



ERMAKSAN

METAL FABRICATING MACHINERY

innovative technologies.

CNC HVR

Variable Rake Hydraulic Guillotine Shear



CNC HVR SERIES

Variable Rake Hydraulic Guillotine Shear

ERMAKSAN, known as one of the top worldwide manufacturers in the sheet metal industry, proudly announces its latest shear model to the market, Variable Rake Hydraulic Guillotine Shear "CNC HVR".

Blade gap, cutting angle and cutting length are all adjusted based on material selection and thickness automatically.

By choosing the new and improved CNC HVR, you will bring modern-day technology to your company with maximum safety, high accuracy and unique ease of use.

Excellent cut perfect speed



Excellent cut perfect speed;

It can cut all kind of metal sheet to maintain the highest production capacity with maximum precision and quality.

Front support arms.
1 meter (39") long, measured by mm / inch
strong front support arms with T slot and stopper.

Rigid structure.
Processed with high precision,
dynamic and static rigidity provided strong body.



STANDARD CONTROLLERS



GENERAL FEATURES

- User-Friendly**
 - Wide, bright, colorful touch screen to program easily.
 - Easy control pages.
 - Complete part programming in seconds.
 - Quick machine set up with EasyCut page.
 - Contextual help and warning pop-up.
- Improved Features**
 - Auto shutdown function for energy saving.
 - 10 different language selection.
 - Working time.
 - Wireless communication via PC/Laptop (optional).
 - Backgauge auto-retraction programming.

- Better Cuttings**
 - Automatic calculations of cutting functions upon material specifications.
 - More cutting sequence and programming memory.



GENERAL FEATURES

- Keyboard with big buttons.
- Programmed material types.
- Blade gap, cutting angle and cutting length adjusted based on material selection and thickness automatically.
- Different language selections.
- Backgauge adjustment according to blade gap.
- Sequence repeat function.
- Sub-program and programming loop.
- Highly protected micro processor.
- Monochrome 130 x 75mm LCD Box Panel.
- Data recording with internal SRAM memory.



- Updateable with flash memory (optionally with RS 232).
- Numerically programmable axis data.
- 16 input and output ports (24-32 options).
- EASycut page.
- Auto cutting (Flying cut).
- mm/inch conversion.
- Backgauge retraction feature.

**More than
just cutting;**

CNC HVR is developed by expert engineers of ERMAKSAN reflects innovative technology with all aspects of it.



ERMAKSAN CNC HVR 6100x20

ERMAKSAN CNC HVR 3100x10

Emergency stop buttons.
Easily reachable buttons.

Foot pedal.
Dual positioned pedal allows you to cut automatically.

Movable controller arm.
Allows operators to concentrate on job.

Collapsible finger protection.
In order to control angled cuttings and drawn lines front part of protection can be pulled up by operator. (Switch protected)

Squaring arm.
Makes it easy to handle the work and feeds the material through the cutting area by providing more delicate and quicker cuttings.

Front finger protection.
Finger protection that matches with international safety standards, presents a great visual working area to operator.

Defining standards



Motorized back gauge system.
1000 mm long back gauge with 0.1 mm accuracy.

Rear sheet sliding plates.
Cutting parts are carried out rapidly to the back side of shear.

Light barrier.
Fast and secure protection at all time compatible with CE standards.



Standard Equipment

- Wear resistant blades.
 - top blade = 4 cutting edge
 - bottom blade = 4 cutting edge
- Portable foot pedal is eligible for single and automatic cutting.
- CNC controlled hydraulic blade gap adjustment system.
- CNC controlled cutting angle adjustment system.
- CNC controller (CYBELEC).
- CNC controlled motorized backgauge system.
- 1000 mm motorized back gauge system with 0.1 mm accuracy.
- Front support arms with T slot, ruler and flip stop.
- Squaring arm.
- Scales with metric and inches.
- Cutting line illumination and shadow line.
- Emergency stops.
- Swing up backgauge.
- Central lubrication system.
- Front finger protection guard appropriate to CE norms, 1 m left side collapsible and switch protected.
- Rear sliding plates.
- Front sliding plates with ball bearings on the table.
- 350 mm throat depth.
- Pendant controller arm.

Optional Equipment

- Pneumatic sheet support systems for thin materials.
 - Lever type pneumatic sheet support system.
 - Monoblock type pneumatic sheet support system.
 - X type pneumatic sheet support system.
- 0° - 180° angle gauge.
- Long and powered squaring arm with ruler.
- 500 mm and over throat depth.
- Oil cooler.
- Oil heating system.
- Laser cutting line.
- Sliding support arms.
- Finger guard curtains.
- Anti - Twist system.
- Different colors.
- Dynamic servo backgauge.
- Sheet feeding system.
- Conveyor.
- Scrap separator.
- Stacker systems.
- X1, X2 adjustable angled backgauge system.
- Blades for stainless steel cutting.
- Stroke per minute – speed increase
- Extended backgauge stroke
- Special design – tailor made machines



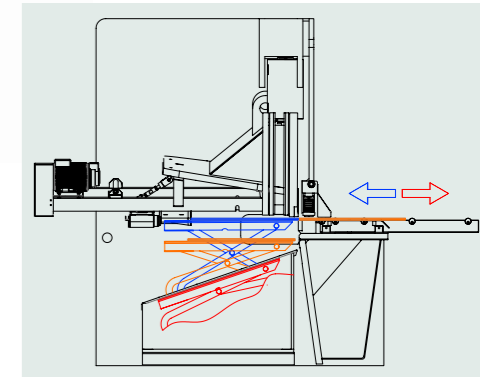
8100 x 30 mm CNC HVR



8100 x 6 mm CNC HVR



Return to Sender System (optional)
Precisely cut plate via the assistance of X type pneumatic sheet support system at the rear is being returned to the front of the machine by this system.



Return to Sender System working principle.



Anti-Twist system. (option)
Anti-Twist system prevents cutting sheet material from twisting in narrow and strip cuttings by holding straight during the cutting process against to blade movements.



X type pneumatic sheet support system (optional)
Protects sheets hanging down and improves precision for long and thin sheets cutting. Difference of this system than others is moving down parallel together with cut sheet and supports the sheet during entire cutting process.



Lever type pneumatic sheet support system (optional)
Avoids hanging down the wide and thin sheets via pneumatic arms support and provides more precise cuts.

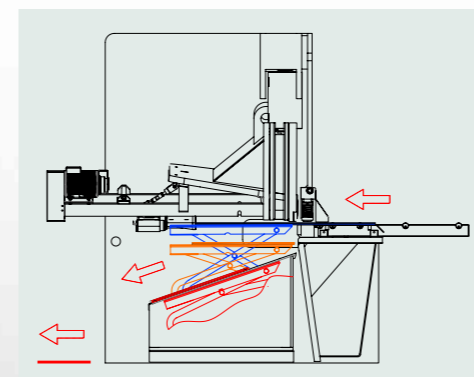
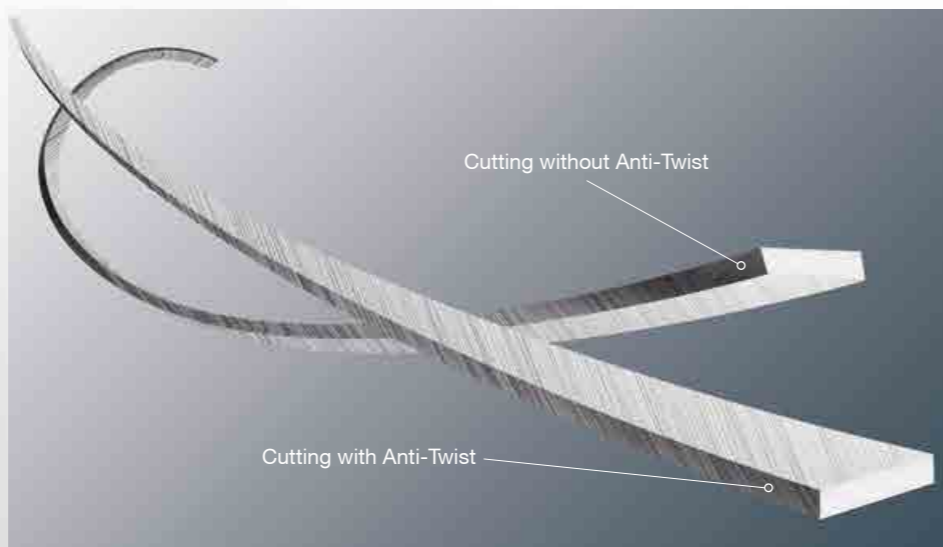


Monobloc type pneumatic sheet support system (optional)
Avoids hanging down the wide and thin sheets via pneumatic table support and provides more precise cuts.

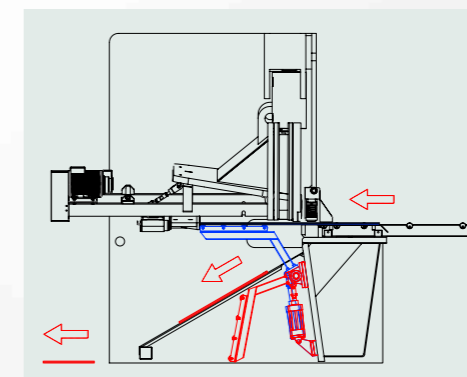
Perfect design in every aspect;

ERMAKSAN improves its reliability every day by working with highly educated engineers and by using the latest technology in rapidly developing sheet metal industry.

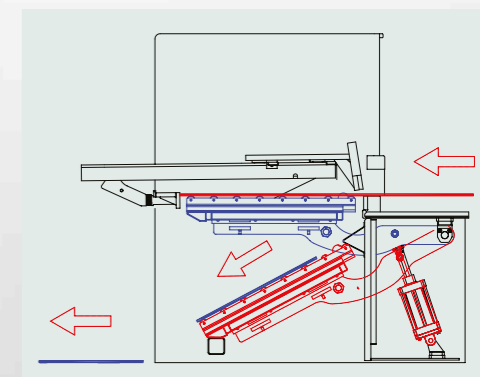
By using world standard steel, hydraulic systems and electronic products all your production needs provided.



X type pneumatic sheet support system working principle.



Pneumatic support system (lever type) working principle.



Pneumatic support system (monobloc panel type) working principle.



3100 x 40 mm CNC HVR

ERMANSAN CNC HVR 3100x40

Cybelec DNC 61G.
Easier to use with multifunctional control technology.

Special production machines.
Expert engineering in special machine production.



4100 x 10 mm CNC HVR

Scrap separator. (optional)

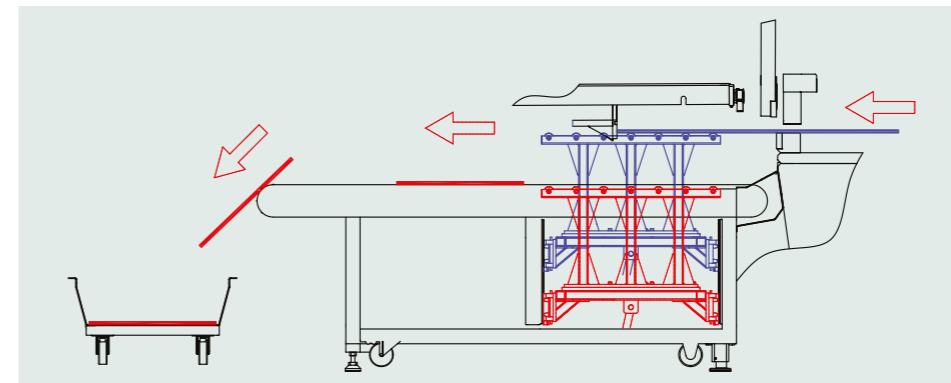
Conveyor system. (optional)
Cutting material is removed and carried out automatically to stacking area by conveyor belts.



Throat. (standard)
350mm standard throat depth allows you to cut sheet metals that are longer than machine length.



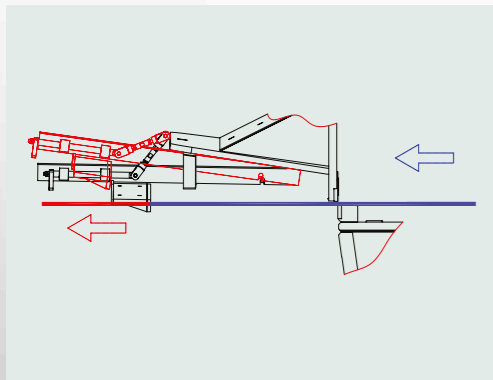
Front sheet metal feeding system. (optional)
Adjustable width, high accurate and fast front metal sheet feeding system will increase your productivity.



Conveyor system working principle.



Laser cutting line. (optional)
With the help of laser cutting line, angled or drawn line cuttings could be done easily and controllably.



Swing-Up backgauge. (standard)
Enables to cut sheet metals that are longer than backgauge stroke.



Shadow line. (standard)
Provides qualified and sensitive cutting by casting a line shadow at the cutting edge for right positioning of the worksheet to be cut.

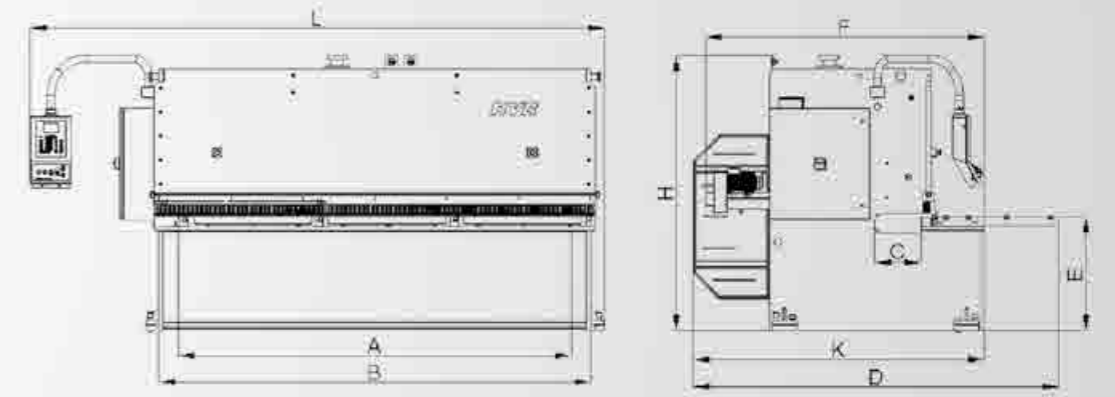


Angle gauge. (optional)
This device provides accurate and easy material handling in the angled cuttings.



Collapsible finger protection. (standard)
In order to control angled cuttings and drawn lines front part of protection can be pulled up by operator. (Switch protected)

Technical Features



TYPE	CUTTING LENGTH	CUTTING CAPACITY (42kg/mm ²)	CUTTING CAPACITY (70kg/mm ²)	CUTTING ANGLE	STROKE PER MINUTE	NUMBER OF HOLD DOWNS	PRESSURE	MAIN MOTOR	BACK GAUGE MOTOR	BACK GAUGE STROKE	BACK GAUGE SPEED	OIL CAPACITY	BLADE GAP ADJUSTMENT	NUMBER OF SHEET SUPPORT ARM	TABLE LENGTH	THROAT DEPTH	MACHINE WIDTH	TABLE HIGH	TRANSPORT WIDTH	LENGTH	WIDTH	HEIGHT	WEIGHT	
	A														B	C	D	E	F	L	K	H		
	mm	mm	mm	(°)	1/min	piece	ton	kW	kW	mm	mm/sec	lt.	mm	piece	mm	mm	Ops. (mm)	mm	mm	mm	mm	mm	kg	
CNC HVR 3100 - 6	3100	6	4	0.5 - 1.5	16 - 24	14	12	11	0,75	1000	110	150	0.05 - 0.8	2	3500	350	500	2900	900	2200	4980	2315	2225	7250
CNC HVR 3100 - 10	3100	10	6	0.5 - 2	12 - 22	14	24	22	1,1	1000	110	260	0.05 - 1.3	2	3640	350	500	3000	910	2265	5100	2425	2250	10230
CNC HVR 3100 - 13	3100	13	8	0.5 - 2	11 - 20	14	31	22	1,1	1000	110	310	0.05 - 1.5	2	3680	350	500	3100	900	2315	5110	2570	2400	12650
CNC HVR 3100 - 16	3100	16	10	0.5 - 2.5	9 - 16	14	42	30	1,1	1000	110	500	0.05 - 1.9	2	3760	350	500	3240	900	2340	5210	2700	2450	16500
CNC HVR 3100 - 20	3100	20	13	0.5 - 2.5	7 - 13	14	54	37	1,1	1000	110	500	0.05 - 2.3	2	3800	350	500	3240	900	2355	5220	2700	2550	18900
CNC HVR 3100 - 25	3100	25	15	0.5 - 2.5	6 - 10	20	76	45	1,1	1000	110	800	0.05 - 3.0	2	3880	350	500	3240	1000	2430	5250	2725	2900	27600
CNC HVR 3100 - 30	3100	30	18	0.5 - 3	4 - 7	20	100	45	1,5	1000	110	800	0.05 - 4	2	3835	350	500	3760	1100	2750	5560	2750	3280	43000
CNC HVR 3100 - 35	3100	35	20	0.5 - 3	4 - 7	20	125	55	2,2	1000	110	800	0.05 - 4.5	2	4000	350	500	3850	1150	2900	5725	2900	3600	55000
CNC HVR 3100 - 40	3100	40	25	0.5 - 3	2 - 4	20	150	75	2,2	1000	110	1000	0.05 - 5.5	2	4030	350	500	4180	1150	3030	6070	3030	4360	79000
CNC HVR 4100 - 6	4100	6	4	0.5 - 1.5	14 - 22	18	15	11	0,75	1000	110	150	0.05 - 0.8	3	4500	350	500	2900	950	2200	6000	2315	2320	10450
CNC HVR 4100 - 10	4100	10	6	0.5 - 2	10 - 17	18	28	22	1,1	1000	110	260	0.05 - 1.3	3	4640	350	500	3150	1000	2270	6100	2580	2460	15100
CNC HVR 4100 - 13	4100	13	8	0.5 - 2	9 - 15	18	40	22	1,1	1000	110	310	0.05 - 1.5	3	4680	350	500	3240	1000	2325	6120	2700	2600	18450
CNC HVR 4100 - 16	4100	16	10	0.5 - 2.5	7 - 13	18	52	30	1,1	1000	110	500	0.05 - 1.9	3	4760	350	500	3240	1000	2340	6220	2700	2700	23200
CNC HVR 4100 - 20	4100	20	13	0.5 - 2.5	6 - 11	18	67	37	1,1	1000	110	500	0.05 - 2.3	3	4800	350	500	3270	1000	2355	6220	2700	2700	26700
CNC HVR 4100 - 25	4100	25	15	0.5 - 2.5	5 - 9	25	88	45	1,1	1000	110	800	0.05 - 3.0	3	4880	350	500	3240	1100	2440	6500	2725	3235	37700
CNC HVR 4100 - 30	4100	30	18	0.5 - 3	3 - 5	25	120	45	1,5	1000	110	800	0.05 - 4	3	4920	350	500	3450	1150	2700	7000	2700	3500	59000
CNC HVR 4100 - 35	4100	35	20	0.5 - 3	3 - 5	25	145	55	2,2	1000	110	800	0.05 - 4.5	3	5050	350	500	3450	1150	2800	6450	2800	3600	76000
CNC HVR 4100 - 40	4100	40	25	0.5 - 3	2,5 - 4	25	170	75	2,2	1000	110	1000	0.05 - 5.5	3	5200	350	500	3500	1250	2800	6600	3200	4360	104000
CNC HVR 6100 - 6	6100	6	4	0.5 - 1.5	9 - 15	26	20	22	1,1	1000	110	260	0.05 - 0.8	5	6660	350	500	3175	1000	2285	8250	2475	2725	26415
CNC HVR 6100 - 10	6100	10	6	0.5 - 2	8 - 13	26	44	22	1,1	1000	110	260	0.05 - 1.3	5	6680	350	500	3150	1100	2285	8265	2575	2725	28800
CNC HVR 6100 - 13	6100	13	8	0.5 - 2	6 - 11	26	60	22	1,1	1000	110	310	0.05 - 1.5	5	6720	350	500	3050	1100	2330	8365	2635	2825	33300
CNC HVR 6100 - 16	6100	16	10	0.5 - 2.5	5 - 9	26	76	30	1,1	1000	110	500	0.05 - 1.9	5	6820	350	500	3240	1100	2350	8400	2700	2995	41100
CNC HVR 6100 - 20	6100	20	13	0.5 - 2.5	4 - 7	26	96	37	1,1	1000	110	500	0.05 - 2.3	5	6940	350	500	3210	1100	2375	8415	2730	3120	50600
CNC HVR 6100 - 25	6100	25	15	0.5 - 2.5	3 - 5	36	123	45	1,1	1000	110	800	0.05 - 3.0	5	7020	350	500	3185	1200	2480	8570	2730	3390	68500
CNC HVR 6100 - 30	6100	30	18	0.5 - 3	2 - 3	36	160	45	1,5	1000	110	800	0.05 - 4	5	6915	350	500	3500	1200	2700	9000	2700	3800	88000
CNC HVR 6100 - 35	6100	35	20	0.5 - 3	2 - 3	36	180	55	2,2	1000	110	800	0.05 - 4.5	5	7150	350	500	3550	1200	2800	8700	3950	4075	112000
CNC HVR 6100 - 40	6100	40	25	0.5 - 3	1 - 2	36	210	75	2,2	1000	110	1000	0.05 - 5.5	5	7030	350	500	4120	1250	3790	9550	3790	5820	156200



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