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CNC HGD

Hydraulic Swing Beam Shear



CNC SHEAR MODEL HGD

Your partner for presentation of the needs

CNC HGD SERIES Hydraulic Swing Beam Shear

ERMAKSAN, known as one of the world's top manufacturers in the sheet metal industry, proudly announces its latest shear model to the market, Hydraulic Swing Beam Shear "HGD".

ERMAKSAN, HGD Series shears are designed superiorly for sheets 6-20 mm with high quality material and workmanship and produced to be used for many years in heavy duty conditions without problems.

Strong monoblock steel weld construction frame retains its rigidity even when working to maximum capacity, thus provides a good quality and clean cut.

Impressive cutting solutions



Cybtouch 6.
Designed for easy operation that allows comfortable working with high-resolution color touch screen.

Impressive cutting solutions;

Highly durable upper and bottom blades create impressive cutting surfaces on the materials and allow you to make perfect cuts.

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.

Cutting is so easy now



Standard Equipment

- Hardened blades.
 - Top blades : 2 sides
 - Bottom blades : 4 sides
- CYBELEC CYBTOUCH 6 controller.
- 350 mm throat depth.
- 1000 mm motorized backgauge system with 0,1 mm accuracy.
- 1000 mm side gauge and front support arms.
- Metric and inch rulers.
- Front, side and back safety panels which are suitable for CE norms.
- Sheet sliding system.
- SIEMENS electrical system.
- Hoerbiger hydraulic system.
- Holder springs.
- Moveable foot pedal.
- Automatic hydraulic blade gap adjustment.
- Emergency stop button.

Optional Equipment

- Optional throat depth.
- Front angle gauge.
- Side gauge and front support arms in optional lengths.
- Sheet conveyor and stacking system.
- Front Gauge X1, X2 axis and backgauge X3, X4 axis.
- Optional backgauge stroke.
- Sheet support system for thin sheets.
 - 1- Pneumatic support system. (Lever type)
 - 2- Pneumatic support system. (Monobloc panel type)
- Moveable controller panel, multi functional CNC control unit.
 - 1- CYBELEC DNC 61G
- Hydraulic oil cooling and heating system.
- Optional solid table.
- Stainless steel blades.
- Ability to increase stroke amount per minute.
- Light safety system for finger protection.
- Optional alternative colors.
- Coolant system or heater can be placed in electric panel during ambient conditions.
- Double foot pedal.
- Electrical panel or controller can be placed on right side of the machine.
- Laser cutting line.
- Central lubrication system.



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.

SICK M 2000 light barrier.
Fast and secure protection at all time compatible with CE standards.

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General features (Cybtouch 6, standard)

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 pup-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.

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

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

Under your control

General features (Cybelec DNC61G, option)

User - friendly:

- Ergonomic design.
- Rapid data input with the ergonomic keyboard with large keys.
- Easy set up and use that meets operator's needs.
- Programmed material types.
- Monochrome 130 x 75mm LCD Box Panel.

Improved features:

- Blade gap, cutting angle and cutting length adjusted based on material selection and thickness automatically.
- Different language selections.
- Highly protected micro processor.
- Data recording with internal SRAM memory.
- Updateable with flash memory (optionally with RS 232).
- EASYCUT page.
- Numerically programmable axis data.
- 16 input and output ports (24-32 options).
- mm/inch conversion.

Better cuttings:

- Backgauge adjustment according to blade gap.
- Backgauge retraction feature.
- Sub-program and programming loop.
- Sequence repeat function.
- Auto cutting (Flying cut).



CYBELEC
DNC61G

Equipment

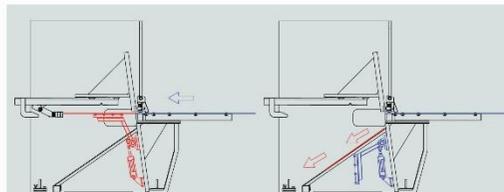
Equipment



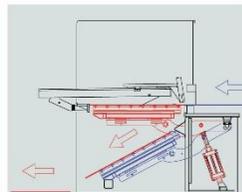
Lever type pneumatic sheet support system (optional)
Avoids hanging down the wide and thin sheets via pneumatic arms support and provides more precise cuts.



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



Pneumatic support system working principle. (Lever type)



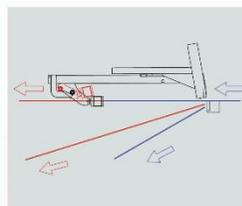
Pneumatic support system working principle. (Monobloc panel type)



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



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



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



Light curtains for finger protection. (option)
Designed to enable easy and quick material handling with high-protection.



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



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



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. (option)
This device provides accurate and easy material handling in the angled cuttings.



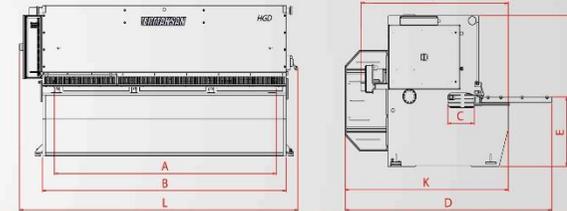
Collapsible finger protection. (standard)
In order to control angled cuttings and drawn lines front part of protection can be pulled up by operator. (Switch protected)

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Technical Features



| TYPES | 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 ARMS | TABLE LENGTH | THROAT DEPTH | MACHINE WIDTH | TABLE HEIGHT | WIDTH | TRANSPORT WIDTH | HEIGHT | LENGTH | WEIGHT |
|-------------------|----------------|--|--|---------------|-------------------|----------------------|----------|------------|------------------|-------------------|------------------|--------------|----------------------|------------------------------|--------------|--------------|---------------|--------------|-------|-----------------|--------|--------|--------|
| | A | | | | | | | | | | | | | | B | C | D | E | K | F | H | L | |
| | mm | mm | mm | (°) | 1/min. | Amount | ton | kW | kW | mm | mm/s | lt. | mm | Amount | mm | mm | mm | mm | mm | mm | mm | mm | kg |
| CNC HGD 3100 - 6 | 3100 | 6 | 4 | 1.5 | 16 | 14 | 12 | 11 | 0.75 | 1000 | 110 | 150 | 0,05-0,8 | 2 | 3430 | 350 | 2900 | 900 | 2315 | 2100 | 2100 | 3925 | 7000 |
| CNC HGD 3100 - 8 | 3100 | 8 | 5 | 1.5 | 14 | 14 | 24 | 18,5 | 0.75 | 1000 | 110 | 250 | 0,05-1,0 | 2 | 3480 | 350 | 2970 | 900 | 2430 | 2150 | 2125 | 4000 | 9000 |
| CNC HGD 3100 - 10 | 3100 | 10 | 6 | 2 | 13 | 14 | 24 | 22 | 0.75 | 1000 | 110 | 260 | 0,05-1,3 | 2 | 3480 | 350 | 3075 | 900 | 2500 | 2270 | 2175 | 4050 | 9400 |
| CNC HGD 3100 - 13 | 3100 | 13 | 8 | 2 | 11 | 14 | 31 | 22 | 0.75 | 1000 | 110 | 310 | 0,05-1,5 | 2 | 3530 | 350 | 3150 | 900 | 2625 | 2325 | 2235 | 4100 | 12000 |
| CNC HGD 3100 - 16 | 3100 | 16 | 10 | 2.5 | 10 | 14 | 42 | 30 | 1.1 | 1000 | 110 | 500 | 0,05-1,9 | 2 | 3620 | 350 | 3150 | 900 | 2625 | 2360 | 2450 | 4150 | 16100 |
| CNC HGD 3100 - 20 | 3100 | 20 | 13 | 2.5 | 8 | 14 | 54 | 37 | 1.1 | 1000 | 110 | 500 | 0,05-2,3 | 2 | 3690 | 350 | 3250 | 900 | 2700 | 2380 | 2500 | 4350 | 22300 |
| CNC HGD 4100 - 6 | 4100 | 6 | 4 | 1.5 | 14 | 18 | 15 | 11 | 0.75 | 1000 | 110 | 150 | 0,05-0,8 | 3 | 4430 | 350 | 2900 | 950 | 2315 | 2100 | 2150 | 4900 | 9500 |
| CNC HGD 4100 - 8 | 4100 | 8 | 5 | 1.5 | 12 | 18 | 28 | 18,5 | 0.75 | 1000 | 110 | 250 | 0,05-1,0 | 3 | 4480 | 350 | 2960 | 950 | 2430 | 2150 | 2175 | 5000 | 11850 |
| CNC HGD 4100 - 10 | 4100 | 10 | 6 | 2 | 10 | 18 | 28 | 22 | 0.75 | 1000 | 110 | 260 | 0,05-1,5 | 3 | 4480 | 350 | 3125 | 1000 | 2570 | 2275 | 2275 | 5050 | 13150 |
| CNC HGD 4100 - 13 | 4100 | 13 | 8 | 2 | 9 | 18 | 40 | 22 | 0.75 | 1000 | 110 | 310 | 0,05-1,5 | 3 | 4530 | 350 | 3130 | 1000 | 2670 | 2350 | 2335 | 5100 | 16000 |
| CNC HGD 4100 - 16 | 4100 | 16 | 10 | 2.5 | 8 | 18 | 52 | 30 | 1.1 | 1000 | 110 | 500 | 0,05-1,9 | 3 | 4620 | 350 | 3150 | 1000 | 2610 | 2360 | 2575 | 5200 | 24500 |
| CNC HGD 4100 - 20 | 4100 | 20 | 13 | 2.5 | 7 | 18 | 67 | 37 | 1.1 | 1000 | 110 | 500 | 0,05-2,3 | 3 | 4690 | 350 | 3200 | 1000 | 2670 | 2380 | 2600 | 5250 | 27750 |

Ermaksan reserves the right to make changes on technical specs without prior notice.

Shear Series

ERMAKSAN proven experience in the world since 1965 by using high-tech manufacturing technologies CNC HVR, HGD and HGS models are brought the sheet metal working market.

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.

Your needs are met with different options by fast, flexible and the most appropriate way.



CNC HVR SERIES
Variable Rate Hydraulic Guillotine Shear



CNC HGD SERIES
Hydraulic Swing Beam Shear



CNC HGS SERIES
Hydraulic Swing Beam Shear

For information on the other products, visit us at www.ermaksan.com.tr