

ERMAK

SHEET METAL WORKING MACHINERY

Since 1965

HGD SERIES

HYDRAULIC SWING BEAM SHEAR



GENERAL SPECIFICATION

Erma's HGD series shears are designed superiorly for sheets 10 - 20mm with high quality material and workmanship and produced to be used several years in heavy duty without any problem.

Strong monoblock steel weld construction frame retains its rigidity even working in maximum capacity, thus helps to provide a good quality and clean cut. High quality tough top and bottom blades imported from Germany also helps to have good quality cut and provides an easy cut for the machine as well. Small cutting angle decreases twisting to minimum value in narrow sheet cutting.

ANGLE GAUGE



THROAT



With the help of 350 mm throat depth on standard models, it's possible to cut longer sheets than the standard cutting length, thus avoiding extra workmanship costs due to the longer sheets. Throat depth can be designed up to 500 mm upon request.

LASER CUTTING LINE



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



HGD 3113

COLLAPSIBLE FRONT COVER



Blade gap, stroke adjustment and backgauge position is automatically adjusted from the operator panel Cybelec DNC 61 G Cut according to the material, thickness, length (Optional)

PNEUMATIC SYSTEM



Pneumatic sheet support system that provides the user an easy method of working, is an optional function to protect hanging of sheets down and to improve cutting precision during cutting of long and thin sheets.



DNC 60 G

(OPTIONAL)

Cybelec DNC 61G Cut Technical Features for New ERMAK CNC HGD Shears

Automatic calculations of automatic blade gap and stroke depth with hydraulic system and Linear precision potentiometer feedback according to programmed Material and Thickness, Length

User Friendly Easy operation Software, 5 pre-programmed material Type Stroke Depth management by frequency distortion or potentiometer, Automatic backgauge re-adjustment according to the blade gap, Sequence repeat, Sub programs and chain-programming, Multi-processor designed using ASIC and SMD. This provides full integration and high safety, Keyboards with ergonomic buttons, 75x130 mm Black-White LCD graphic screen (Visible area) 240 x128 pixel automatic contrast adjustment, Internal SRAM Memory, Flash Memory, updating with RS232 as an optional 2 X Rs232 port optional, High Speed 250 KHz N2X axis with PID regulator and programmable resolution, Inch/mm, Ton /Tons Conversion, 999 Programs Memory number, Different Criteria search programs (Thickness), Alpha Numerical programs code, Working Time Calculations, DNC to PC RS232 connections with CYBACK software, Safety and Interactive Message, Corrections Page, Optional X1,X2 angular gauge, Easy Cut Page, Fly Cut operation modes (Serial Continuous Cutting Method)



ELGO P9521 (STANDARD)

- Manual operation mode
- Single operation mode
- Ability to make cutting program
- Inch/mm conversion
- 99 step program
- Parametric adjustments

STANDARD EQUIPMENTS

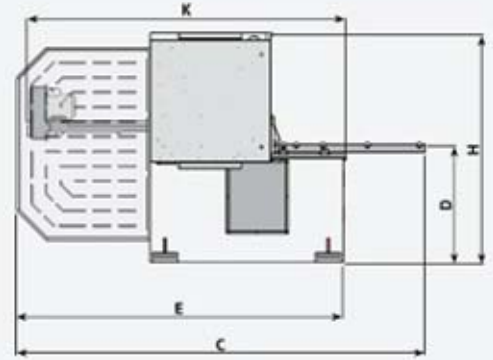
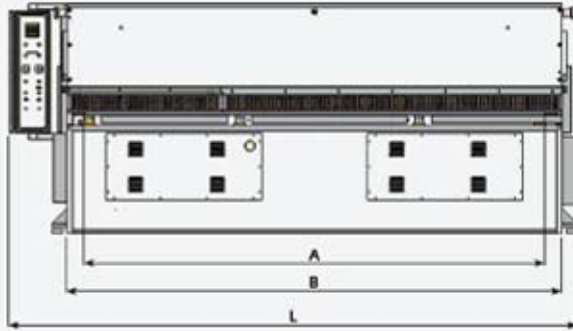
- Mono block, welded steel frame rigid to deflection moment and high tensile with ST44 A1 material.
- ELGO 9521 NC controller,
- One-piece honed and chrome plated double acting powerful cylinders,
- High quality top and bottom blades,
Bottom : 4
Top : 2 cutting sides.
- Easily adjustable blade gap adjustment system from single point,
- Bosch – Rexroth hydraulic system,
- High pressurized silent Atos pump,
- Fast and powerful back gauge with 1000mm distance , moving by ballscrewed shafts , with automatic swing away feature,
- Avoiding sheet sliding during cutting action, powerful hold downs with maximum performance,
- Cutting length adjustment allowing stroke adjustment for shorter sheets and shorten the cutting time,
- Roller bearings on the table to help placing sheets to machine easily,
- Front support arms with ruler and flip-stop,
- Foot pedal available for single or continuous cutting,
- Cutting line illumination,
- Sick backside protections

OPTIONAL EQUIPMENTS

- ERMAK **CNC HGD** Automatic Blade GAP and Automatic Target Stroke adjustment according to material, thickness and length by Cybelec DNC61G cut
- Pneumatic sheet support system,
- Pneumatic sheet unloading system,
- Automatic stacking system,
- Laser cutting line,
- Finger protective light curtain,
- Oil coolant,
- Longer front arms or squaring arm,
- Angular gauge.



TECHNICAL DIMENSIONS



All specs are subject to change without notice

TYPES

	CUTTING LENGTH	CUTTING CAPACITY		CUTTING ANGLE	STROKE	STROKE PER MINUTE	NUMBER OF HOLD DOWNS	PRESSURE	MAIN MOTOR	BACKGAUGE MOTOR	BACKGAUGE TRAVEL	BACKGAUGE SPEED	OIL CAPACITY	BLADE GAP ADJUSTMENT (min-max)	NUMBER OF SHEET SUPPORT ARMS	TABLE LENGTH	THROAT DEPTH	MACHINE WIDTH	TABLE HEIGHT	WIDTH	TRANSPORT WIDTH	HEIGHT	LENGTH	WEIGHT
		(45 kg/mm ²)	(70 kg/mm ²)																					
	A	B	C	(°)	mm	1/min	Amount	ton	kw	kw	mm	mm/sec	LT	mm	Amount	B	C	D	E	K	F	H	L	kg
HGD 3100 - 6	3100	6	4	1.5	175	16	14	12	11	0.75	1000	110	150	0,05-0,8	2	3440	350	2900	900	2315	2200	2100	3860	7800
HGD 3100 - 8	3100	8	5	1.5	180	14	14	24	18,5	0.75	1000	110	200	0,05-1,0	2	3460	350	2970	900	2430	2200	2125	3880	9000
HGD 3100 -10	3100	10	6	2	205	13	14	24	22	0.75	1000	110	260	0,05-1,3	2	3480	350	3075	900	2500	2220	2175	3950	10750
HGD 3100 -13	3100	13	8	2	210	11	14	31	22	0.75	1000	110	310	0,05-1,5	2	3530	350	3150	900	2625	2260	2235	3960	12400
HGD 3100 -16	3100	16	10	2.5	190	10	14	42	30	1.1	1000	110	500	0,05-1,9	2	3620	350	3150	900	2625	2260	2450	4050	18500
HGD 3100 -20	3100	20	13	2.5	205	8	14	54	37	1.1	1000	110	500	0,05-2,3	2	3690	350	3250	900	2700	2300	2500	4150	22000
HGD 4100 - 6	4100	6	4	1.5	240	14	18	15	11	0.75	1000	110	150	0,05-0,8	3	4440	350	2900	950	2315	2225	2150	4860	11000
HGD 4100 - 8	4100	8	5	1.5	250	11	18	28	18,5	0.75	1000	110	200	0,05-1,0	3	4460	350	2970	950	2430	2225	2175	4880	12000
HGD 4100 -10	4100	10	6	2	255	10	18	28	22	0.75	1000	110	260	0,05-1,5	3	4480	350	3125	1000	2525	2220	2275	4950	14450
HGD 4100 -13	4100	13	8	2	260	9	18	40	22	0.75	1000	110	310	0,05-1,5	3	4530	350	3225	1000	2625	2275	2335	5000	16900
HGD 4100 -16	4100	16	10	2.5	315	8	18	52	30	1.1	1000	110	500	0,05-1,9	3	4620	350	3150	1000	2650	2290	2575	5150	24500
HGD 4100 -20	4100	20	13	2.5	325	7	18	67	37	1.1	1000	110	500	0,05-2,3	3	4690	350	3250	1000	2700	2300	2600	5250	27750
HGD 6100 - 6	6100	6	4	1.5	9	26	20	18,5	1.1	1000	110	260	0,05-0,8	5	6500	350	3080	1000	2650	2300	2600	6900	24000	
HGD 6100 - 8	6100	8	5	1.5	8	26	44	22	1.1	1000	110	260	0,05-1,0	5	6515	350	3100	1000	2670	2300	2650	7000	26000	
HGD 6100 -10	6100	10	6	2	8	26	44	22	1.1	1000	110	260	0,05-1,3	5	6540	350	3150	1100	2720	2300	2725	7100	27650	
HGD 6100 -13	6100	13	8	2	7	26	60	22	1.1	1000	110	310	0,05-1,5	5	6600	350	3170	1100	2740	2300	2800	7250	31000	

Consult to our company for special dimension and capacity applied machines.



ERMAKSAN MACHINERY