Bystronic

Best choice.

COLLECTION **LASER**

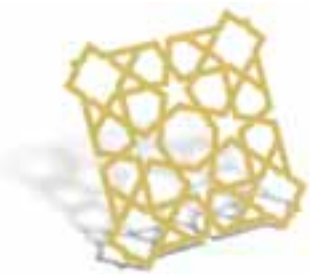
Bystronic

Laser cutting

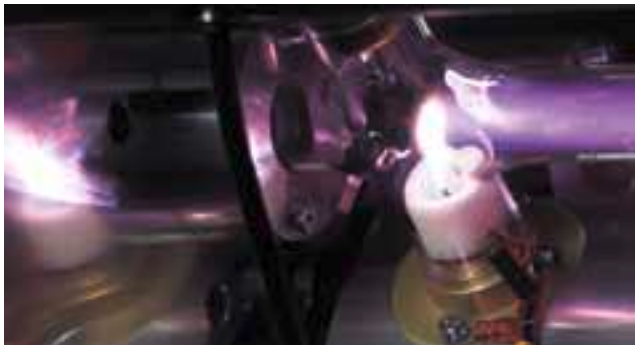
Laser cutting is a thermal cutting process for processing sheet metal. The laser beam is created by the laser source (resonator), conducted by mirrors or a transport fiber in the machine cutting head where a lens focuses it at very high power on a very small diameter. This focused laser beam meets the sheet metal and melts it. Bystronic uses two types of laser sources: CO_2 laser and fiber laser.

Versatile

Laser cutting is extremely versatile. In addition to flat materials, tubes and profiles can also be processed by laser cutting systems. Primarily steel, stainless steel and aluminum are cut. The thickness of the processed sheet metal ranges from 0.8 to 25 mm.



Bystronic. Best choice.



CO_2 laser

A CO_2 laser uses a gas mixture to create the laser beam. The necessary high voltage in the resonator is created with the help of wear-free semiconductor excitation modules. Bystronic relies on such modules since they are smaller, more efficient and reliable than traditional solutions. The CO_2 technology is suited for all-rounders who process various materials and thick sheet metal.

Fiber laser

Fiber lasers are the newest development in laser cutting. The laser beam is created by an active fiber and transmitted over a transport fiber to the machine cutting head. Fiber lasers are significantly smaller than CO_2 lasers and generate twice as much power from the same amount of current. A fiber cutting system is primarily suited for processing thin to medium-thick sheet metal. It also cuts non-ferrous metals (copper and brass).

Bystronic: Best choice.

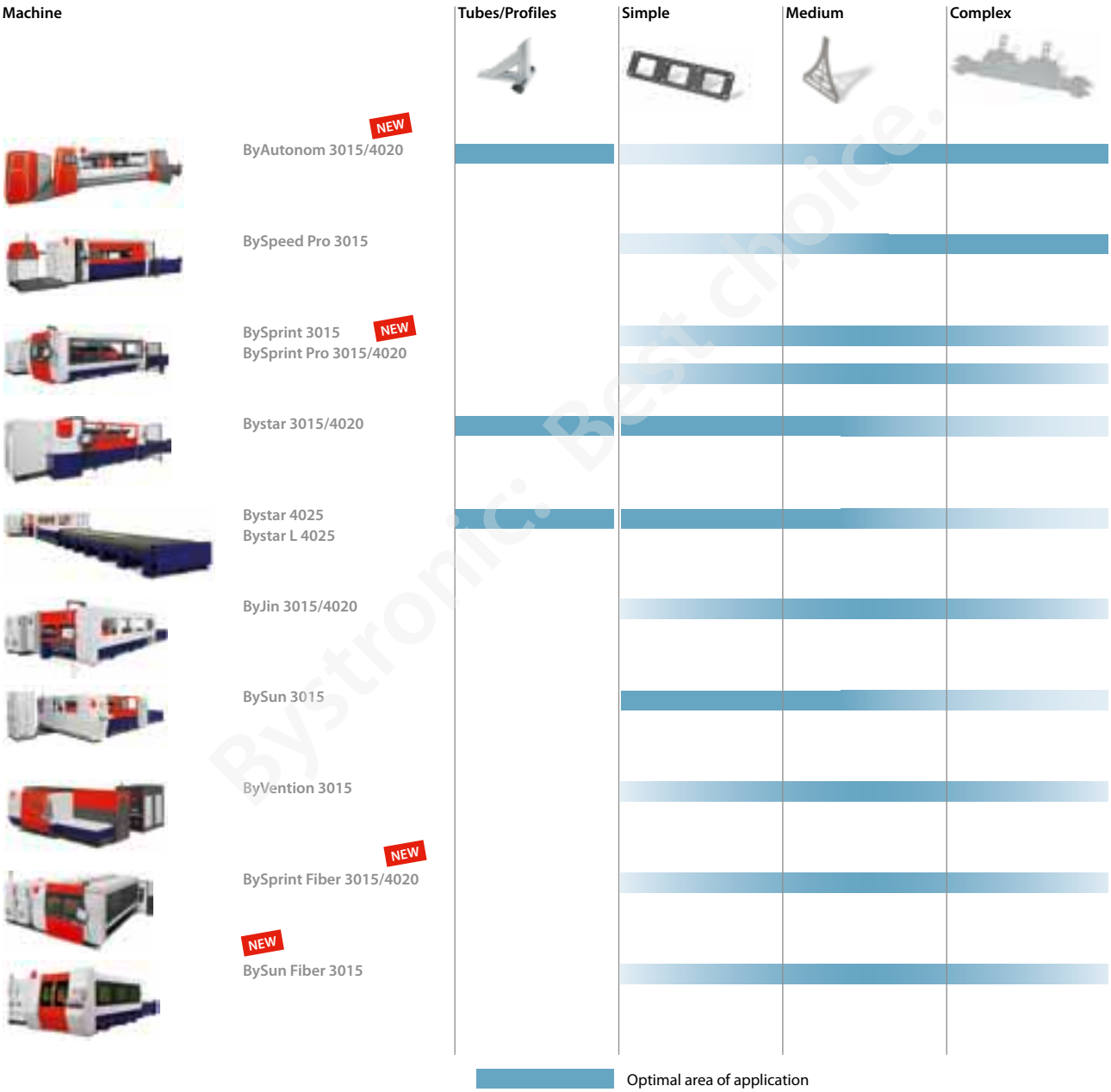
Cutting gas

The laser beam is focused by the lens in the cutting head and directed onto the workpiece by a nozzle. The cutting gas also flows through this nozzle. Depending on the application, oxygen, nitrogen or compressed air are used as the cutting gas.

Requirements and solutions

Bystronic offers a suitable laser cutting system for every requirement profile. All machine models offer unique benefits, for example fast job processing, high process reliability and low non-productive time, as well as simple, logical operation. In addition, they offer energy efficient laser sources and numerous possibilities for process automation.

Part geometry



Bystronic: Best choice.

Not all products listed in this brochure are available in all countries.

Type of material and material thickness

* High-speed cutting in the thin-sheet-metal range

Bystronic laser sources

A wide selection of various, powerful laser sources is one of Bystronic's trademarks. All lasers are high-quality and highly energy efficient, not least because of their high efficiency. The portfolio contains both CO_2 and fiber lasers.

	CO_2 laser				Fiber laser		
Type of machine	**Laser source**						
	Bylaser 2200	ByLaser 3300	ByLaser 4400	ByLaser 6000	Fiber 2000	Fiber 3000	Fiber 4000
ByAutonom 3015			■	■			
ByAutonom 4020			■	■			
BySpeed Pro 3015			■	■			
BySprint 3015	■						
BySprint Pro 3015		■	■	■			
BySprint Pro 4020			■	■			
Bystar 3015			■	■			
Bystar 4020			■	■			
Bystar 4025			■	■			
Bystar L 4025			■	■			
ByJin 3015		■	■				
ByJin 4020			■				
BySun 3015		■					
ByVention 3015	■		■				
BySprint Fiber 3015					■	■	■
BySprint Fiber 4020						■	■
BySun Fiber 3015					■		

Type of material	**Cutting thicknesses** (in mm)						
	Bylaser 2200	ByLaser 3300	ByLaser 4400	ByLaser 6000	Fiber 2000	Fiber 3000	Fiber 4000
Steel O_2	15	20	25	25			
Steel N_2	4	6 (5***[1])	8 (5***[2])	12			
Stainless steel N_2 fine cut	6	12	12	15*			
Stainless steel N_2 plasma cutting	n.a.	n.a.	20	25			
Aluminum N_2	5	8	12	15			
ByVention							
Steel O_2	8**		8				
Stainless steel N_2	6		8				
Aluminum N_2	4		8				
BySprint Fiber, BySun Fiber							
Steel					12	20	20
Stainless steel					6	12	15
Aluminum					8	12	15
Brass					4	6	8
Copper					3	6	8

* ByAutonom 3015/4020: Power Cut to 25 mm (option)
** When loading from the front: up to 15 mm (7.5" cutting head required)
***[1] ByJin, BySun
***[2] ByJin

Bystronic. Best choice.

ByAutonom 4020

ByAutonom

You describe what, the machine figures out how

Customer benefits

- Also available in 3015 and 4020 designs. This means that even 4 × 2 m sheet metal can be processed quickly and economically
- A high degree of autonomy thanks to Collision Detection, lens-cassette changer, nozzle changer, and automatic nozzle alignment. This reduces non-productive time and increases process reliability. Fewer operator interventions are required, thus freeing up time to concentrate on planning and control
- The ergonomic design and optimal access to the cutting range, make the machine extremely user-friendly
- Maintenance Messenger: Machine control notifies the operator when machines and laser sources require maintenance
- Condition Messenger: Machine control continually collects data on the condition of the machine components. It informs the operator if a component requires checking
- Extremely high parts production across all sheet thicknesses and for tube processing

Bystronic: Best Choice.

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NEW
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1 Best accessibility
2 Ergonomic machine operation
3 Nozzle centering
4 CNC-controlled rotary axis
5 Nozzle changer
6 Lens-cassette changer

Bystronic Best choice

	ByAutonom 3015	NEW ByAutonom 4020
Nominal sheet size	3000 × 1500 mm	4000 × 2000 mm
Maximum simultaneous positioning speed	169 m/min	169 m/min
Maximum axis acceleration	30 m/s²	30 m/s²
Operation with touch screen and manual control unit	■	■
Circumscribed circle diameter of the rotary axis	15–315 mm	15–315 mm

@ webcode ***010107***

BySpeed Pro

The premium model works in a highly dynamic manner. Also available as a fully automatic cell

Customer benefits

- Excellent productivity and unbeatable parts production across the entire range of sheet thickness even with the basic model
- Changing focal length, changing the nozzle, and nozzle alignment can be automated. This enables increased machine autonomy and necessary operator intervention is reduced to a minimum
- Modularly expandable with the automation building blocks ByTrans (loading and unloading), ByTower (storage) and BySort (removal, sorting and stacking); thereby enabling flexible and lightly-manned operation as well as substantially reduced operating costs
- Low operating costs thanks to wear-free semiconductor excitation and wear-free magnetic bearing compressors

Bystronic: Best choice.

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1 Nozzle changer
2 Nozzle centering
3 Lens-cassette changer
4 Parts conveyor

3

4

Bystronic Best choice.

	BySpeed Pro 3015
Nominal sheet size	3000 × 1500 mm
Maximum simultaneous positioning speed	169 m/min
Maximum axis acceleration	30 m/s²
Operation with touch screen and manual control unit	■

@ webcode ***010101***

Optional encapsulation

BySprint/BySprint Pro

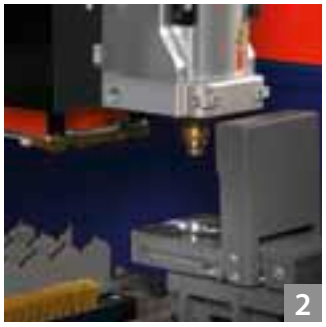
High dynamics for sheet metal formats up to 4 × 2 meters

Customer benefits

- Also available in 3015 and 4020 designs. This means that even 4 × 2 m sheet metal can be processed quickly and economically
- Nozzle change and nozzle alignment are automated in BySprint Pro models. This enables increased machine autonomy and necessary operator intervention is reduced to a minimum
- The newest cutting and piercing technology delivers fast job processing and maximum parts production as well as first-class quality across the entire range of sheet thickness
- The shortest cutting time per part thanks to efficient combination of plasma-supported high-speed cutting and high machine dynamics (BySprint Pro)
- The optional machine encapsulation reduces smoke emissions and noise to a minimum
- Low operating costs thanks to wear-free semiconductor excitation and wear-free magnetic bearing compressors

Bystronic. Best choice.

1 Nozzle changer
2 Nozzle centering
3 Best accessibility



Bystronic. Best choice.

	BySprint 3015	BySprint Pro 3015	NEW BySprint Pro 4020
Nominal sheet size	3000 × 1500 mm	3000 × 1500 mm	4000 × 2000 mm
Maximum simultaneous positioning speed	140 m/min	140 m/min	140 m/min
Maximum axis acceleration	12 m/s²	12 m/s²	12 m/s²
Operation with touch screen and manual control unit	■	■	■

@ webcode ***010102*** (BySprint)
@ webcode ***010103*** (BySprint Pro)

Bystar 4020

Bystar

The all-rounder in the Bystronic range. Even processes tubes and profiles

Customer benefits

- The working area is fully accessible, both during sheet metal and tube and profile processing
- Also available in 3015 and 4020 designs. This means that even 4 × 2 m sheet metal can be processed quickly and economically
- Effortless loading and unloading of the working area as well as the shuttle table
- Clear view of the entire working area, even during the cutting process
- High laser power for the economical processing of thick sheet metal

Bystronic: Best choice.

1 Unlimited accessibility
2 Perfect view into the machine
3 CNC-controlled rotary axis

Bystronic Bestchoice.

	Bystar 3015	Bystar 4020
Nominal sheet size	3000 × 1500 mm	4000 × 2000 mm
Maximum simultaneous positioning speed	113 m/min	85 m/min
Maximum axis acceleration	4.5 m/s²	3 m/s²
Operation with touch screen and manual control unit	■	■
Circumscribed circle diameter of the rotary axis	15–315 mm	15–315 mm

@ webcode ***010104***

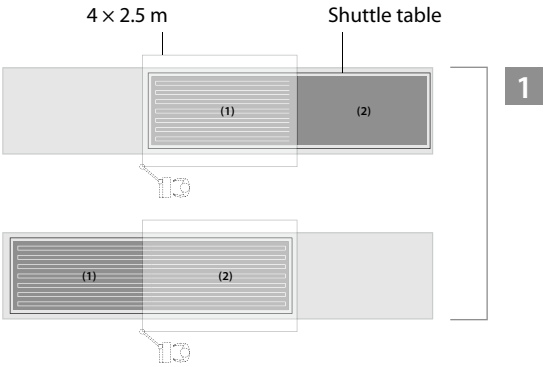
Bystar L

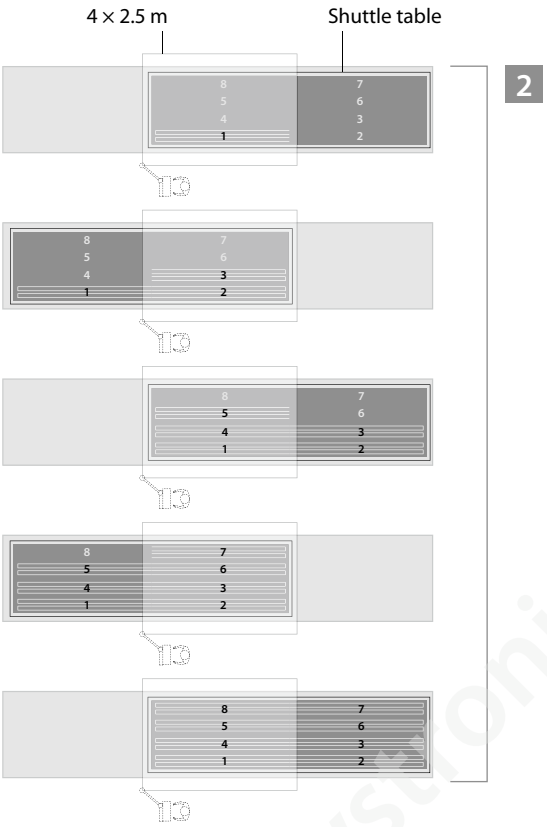
The all-rounder for XXL formats up to 12 × 2.5 meters

Customer benefits

- Even large parts up to 12 m in length are processed precisely and economically
- Up to 60 square meters of sheet metal can be loaded onto the machine. Jobs can be processed that are outside the range of competitors' standard systems
- The working area is fully accessible, both during sheet metal and tube and profile processing
- Clear view of the entire working area, even during the cutting process
- High laser power for the economical processing of thick sheet metal

Bystronic: Best choice.





Repositioning – conventional and alternating

1 Conventional repositioning
Diagram 1 shows a cutting table holding a metal sheet with the dimensions of 8 × 2.5 m. The entire cutting plan is divided into two cutting areas, each 4 × 2.5 m, where the left section is processed first (1). Then the cutting table moves forward, the laser continues working and processes the entire right cutting area (2). This procedure has especially proven itself in the thin-sheet-metal range.

2 Alternating repositioning
Diagram 2 shows a cutting table holding a metal sheet with the dimensions of 8 × 2.5 m. In this case, the entire cutting plan is divided into eight individual cutting areas. The cutting area 1 is processed completely, the cutting table then moves forward and processes cutting areas 2 and 3. The cutting table moves back and areas 4 and 5 are cut. This process repeats until all cutting areas in the diagram have been processed in order shown.
Advantage: the heat input is distributed evenly across the cutting table and any stress in the material is only released in the individual areas. This means that the re-piercing after each sequence is highly precise. The quality of the cut parts is optimal so that even oversized and especially thick parts are finished produced to a perfect quality.

Bystronic: Best choice

	Bystar 4025	Bystar L 4025-65	Bystar L 4025-80	Bystar L 4025-120
Nominal sheet size	4000 × 2500 mm	6500 × 2500 mm	8000 × 2500 mm	12 000 × 2500 mm
Maximum simultaneous positioning speed	85 m/min	85 m/min	85 m/min	85 m/min
Maximum axis acceleration	3 m/s²	3 m/s²	3 m/s²	3 m/s²
Operation with touch screen and manual control unit	■	■	■	■
Circumscribed circle diameter of the rotary axis	15–315 mm	15–315 mm	15–315 mm	15–315 mm

@ webcode ***010105***

ByJin

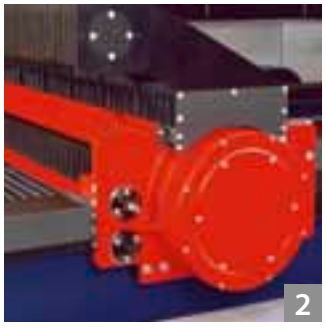
Swiss technology gives extremely wide application scope for parts processing

Customer benefits

- Choice between 3300 and 4400 watt laser power for a broad spectrum of demanding applications and for sheet thicknesses up to 25 millimeters
- Fast part and job speeds thanks to high-speed cutting (with ByLaser 4400) and the extremely fast and reliable piercing process RPP (Regulated Pulsed Piercing)
- Bystronic laser sources have high efficiency and low operating costs. This ensures maximum profit per time unit and job
- Cutting ranges from 3 × 1.5 and 4 × 2 meters as well as automatic shuttle table
- Option to add the automatic loading and unloading unit ByTrans (ByJin 3015). This provides a decrease in work costs as well as work result dependency on machine operators
- Ergonomics, safety, and productivity of the machine are tailored to local needs

Bystronic: Best choice.

1 Perfect view into the machine
2 Dynamic drives
3 Steel balls for simple material handling
4 Storage space for documentation
5 Position lasers for punching hole display



Bystronic Beispiel

	ByJin 3015	ByJin 4020
Nominal sheet size	3000 × 1500 mm	4000 × 2000 mm
Maximum simultaneous positioning speed	140 m/min	140 m/min
Maximum axis acceleration	12 m/s²	12 m/s²
Operation with touch screen and manual control unit	■	■

@ webcode ***010108***

BySun

Your entrance into the champion league of sheet processing

Customer benefits

- Swiss technology and quality at local prices means first-class return on investment
- Unlimited accessibility to working areas means simple material handling
- Minimal space requirement thanks to compact design
- Bystronic laser sources have high efficiency and low operating costs. This ensures maximum profit per time unit and job
- Fast part and job speeds thanks to fast and process-safe piercing processes CPP (Controlled Pulsed Piercing)
- The clear menu guidance on machine control in Chinese provides very simple operation of the machine

Bystronic: Best choice.

1 Unlimited accessibility
2 Operator panel
3 Cutting head

Bystronic: Best choice

	BySun 3015
Nominal sheet size	3000 × 1500 mm
Maximum simultaneous positioning speed	127 m/min
Maximum axis acceleration	5 m/s²
Operation with touch screen and manual control unit	■

@ webcode ***010109***

Rear view

ByVention

Ideal entry and auxiliary machine. Smallest laser cutting system for standard-sized metal sheets

Customer benefits

- Bystronic technology at an unbeatably low price
- Cut parts are already available during the cutting process
- Easy for any user to operate

Bystronic: Best choice.

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1 Cutting head
2 Control unit with touch screen
3 Perfect view into the machine
4–7 Material flow concept

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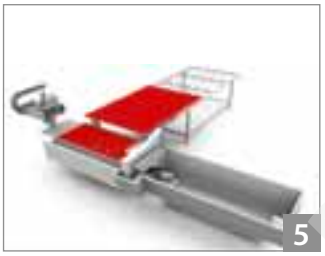
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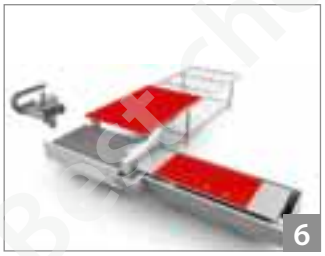
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Bystronic Bystronic

	ByVention 3015
Nominal sheet size	3000 × 1500 mm
Maximum simultaneous positioning speed	140 m/min
Maximum axis acceleration	12 m/s²
Operation with touch screen and manual control unit	■

@ webcode ***010106***

BySprint Fiber 4020

BySprint Fiber

Cuts faster, saves energy and relies on fiber technology

Customer benefits

- Also available in 3015 and 4020 designs. This means that even 4 × 2 m sheet metal can be processed quickly and economically
- Unparalleled high parts production and first-class cutting quality for thin to medium thick sheet metal, depending on laser power
- Changing the nozzle can optionally be automated
- The fiber laser's good energy efficiency means very low power consumption
- Low operating costs since minimal energy is used and no laser gas is required
- High flexibility. Even non-ferrous metals can be easily processed in excellent quality
- Compact design means minimal floor space

Bystronic: Best choice.

1 Unlimited accessibility
2 Optionally available cladding
3 Nozzle changer
4 Cutting head with automatic focus position adjustment

Bystronic Best Choice

	BySprint Fiber 3015	NEW BySprint Fiber 4020
Nominal sheet size	3000 × 1500 mm	4000 × 2000 mm
Maximum simultaneous positioning speed	140 m/min	140 m/min
Maximum axis acceleration	12 m/s²	12 m/s²
Operation with touch screen and manual control unit	■	■

@ webcode ***010201***

NEW

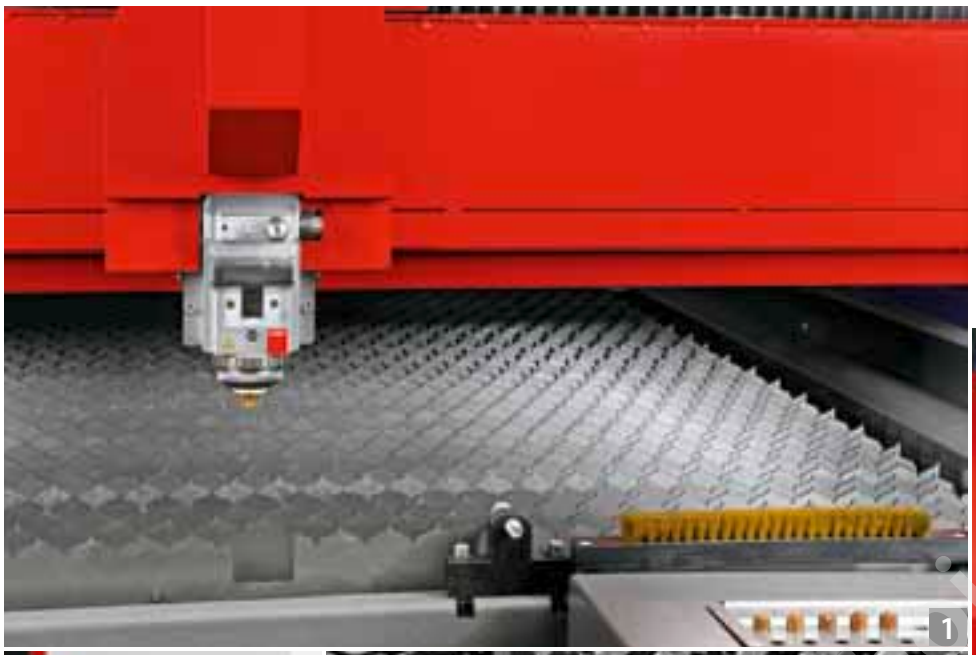
BySun Fiber

Fiber technology in a nutshell

Customer benefits

- Ergonomics, safety, and productivity of the machine are tailored to local needs
- Swiss technology and quality at local prices means first-class return on investment
- The fiber laser's good energy efficiency means very low power consumption
- Low operating costs since minimal energy is used and no laser gas is required
- Minimal space requirement thanks to compact design
- High flexibility: Even non-ferrous metals can be easily processed in excellent quality

Bystronic: Best choice.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1 Cutting head
2 Operator panel
3 Steel balls for simple material handling
4 Workspace lighting

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Bystronic Betrance

NEW

BySun Fiber 3015

Nominal sheet size	3000 × 1500 mm
Maximum simultaneous positioning speed	140 m/min
Maximum axis acceleration	8 m/s²
Operation with touch screen and manual control unit	■

@ webcode ***010202***

Modern sheet metal processing without high-performance software is unimaginable these days. BySoft 7 offers a comprehensive range of functions and is still easy to operate. With BySoft 7, the user can quickly and easily design tailored parts and create cutting plans and bending programs with the push of a button. Furthermore, manufacturing processes are scheduled and monitored efficiently, thus maintaining an overview and finishing jobs quickly and economically.

NEW

BySoft 7

Modular CAD/CAM software with 2D and 3D CAD as well as extensive functions for scheduling and monitoring manufacturing processes

Customer benefits

- Existing drawings and models can be input, edited, and processed easily
- Reduction in parts costs, because BySoft 7 automatically nests parts perfectly. Raw materials are used in their entirety. This also applies to the processing of tubes and profiles
- Cutting plans and bending programs can be perfectly created with the push of a button. The correct cutting technology is automatically set and the bending process is automatically simulated and monitored
- Offers comprehensive options for scheduling and monitoring manufacturing processes
- Provides maximum transparency because all machine and job data are always available
- Efficient connection to ERP/PPS systems

ByVision is the high-performance controller developed by Bystronic for laser and waterjet cutting systems and pressbrakes. It stands for the highest productivity and is optimally tailored to Bystronic machine systems. ByVision ensures, as no other controller can, that the features of the machine system are used optimally.

ByVision

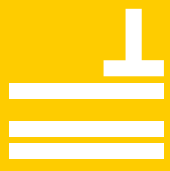
Simple, user-friendly and fast controller for laser and waterjet systems as well as pressbrakes (Hämmerle 3P, Xpert, and Xcite)

Customer benefits

- Flexible high-performance controller for more productivity and profitability
- Intuitive operator guidance via touch screen
- An integrated maintenance schedule for the machines ensures their optimal availability
- Fast transfer rates
- Tools for troubleshooting
- Can be switched to many languages
- OPC interface for preparing structured machine and operating data

Bystronic: Best choice

COLLECTION **AUTOMATION**



Requirements and solutions

Automation solutions optimize material flow, improve machine use and increase work and process reliability. The building blocks are modular so that the degree of automation can be adapted at a later date. The solutions range from simple handling to fully automatic operation.

Automation requirement profile

* Functionality in combination with ByTrans/ByTrans Extended

** Functionality in combination with ByTrans Extended and ByTower

Bystronic. Best choice.

Automation configuration

Laser cutting system	Automation systems						
	Byloader	ByTrans	ByTrans Extended	ByTower	BySort	BytransLine BytransCross	ByCell
ByAutonom 3015	■	■	■	■	■	■	■
ByAutonom 4020	■					■	■
BySpeed Pro 3015	■	■	■	■	■	■	■
BySprint 3015	■	■	■	■	■	■	■
BySprint Pro 3015	■	■	■	■	■	■	■
BySprint Pro 4020	■					■	■
Bystar 3015	■	■	■	■	■	■	■
Bystar 4020	■					■	■
Bystar 4025	■					■	
Bystar L 4025	●					●	
ByJin 3015		■	■				
ByJin 4020							
BySun 3015							
ByVention 3015							
BySprint Fiber 3015	■	■	■	■	■	■	■
BySprint Fiber 4020	■					■	■
BySun Fiber 3015							

■ Available in combination with the corresponding laser cutting system
● Upon request

Not all products listed in this brochure are available in all countries.

ByTrans, ByTrans Extended

Intelligent solution for loading and unloading of laser cutting systems

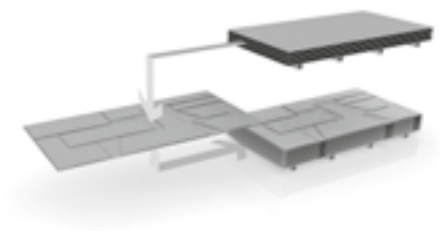
Bystronic. Best choice.

Customer benefits

- Fast job processing. A complete loading and unloading cycle takes 60 seconds
- Much higher machine utilization for only a slightly higher investment
- The ByTrans Extended design has not just one but two cassettes, thereby making the machine system even more autonomous
- Flexible use. Not just for storage/return transfer but also for large parts removal as well as the preparation of plastic protective separators, which are placed between the metal sheets by the system (ByTrans Extended)
- Entry into lightly-manned parts production

ByTrans 3015

One cassette for raw material

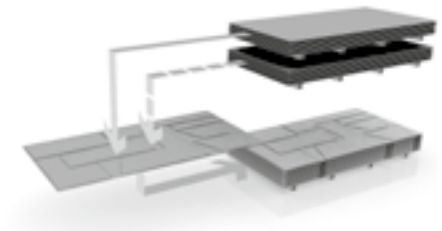


Cassette 1: raw material

Storage: cut sheets

ByTrans 3015 Extended

Two cassettes for raw material



Cassettes 1 and 2: raw material

Storage: cut sheets

Large parts and sheet skeletons separated

Cassette 1: raw material

Cassette 2: large parts storage

Storage: scrap

Cut sheets with plastic sheet separators

Cassette 1: raw material

Cassette 2: intermediate storage

Storage: cut sheets with plastic sheet separators

Bystronic. Best choice.

	ByTrans 3015	ByTrans 3015 Extended
Nominal sheet size	3000 × 1500 mm	3000 × 1500 mm
Load sheet metal thickness	0.8–25 mm	0.8–25 mm
Unload sheet metal thickness	0.8–25 mm	0.8–25 mm
Maximum sheet weight	890 kg	890 kg
Number of cassettes	1	2
Large parts removal	no	yes
Insert protective separators	no	yes

@ webcode ***0501***

ByTower

Compact storage tower for lightly-manned production

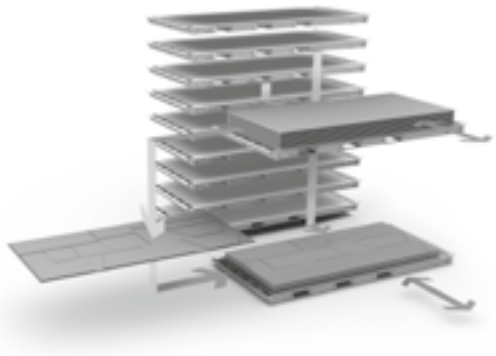
Bystronic: Best choice.

Customer benefits

- The shuttle table is automatically loaded and unloaded and the entire system significantly better utilized
- Frequently used materials are immediately available because they are stored directly next to the machine
- Lightly-manned parts production can be realized to a high degree
- The shuttle table is still freely accessible
- Extraordinarily flexible and simple to operate. The storing of raw material and removal of processed sheets is easy using a fork lift truck. The return transfer of cut sheets is automatic by the system

ByTower + ByTrans 3015

One cassette for raw material

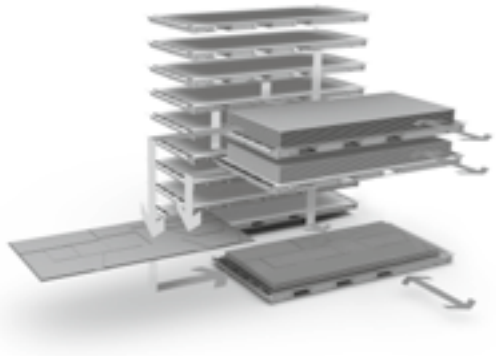


Cassette 1: raw material

Storage: cut sheets

ByTower + ByTrans 3015 Extended

Two cassettes for raw material or intermediate storage



Cassette 1: raw material

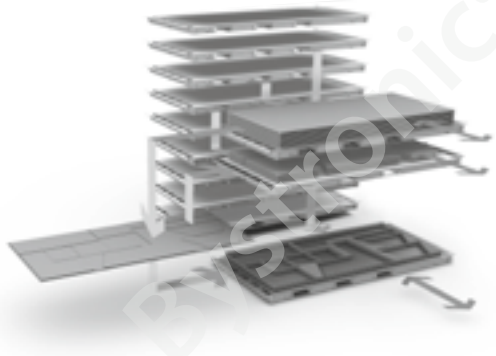
Cassette 2: raw material

Cassette 2: intermediate storage

Storage: cut sheets

Storage: cut sheets with plastic sheet separators

Large part removal and intermediate storage



Cassette 1: raw material

Cassette 2: large parts storage

Storage: scrap

Bystronic. Best choice.

	ByTower 3015
Nominal sheet size	3000 × 1500 mm
Load sheet metal thickness	0.8–25 mm
Unload sheet metal thickness	0.8–25 mm
Maximum sheet weight	890 kg
Number of cassettes	11/8/6
System height	5.6 m/4.5 m/3.8 m

@ webcode ***0502***

Bystronic: Best choice.

BySort

Removes, sorts and stacks laser parts

Customer benefits

- Cut parts are automatically, flexibly and cost-efficiently sorted and stacked
- The machine works autonomously and economically because parts no longer need to be removed, sorted and stacked by hand
- The shuttle table is still freely accessible
- BySort can be placed in front of or behind the shuttle table

	BySort 3015
Nominal sheet size	3000 × 1500 mm
Recommended sheet metal thicknesses (sorting)	1.5–10 mm
Minimum part size	150 × 150 mm
Maximum part size	1800 × 1200 mm
Maximum part weight	50 kg

@ webcode ***0503***

Byloader

Proven solution for efficient sheet metal handling

Bystronic. Best choice.

Customer benefits

- Sheet metal is automatically, quickly and reliably loaded onto the shuttle table
- The laser cutting system is utilized better
- Simple operation via machine control

	Byloader 3015	Byloader 4020	Byloader 4025
Nominal sheet size	3000 × 1500 mm	4000 × 2000 mm	4000 × 2500 mm
Load sheet metal thickness	0.8–25 mm	0.8–25 mm	0.8–25 mm
Maximum sheet weight	890 kg	1580 kg	1980 kg

@ webcode ***0504***

BytransLine

BytransCross, BytransLine

Flexible solution for the loading and unloading of laser cutting systems

Customer benefits

- Highest flexibility regarding material flow and layout
- Simple incorporation of up to two laser cutting systems
- Interface for various storage systems

	BytransCross, BytransLine 3015	4020	4025*
Nominal sheet size	3000 × 1500 mm	4000 × 2000 mm	4000 × 2500 mm
Load sheet metal thickness	0.8–25 mm	0.8–25 mm	0.8–25 mm
Unload sheet metal thickness	0.8–12 mm (–25 mm**)	0.8–12 mm (–25 mm**)	0.8–12 mm (–25 mm**)
Maximum sheet weight	890 kg	1580 kg	1980 kg

* only BytransCross

** with special cassette

@ webcode ***0505***

BycellCross

Fully automatic storage system for the lightly-manned 24-hour production with laser cutting

Bystronic: Best choice

Customer benefits

- Maximum availability of the laser cutting system with the help of a fully automated and compact processing cell with material management
- Lightly-manned multi-shift operation with best cost efficiency
- Up to two laser cutting systems can be incorporated
- Flexible layout design thanks to modular elements

	BycellCross 3015	BycellCross 4020
Nominal sheet size	3000 × 1500 mm	4000 × 2000 mm
Load sheet metal thickness	0.8–25 mm	0.8–25 mm
Unload sheet metal thickness	0.8–12 mm (–25 mm*)	0.8–12 mm (–25 mm*)
Maximum sheet weight	890 kg	1580 kg
System height	4400–8200 mm	4400–8200 mm

* with special cassette

@ webcode ***0506***

Bystronic Collections

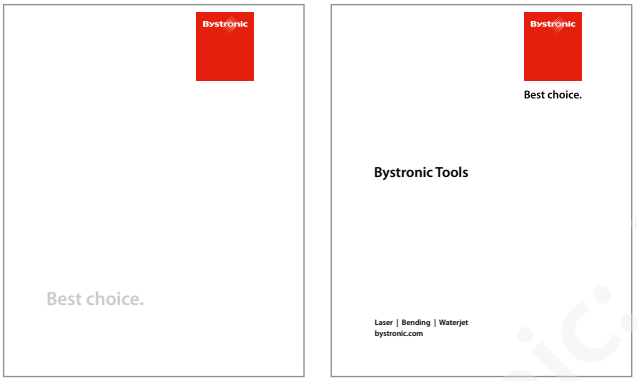


Image brochure

Tool catalog

Bystronic. Best choice.

Not all products listed in this brochure are available in all countries.

This brochure may show parts that are not standard equipment, but are available as options. For the better visibility of machine details, some safety covers may have been opened or removed for these pictures. The right to make changes to dimensions, construction and equipment is reserved. For technical data, see the separate data sheets.

ISO-9001-certified

Best choice.

COLLECTION **LASER**

bystronic.com

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