

# 300x320 GH-LR

## Technical data



- Gravitational band saw machine.
- Working movement of the arm is caused by the weight of the arm itself, speed is regulated by a hydraulic cylinder.
- The machine is designed for cutting of material in vertical and angle cuts, angle cuts are possible to set fluently from 0 to 60 grades to the right and from 0 to 45 grades to the left. Change of angle using quick clamping handle.
- It is suitable for piece production and small series production.
- Thanks to its robust construction it enables cutting of wide range of materials including stainless steels and tool steels as well as profiles and full materials.

### Construction:

- The machine is constructionally designed in that way, so that it corresponds to standard exertions in productive conditions. That is why all carrying parts are made as cast-iron castings (solidity, absorption of vibrations and stops). Parts of arm, vice and turn table is cast iron.
- The arm of the machine is made of cast iron and it is designed to ensure the power and the precision of the cut. Arm is 25 degrees sloped, it increases the lifetime of blade.
- Down working positions of the arm are controlled by the cam and microswitches. The arm stops automatically after reaching the down position. The arm is lifted by the operator manually.
- The vice is made from cast iron. Jaws ensure safe clamping of the material.
- The manually operating vice is placed in an adjustable dovetail groove.
- Moving jaw of the vice is manual with a wheel and trapeze thread. Speedy jaw adjustment is achieved by means of a lever, spring and trapeze half-nut.
- Basic part of the vice moves according to the direction of the angle cut setting, fixation is made by the handle.
- Turn table is cast iron. A turntable gives a big place for support of material and its perfect clamping.
- Manual turning of the table for angle cuts, angle fixation using handle. The turning table has autoarresting every 15 degrees (the groove with the spring).
- General angles are adjusted by the nonius.

### Basic equipment of the machine:

- The blade leading in guides with hardmetal plates and leading bearings and along cast iron pulleys.
- There is a guide situated on the firm beam on the drive side. On the tightening side there is the guide situated on the moving beam.
- The guide beams of moving band guide is adjustable. Manual adjustment and fixing of the guide beams.
- The beam of the guide is moving in sliding leading.
- The saw-band is equipped with a guard, which protects the operator from millings and cutting emulsion.
- Mechanic tightening of the blade.
- Automatic indication of blade tension.
- A passive driven cleaning brush for perfect cleaning and function of blade.
- Drive of machine is solved by worm gear box with permanent oil filling. Three phase engine with double winding, two cutting speeds. Thermal protection of engine.
- The cooling system distributes cutting emulsion to the band guides.
- Base with a tank for chips.
- Indication of blade tightening and opening of the cover.
- Controlling 24 V.

### Basic accessories of machine:

- Measuring end stop.
- Band saw blade.
- Set of spanners for common service.
- Manual instructions in electronic form (CD).

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### Operating cycle:

Manually controlled quick clamping vice, cut is regulated by a hydraulic damper and a restrictor choke valve. operator cutting speed. After finishing the cut machine will stop itself automatically and an operator lifts the arm manually to the start position. Feeding of material is manually.

Cutting parameters					
	300	300	200	270	X
	180*	110*	80*	110*	X
	320x290	300x280	190x200	270x200	320x160

\* Recommended values. Recommendations of band blade producers are to be followed when choosing to cut full material, their dimensions are limited by available size of the teeth for the specific type of the band.

- Cutting of the bundle without upper vice HP. HP = accessory for additional price. The cutting parameters are limited when using.

Cutting parameters		
the shortest cutting	3	mm
the smallest divisible diameter	5	mm
the shortest rest during one cut	30	mm

Performance parameters		
drive of the blade	kW	1,3/1,8
pump of the cooling emulsion	kW	0,09
total input	kW	2
cutting speed	m/min	35/70
diameter of the blade	mm	3660x27x0,9
electric connection		3x400V, 50 Hz, TN-S

Working movements	
feed of the Frame to the cut	by its own weight, the speed is regulated by a by-passing valve and hydraulic cylinder
feed of the material	manually
clamping of material	manually
bend tension	manually
cleaning of the blade	passive cleaning brush

Saw dimensions					
Lenght	Width	Height		Height of the table	Weight
[L]	[B]	[Hmin]	[Hmax]	[V]	(kg)
2050	1170	1480	2180	800	605

