

## CNC VARIABLE RAKE HYDRAULIC GUILLOTINE SHEAR

# HYPER SERIES

### STANDART FEATURES

- Elgo P40T Touch Screen Colour Control Unit
- Automatically adjusted blade gap by CNC
- Automatically adjusted cutting length by CNC
- Automatically adjusted rake angle by CNC
- Proportional pressure setting
- Full Length flip-up finger guard cage
- Shadow line & Lighting
- Ball integrated front tables
- Back safety Light Curtains
- Hilalsan Ballscrew back gauge, 1000 mm & Automatic swing-up
- Squaring arm with scale & T-Slot & Tilting stop (L= 1000mm)
- 1000mm Support arm
- Foot Pedal with Emergency Stop Button
- Top and Bottom Blades

### OPTIONAL FEATURES

- Cybelec Touch8 Touch Screen Colour Control Unit
- Pneumatic sheet support system ( Fixed Type )
- Pneumatic sheet support system ( Modular Type )
- 0-180° Front angle gauge
- Laser Cutting Line
- Light Curtain for Finger Protection
- Back Gauge Servo Motor Difference
- Oil Heater
- Oil Coolant with Fan
- Central Lubrication Manual
- Central Lubrication Motorized



## 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 Series CNC Variable Rake Hydraulic Guillotine Shears has proved to be the best and most durable 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 eliminated by targeting high productivity.

- The machine frame manufactured with advanced technology with exact tolerances and stress relieved with 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 created for optimum value for the minimum deformation affecting the cutting quality.
- The top plate designed to positioned vertically so that the roller bearings, piston bearings, and felts can compensate for vertical loads.

• The hydraulic cylinder is intended to be double-sided and honed to surface quality of 2 microns. Thus, minimum wear resistance is created for the felts. The cylinder bodies manufactured as SAE 1040 material forged.

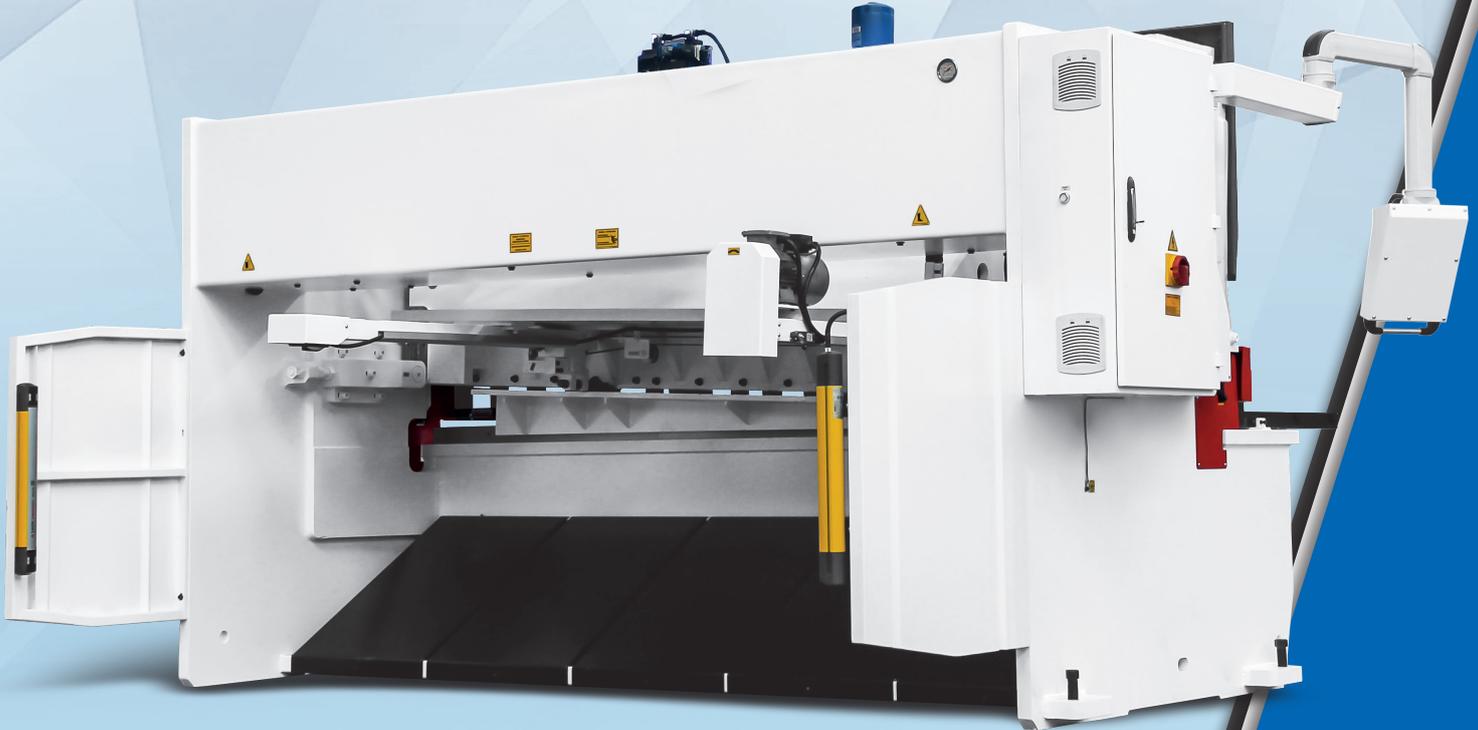
• The hydraulic cylinders specially designed and the upper table mounted with cylinder springs and doubly secure to cylinders as a spherical connection. At this point, the power generated during cutting distributed to the machine body.

• Piston head features: Omega-type felts fitted with full 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 manufactured in accordance with environmental conditions. Backgauge bearings made for heavy conditions with double bearers. Scrapping type bearings used against dust and other particles that will accumulate in the linear guideways against dusty environmental conditions.

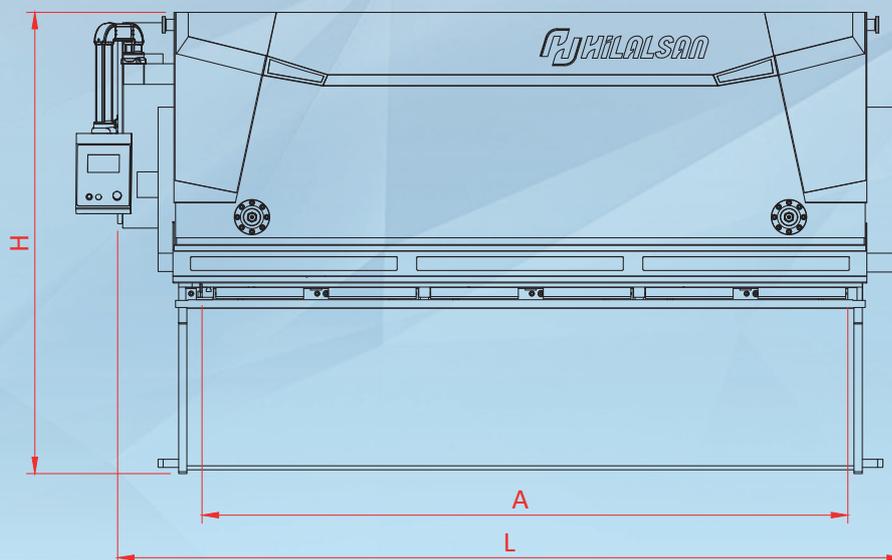
• The outer surface of the machine is painted with two layers of paint at least 60 microns in thickness to protect against weather conditions. Paint drying is done gradually in a different time and temperature ranges in state-of-the-art ovens.



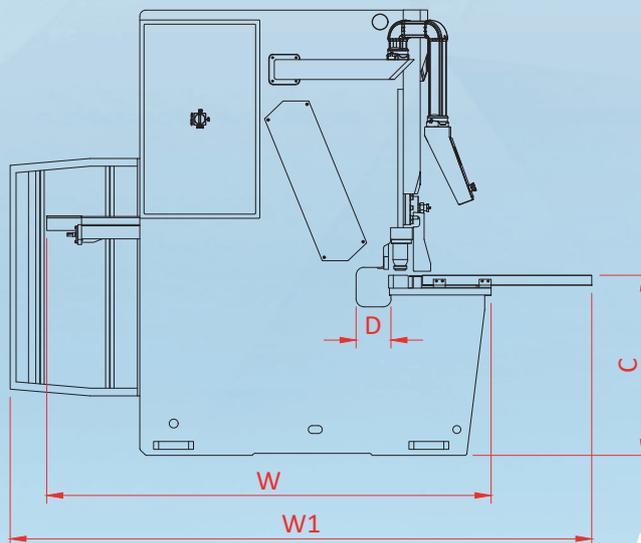
# HYPER SERIES

Machine Type	Cutting Length	Cutting Capacity		Number of stroke (No-load)	Cutting Angle		Number of Holddowns	Backgauge course	Backgauge Speed	Motor Power	Oil Capacity	Throat depth
		MS (450N/mm <sup>2</sup> )	SS (700 N/mm <sup>2</sup> )		Min	Max.						
	mm	mm	mm	1/dak	Degree		Units	mm	mm/sn	Kw	Lt	mm
A												D
AGM-2006	2080	6	4	13_24	0,3	2	9	1000	100	11	160	150
AGM-2010	2080	10	6	11_19	0,3	2	10	1000	100	22	350	150
AGM-2506	2580	6	4	12_22	0,3	2	11	1000	100	11	160	150
AGM-3006	3080	6	4	11_21	0,3	2	13	1000	100	11	160	150
AGM-3008	3080	8	5	10_18	0,3	2	14	1000	100	18,5	350	150
AGM-3010	3080	10	6	9_17	0,3	2	17	1000	100	22	350	150
AGM-3013	3080	13	8	8_15	0,5	2,3	15	1000	100	30	350	150
AGM-3016	3080	16	10	7_11	0,5	2,5	17	1000	100	30	350	150
AGM-3020	3080	20	13	5_10	0,5	3	18	1000	100	37	550	150
AGM-4006	4080	6	4	9_20	0,3	2	18	1000	100	11	350	150
AGM-4010	4080	10	6	8_16	0,3	2	20	1000	100	22	350	150
AGM-4013	4080	13	8	7_13	0,5	2,3	18	1000	100	30	350	150
AGM-4016	4080	16	10	5_10	0,5	2,5	21	1000	100	30	350	150
AGM-4020	4080	20	13	5_9	0,5	3	21	1000	100	37	550	150
AGM-6006	6080	6	4	8_13	0,5	2	26	1000	100	18,5	350	150
AGM-6010	6080	10	6	7_11	0,5	2	26	1000	100	22	350	150
AGM-6013	6080	13	8	6_11	0,5	2,5	24	1000	100	30	550	150
AGM-6016	6080	16	10	5_9	0,5	2,5	24	1000	100	37	550	150
AGM-6020	6080	20	13	4_7	0,5	3	24	1000	100	37	550	150

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



Front Arms	Table height	Length	Width	Total Width	Height	Approximate Weight
Units	mm	mm	mm	mm	mm	mm
	C	L	W	W1	H	Kg
2	800	2800	2120	2770	1900	4650
2	850	2850	2200	2940	2190	7900
3	850	3300	2130	2780	1900	5950
3	850	3850	2130	2780	2200	7250
3	900	3850	2230	2910	2110	8700
3	900	3850	2240	2920	2300	10500
3	900	3900	2260	2960	2350	12850
3	900	3900	2290	3000	2450	16500
3	1000	3950	2320	3050	2650	21500
4	900	4900	2160	2820	2300	10750
4	900	4900	2280	3000	2400	15500
4	900	4900	2310	3020	2550	18400
4	1000	4900	2340	3050	2700	22000
4	1100	5000	2370	3100	2800	27500
6	1000	6900	2200	2860	2550	22500
6	1000	6950	2330	3050	2650	28000
6	1200	6950	2370	3080	2950	35500
6	1200	7000	2410	3120	3150	40500
6	1200	7050	2440	3170	3300	50500



## HYDRAULIC GUILLOTINE SHEAR

# FORCE SERIES

### STANDART FEATURES

- BRL 401.2 NC Control Unit
- Motorized adjustable blade gap by Button
- Manual pressure setting
- Full Length flip-up finger guard cage
- Shadow line & Lighting
- Ball integrated front tables
- Back safety Light Curtains
- Hilalsan Ballscrew back gauge, 1000 mm & Automatic swing-up
- Squaring arm with scale & T-Slot & Tilting stop (L= 1000mm)
- 1000mm Support arm
- Foot Pedal with Emergency Stop Button
- Top and Bottom Blades

### OPTIONAL FEATURES

- Pneumatic sheet support system ( Fixed Type )
- Pneumatic sheet support system ( Modular Type)
- 0-180° Front angle gauge
- Laser Cutting Line
- Light Curtain for Finger Protection
- Oil Heater
- Oil Coolant with Fan
- Central Lubrication Manual
- Central lubrication Motorized



**GENERAL FEATURES**

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- Backgauge system manufactured in accordance with environmental conditions. Backgauge bearings made for heavy conditions with double bearers. Scrapping type bearings used against dust and other particles that will accumulate in the linear guideways against dusty environmental conditions.

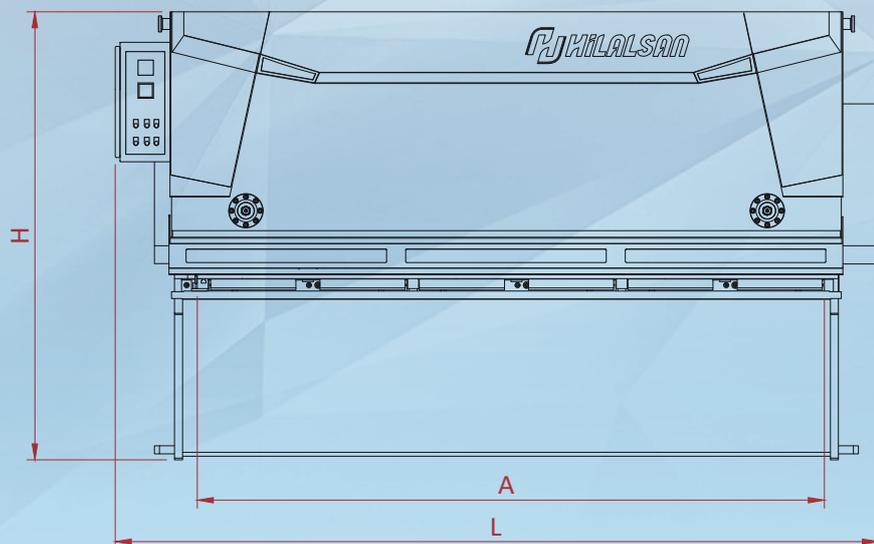
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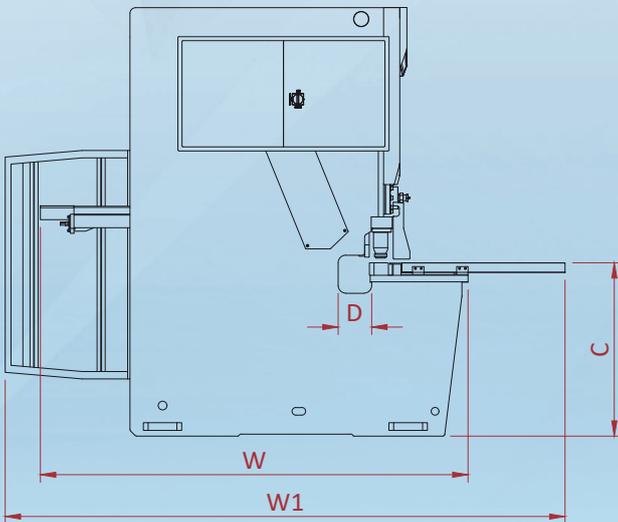
# FORCE SERIES

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	mm A	mm	mm	1/dak	Degree	Adet	mm	mm/sn	Kw
EGM-2006	2080	6	4	24	2	9	1000	100	11
EGM-2010	2080	10	6	19	2	10	1000	100	22
EGM-2506	2580	6	4	22	2	11	1000	100	11
EGM-3006	3080	6	4	21	2	13	1000	100	11
EGM-3008	3080	8	5	18	2	14	1000	100	18,5
EGM-3010	3080	10	6	17	2	17	1000	100	22
EGM-3013	3080	13	8	15	2,3	15	1000	100	30
EGM-4006	4080	6	4	20	2	18	1000	100	11
EGM-4010	4080	10	6	16	2	20	1000	100	22
EGM-4013	4080	13	8	13	2,3	18	1000	100	30

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Oil Capacity	Throat depth	Front Arms	Table height	Length	Width	Total Width	Height	Approximate Weight
Lt	mm	Units	mm	mm	mm	mm	mm	mm
	D		C	L	W	W1	H	Kg
160	150	2	800	2850	2120	2770	1900	4650
350	150	2	850	2900	2200	2940	2190	7900
160	150	3	850	3350	2130	2780	1900	5950
160	150	3	850	3900	2130	2780	2200	7250
350	150	3	900	3900	2230	2910	2110	8700
350	150	3	900	3900	2240	2920	2300	10500
350	150	3	900	3950	2260	2960	2350	12850
350	150	4	900	4950	2160	2820	2300	10750
350	150	4	900	4950	2280	3000	2400	15500
350	150	4	900	4950	2310	3020	2550	18400



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



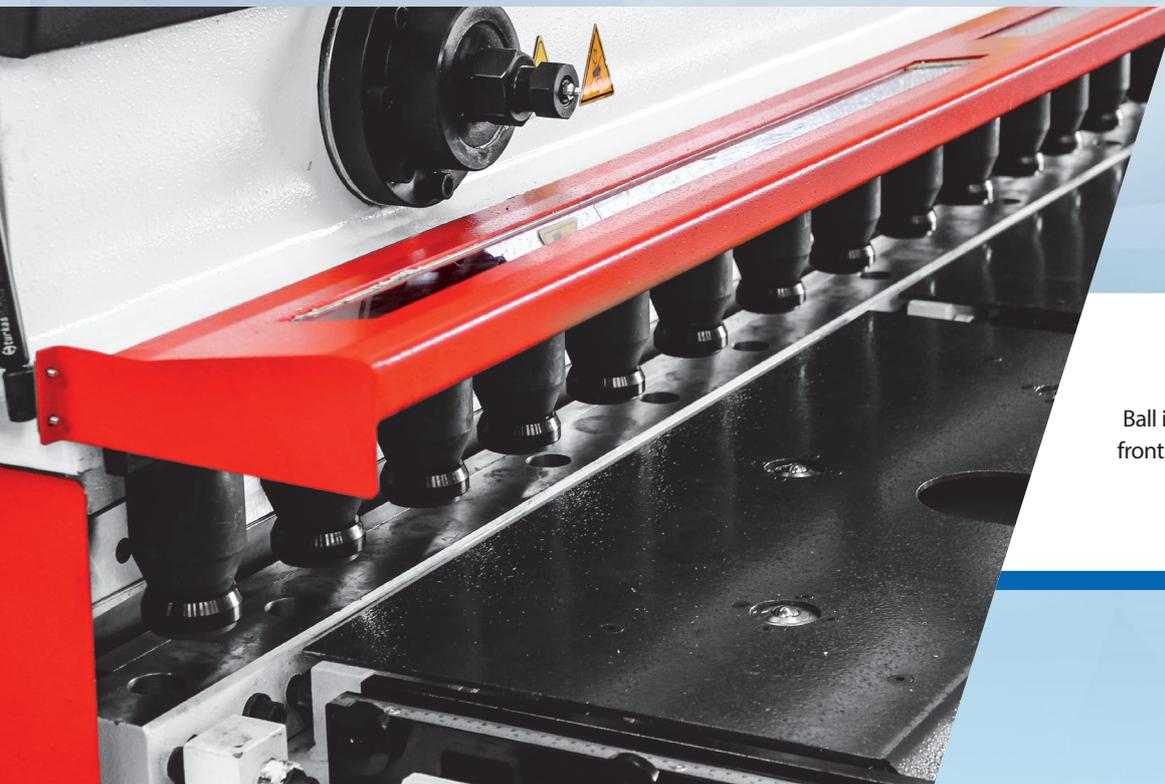
HYDRAULIC GUILLOTINE SHEARS

# HYPER-FORCE SERIES

Full Length  
flip-up finger  
guard cage



Ball integrated  
front tables

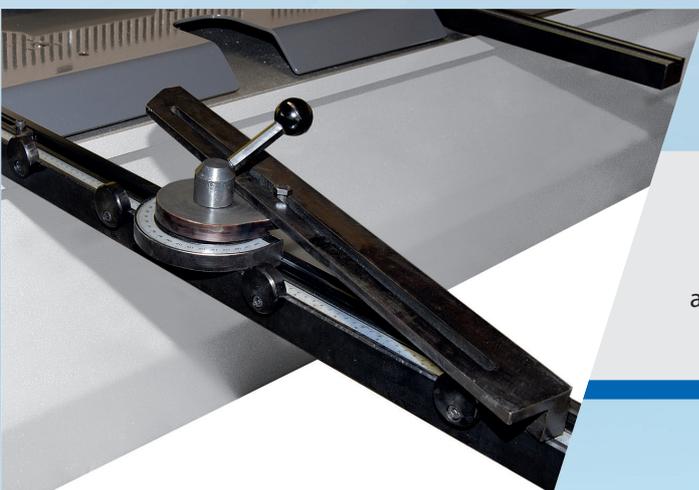




Pneumatic sheet  
support system  
(Fixed)



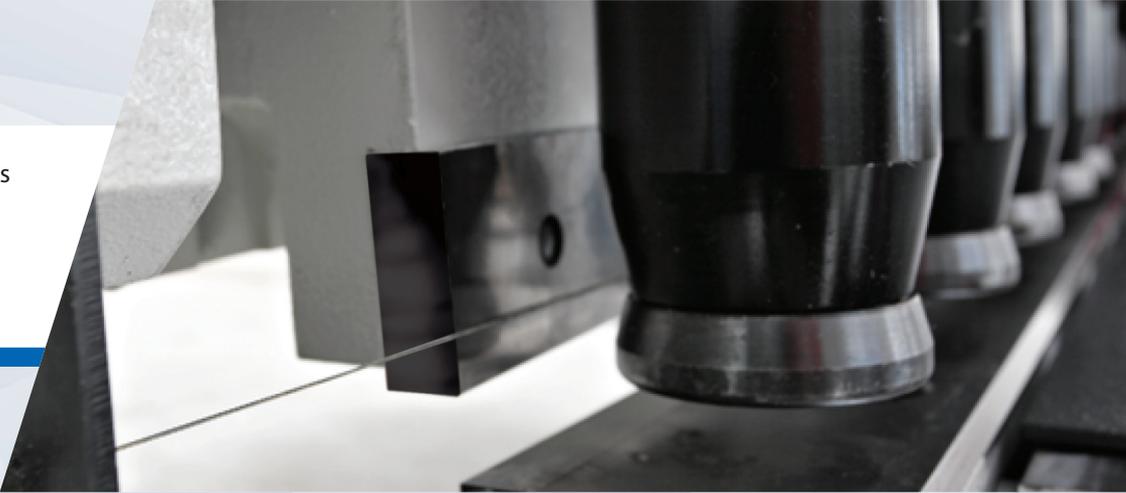
Pneumatic sheet  
support system  
(Modular)



0-180°  
Front  
angle gauge

HYDRAULIC GUILLOTINE SHEARS

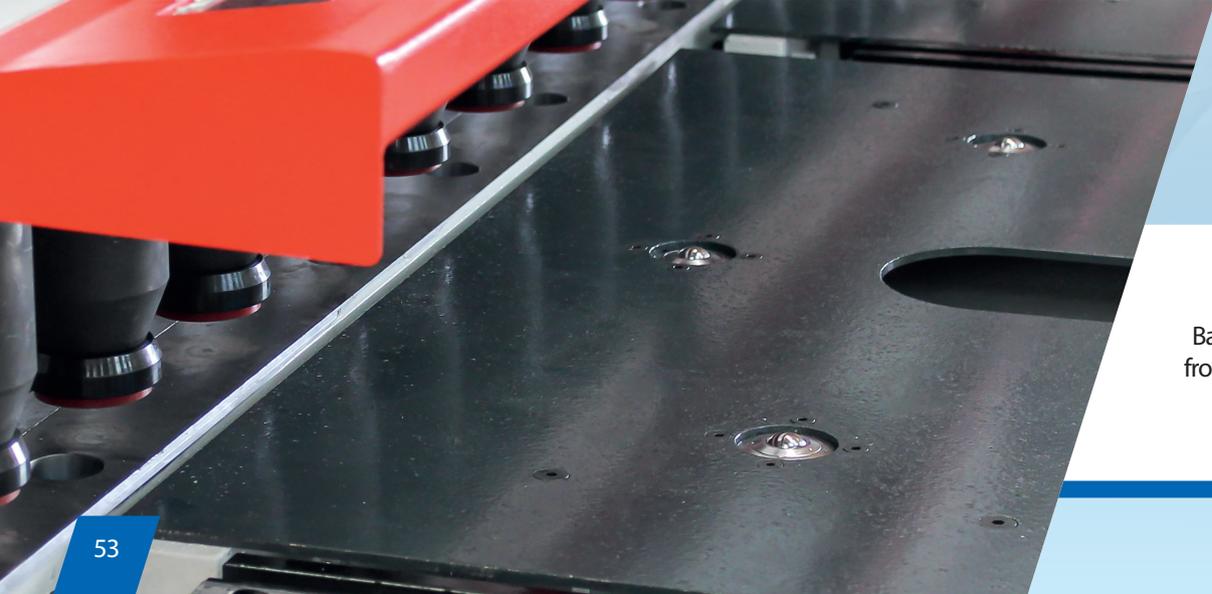
# HYPER-FORCE SERIES



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

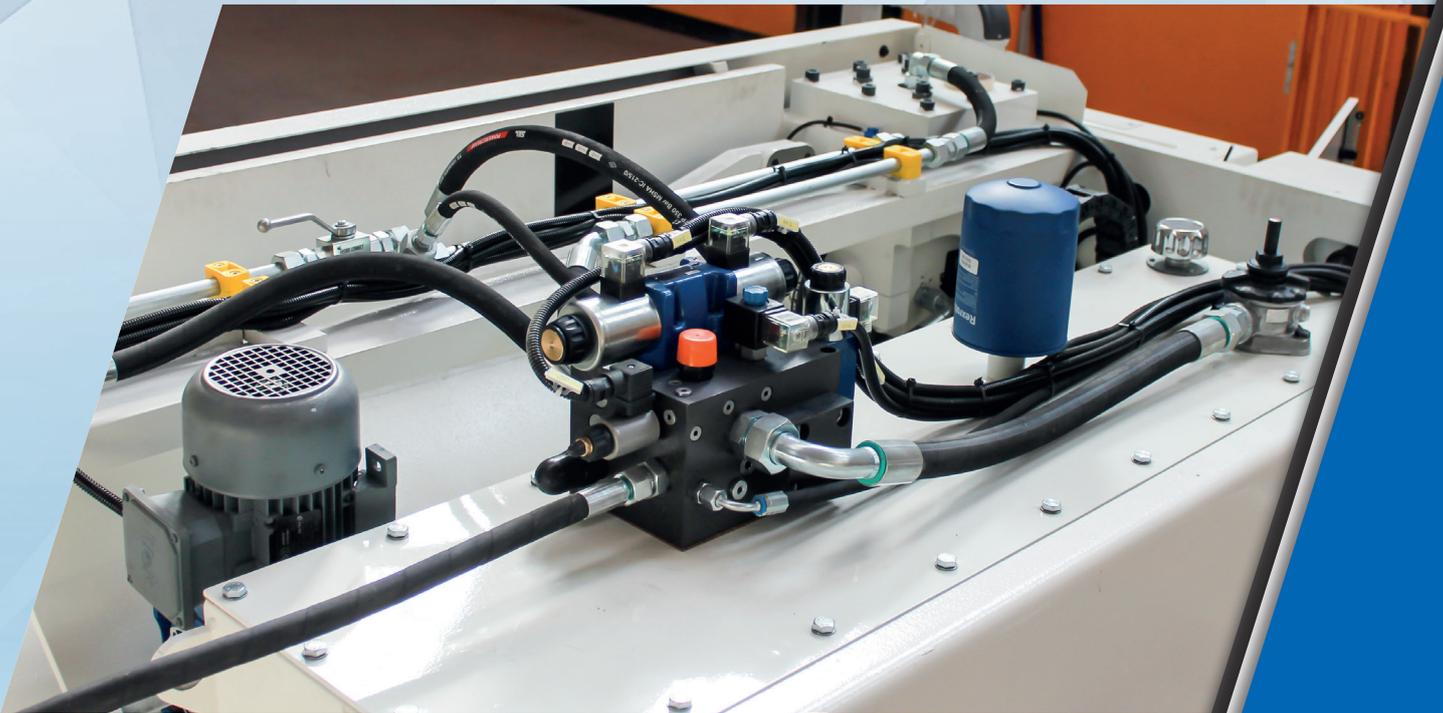
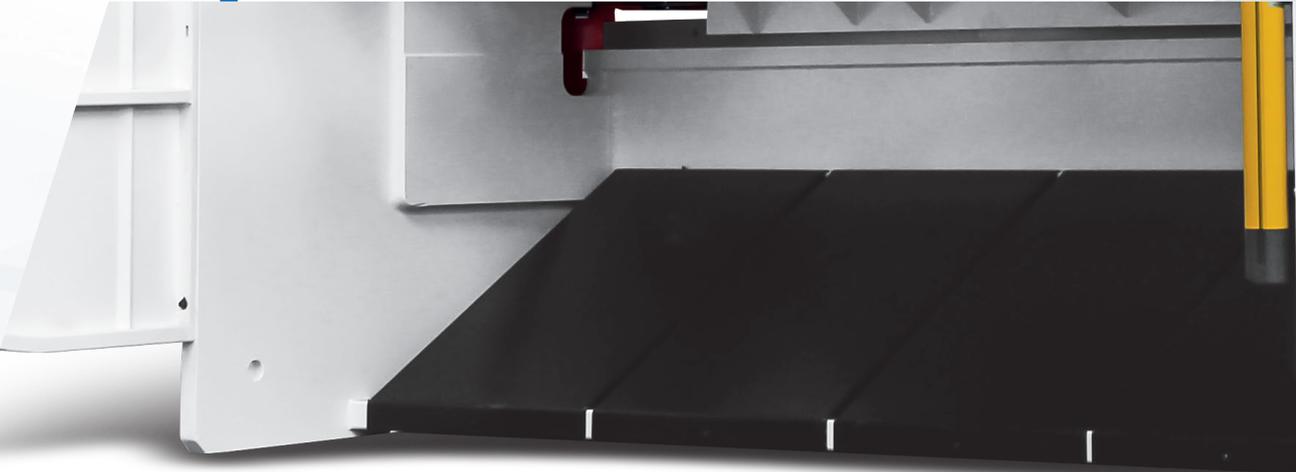


Lighting for cutting line  
& Shadow line



Ball integrated  
front tables

Back Safety Light Curtains



Hydraulic System

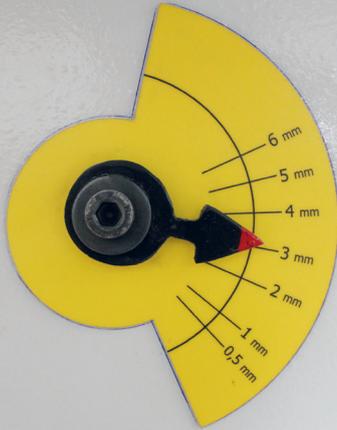
HYDRAULIC GUILLOTINE SHEARS

# 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



Motorized adjustable  
blade gap by Button

BRL 401.2  
Control Unit



- Use encoder which supply between 5 VDC to 30 VDC
- Inch / Metric measuring unit,
- Measure 0 – 10 meter,
- 0,1 mm / 0,001 inch sensivity (Adjustable),
- Automatic / Semi Automatic and manual operating mode,
- 10 Different Set Position and Set Count value,
- Optional working with 100 programme, 10 set value
- Working without set values (Single mode),
- Upper and lower limit definition ,
- Double speed position control operation,
- Warning with error messages,
- Programmable manual movement keys ,
- Retraction capability ,
- Saves set position and count values when power off,
- Programmable direction models for each axis,

# HYDRAULIC GUILLOTINE SHEARS

## HYPER-FORCE SERIES

### OPTIONAL FEATURES

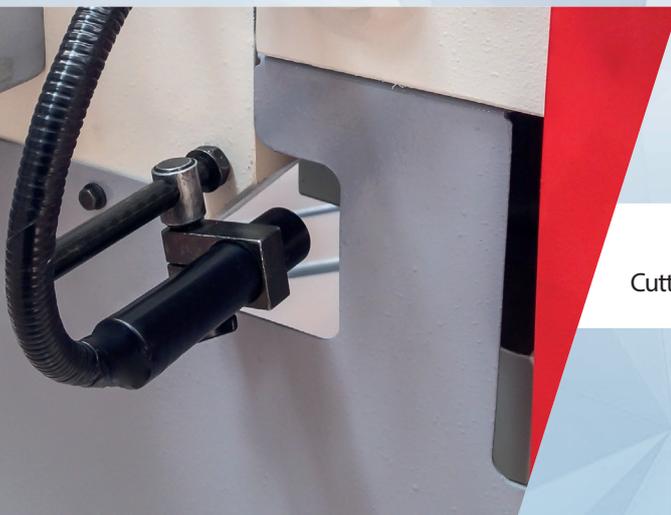


Oil Cooler with Fan

Manual Central Lubrication



Laser Cutting Line



Motorized Central Lubrication



Oil Heaters



