

Latest Innovation of ARNOLD  
**Band saw 72/375 for processing  
multi- or mono-crystalline silicon**

**ARNOLD**  
**GRUPPE**



**Advantages of the Arnold band saws:**

- Highly flexible machine concept for mono- or multi crystalline silicon
- Low kerv loss < 1,0 mm
- Prepared for fully automatic or manual loading
- Processing of different brick and ingot sizes (125 x 125, 156 x 156, 210 x 210 mm)
- Quick set-up time
- Low investment costs
- Low tool costs
- High availability 97%

Machines are equipped with a SPS Simatic - S7, IPC and operating panel with 15" touch screen monitor with all required operational elements as well as sensors for the visualization of all media.

In addition the machines could be equipped with the specially developed software ARPAT for the collection and analysis of your production information, this could be stored in a Microsoft SQL-database and could be easily supervised, worldwide, from your own computer.

**General technical information**

Machine <b>MU</b> (LxWxH):	2500x2600x200 mm
Machine <b>MO</b> (LxWxH):	5000x3200x2000 mm
Machine weight:	6000 kg (7500 kg)
Connected load:	20 kW
Voltage/frequency:	400 V, 50 Hz, 3 phases
Compressed air:	6 - 8 bar
Coolant grease:	water
Length sawing band:	5.500 mm
Height sawing band:	50 mm
Width sawing band:	0,75 mm

**72/375-MULTI**

We have developed this band saw for your manual or automatic assembly via robot.

The machine serves for top/tail cutting and cropping of bricks up to a profile format of 210 x210 mm and a workpiece length between 100 and 500 mm.

**72/375-MONO**

This band saw is available in two alternatives for the optimized integration into your production line. If you use the machine for cutting tops, for ingots (as grown) with a length of max. 2500 mm and a max. diameter of 350 mm, the saw is equipped additionally with a motor-driven sledge, moving the ingot into the cutting area.

Loading and unloading is done via handling system. Those prepared ingots are placed to our new o.d. cutting machine of type 72/476 for squaring.

In case your ingot is already squared (second alternative), the saw is used with mounted roller conveyor for cropping with subsequent surface grinding. Required cutting length is done motorically.