sermas

BILLET SAWS

BS-E SERIE

A range of band-saws developed for aluminum extruders and distributors

PART OF STAS

LET'S TALK ABOUT
YOUR SOLUTION

Our HISTORY

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SERMAS Industrie was created in 1972 and is involved in the Aluminium industry since 1983. Over 130 saws and 200 machines implanted throughout the world. With a SERMAS solution, every kind of Aluminum slab or billet can be sawn, every cast plate can be sliced and milled, every plate can be cut to the requested dimension, all with the highest accuracy and productivity.

1972 Founding
1983 Aluminium Industry
2019 Part of STAS

STAS

Since 1989, in Saguenay, Quebec, Canada, we have been providing aluminum producers around the world with innovative and technologically advanced solutions that meet the highest demands of the industry. We have delivered more than 1500 equipment units and thousands of projects in more than 40 countries, making us a key supplier.

1989 Founding
2012 200th ACD
2017 STAS Inc.
2018 Acquisition O.D.T. TECHNOLOGIES
2019 Acquisition SERMAS

Our global footprint and network of partners

STAS + **SERMAS** maintain a global presence in all strategic regions where aluminum is produced.

To be closer to our customers, with our joined forces, long and recognized expertise and dedicated team committed to your success, we bring a key added value to your production.

LEGEND

- CLIENTS STAS
- CLIENTS SERMAS
- STAS HEAD OFFICE
- SERMAS HEAD OFFICE
- STAS – SERMAS SERVICE CENTER

Our technology

Efficient and flexible sawing line

RELIABLE & LOW MAINTENANCE

PLC & HMI CONFIGURATION

Allen-Bradley · Schneider Electric · SIEMENS

sermaLOGIX®

SOLUTION 4.0 AVAILABLE

OPERATION FRIENDLY

CHIPS MANAGEMENT

SCIES À BILLETTE

BS-E SERIE

Technical Data

	BS-E Serie		BS-E500	BS-E700	BS-E900	BS-E1100
MAIN CHARACTERISTICS	**Product Type**		Round – Square – Rectangle - Tube	Round – Square – Rectangle - Tube	Round – Square – Rectangle - Tube	Round – Square – Rectangle - Tube
	Cutting Capacity (mm)		500 x 500 (20’’x 20’’)	700 x 700 (20’’ x 20’’)	900 x 900 (20’’x 20’’)	1100 x 1100 (20’’x 20’’)
	Mobile Clamp Stroke (mm)		900	900	750	750
	Blade Motor - Power(kW)		18.5	18.5	22	30
	Cutting Speed (m/min)		1000 – 3000	1000 – 3000	1000 – 3000	1000 – 3000
	Blade Dimensio		34 x 1.1	34 x 1.1	41 x 1.3	54 x 1.3
	Blade Type		Carbide / Bi-Metal	Carbide / Bi-Metal	Carbide / Bi-Metal	Carbide / Bi-Metal
	Footprint (mm)		5650 x 2250(1)	5850 x 2250(1)	7050 x 2250(1)	8000 x 2250(1)
	Weight (kg)		8500	9500	12000	13000
MAIN FEATURES	**Cut to length**	**Mobile Clamp**	●	●	●	●
		Motorized conveyor & coder	○	○	○	○
	Chips Evacuation	**Chips Conveyor**	●	●	●	●
		Chips Suction System Ready	○	○	○	○
	HMI & PLC Type		Siemens ou Allen Bradley	Siemens ou Allen Bradley	Siemens ou Allen Bradley	Siemens ou Allen Bradley
	Lubrification		Micro spraying **sermaLUBE®**	Micro spraying **sermaLUBE®**	Micro spraying **sermaLUBE®**	Micro spraying **sermaLUBE®**
	Industry 4.0 Solution		**sermaLOGIX®** Ready(2)	**sermaLOGIX®** Ready(2)	**sermaLOGIX®** Ready(2)	**sermaLOGIX®** Ready(2)

1) Saw only without conveyor

Technical Data

	BS-E SERIE	BS-E500	BS-E700	BS-E900	BS-E1100
OPTIONS	Loading Table	○	○	○	○
	Upstream Conveyor	○	○	○	○
	Downstream Conveyor	○	○	○	○
	Short-Billet Stacking Device	○	○	○	○
	Long-Billet Bundling Device	○	○	○	○
	Strapping system sermaSTRAP®	○	○	○	○
	Chips Suction System sermaCHIPS®	○	○	○	○
	Laser Marking sermaMARK®	○	○	○	○
	Pin Marking sermaMARK®	○	○	○	○
	Weighing System	○	○	○	○
	BSI / Billet Surface Inspection by STAS	○	○	○	○
	Ultrasonic Billet Inspection System	On demand	On demand	On demand	On demand
	Blade for BandSaw sermaBLADE®	Carbide Blades: SIMPLESET® SUPERSET® RECTISET® Bi-Metal Blades	Carbide Blades: SIMPLESET® SUPERSET® RECTISET® Bi-Metal Blades	Carbide Blades: SIMPLESET® SUPERSET® RECTISET® Bi-Metal Blades	Carbide Blades: SIMPLESET® SUPERSET® RECTISET® Bi-Metal Blades
	Lubricant for Micro-Spraying sermaCUT®	sermaCUT 20® sermaCUT 37M®	sermaCUT 20® sermaCUT 37M®	sermaCUT 20® sermaCUT 37M®	sermaCUT 20® sermaCUT 37M®

Description main features

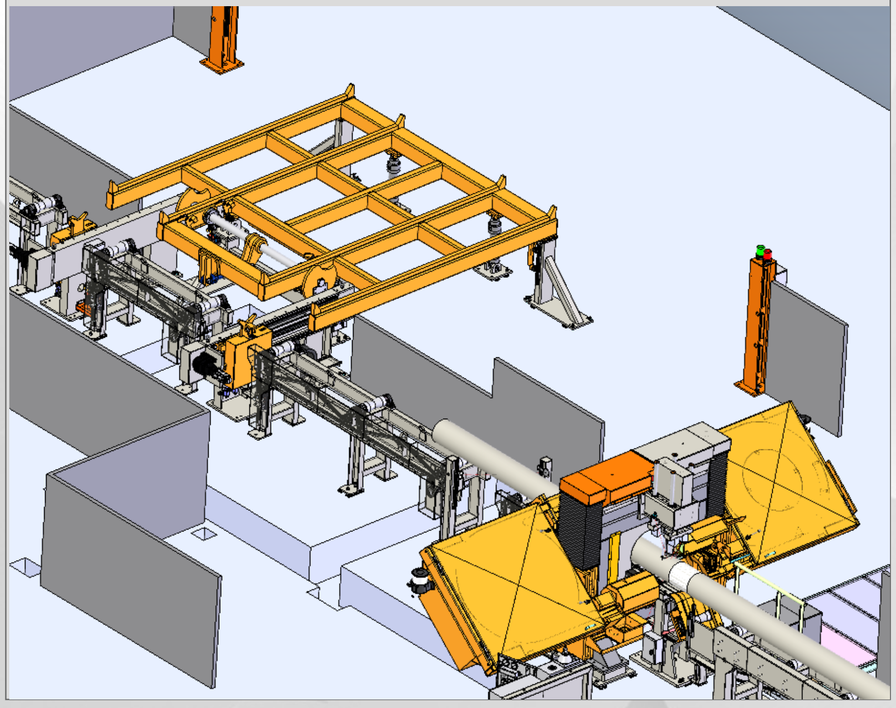
Cut to Length	**Mobile Clamp** A mobile clamp ensures the product positioning during the cut. This mobile clamp installed upstream of the saw and a fix clamp downstream of the saw maintain the position of the product during the cut.	**Motorized Conveyor + Coder** An alternative configuration is to use a coder measuring the movement of the product and a biconical roller conveyor motorized with servomotor to position the product accurately.
Chips Evacuation	**Chips Suction Ready** Saw designed for an efficient chips evacuation using a SERMACHIPS Chips Suction System. Saw equipped with proper casing, doors and gaskets to guide the chips toward the suction system.	**Chips Conveyor** A motorized chips conveyor is installed beneath the saw to collect the chips. The saw is equipped with steel plate guiding the chips into the conveyor.
PLC & HMI Brand *Hardware and associated software for HMI, PLC & VSD*	**Siemens**	**Allen Bradley / Rockwell**
Lubrification	**Lubrification** **sermaLUBE®** micro spraying system (MLQ : Minimal Lubricant Quantity) especially developed for aluminum sawing applications with our **sermaCUT®** lubricants.	
4.0 Industry	**sermaLOGIX® ready** Our **sermaLOGIX®** 4.0 solution is pre-installed and wired in order to allow remote assistance and also for customer trial of the application. The customer can fully use the SermaLOGIX application only by activation of the Licence.	

Description Main Options

Loading

Loading Table

The loading table is a storage/buffer table where the customer can place the billets waiting for cutting. The billets can be manually or automatically transferred onto the upstream conveyor.



Upstream Conveyor

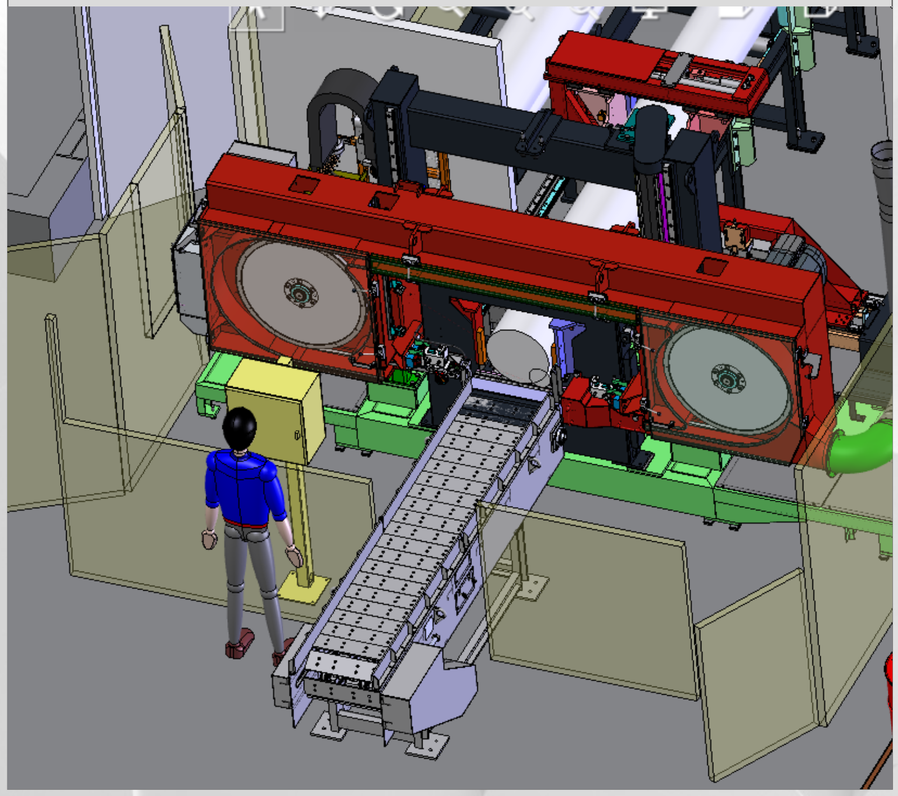
It is a robust roller conveyor upstream of the saw. The conveyor configuration can be adapted to the product dimension, roller type and can be equipped with a motor.

Description Main Options

Unloading / Evacuation

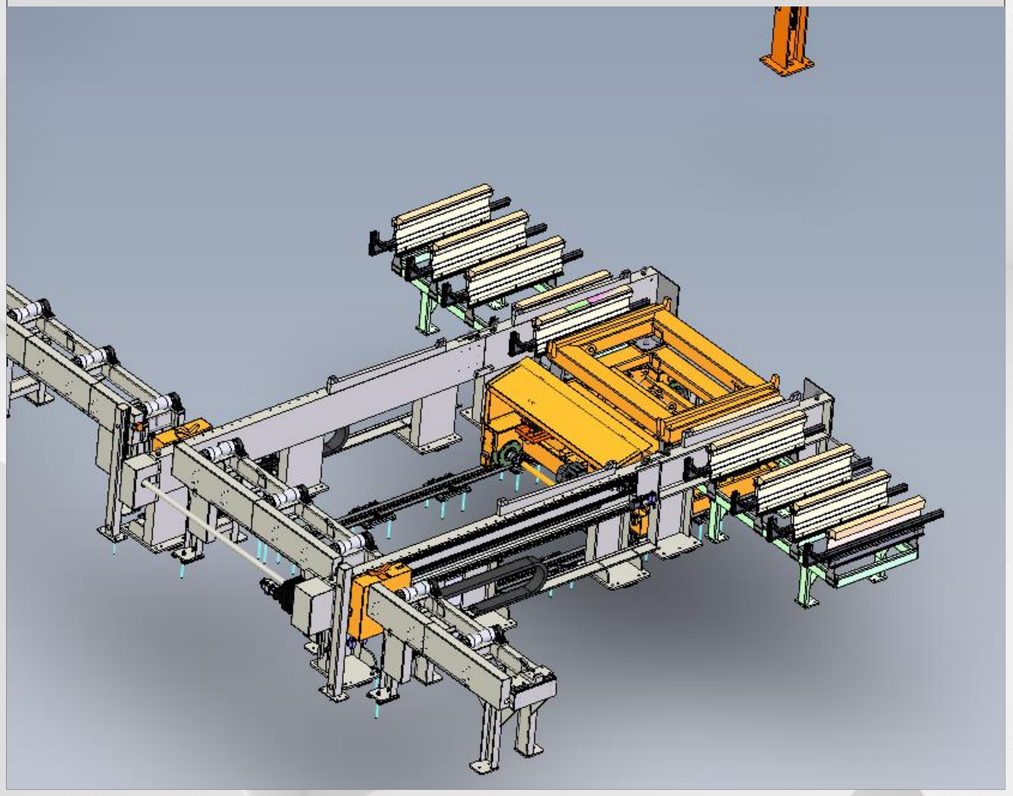
Downstream Conveyor

A downstream conveyor to evacuate the cut product and adapted to the customer need can be delivered. The conveyor will be adapted to the cut product characteristics (Product Min/Max length), the machine configuration and to the unloading required. (Cylindric or biconical roller, metal slat conveyor, …)



Solution for billet bundle and stacking

We can offer custom made solution for long billet bundle, short billet stacking or any customized cut product handling system.



Description Main Options

Traceability / Control

Pin Marking sermaMARK®

We provide a Pin Marking system connected to the machine PLC for your product traceability. We can mark your product automatically with your chosen template.

Laser Marking sermaMARK®

For an increased traceability solution, we provide laser marking system. This system, connected to the machine, can perform complex marking (Datamatrix, QR Code, Logo,…). Our laser marking solution is integrating operator safety solutions compliant with the highest standards.

Weighing System

We can integrate a weighing system for bundle or single product weighing. This system is connected to the machine PLC and information can be marked, print or stored in database for traceability.

Sticker Printing System

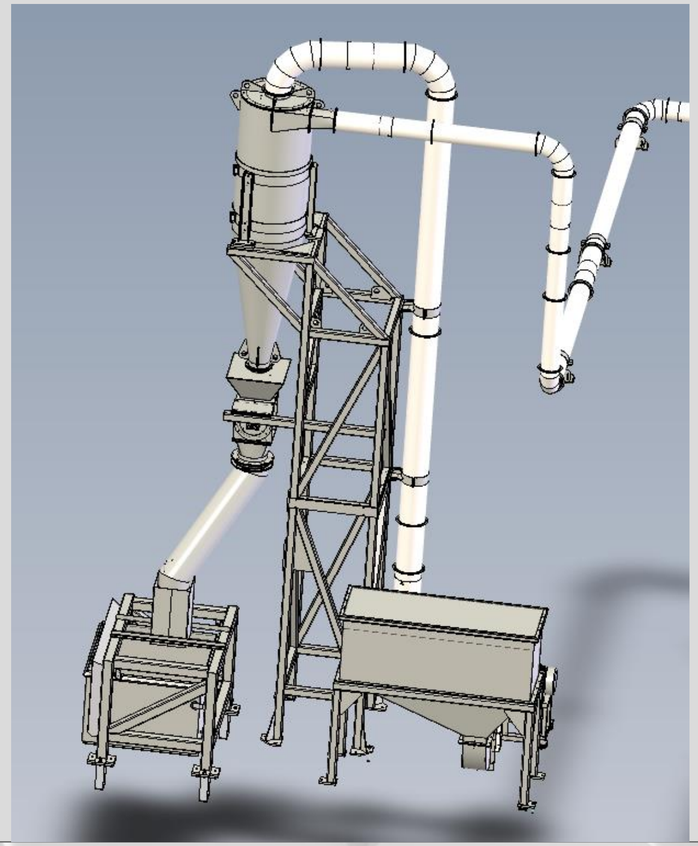
The sticker printing system can be used to print the product or product bundle characteristics (alloy, dimension, weigh, logo,…) automatically with information from the machine PLC using the customer template.

Description Main Options

Chips Management sermaCHIPS®

Chips Suction System

We can provide chips suction system adapted to the machine and customer plant.



Chips Briquetting System

We can provide chips briquetting system cconnected to the saw to increase the value of your chips. (Reduced chips volume for better handling, increased % of recovery when remelting).

Other Customized Options

Other Options on demand

Billet Surface Inspection - BSI by STAS

The BSI is a nondestructive Inspection system that control the outer surface of the billet and identify casting defects.

Strapping System sermaSTRAP®

This system is made to strap the bundle of cut billets. It is custom made and adapted to the final product dimensions (short or long billet), the requested strap material (steel or PER) and the operation type. (auto or manual)

Ultrasonic Inspection System

The Ultrasonic Inspection system is a nondestructive Inspection system that control the billet and identify defects. This system is custom made and adapted to the customer specification.

Crops evacuation and sorting by alloys, specific handling system,…

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BILLET SAW

BS-E500 Serie

A range of band-saws developed for aluminum extruders and distributors

SERMAS BS-E500 *Basic Pack*

DESCRIPTION

- ✓ **BS – E500 Basic configuration**
- ✓ **Chips Conveyor**

SERMAS BS-E500 *Eco Pack*

DESCRIPTION

- ✓ **Basic pack**
- ✓ **Loading Table**
- ✓ **Upstream Conveyor 5m**
- ✓ **Downstream Conveyor 2,5m**

SERMAS BS-E500 Smart Pack

DESCRIPTION

- ✓ **BS – E500 Aspi Configuration**
- ✓ **Loading Table**
- ✓ **Upstream Conveyor 5m**
- ✓ **Downstream Conveyor 2,5m**
- ✓ **Pin Marking System**
- ✓ **Chips Suction System**

SERMAS BS-E500 Pro Pack

DESCRIPTION

- ✓ **BS – E500 Bi-Conical Configuration**
- ✓ **Loading Table**
- ✓ **Crops Evacuation**
- ✓ **Upstream Conveyor 5m**
- ✓ **Pin Marking System**
- ✓ **Downstream Conveyor 7m**
- ✓ **Long Billet Unloading table**
- ✓ **Chips Suction System**

About us
sermas

CUSTOMIZED STUDY

to propose adapted solution to our customers

From simple standalone solution to fully automatic sawing line including marking, weighing, strapping,…

TECHNOLOGICAL INNOVATION

to support the transition of our customer toward 4.0 industry

We provide solution to monitor your process, log key data, support your maintenance & display real-time KPIs

TECHNICAL SUPPORT

Predictive & Curative Maintenance by SERMAS Qualified Expert

Thanks to our Service Center all-over the world and our expert, we can provide technical assistance in short time

PREMIUM CONSUMABLES

to guarantee maximum performance of your equipment

Our Sermas Blade and Lubricant product line is developed to ensure the best performance on your Sermas equipment.

SPARE PARTS LONG TIME AVAILABILITY

for optimized maintenance

Thanks to our Service Center we can store locally and deliver in short delay your spare parts.

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Provided by SERMAS Sales team

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WHY SERMAS

APPROACH

Customers' based approach – adapted to your needs

EXPERTISE

Expertise recognized **internationally**

DEDICATION

49 years dedication to **aluminium**

IMPROVEMENT

Continuous improvement

ROI

Focused on Return On Investment

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PARTIE INTÉGRÉE DE

STAS