



**DANOBAT**

**VL/VP**

HIGH  
PRODUCTION  
VERTICAL CUTTING



# VERTICAL CUTTING SOLUTIONS

DANOBAT designs and manufactures solutions of vertical cutting using leading-edge technology for different sectors. They are versatile solutions with machines ready to easily fit in with customer's applications, as well as different materials: stainless steel, inconel, duplex, superduplex, tool steels, all types of mild and low-carbon steel, titanium, graphite, aluminium, etc.

Its rigid, steady and compact design ensures the highest standards of accuracy. The saw head, manufactured in a single piece, together with the moving guide arm, hydraulically clamped during the cutting process, achieves a high performance and quality machining results.

The vertical band saws are classified according to the height and maximum width of the component to be cut, as well as its length. Depending on the component's dimensions, DANOBAT offers 2 ranges: VP and VL.

Machines with different levels of automation as well as a wide range of options have been developed to suit different customer's requirements.

We provide comprehensive solutions, covering all the technical and after sales needs, integrated from beginning to end, reliable and profitable.





## SERVICE

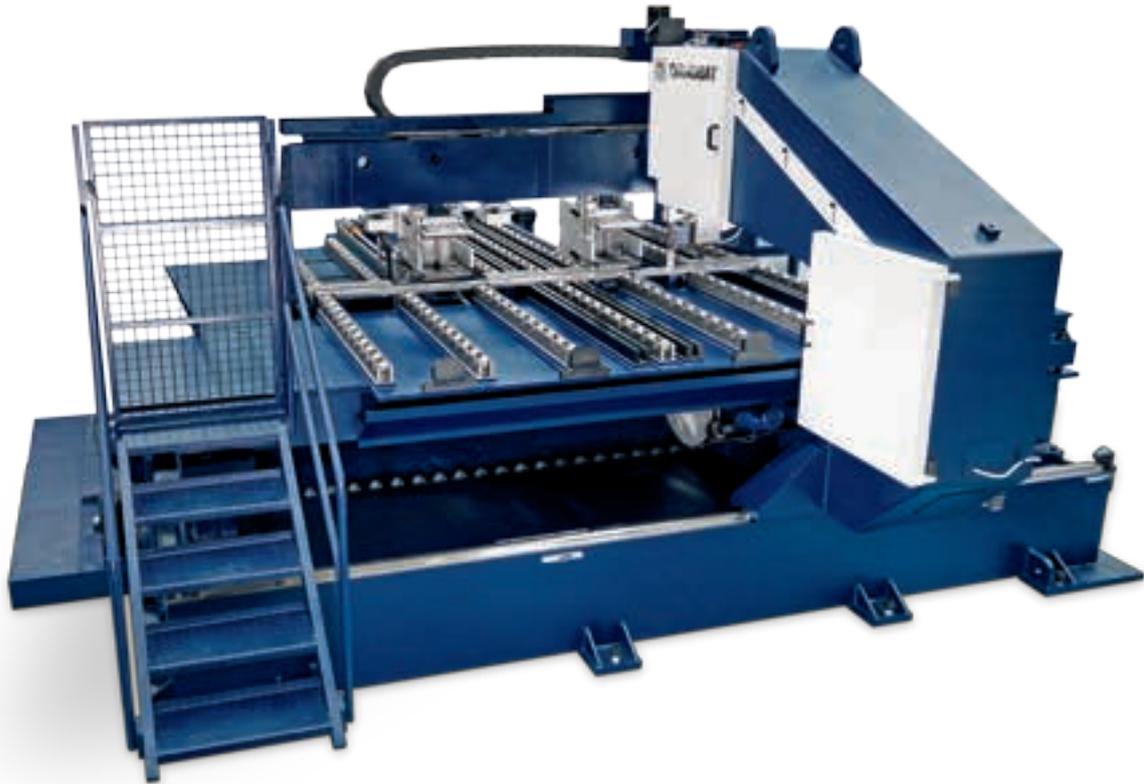
DANOBAT has a Cutting Advice Department for performing machining time studies for the customer's parts and optimization of his production process.

The high level of commitment of DANOBAT toward the customer, lasts throughout the life of the machine. The company offers services such as telediagnosis, preventive maintenance and teleservice.



## VERTICAL CUTTING **SOLUTIONS**

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## **VL, VERSATILITY AND HIGH PRODUCTION FOR MEDIUM AND BIG SIZE PIECES**

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The machine is designed for cutting difficult materials with maximum quality. The saw head contains a robust arm to reduce vibrations and achieve high production rates and long blade life.

Intelligent cutting software, iCS<sup>®</sup>, guarantees maximum performance, achieving longer blade life and reducing cutting times. iCS calculates automatically cutting parameters for each type of material. This way, cutting speed changes depending on the cutting section at each moment and it makes adjustment on both entering and exiting of the material. Among other applications, iCS includes an intelligent cutting system and allows to program running in of bandsaw blades automatically.

It allows to cut special materials with carbide blades and get the best cutting performance and blade life.

Automatic feeding and positioning, as well as semiautomatic operation are offered, depending on the production level required.

Vices are manufactured of steel plates, grooved and tempered with the aim of avoiding premature wearing when feeding. Vices are tilting to offer a secure and correct clamping and feeding of material.

External and internal table, in automatic models, are provided with rollers, that guarantee an optimal displacement of the material, as well as a high accuracy positioning.

Compact design to reduce the floor space needed in the production plant. Thus, ergonomic: coolant protection and collection system, touch control panel integrated in the electric cabinet and easy and fast blade changing system.

# VL

## TECHNICAL SPECIFICATIONS FOR AUTOMATIC AND SEMIAUTOMATIC MODELS

CHARACTERISTICS		VL 50.70	VL 150.120	VL 30.150
Maximum capacity (height x throat)	mm inch	500 x 700 20 x 28	1500 x 1200 60 x 47	300 x 1500 12 x 60
Table length	mm inch	4000 ; 6000 157 ; 236	3000 ; 4000 118 ; 157	3000 ; 4000 ; 6000 118 ; 157 ; 236
Feeding stroke for automatic models	mm inch	1500 60	Not applicable	1500 ; 2500 ; 3000 60 ; 100 ; 118

CHARACTERISTICS		VL 80.150	VL 150.150	VL 70.200	VL 60.250
Maximum capacity (height x throat)	mm inch	800 x 1500 32 x 60	1500 x 1500 60 x 60	700 x 2000 28 x 80	600 x 2500 24 x 100
Table length	mm inch	3000 ; 4000 ; 6000 118 ; 157 ; 236			
Feeding stroke for automatic models	mm inch	1500 ; 2500 ; 3000 60 ; 100 ; 118	Not applicable	1500 ; 2500 ; 3000 60 ; 100 ; 118	

\* Blade dimensions and main motor power according to your requirements

\*\* Other specifications up on request



▲ Accurate positioning



▲ Automatic feeding system

# SPECIAL APPLICATIONS

## OFF-THE-ROAD TYRES



## BIG VALVES



## AEROSPACE



## OPTIONS

### TILTING VICES

The machine can be equipped with tilting vices. These clamps turn 90°, so the table is free of obstacles and make the loading of the pieces easier.



### HYDRAULIC VERTICAL CLAMPING

It consists of a bridge with a vertical clamps, adjustable to different length pieces. It guarantees the cutting quality, especially in irregular materials. It is possible to cut in bundles, and increase the production level with maximum accuracy.



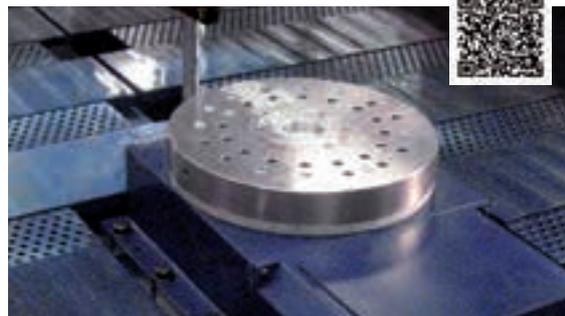
### LASER LAMP

A laser light beam is reflected onto the piece showing the cutting line. This option helps the user to manipulate and position the material in semiautomatic models.



### SECTIONS CUTTING

DANOBAT vertical bandsaws can be equipped with fully automatic turning tables for sections cutting. These tables guarantee maximum positioning precision and enable complete machining in one set-up.



# VP

## Reliability for pieces up to 500 mm

- Saw head is filled in with concrete polymer: it provides the necessary rigidity to get high production rates.
- Milimeter rule and positioning stop system to make the manipulation of the pieces easier.
- Robust table and calculated to support different density materials, designed with T-slots for an easy securing of work pieces.
- Due to the design of the table, it is easy to load any piece.
- Efficient and reliable cut: the machine is equipped with table movement speed control, so the technician can adapt the cutting speed at any time in order to optimize the performance of the machine.



CHARACTERISTICS		VP 50.50.120	VP 50.50.210
Maximum capacity (height x throat)	mm inch	500 x 500 20 x 20	
Table length	mm inch	1200 47	2100 82
Blade dimensions	mm inch	5265 x 41 x 1,3 207.28 x 1.61 x 0.051	
Main motor power	kW hp	5,5 7.5	
Blade speed	m/min ppm	17 - 148 56 - 485	
Maximum weight	kg lb	5000 11023	8000 17636

## OTHER SAWING SOLUTIONS



Horizontal bandsaw



Transfer



Gantry



Intelligent cutting system