

150x20 GHE-R

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 45 grades to the right. 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 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 grades sloped, it increases the lifetime of blade.
- The vice is made from cast iron. Jaws ensure safe clamping of the material.
- The manually operating vice is situated in an adjustable dovetail groove and is equipped with a quick clamping.
- Moving jaw of the vice is manual with a wheel and trapeze thread.
- 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 quick clamping lever.
- General angles are adjusted by the nonius.

Basic equipment of machine:

- Leading of blade in hard-metal plates.
- 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 in whole working range. Manual adjustment and fixing of the guide beams.
- Guide holder moves in adjustable dovetail roof.
- The saw-band is equipped with a guard, which protects the operator from millings and cutting emulsion.
- Mechanic tightening of the blade.
- Drive of machine is solved by worm gear box with permanent oil filling. Three phase engine with double winding, two cutting speeds. Thermoprotection of engine.
- The cooling system distributes cutting emulsion to the band guides.
- Base with a tank for chips.
- Indication 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).

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

		0°	45°	60°	a b
	D [mm]	150	110	X	X
	D [mm]	100*	70*	X	X
	axb [mm]	170x140	110x120	X	170x75

*recommended values

the shortest cutting	3	mm
the smallest divisible diameter	5	mm
the shortest rest durring one cut	30	mm

performance parameters

drive of the blade	kW	0,6/0,8
pump of the cooling emulsion	kW	0,05
total input	kW	1,06
cutting speed – fluently set	m/min	40/75
diameter of the blade	mm	2060x20x0,9
electric connection		3x400V, 50 Hz, TN-S

control

feed of the Frame to the cut	manually
feed of the material	manually
clamping of material	manual vice with quickclamping mechanism
band tension	manually
cleaning of the blade	-

Length	Width	Height max	Height of the table	Weight	
[L]	[B]	[Hmax]	[V]	(kg)	
1100	600	1750	950	160	