25 Years Anniversary
BOMAR company 1993 - 2018

BOMAR®



Proline ANC

Ready for automation

BEC Solution Group

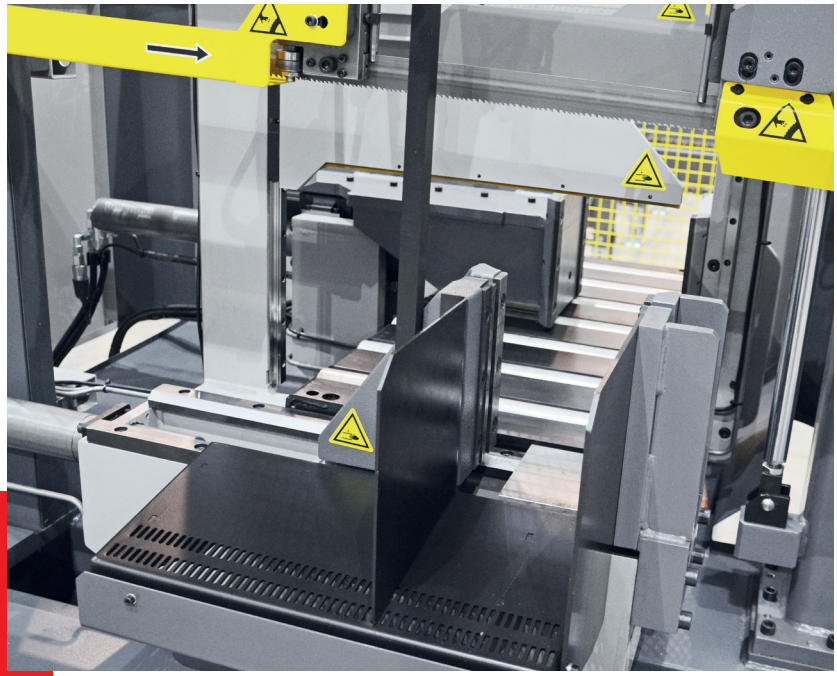
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Proline

This double-column automatic band saw, intended for square cuts up to the diameter of 350 mm, is a perfect compromise between quality and price. The saw arm is guided by two sturdy columns and mounted on prestressed linear guides with zero backlash in both columns. The three-sided precision carbide guide of the saw band, 34mm high saw band and synchronously running swarf-removing brush are prerequisites for excellent cutting output of this machine. The material feed under the saw band, its clamping and feed of the saw band arm to cut and back are controlled hydraulically.

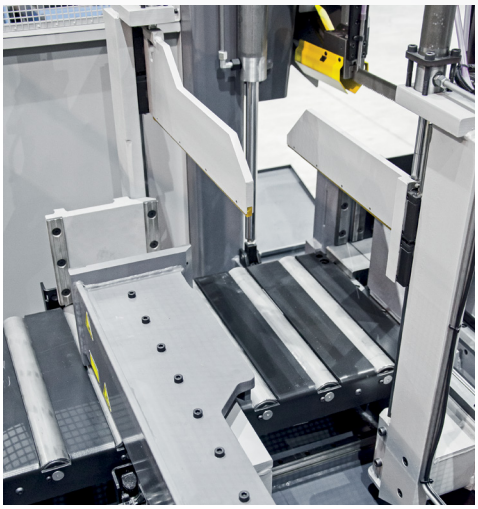
The maximum length of a single feed is 600 mm. Data can be entered by means of a well-arranged foil keyboard and display. Programming is done in simple steps, of which the user is well informed (thanks to the graphic representation of the individual sections). After switching the machine to the manual mode, you can control all of its functions separately. All of the control elements are located on a freely adjustable control panel. The material is clamped by means of two full-stroke vices. The split main vice clamps the material before and behind the cut. The full-stroke feed vice is mounted on a linear guide. The through roll-way leads to the main vice. The machine is equipped with a frequency converter enabling setting of the optimum saw band speed according to the material cut within the range of 20–120 m/min., which significantly increases both the service life of the saw bands and the machine productivity. The saw band is inclined at the angle of 2° to the vice loading area, which also significantly reduces cutting times and contributes to higher service life of the saw band. Thanks to the structural stiffness of the arm, the double-column band saws achieve much shorter cutting times, particularly with solid materials, than machines with swivel mounting of the saw arm.

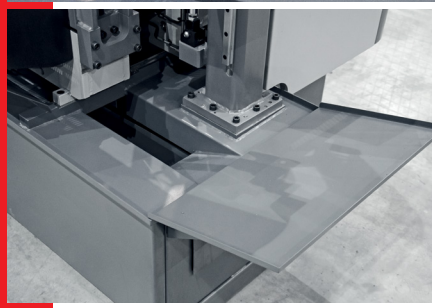
Efficient, automatic



Full-stroke vertical material pressures, enabling bundles to be cut within the entire vice opening width.

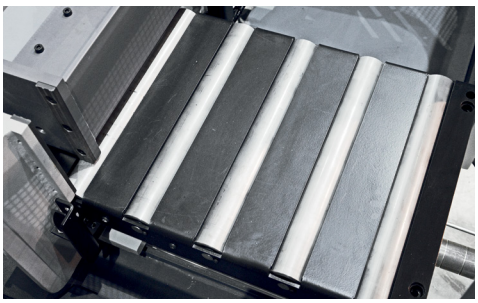
Sturdy feeding vice mounted on a linear guide.





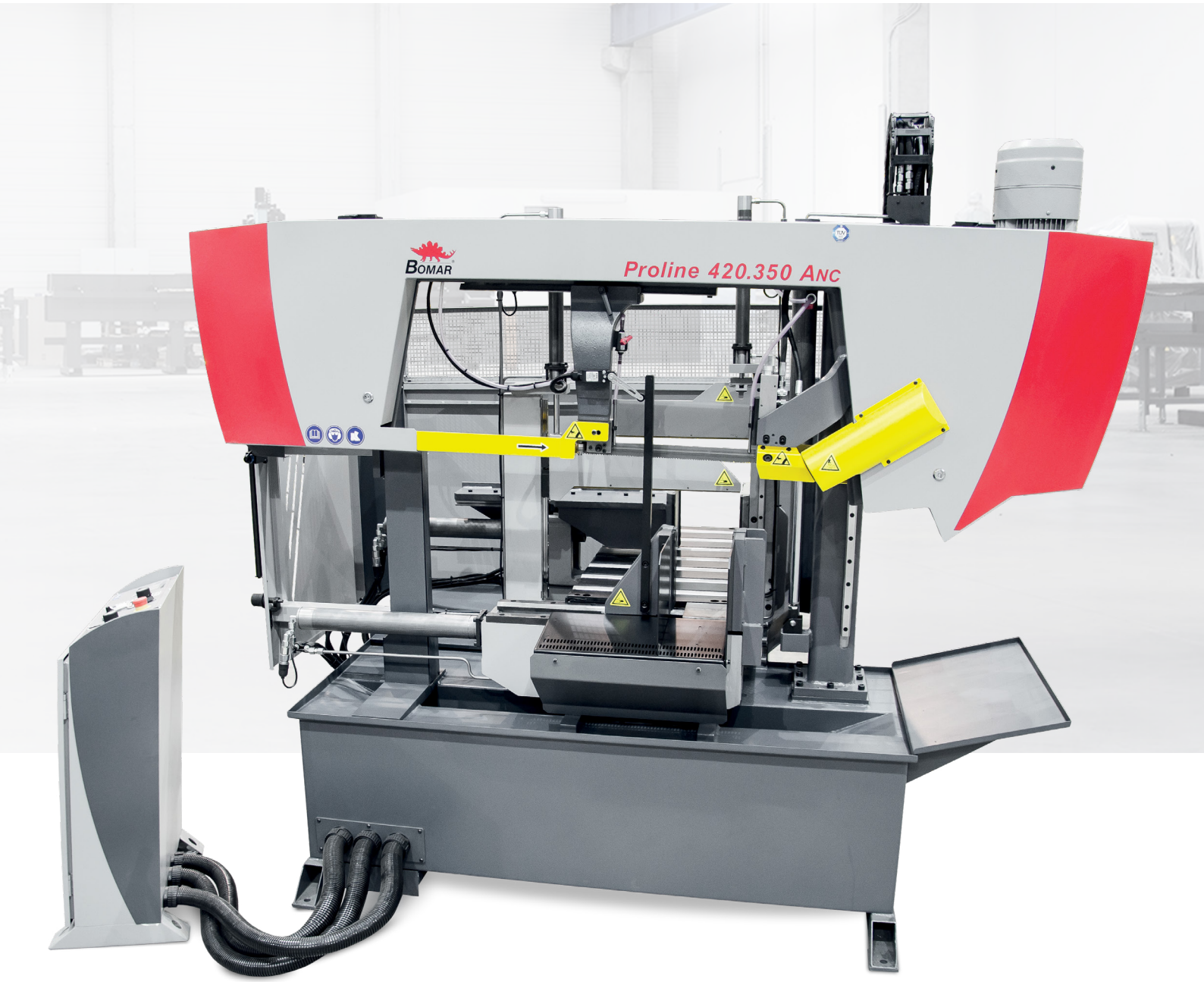
Ergonomic chip tray with the possibility of chip remover installation.





Continuous roller conveyor ensuring smooth flow of material to the main machine vice.

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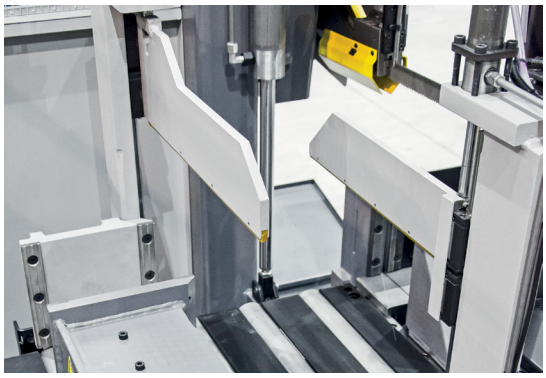
Proline 320.280 ANC	0°	280	320 x 280	320 x 280	280
Smallest sawing diameter	ø 10 mm				
Shortest length of cut-off piece	70 mm / 230 mm - with bundle device				
Saw band dimensions	3800 x 27 (25) x 0,9 mm				
Drive	2,2 kW, 3 x 400 V/ 50 Hz				
Saw band speed	20 - 120 m/ min				
Machine dimensions	Length - 1 950 mm / Width - 1 950 mm Height - 2 000 mm / Weight - 1 000 kg				

Proline 420.350 ANC	0°	350	420 x 350	420 x 350	350
Smallest sawing diameter	ø 10 mm				
Shortest length of cut-off piece	70 mm / 230 mm - with bundle device				
Saw band dimensions	4780 x 34 (32) x 1,1 mm				
Drive	3 kW, 3 x 400 V/ 50 Hz				
Saw band speed	20 - 120 m/ min				
Machine dimensions	Length - 2 049 mm / Width - 2 300 mm Height - 2 000 mm / Weight - 1 200 kg				

Proline 520.450 ANC	0°	450	520 x 450	520 x 450	450
Smallest sawing diameter	ø 10 mm				
Shortest length of cut-off piece	70 mm / 230 mm - with bundle device				
Saw band dimensions	6020 x 41 x 1,3 mm				
Drive	4 kW, 3 x 400 V/ 50 Hz				
Saw band speed	20 - 120 m/ min				
Machine dimensions	Length - 2 056 mm / Width - 2 891 mm Height - 2 032 mm / Weight - 1 600 kg				

Accessories, material conveyors

Proline bandsaw is supplied with unrivalled equipment. With intelligent optional equipment and accessories, the machine may be adapted precisely to individual requirements. With a wide range of accessories and connection pieces to BOMAR bandsaws, the handling “T” System is an ideal partner for handling material in your workshop. For handling heavier materials the X series conveyors may be used. Thanks to their default length, roller tracks may be exibly adjusted to any environment.


Innovative accessories



Micro-spray-system

For ideal cutting of pipes and profiles, the micro-spray unit applies a grease film on the teeth points and lateral sides of the saw band.



Laser liner

The laser unit copies the exact line in the saw band axis to the material. Laser Liner allows precise adjustment of the marked material.



Saw band tension indicator

The saw band tension indicator provides permanent control of the band tension, even during the machine operation.



Saw arm downfeed indicator

Allows easy and accurate reading of the current band saw arm downfeed speed.



Workspace lighting

A lamp for lighting the workspace, adjustable and mounted on the flexible arm.



Hydraulic bundle clamping device

Device for clamping materials in layers and bundles with the use of an additional vertical clamping unit.



Third coolant supply

The third coolant supply is used for extra wide materials. The coolant supply is flexible and may be individually adjusted to the material shape.



Pistol for machine cleaning

Tool for fast and easy cleaning of the machine from chips and burrs.

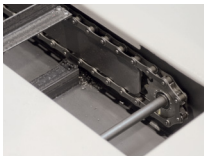
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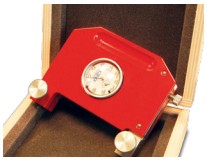
Sample assembly

Proline 420.350 ANC
Roller conveyor X450 - 2m
Connection piece X450 - left



Swarf removel system

Swarf extractor with grabs for an integrated system of collection in Proline machines. The saw is prepared for the chip remover installation, which may be Plug-and-Play connected.



Tenzomat

A precise measuring tool for the control of the saw band tension when a new band is installed.



Vice pressure regulation

The pressure regulation of both cylinders is centrally preset, firstly to be avoided of the deformations by thin-walled pipes and profiles.

For more information about the machine and the possibility of extending it, please contact our sales department.

System X / material conveyors

The “X” handling systems provide extraordinary flexibility in material handling according to specific requirements and given conditions. The bearing capacity values and level of automation are flexibly adjustable and may be changed later as required. Apart from the roller track in normal and driven versions, the “X” systems include a wide range of optional accessories, from vertical rollers to length measuring systems to transversal transport units and moving devices.

The versions available include accessories from a simple, manually operated measuring stop, to a digital measuring stop with manual resetting and highly eficient numerically controlled measuring stop with a sensitive disconnection when the end position is reached, allowing heavy materials to be cut precisely in connection with driven roller tracks.

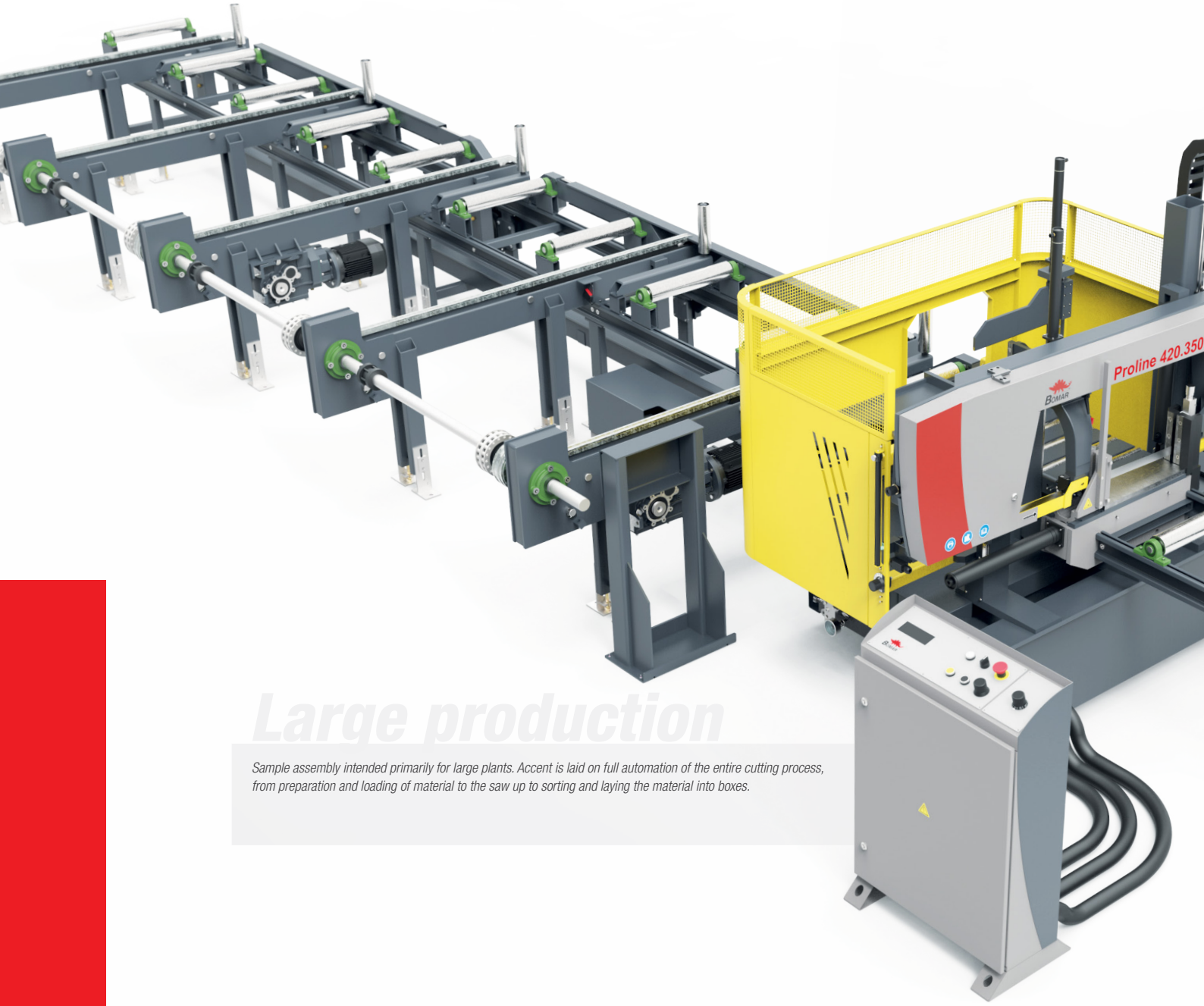




Ready for automation

Already in development of each machine, we are thinking about its use in different conditions and in different productions. The Proline machine is ready to be a part of huge automatic lines for complete production processes. You can easily extend the machine and connect the special parts as a material loading and feeding systems. This is the way we can turn the production processes to the effective way.

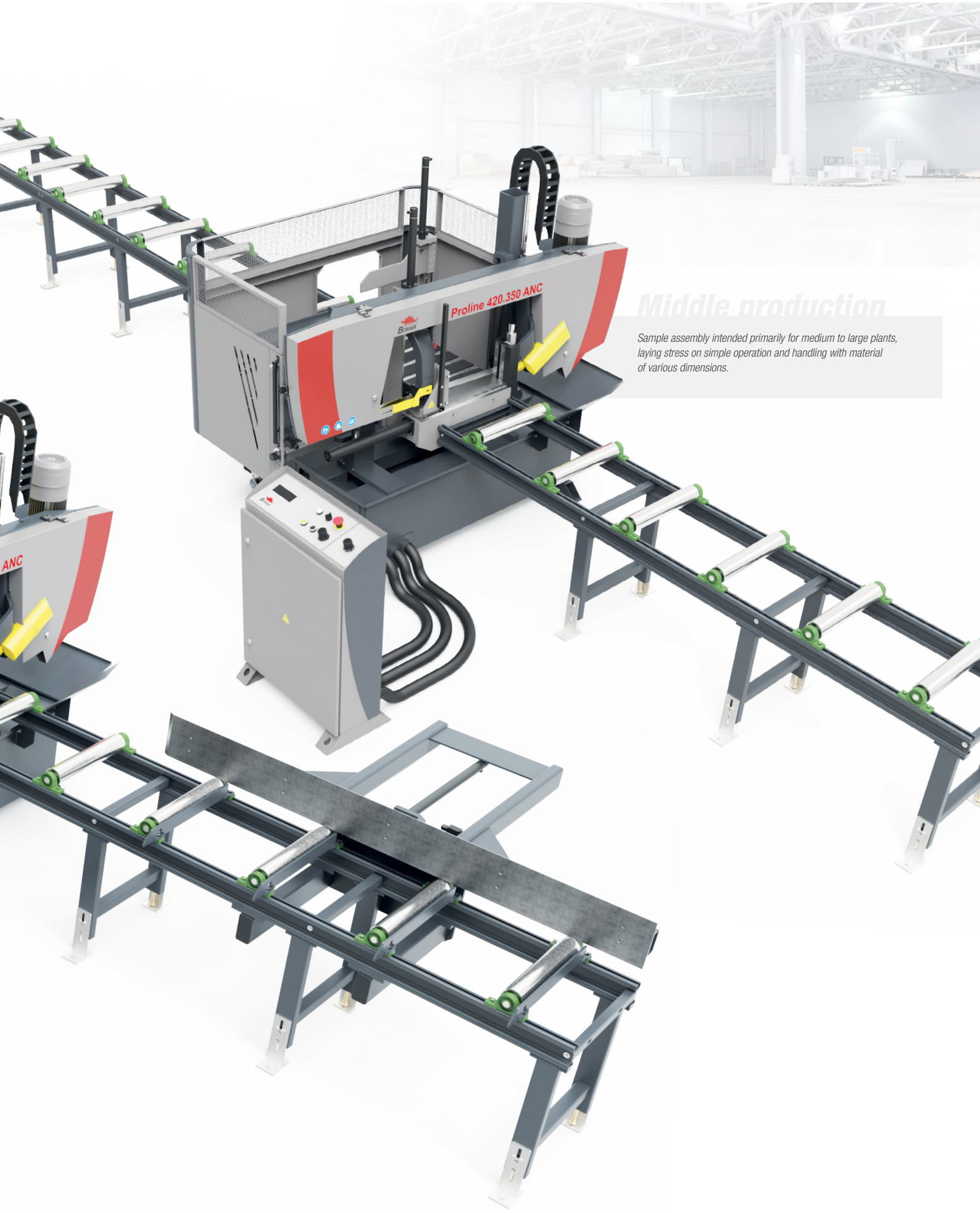




Large production

Sample assembly intended primarily for large plants. Accent is laid on full automation of the entire cutting process, from preparation and loading of material to the saw up to sorting and laying the material into boxes.

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Middle production

Sample assembly intended primarily for medium to large plants, laying stress on simple operation and handling with material of various dimensions.

BOMAR, spol. s r.o.
Těžební 1236/1
627 00, Brno
Česká Republika

Tel. + 420 533 426 100
info@bomar.cz

www.bomar.cz