

MGH · HYDRAULIC SWING-BEAM SHEARS

Maximum robustness. Rapid blade gap adjustment mechanism.

01

Robust

Thanks to its long-life structure, it provides dynamic and extremely sensitive productivity

02

Flexibility

MGH gives flexibility to its user with thin and thick sheet metal material cutting choices





03

Easy to Operate

MGH is designed to provide operating possibility even in the most difficult conditions

04

Productivity

MGH gives high productivity, high sensitivity and affective production cost to your production



Swing Beam



**1000mm
Back Gauge**



**Up to
4100mm**



**Up to 20 mm
(MS)**





MGH · HYDRAULIC SWING-BEAM SHEARS

DESIGN AND OPERATING FEATURES

- Welded all-steel frame providing maximum rigidity and cutting accuracy.
- Swinging top beam working on high precision and self-aligning roller bearings.
- Rapid blade gap adjustment mechanism.
- Swing-up backgauge system for shearing longer pieces than maximum backgauge range.
- Backgauge retract function.
- Compact, low-maintenance hydraulic unit located above oil tank.
- Easily servicable hydraulic cylinders in series connection.
- Hydraulic holddown system.
- Hydraulic overload protection.
- Fine adjustment of blades from lower beam.
- Adjustable stroke length to increase number of strokes on shorter cuts.
- Extra deep (250 mm) side frame throat gaps allowing continuous strip slitting.

STANDART EQUIPMENT

- Shear blades made from tough and wear-resistant alloyed material
 - Top blade : two cutting edges
 - Bottom blade : four cutting edges.
- 1000 mm power backgauge with ballscrew spindles to 0.1 mm precision.
- Backgauge digital readout control.
- Digital stroke counter.
- Foot pedal control for single and repetitive cutting cycles.
- 1000 mm squaring arm with scale, T-slot and flip-stop.
- Front support arms in 1000 mm length.
- Work table with filler plates, ball transfers and hand slots.
- Emergency stop buttons.
- Shadow line facility with fluorescent lighting.
- See-through finger guard and side throat guards.



PRECISION

Hydraulic holddown system.



HYDRAULIC SYSTEM

Compact, low-maintenance hydraulic unit

Baykal

CYBELEC CYBTOUCH

**Standard for
MGH and HGL**

Cybelec CybTouch control unit is specifically designed for sheet-metal cutting, particularly for swing beam shears.

With its vivid color touch screen and a high integration of functions, it was designed so that anybody could start using it right away.



CONTROL UNIT

Baykal

ESA 625

Optional for MGH and HGL

Compact design control unit with 7" touch screen, easy learning interface, and the possibility of storing thousands of part programs brings efficiency for your applications. It is now available for HGL and MGH as an option





MOTORIZED FRONT FEEDING SYSTEM (OPTIONAL)

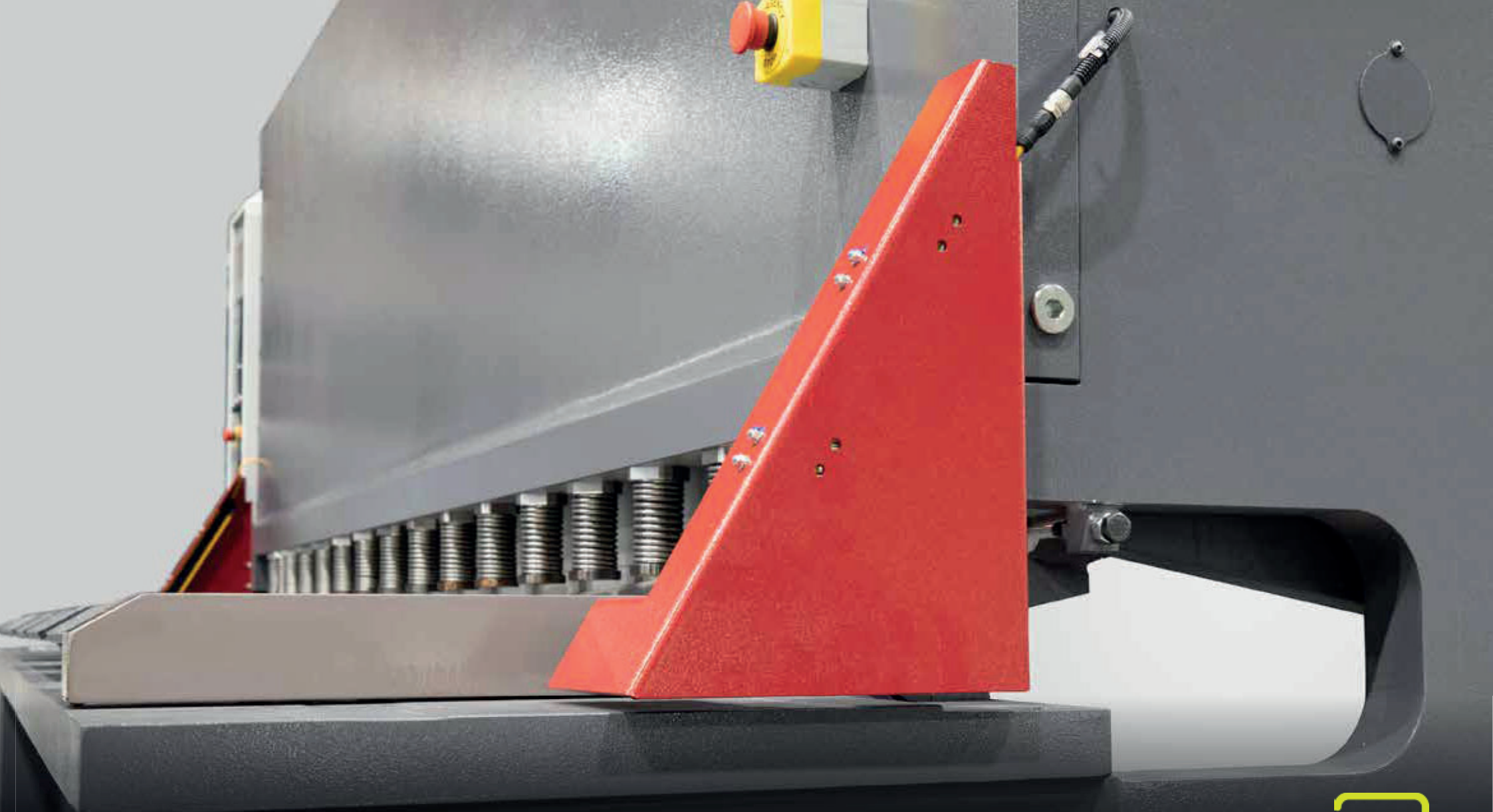


SCRAP SEPARATOR AND CONVEYOR SYSTEM (OPTIONAL)



SQUARING AND FRONT ARMS

1000mm Squaring arm with T-Slot, Scale and Flip Stop for HNC, MGH and HGL. Front support arm with T-Slot, Scale and Flip Stop is standard for HNC and optional for MGH and HGL.



THROAT GAP

**350mm standard for HNC, 250mm standard for MGH,
500mm optional for HNC and MGH**

FRONT & REAR SAFETY



FIXED FINGER GUARD

Standard for HNC, MGH and HGL



FINGER GUARD WITH LIGHT BARRIER

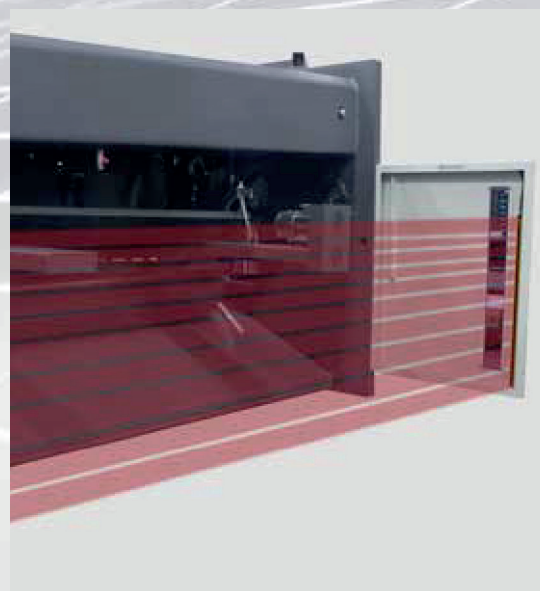
Optional for HNC, MGH and HGL



1000MM LIFT-UP FRONT FINGER GUARD

with electrically interlocked safety switch

Optional for HNC, MGH and HGL



REAR LIGHT BARRIER

BACKGAUGE



MOTORIZED SWING-UP BACKGAUGE

L=750mm
(Standard for HGL)
L=1000mm
(Standard for MGH)
(Optional for HGL)



MECHANICAL SWING-UP BACKGAUGE

L=1000 mm
(Standard for HNC)
(Optional for HNC 3000mm and 4000mm)



HYDRAULIC SWING-UP BACKGAUGE

L=1000mm
(Optional for HNC)

D TYPE HEAVY DUTY PNEUMATIC SHEET SUPPORT SYSTEM



Option for Guillotine Shears (HNC,MGH)
between 13mm to 20mm (MS)

Pneumatic sheet support consists of roller support arms mounted on a shaft. These support arms are 900 mm in length starting from the lower blade. The support arms, which are moved by the pneumatic cylinder, are in the upper position before cutting and they prevent the sheet to be cut from sagging. When the cutting is started, the support arms move downwards and since the support arms are jointly connected, they are constantly in contact with the cut sheet. At the end of the cut, the support arms, which become parallel with the ramp sheets, allow the cut sheet to slide more easily and fall behind the machine. Pneumatic sheet support system is completely controlled from the control panel. Pneumatic sheet support system is activated or deactivated with the On-Of control button.

PNEUMATIC SHEET SUPPORT (OPTIONAL)

A TYPE PNEUMATIC SHEET SUPPORT SYSTEM



Option for Guillotine Shears (HNC, MGH and HGL) until cutting capacity 13mm (MS)

Pneumatic sheet support consists of roller support arms mounted on a shaft. These support arms start 200mm from the lower blade and their length is 300 mm. The support arms, which are moved by the pneumatic cylinder, are in the upper position before cutting and they prevent the sheet to be cut from sagging. When cutting is started, the support arms move down. At the end of the cut, the support arms, which become parallel with the ramp sheets, allow the cut sheet to slide more easily and fall behind the machine. Pneumatic does not support parts smaller than 200mm. Pneumatic sheet support system is completely controlled from the control panel. Pneumatic sheet support system is activated or deactivated with the On-Of control button.

PNEUMATIC SHEET SUPPORT (OPTIONAL)

U TYPE UNIVERSAL PNEUMATIC SHEET SUPPORT SYSTEM



- With Transfer Balls
- With Brushes
- With Roller

Option for Guillotine Shears (HNC, MGH and HGL) until cutting capacity 13mm (MS)

U type Pneumatic sheet support system has two operating modes:

1st mode - It is used in thin sheet metal cutting to prevent sagging of the sheets and to be cut in precise dimensions. Pneumatic sheet support system works in 2 stages. In sheet metal cutting (while the upper jaw moves down) Pneumatic sheet support shifts from idle position to top position. After the cut is finished (while the upper jaw moves up), the pneumatic sheet support moves downward and allows the cut sheet to slide down. Cutting strip narrower than 35 mm is not recommended in this mode.

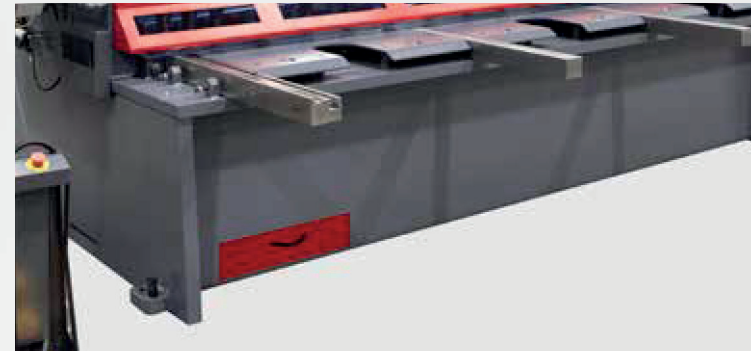
2. Mode - In this mode, the Pneumatic sheet support switches from idle position to top position, and after the cutting is finished, it switches back to first position. In this case, the cut sheet remains on the pneumatic support and by moving the back gauge forward, it is possible to take the cut sheet from the front. It is recommended that the cut length of the cut sheet should be up to 500 and the width should be min 50 mm. For longer lengths, when the cut sheet is on the pneumatic sheet support, the sheet cut at first position should not hang between the pneumatic support arms, otherwise it may rest on the lower blade while pushing it forward.

OPTIONS



ANTI TWIST SYSTEM **OPTIONAL FOR HNC**

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.



DRAWER FOR SMALL PIECES

Enable to take small cut parts from the front easily.

Optional for HNC, MGH, HGL



LASER CUTTING LINE

Enable to see clearly the cutting point

Optional for HNC, MGH, HGL



SHADOW LINE

Standard for MGH, HNC, HGL



ANGLE GAUGE

Optional for HNC , MGH and HGL

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



RTS FUNCTION

Standard for U type pneumatic sheet support system

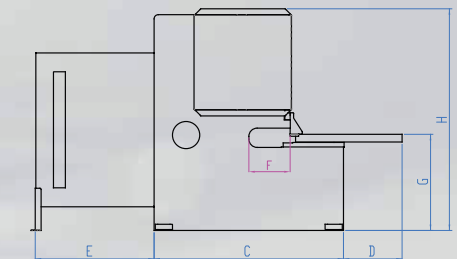
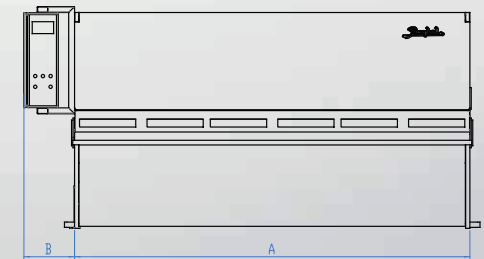
Precisely cut plate via the assistance of U type pneumatic sheet support system at the rear is being returned to the front of the machine by this system.

MGH

• HYDRAULIC SWING-BEAM SHEARS

TECHNICAL DATA

TYPES	Capacity		Cutting Length	Rake Angle	Motor Power	Number of Holddowns	Strokes Per Minute	Capacity of Oil Tank	Backgauge Range	Backgauge Motor	Approx. Weight	A	B	C	D	E	F	G	H
	≤450 N/mm ²	≤700 N/mm ²																	
	mm	mm																	
MGH 3106	6	4	3060	1.5°	11	17	8	170	1000	0.37	7000	3340	430	1600	500	1000	250	800	1825
MGH 3110	10	6	3060	2.0°	22	17	12	170	1000	0.37	9200	3420	430	1775	500	1000	250	800	1850
MGH 3113	13	8	3060	2.4°	30	17	12	220	1000	0.37	11500	3450	430	1985	500	1000	250	900	2060
MGH 3116	16	10	3060	2.7°	30	17	7	220	1000	0.37	15500	3410	430	2150	400	1000	250	900	2230
MGH 3120	20	13	3060	3.0°	37	18	7	280	1000	0.37	19600	3470	430	2140	400	1000	250	900	2440
MGH 4110	10	6	4060	2.0°	22	23	10	170	1000	0.37	13000	4370	430	1975	400	1000	250	800	1910
MGH 4113	13	8	4060	2.2°	30	23	8	220	1000	0.37	16100	4400	430	1975	400	1000	250	900	2160



Design and specifications are subject to change without notice