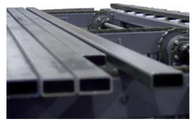
A system solution for frictionless material flow

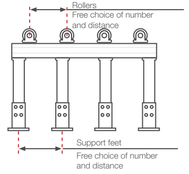
The new X handling system offers unprecedented flexibility for tailoring a handling system to individual needs and conditions. Load capacities and automation levels can be adjusted with perfect flexibility and modified at a later time. Besides the roll conveyor in a regular and propelled version, the X system comprises a rich array of options, from vertical rollers, to length measuring systems all the way to cross conveyor units and shifting devices.

Band saw	Conveyer	Standard lengths
Individual 520.360 DGA	System X 550	78,7" , 118"
Individual 620.460 DGA	System X 650	78,7" , 118"



Cross conveyor units

Easy on material in a trolley version, as a chain cross conveyor or as a slide unit with pushing fingers that can be used on both sides.

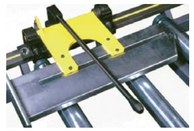


High flexibility

With the new System X roll conveyors, the load capacity can be customized by the number of rollers and support feet used.The roll conveyor's feed profile even allows varying roller and foot distances on the same roll conveyor unit. When needed, additional rollers and/or support feet can be installed at any time.

Length measuring systems

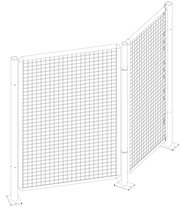
The handling program offers simple, precise length measuring systems in almost unlimited lengths for custom adjustment to your requirements. The versions range from a simple, completely manual measuring stop, to a digital measuring stop with hand wheel setting, all the way to a high-precision NC measuring stop with a sensitive limit switch for cutting heavy materials to exact length in coordination with propelled roll conveyors.



Length stop	Length adjustment	Length readout
System X-A	manual with Quick-Lock-System	Measuring scale
System X-DA	by hand wheel	Digital display
System X-NCA	Electromechanical	NC control

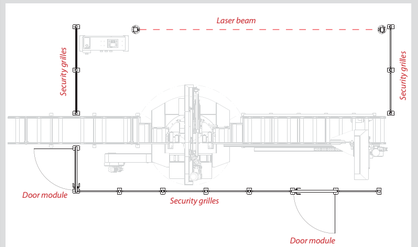
securflex®

Personnel are them most valuable part of every business and must be protected in compliance with current safety criteria. The Securflex® safety system allows every device to be secured individually, depending on the environment and requirements.



- Grids of various widths and 63" or 79" height.
- Doors in various widths made as swinging, sliding or double-wing.
- Maintenance units with an off-take hook and electronic lock
- Laser light lock systems to extensive safety
- Several safety sections possible!

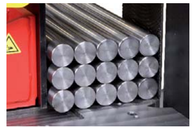
Safety system



A complex safety system for a fully automatic double mitring saw in compliance with valid EU machinery Directives.

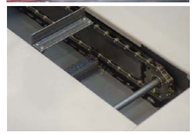
Intelligent option for Customization

The Individual series comes standard with an incomparable range of equipment. With intelligent options and accessories, the machines can be customized in detail to individual requirements.



Bundle tensioning device

With an easily adjusted hydraulic cylinder, the bundle of material is tightened vertically.



Swarf conveyor

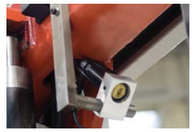
Grab conveyer is placed directly under cutting place.

Micro-Spray-System

A fine film of spray lubricant is spread from both sides onto the tooth tips, and onto the saw band clasps for better lubrication.

Hydraulic band tensioner

A powerful, large-dimension hydraulic cylinder is used for tensing the saw band. A pressure switch always keeps the band tension within the ideal range.



LaserLiner

The laser projects the exact path of the saw band on the material.

Tenzomat

A precise measuring tool for monitoring the saw band tension when applying new saw bands.

Rinsing pistol for shavings

With its own efficient pump for rinsing accumulated shavings from support surfaces.

Memory expansion

Controls with memory expansion for storage of up to 200 programs.

Remote maintenance system

Over an Internet connection, status and error messages are transmitted to the factory and decrease downtime.

Clamping pressure regulation

A regulation screw is used to adjust the clamping pressure, and the maximum clamping force is shown on a manometer.

Band path monitor

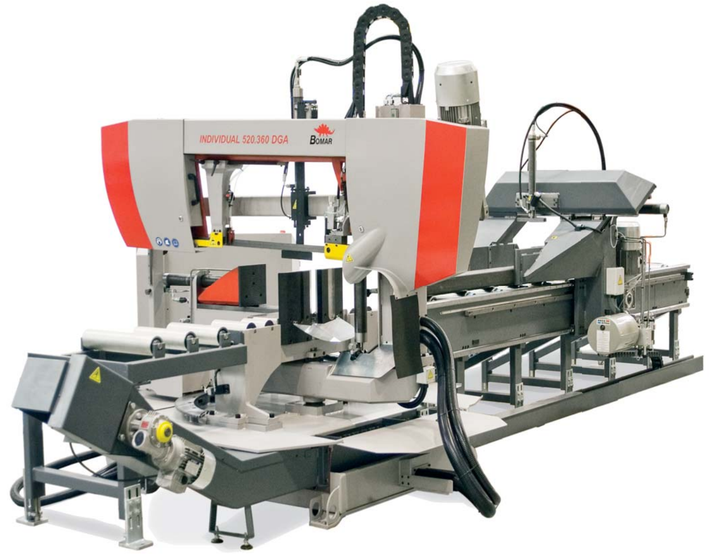
The saw cut is permanently monitored, and signal is given if a programmable tolerance has been exceeded.

Work light

Halogen work light for bright working area. The light is mounted on flexible arm and can be adjusted individually.

Connection parts

Suitable connection parts are available for the roll conveyor system of each machine version.



INDIVIDUAL DGA

BOMAR®

Automation in steel construction

With a long feed and two-sided automatic double beveling up to 60°, an ideal production machine for steel construction. The wide cutting range allows even large beams to be divided into acute angles.

The machine depicted shows optional accessories.

Feed lengths up to 90,6 ft.

Thanks to the feed system's flexible construction, the feed length can be individually adjusted to customer needs. From the standard length of 90,6 ft., feed lengths up to 236,2 ft. are possible.

Short residual lengths

The feed system's overhanging clamping jaws allow shorter residual lengths, even with acute angles.

At 90° to the support surface

During bevel cuts, the automatic, hydraulically moved vice is shifted to the opposite side of the cut. This construction allows the material to be clamped at 90° to the support surface at all times.

Low wear

Replaceable, hardened insert rails in both clamping jaws of the feed ensure full material tension.

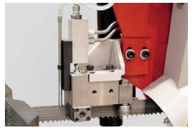
- Automatic two-sided bevel cuts to 60°
- Continuous band speed from 66 to 3941 ft./min using a frequency converter
- Feed length custom adjusted to client requirements from 90,6" to 236,2"
- Fed on precise, pre-stressed linear guides
- Feed driven by a frequency-controlled industrial motor, sprocket and gear rack
- Feed clamping jaws guided on play-free pre-stressed, large-dimension linear guides
- Extensive expansion possibilities with available options and accessories

Overview of technical data – Individual DGA

										Saw blade Dimension	Saw blade Speed	Saw blade Drive	Weight
Individual 520.360 DGA	0°	14,2"	20,5"×14,2"	14,2"×20,5"	14,2"	9,8"	9,8"	19,7"×11,8"	188,2"×1,3"×0,04"	65ft. – 394ft./min.	4 hp	7,275lbs.
right	45°	14,2"	14,2"×12,8"	14,2"×12,2"	13,8"							
right	60°	9,5"	12,8"×12,8"	14,2"×7,5"	9,5"							
left	45°	14,2"	14,4"×13,8"	14,2"×12,6"	12,6"							
left	60°	10"	10"×13,4"	14,2"×7,9"	10"							
Individual 620.460 DGA	0°	18,1"	24,4"×18,1"	18,1"×24,4"	18,1"	13,8"	13,8"	23,6"×15,8"	240,2"×1,6"×0,05"	65ft. – 394ft./min.	5,4 hp	8,489lbs.
right	45°	16,5"	16,5"×15,8"	18,1"×15,8"	15,9"							
right	60°	10,8"	11"×15,4"	18,1"×10,4"	11,8"							
left	45°	16,5"	17,3"×11,8"	18,1"×16,1"	16,5"							
left	60°	11,8"	11,8"×18,1"	18,1"×11,8"	11,8"							

Innovation in detail

The equipment on Individual double-bevel machines offers a wealth of detailed innovation. In addition to premium components, real-world experience provides solutions that improve the life and performance of the machine and the saw band. Simple operation, short cycling times and high cutting performance are the fundamentals of every detailed solution.



Precision

Large guide shoes made of vibration-damping cast material in combination with carbide slide ways and low-wear guide rollers make for precise cuts.

Saw band tensioner

Standard equipment includes a hydraulic band tension display, an electronic monitor for saw blade tension and saw band breakage, and more.

Full-lift cylinders

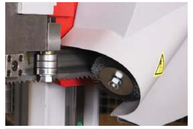
Generously sized full-lift cylinders allow vice operation right from the control panel.

Certified Quality

All machines in Individual series are checked TÜV-Süd office and certified in conformity with actual machine directives.

Load capable

For the entire length, the feed unit is equipped with a load-capable roll conveyor.

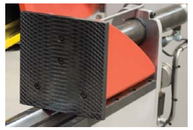


Synchronization

Powered shavings brush always runs synchronized to the saw band speed.

Precise and stable

On both columns, the saw frame is mounted to high-precision, play-free linear guides. These guides guarantee maximally smooth operation and cutting precision.



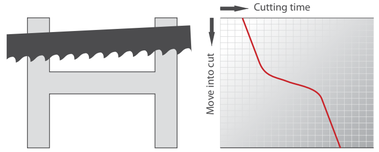
Play-free

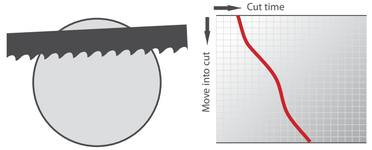
The vice is guided on hardened, ground rails. The special design allows the slide rails to be readjusted at any time and the vice to be held play-free.

ADFR The highest precision. Faster cut. Less wear.

The ADFR system regulates the interplay of the cutting pressure and the cutting feed automatically in real time. A sensor gives the current load on the saw band and regulates the cutting feed according to the shape of the material. For larger cross cuts to the material, the cutting channel lengthens and the saw band's load increases. If the cutting feed in these ranges is not automatically adjusted, the saw band's life drastically decreases or the cutting time significantly drops due to a lower feed.

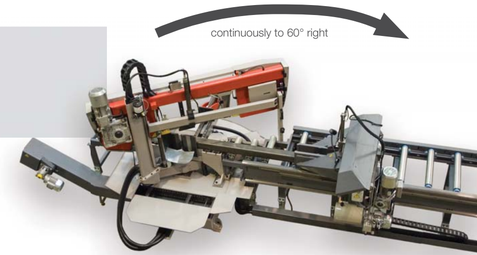
Cutting feed and cutting pressure are set individually at the control panel. The selected cutting pressure is displayed on a manometer.





Program-controlled 60° two-sided double bevel

Clear, simple operation, without limiting the range of functions — those are the attributes of the controls used in the automatic saw machines of the Individual series.
Close collaboration with renowned manufacturers of control electronics has given rise to innovative operational designs that allow clear communication with the operator and the shortest possible learning curve.



Ease of use

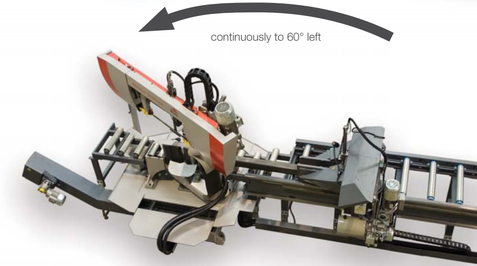
The controls are equipped with a large graphic display and ensure a short learning curve through their intuitive, dialog-based design.

Recurring cut data can be stored in the machine's controls and loaded when required. The controls allow storage of 60 programs of 25 sets each. A program set consists of a piece count, the cut length and the angle on each side of the work piece.

Additionally, the controls on Individual double bevel machines offer a cut optimization option to keep material consumption as low as possible.

Sample cut

Continuous two-sided double bevelling to 60° allows complicated cuts to be made with greater precision through time-saving automation. Programming is done in clear steps and gives a clear overview of the individual cuts on a graphic display.



Futuristic control technology

Clear, simple operation without limiting the range of functions — those are the attributes of the controls used in Individual series automatic saw machines.
Close collaboration with renowned manufacturers of control electronics has given rise to innovative operational designs that allow clear communication with the operator and the shortest possible learning curve.

At customer request, the controls can be connected over the Internet to the service unit at the factory. Error messages and malfunctions are promptly evaluated and downtimes considerably reduced.