



Leading  
Technology



GUILLOTINE SHEARS

**HYPER - FORCE - PRESTIGE  
SERIES**

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







# CNC VARIABLE RAKE HYDRAULIC GUILLOTINE SHEAR

## HYPER SERIES

### STANDART FEATURES

- Elgo P40T Colored Touchscreen Cnc Control Unit
- Automatically adjusted blade gap by CNC
- Automatically adjusted cutting length by CNC
- Automatically adjusted rake angle by CNC
- Full Length Finger Guards Cage
- Lightning
- Shadow line
- Ball integrated front tables
- AC Motorized back gauge, 1000 mm with Automatic swing-up
- Squaring arm with scale & T-Slot & Tilting stop ( L= 1000 mm )
- Support arms ( L=1000 mm )
- Back Safety System
- Foot Pedal with Emergency Stop Button
- Rexroth Hydraulic System
- Siemens, Telemecanique, Schneider and Mitsubishi brand Electrical Components
- Top and Bottom Blades Made of Böhler Brand Steel

### OPTIONAL FEATURES

- Pneumatic sheet support system ( Back )
- Full Length Flip-up Finger Guards Cage
- 0-180° Front angle gauge
- Sheet Slider (Back)
- Laser Cutting Line
- Oil Heaters
- Oil Fan Cooler
- Manual Central Lubrication
- Motorized Central Lubrication





Machine body produced with advanced technology.  
Excellent cutting precision.  
New generation design with high performance.

## GENERAL FEATURES

HYPER Series CNC Variable Rake Hydraulic Guillotine Shears that provide the appropriate solutions for your needs, proved to be user friendly with its advanced technological features produced with high efficiency, precision and performance criteria. The HYPER Seires CNC Variable Rake Hydraulic Guillotine Shears has proved to be the best and strongest in the industry with its ease of use.

When you enter the length, thickness and material information of the sheet which will be cut into the easily programmable control unit; gap distance, cutting angle stroke and cutting length are automatically adjusted instantaneously.

While providing flexibility for different production requirements, the time loss was totally eliminated by targeting high productivity.

- The machine frame is manufactured with advanced technology with very precise tolerances and stress relieved with large welded components. All tensile points are designed with large radii and strain accumulation and possible welding cracks are eliminated.
- The lower table and upper table inertia are designed for optimum value for the minimum deformation affecting the cutting quality.
- The top plate is designed to be positioned vertically so that the roller bearings, piston bearings and felts can compensate for vertical loads.
- The hydraulic cylinder is designed as double-sided and honed to a surface quality of 2 microns. Thus, minimum wear resistance is created for the

felts. The cylinder bodies are manufactured as SAE 1040 material forged.

- The hydraulic cylinders are specially designed and the upper table is mounted with cylinder springs and doubly secure to cylinders as spherical connection. At this point, the power that generated during cutting is evenly distributed to the machine body.
- Piston head features: Omega-type felts are fitted with wide bronze bearings, semi-angled sleeves.
- The Hilalsan hydraulic system allows precise usage at all pressure values up to the maximum operating pressure. At the same time, with these pressure values, precise cylinder positioning, synchronization and repeatability are achieved.
- Backgauge system is manufactured in accordance with environmental conditions. Backgauge bearings are made for heavy conditions with double bearers. Scrapping type bearings are used against dust and other particles that will accumulate in the linear guideways against dusty environmental conditions.
- The outer surface of the machine is painted with two layers of paint at least 60 microns in thickness to protect against weather conditions. Paint drying is done gradually in different time and temperature ranges in state-of-the-art ovens.



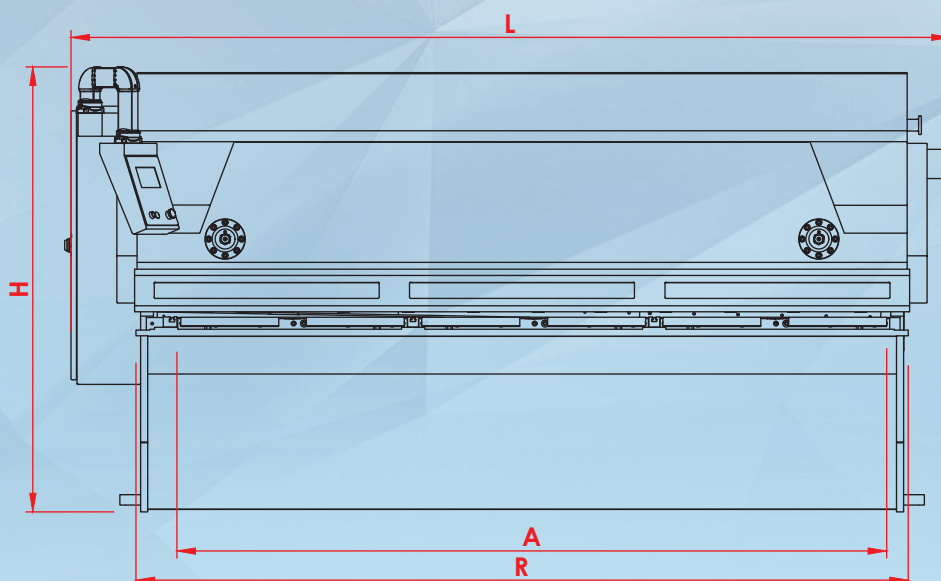


# CNC VARIABLE RAKE HYDRAULIC GUILLOTINE SHEAR

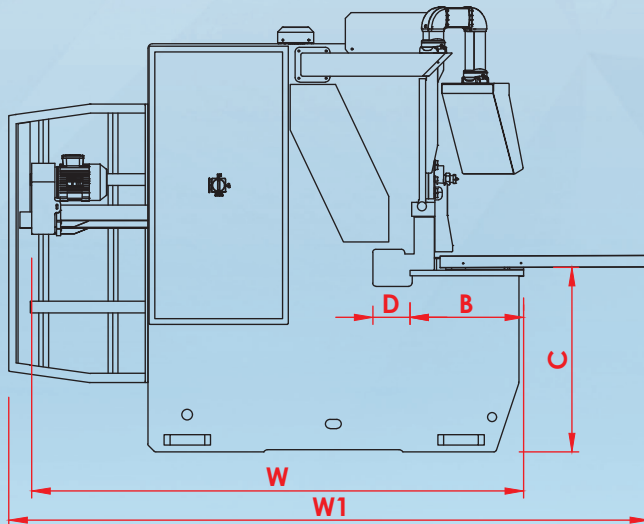
## HYPER SERIES

HYPER Machine Type	Cutting Length	Cutting Capacity		Min.Max. Stroke per minute	Cutting Angle		Number of Holddowns	Holddown Force		Backgauge Course	Backgauge Speed	Motor Power
		MS (450 N/mm <sup>2</sup> )	SS (700 N/mm <sup>2</sup> )		Min.	Max.		Min.	Max.			
	mm A	mm	mm	1/min.	Degree		pcs.	Ton	Ton	mm	mm/sec.	Kw
3006	3080	6	4	12_21	0,3	2	13	4	16	1000	100	11
3010	3080	10	7,5	9_19	0,3	2,1	16	5	20	1000	100	18,5
3013	3080	13	10	9_17	0,3	2,3	19	6	25	1000	100	22
3016	3080	16	12	7_12	0,3	2,3	16	8	40	1000	100	30
3020	3080	20	15	6_11	0,3	2,3	18	9	45	1000	100	45
4006	4080	6	4	10_20	0,3	2	20	10	25	1000	100	11
4010	4080	10	7,5	8_17	0,3	2,1	20	10	25	1000	100	18,5
4013	4080	13	10	7_13	0,3	2,3	20	10	50	1000	100	22
4016	4080	16	12	5_10	0,3	2,3	20	10	50	1000	100	30
4020	4080	20	15	4_8	0,3	2,3	21	10,5	52,5	1000	100	45
6006	6080	6	4	7_11	0,3	1,5	29	9	36	1000	100	18,5
6010	6080	10	7,5	6_10	0,3	2	29	9	36	1000	100	22
6013	6080	13	10	5_10	0,3	2,3	29	15	70	1000	100	30
6016	6080	16	12	4_10	0,3	2,3	29	15	70	1000	100	45
6020	6080	20	15	3_6	0,3	3,0	29	15	70	1000	100	45
8006	8100	6	4	4_8	0,3	3,0	38	12	47	1000	100	22
8010	8100	10	7,5	3_6	0,3	3,0	38	14	50	1000	100	30

HILALSAN has right to change catalogue values and machine technical details without notice. Misprints are not restrictive.



Oil Capacity	Throat Depth	Front Arms	Table Width	Table Height	Table Length	Length	Width	Total Width	Height	Approximate Weight
lt.	mm. D	pcs.	mm B	mm C	mm R	mm L	mm W	mm W1	mm H	mm Kg.
180	150	3	495	800	3330	4090	2060	3660	1900	7000
280	150	3	520	820	3350	4120	2120	3720	2100	8600
280	150	3	550	830	3360	4140	2150	3750	2400	11000
400	150	3	550	840	3380	4160	2220	3750	2530	16700
400	150	3	575	850	3420	4200	2300	3850	2650	19400
180	150	4	500	820	4370	5150	2100	3700	2050	9400
280	150	4	530	820	4380	5180	2150	3750	2350	13000
280	150	4	580	850	4400	5230	2200	3800	2500	15500
400	150	4	600	900	4400	5250	2200	3800	2850	21500
400	150	4	630	960	4420	5300	2220	3800	2950	26000
280	150	6	550	900	6370	7300	2150	3750	2700	23000
280	150	6	580	920	6375	7300	2150	3750	2750	25000
400	150	6	620	950	6400	7350	2200	3800	2950	30800
400	150	6	650	1000	6450	7400	2200	3800	3350	36500
400	150	6	700	1000	6480	7500	2750	4350	3460	51000
500	150	7	650	1200	8400	9100	2150	3750	3100	65000
500	150	7	750	1200	8450	9150	2200	3800	3200	78000





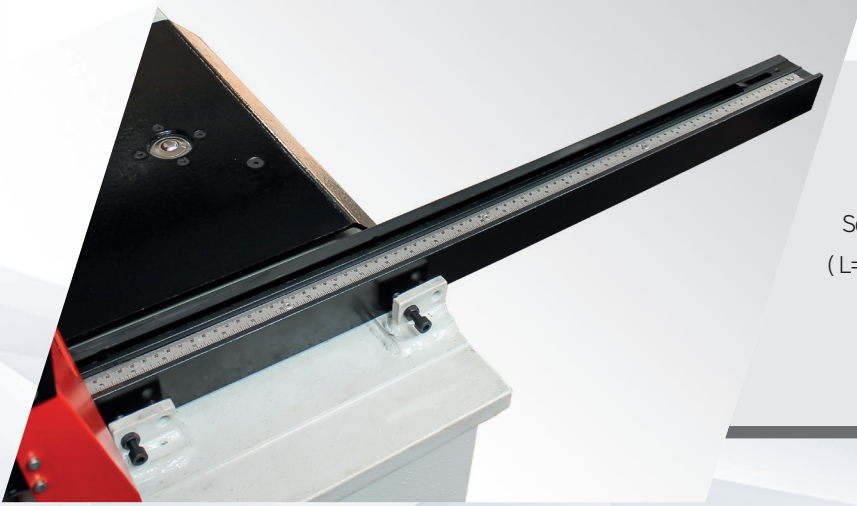
HYDRAULIC GUILLOTINE SHEARS

# HYPER - FORCE SERIES



The guillotine shear bodies machined in 5 Axis CNC machines are able to make more precise cuts.





Squaring arm with scale & T-Slot & Tilting stop  
( L= 1000 mm )

AC Motorized  
back gauge,  
1000 mm with  
Automatic  
swing-up





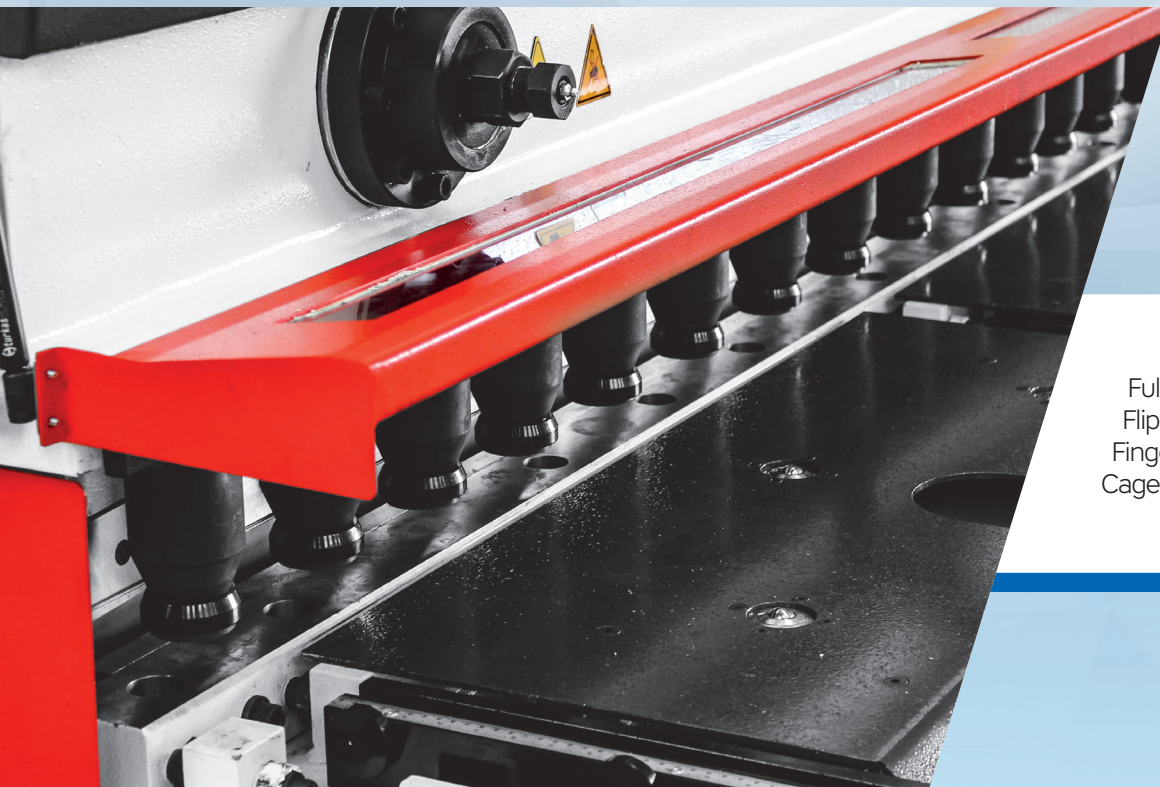
HYDRAULIC GUILLOTINE SHEARS

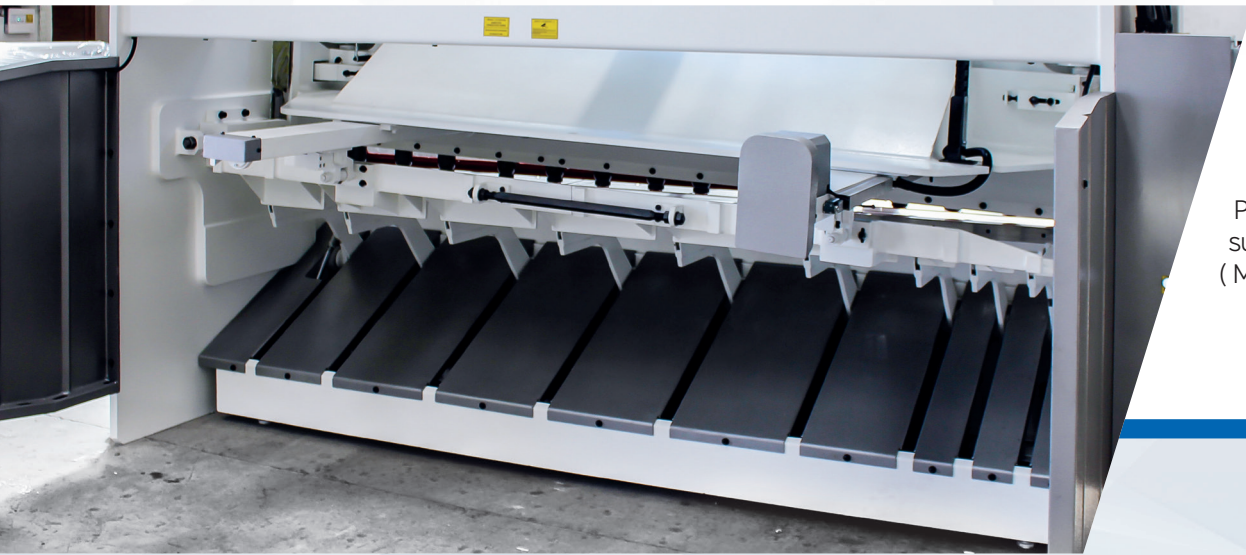
# HYPER - FORCE SERIES

Full Length  
Finger Guards  
Cage



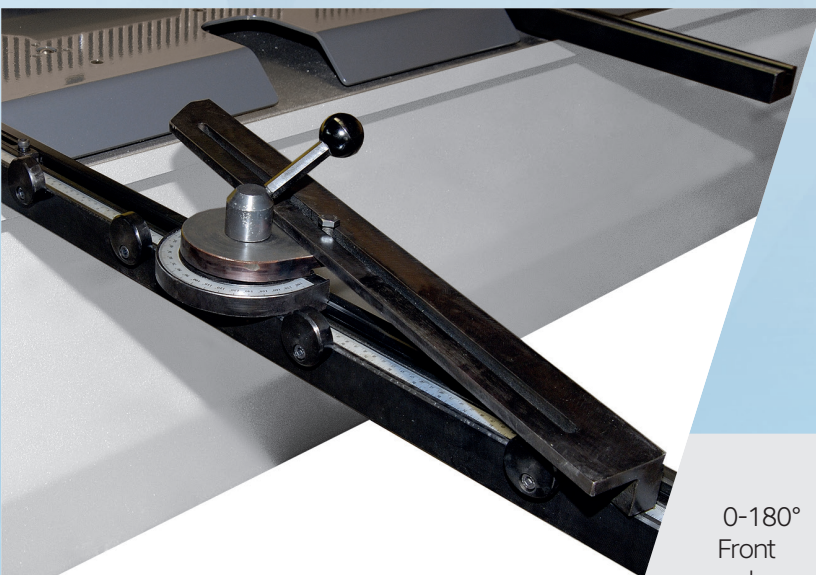
Full Length  
Flip-up  
Finger Guards  
Cage





Pneumatic sheet  
support system  
( Modular )

Manuel  
Blade Gap  
Adjustment

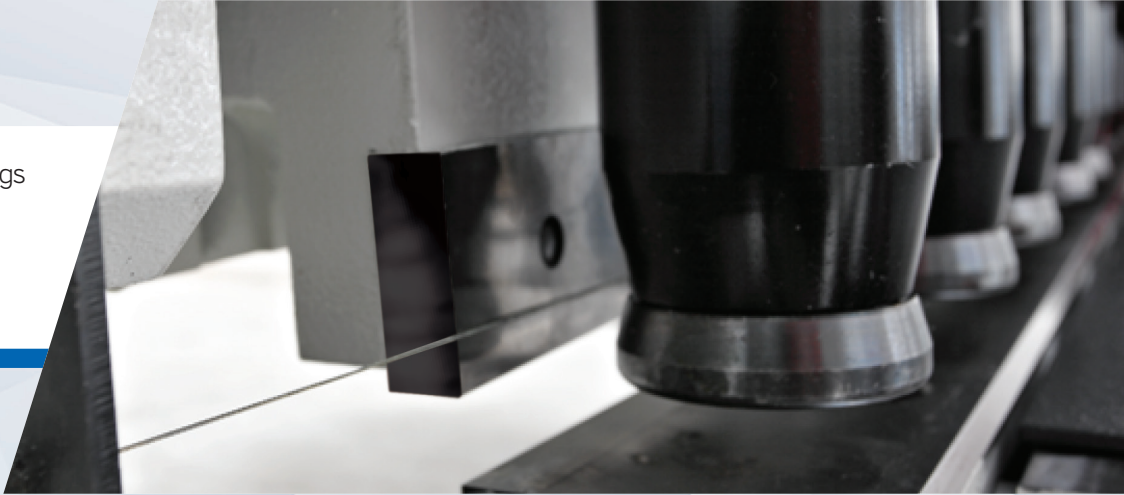


0-180°  
Front  
angle gauge



HYDRAULIC GUILLOTINE SHEARS

# HYPER - FORCE SERIES



Hold-down lugs  
that prevent  
from moving  
of the sheet  
during cutting

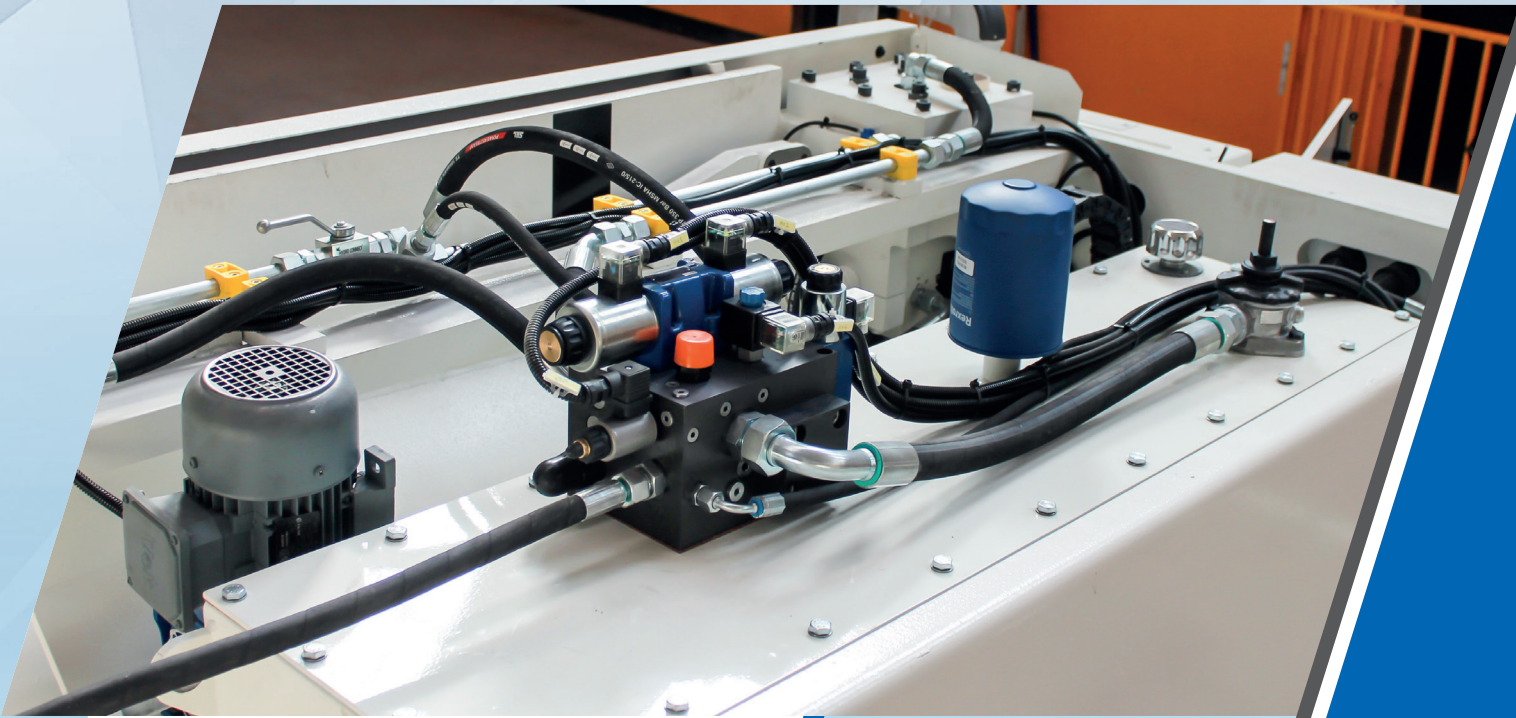
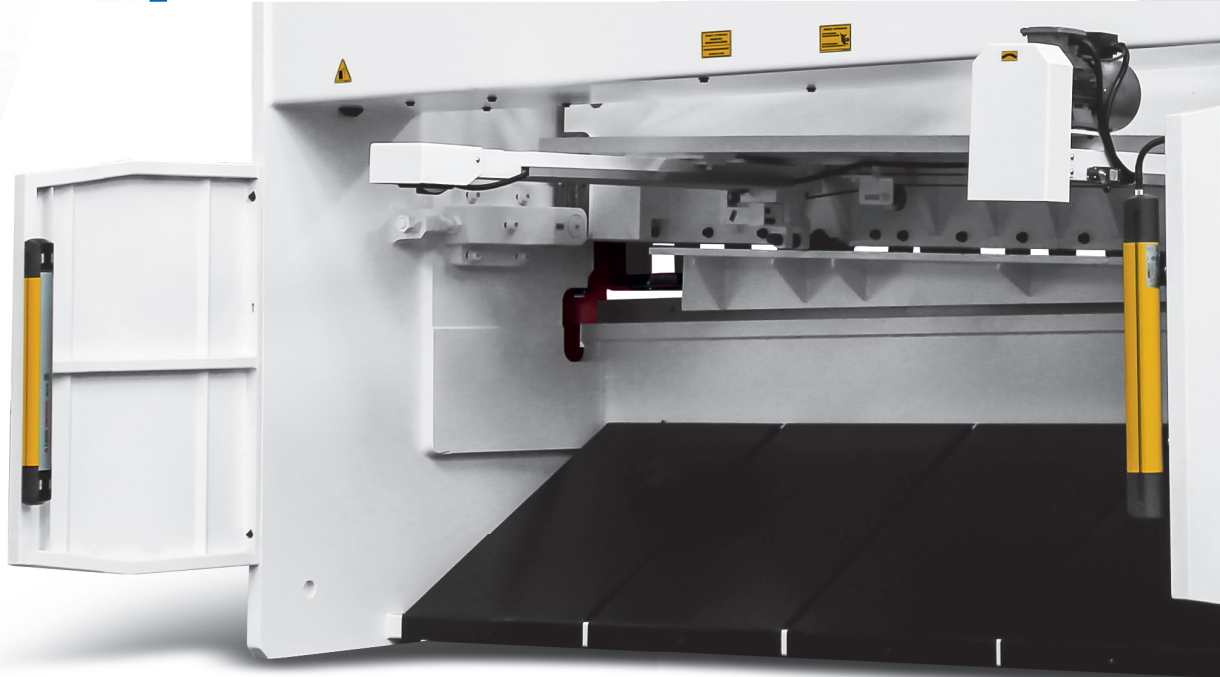


Lightning for cutting line  
& Shadow line



Ball integrated  
front tables

Back Safety System



Rexroth Hydraulic System



HYDRAULIC GUILLOTINE SHEARS

# HYPER - FORCE SERIES

Elgo P40T  
Colored  
Touchscreen  
CNC Control Unit

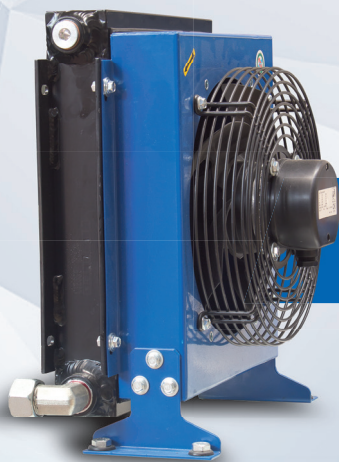


- Live Color & High Contrast TFT Touch Screen
- Material depending gap, angle and pressure calculation.
- Automatic Gap Adjustment
- Automatic Cutting Angle Adjustment
- Automatic Cutting Length Adjustment
- Automatic Backgauge Correction
- Automatic Backgauge Parking
- Sheet Support
- Hold-down pressure management
- System Pressure Management
- Program memory
- Language Selection

## HYDRAULIC GUILLOTINE SHEARS

# HYPER - FORCE SERIES

### OPTIONAL FEATURES



Oil Cooler  
with Fan

Manual Central  
Lubrication



Laser  
Cutting Line



Motorized Central Lubrication



Oil Heaters











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CNC Press Brake



CNC Press Brake



Cnc Variable Rake Hydraulic Guillotine Shear



Nc Guillotine Shear



Guillotine Shear with Reducer



Guillotine Shear with Reducer



Double Cylinder  
Hydraulic Iron Worker



Single Cylinder  
Hydraulic Iron Worker



Hydraulic Drawing Press

**HILALSAN®**  
Makina Endüstriyel ve Ticaret Limited Şirketi

Büyük Kayalık Mh.  
Konya Organize Sanayi Bölgesi  
Evrenköy Caddesi No.4  
Selçuklu / Konya / Türkiye

Tel.: +90 332 345 16 16 (pbx)  
Fax: +90 332 345 16 21

hilalsan@hilalsan.com.tr