Support arms T-Slot & Tilting stop  
 Illumination & shadow line 40 inch flip-up finger guards  
 Automatically pressure adjusted solid holddowns  
 Top blades with 2 sides and Bottom blades with 4 sides  
 Foot pedal  
 High performance hydraulics & electronics components  
 Automatic Swing-up back gauge  
 CE-Norm



Back Gauge Speed	Motor Power	Oil Capacity	Front Armas	Tabla Height	Table Width	Table Length	Length	Width	Total Width	Height	Weight
mm/sec.	kW	gallon	Unit	inch	inch	inch	inch	inch	inch	inch	~pound
				C	B	R	L	W1	W	H	
8	15	53	2	34,1	19,7	138,4	161,8	86,6	145,7	82,7	16000
8	22	53	2	34,1	22,8	138,4	165,4	88,6	141,7	82,7	20000
8	30	87	2	33,3	23,6	139,8	168,5	90,6	141,7	92,5	26000
8	37	108	2	32,2	21,7	140,9	179,1	88,6	150,6	88,6	32000
8	45	120	2	34,9	22,4	144,5	175,2	89,0	133,9	96,5	45500
8	15	53	3	34,1	22,8	177,6	205,9	90,6	141,7	84,6	25500
8	30	87	3	32,2	21,7	178,0	210,6	88,6	151,6	88,6	36000

## Optional equipment

- Motorized blade gap adjustment
- Laser cutting line
- Light curtains for finger protection
- Pneumatic thin sheet support *DURMA I*
- Pneumatic thin sheet support *DURMA IV*
- Special throat depth
- Backgauge 50 inch.
- Add. support arms
- Special blades
- Oil coolant
- Oil Heater
- Adjustable angle stop 0-180°
- Control panel on opposite position
- Temperature measurement
- Overseas special packaging

# 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



# 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



Service Agreements



Software



Training



Flexible Solution

**DURMA**



PANEL BENDER



PUNCH



PLASMA



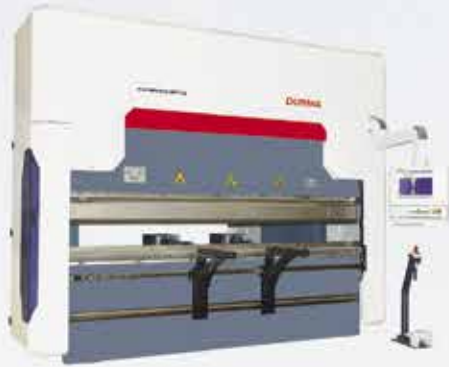
L ANGLE PROCESSING CENTER



IRON WORKER



POWER OPERATED SHEAR



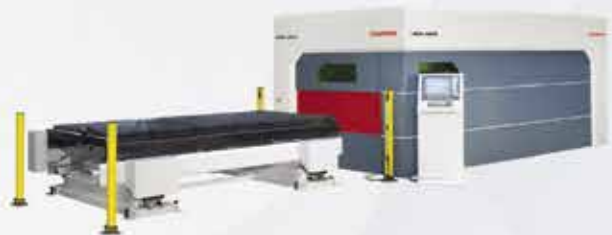
PRESS BRAKE



VARIABLE RAKE SHEAR



TUBE LASER CUTTING



FIBER LASER



ROLL BENDING



PROFILE BENDING



CORNER NOTCHER

## SBT SERIES Swing Beam Shear

**Durmazlar Makina San. ve Tic. A.Ş.**  
OSB 75. Yıl Bulvarı Nilüfer-Bursa / Türkiye  
P: +90 224 219 18 00  
F: +90 224 242 75 80  
info@durmazlar.com.tr

[www.durmazlar.com.tr](http://www.durmazlar.com.tr)



INCH 2022/04/V06