



# **GESTRA**

25 YEARS | 1992 - 2017



***Effective splitting of natural stone***

# Dear customers,

My name is Bohumil Vašíček and I am a founder of GestraCZ. I would like to share some information which you won't find in our catalogue.

The headquarters of our company is located in Eagle mountains in the Czech Republic, in the wilderness of one of the picturesque valleys in the country, along the river Olešenka.

I was a co-founder of Gestra, which was established in 1992 to develop stone splitting machines and continued manufacturing from the original German company Porsfeld. We've since begun our development activities by introducing design innovations in our production process. In 1993, we manufactured the biggest stone splitting machine in the world. This was the impulse which led us to continue to refine our machines to provide complex processing of stone by splitting, from large blocks to the smallest paving stones.

In subsequent years, we have learned with our clients how to create the optimal projects for their operation. I am glad that our clients continue to return to us to further develop their manufacturing technology.

As time has passed, my entire family has joined in the work of the company. Now my oldest son is the CEO of the company. Since 2007 Gestra CZ has been in fully owned by our family. This fact, together with the responsibility of our entire staff, ensures the stability of our company necessary for future innovations in technology. When you purchase our stone splitting machine, you became „part“ of our company. Our objective is not to sell machines at any cost, but to supply machines that fully satisfy our customers needs.

We look forward to personal cooperation with you.



Bohumil Vašíček  
founder



# We split stones from around the world

Gestra stone splitters are developed for the processing of hard rocks like granite, gabbro or basalt, therefore they can easily process all splittable rocks from around the world. Some examples are shown on the map.



# Why choose Gestra stone splitter?

## EFFICIENCY

Our goal is to produce MACHINERY that will increase performance while reducing costs in customer operation.

One of the proofs is that **GESTRA manipulators**, due to their sophisticated construction, kinematics and handling power, have no other competition and significantly facilitate and accelerate the stone processing process.

## UNIQUE EQUIPMENT

Unique equipment contributes to efficient production and long service life.

The splitters are equipped with such a **hydraulic system**, which is developed and designed specifically for splitting stone. It is characterized by high power while maintaining the speed and ability to process hard rocks. It is exclusively used in GESTRA splitters.

## LONG DURABILITY

The sophisticated robust construction and quality components used guarantee long durability of GESTRA machines.

The proof that we are serious about the machine durability is that we provide all the splitters with a **cooling unit**. This extends durability of the hydraulic aggregate, which is the heart of the stone splitter.

## SMART DESIGN

The optimal positioning of controls on splitters and on control panels enables efficient machine attendance.

The ergonomics of the paving stone splitting machine allows, among other things, **operation and manufacture while sitting**, which contributes to greater safety, higher performance and better quality of finished products.

That which others consider to be special equipment, is standard for us. The balance of strength, speed and efficient consumption in our machines guarantees effective production.





**Unique hydraulic system**  
the cast-iron radial pump with continuous control ensures balanced splitting power and output



**Backward stroke height control and Table hardness hydraulic setting**  
improves product quality and increases labour safety and also speeds up the production process



**Optional user setting**  
of stroke, pressure, speed...



**Easy machine maintenance**  
speeds up the daily fulfillment of operator's duties



**User friendly system**  
the optimal solution of the location and accessibility of the controls ensures higher safety and comfort of the operator



**Robust construction**  
the construction of the machine contributes to its durability and enables processing of bigger and harder stones



**Floating knives**  
adjust to the stone's shape and to produce a higher quality product



**Possibility of splitting power modification**  
the design of splitting machines allows the change of splitting power according to the type of stone



**Manipulators**  
unique manipulators save time and increase production



**Cooling**  
the cooling system maintains optimal temperature of the hydraulic oil, which also prolongs the durability of the hydraulic system



**Heating**  
the heating unit maintains optimal temperature of the hydraulic system in winter time



**Low power consumption, kW**  
low power consumption system reduces production operational costs



**The safety**  
of the machine corresponds to the safety standards required by the European Union



**Work while in a seated position**  
minimizes the risk of injury, lowers the fatigue level of the operator, and allows for easier handling of rock



**Exhaust system**  
the frame of the splitter allows direct connection to the dust exhaust system, which reduces dust to improve air quality in the workplace



**Double hand operational system**  
to improve operator safety

# What you can produce with Gestra splitters

Our machinery can be used to produce the entire range of split stones, from all types of paving stones, facing stones, veneers, kerbstones, smaller building stones up to large building blocks. The split face is of higher quality thanks to the special characteristic of the Gestra hydraulic system.



**Paving stones**  
all sizes



**Building stones**  
all sizes



**Building blocks**  
up to 1,2 m height



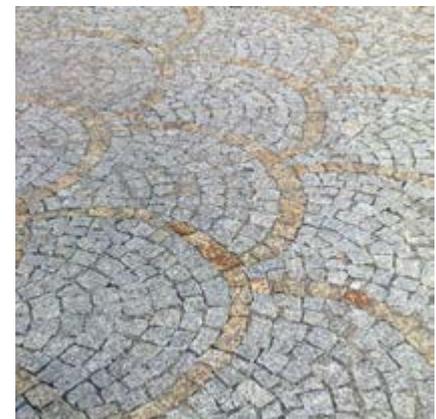
**Veneers**  
various sizes



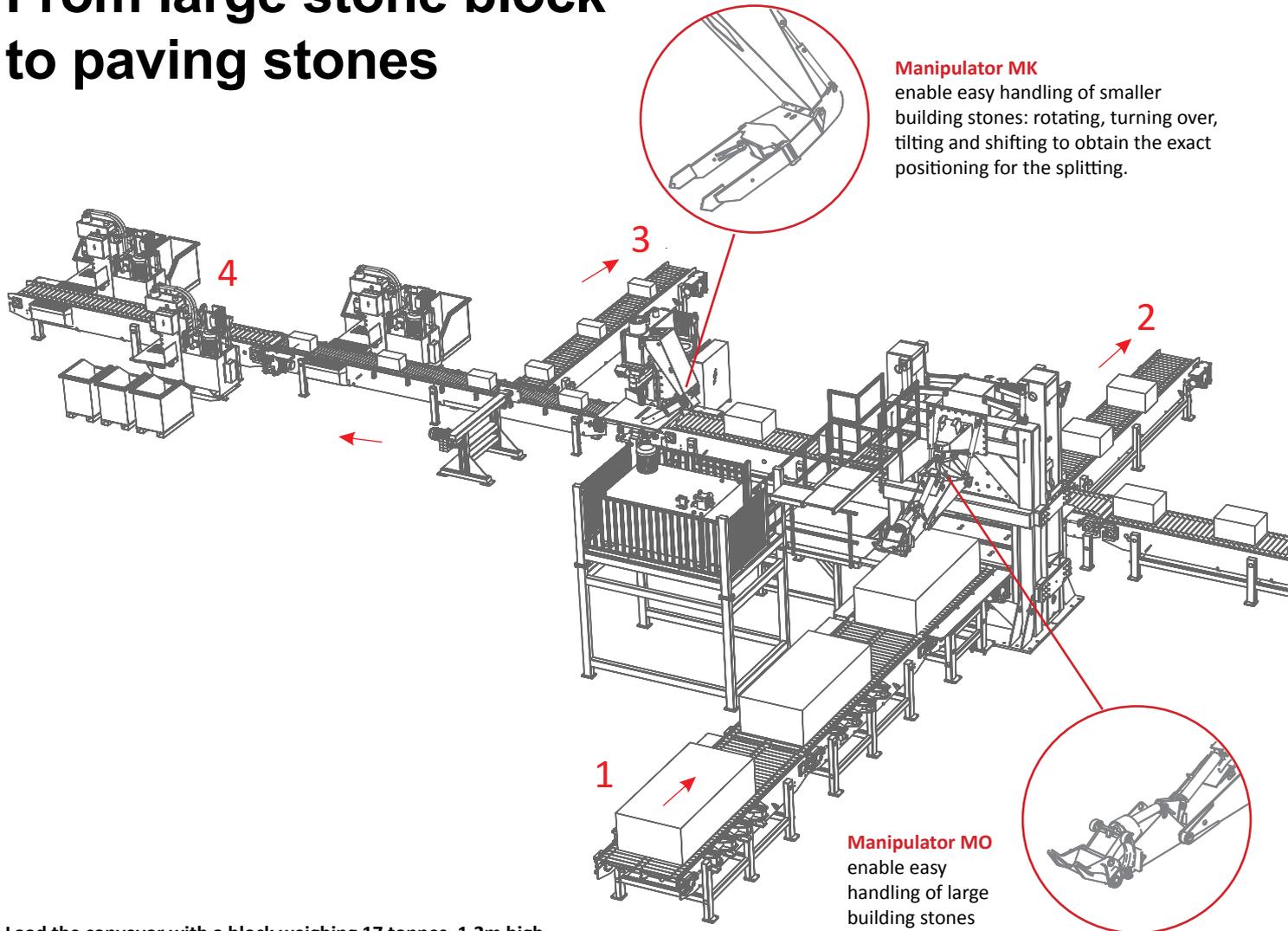
**Sawn-split products**  
all sizes

# Examples of split products utilization

The stone is very durable natural building materials with exceptionally long lifetime. It is used both in the construction of houses, walls, retaining walls and paving of roads, streets and free areas. Very common is utilization for stabilization of slopes, riverbeds and in landscaping.



# From large stone block to paving stones

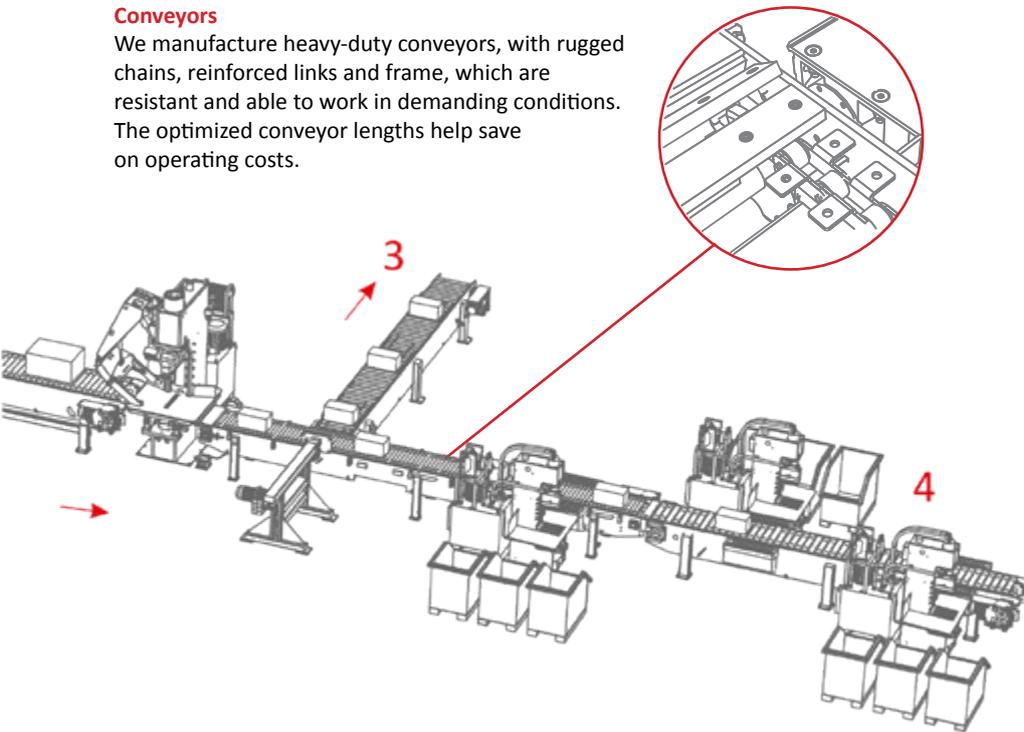


Load the conveyor with a block weighing 17 tonnes, 1.2m high and 1.8 m wide (1), then split it into small building stones (2). You can then use these to build supporting walls, river flow control structures etc.

Or you can use the SLG13 (15) stone splitting lines to make smaller building stones (3) and paving stones (4) from those blocks. From large stone blocks to paving stones, with just one load on one splitting line.

### Conveyors

We manufacture heavy-duty conveyors, with rugged chains, reinforced links and frame, which are resistant and able to work in demanding conditions. The optimized conveyor lengths help save on operating costs.



### Gestra CZ stone splitting lines

The elaborate conceptual design allows maximum power output and effective work organization. Our target is to minimize handling and labour costs.

- Unique manipulators
- Heavy-duty conveyors
- High performance splitters
- Auxiliary devices to simplify the operation of the entire line
- Waste removal with various conveyor systems
- Designed and manufactured for 24/7 continuous operation in three shifts

SLP

# SLP stone splitting line for large blocks

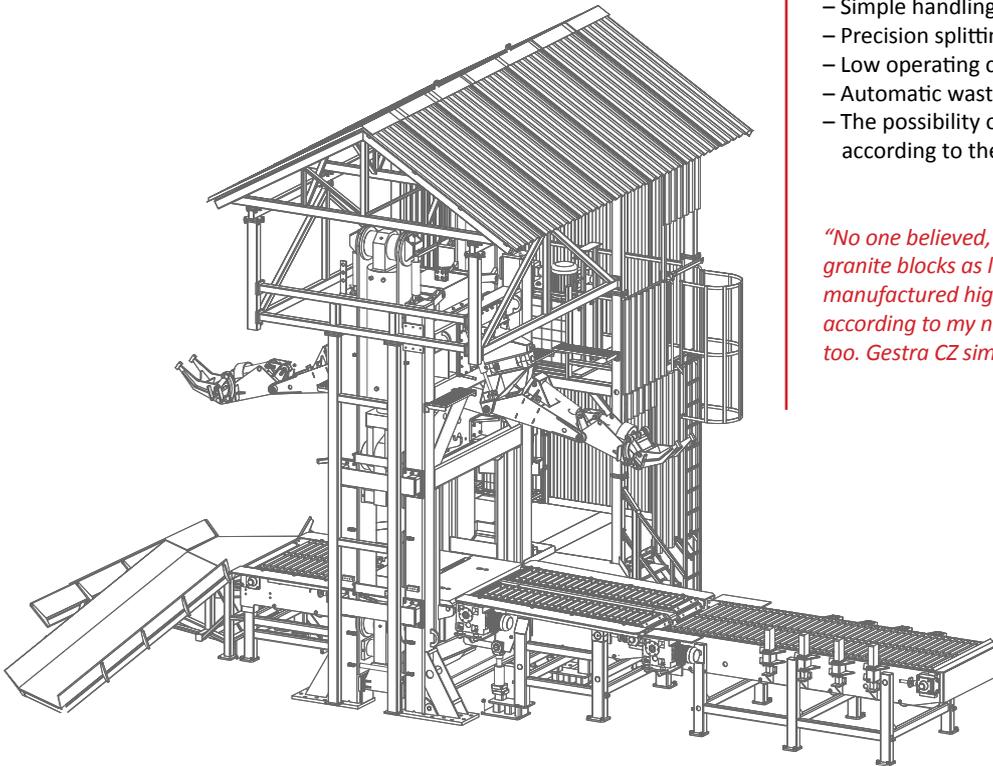
The line is supplied with manipulators, which enable easy handling of heavy blocks. Rotating, turning over and also sorting of complete products.

The line is completed with robust and highly resistant conveyors, capable of handling nearly 20-tonne stone blocks.

- Unbeatable performance
- Simple handling of large blocks
- Precision splitting
- Low operating costs (handling by just one operator)
- Automatic waste disposal
- The possibility of changing the splitter parameters according to the type of your stone

*“No one believed, that I could find a machine for splitting granite blocks as large as 1,8x1,2x3 m. Gestra CZ manufactured highly reliable stone splitting line, exactly according to my needs. And one of the biggest in the world, too. Gestra CZ simply did not let me down.”*

*Torger, Rocks of Norway*



# SLH

## Splitting line for layered stones (horizontal splitting)

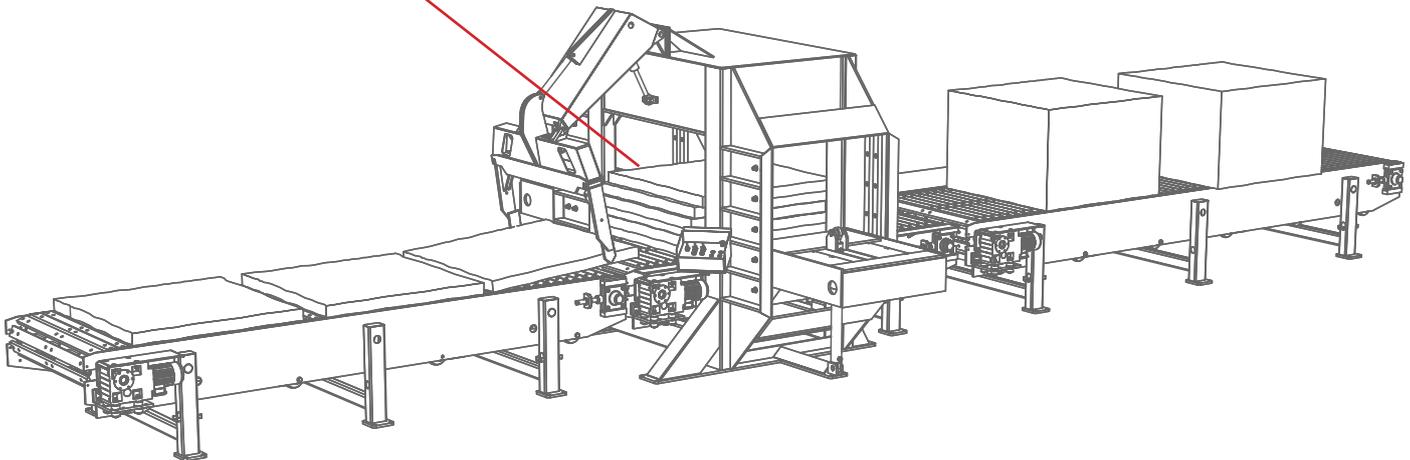


The splitting knife is fitted horizontally

Using state-of-the-art technology, this stone splitting machine is capable of accurate splitting layered stones into slabs.

Irregularity of the blocks is no obstacle. The line can split irregular stones from the quarry, as well as accurately sawn blocks. It is suitable for gneiss, sandstone, quartzite and other sedimentary rocks. The line can be supplemented with smaller splitting machines for additional vertical processing and is easily manipulated via a control panel.

- Variable setting of split layer thickness
- Precision splitting
- High performance compared to manual splitting
- Easy control without the necessity of manually handling heavy stones
- Reliability and long service life

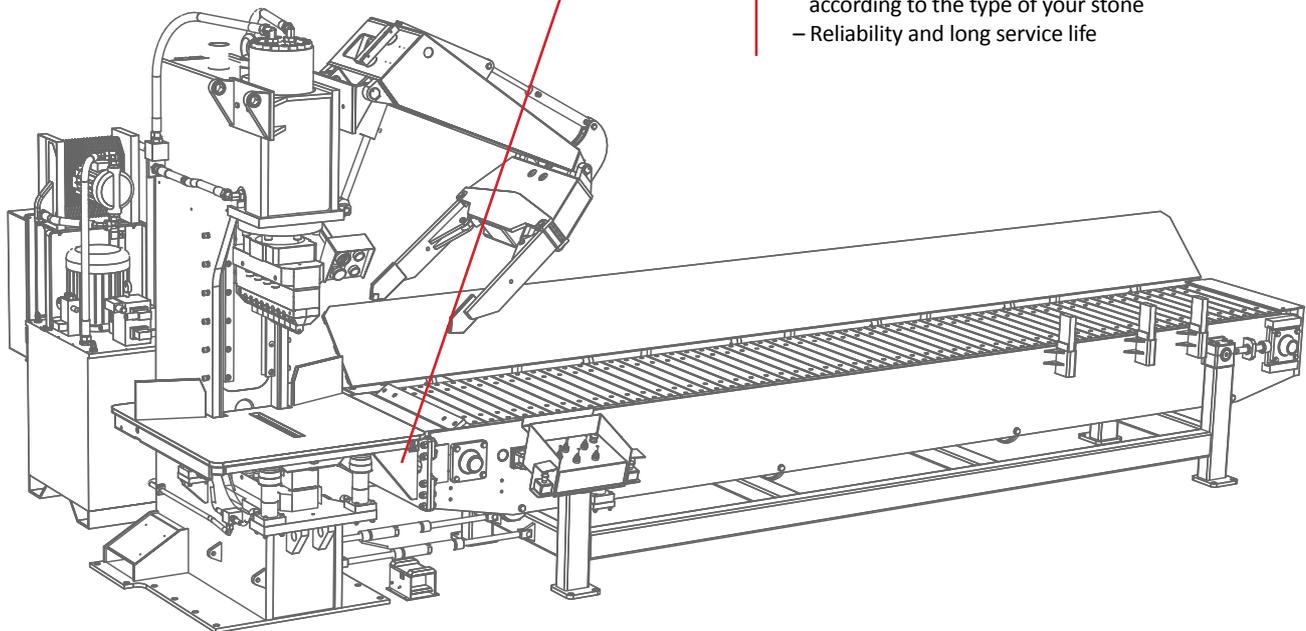
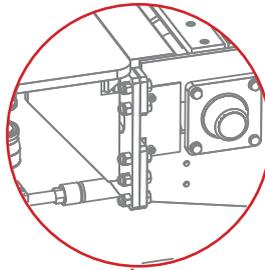


## SLG1

# Splitting line for building stones

The working table is connected  
to the conveyor.

The conveyor decreases together  
with the table to enable splitting  
of long blocks.



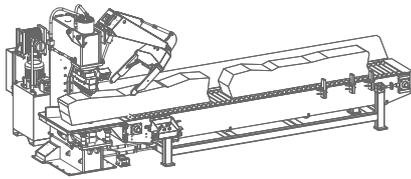
The stone splitting line is somewhat underrated on the global market.

The combination of a robust conveyor and unique manipulator, makes production of building stones fun, particularly if you've previously worked with machines offered by competitors.

- Unbeatable performance
- Simple handling of processed stones
- Precise splitting – of even long blocks
- Low operating costs
- Simple handling by just one operator
- Option to adjust the splitting machine parameters according to the type of your stone
- Reliability and long service life

# CASE STUDY

## Chippewa Stone



### Comparison of our average production (in tones per 8 hours)

	Gestra 45 t	previous splitter 20
Waste	5	
Secondary products	10	
Primary products	30	12

The Gestra stone splitting line increased our production rate by 150 % and, still better, we decreased our production costs.

#### Expansion needs

Before buying Gestra splitting machine, Chippewa Stone used a machine with the similar specifications from an Italian manufacturer. They were satisfied, but needed to expand their manufacturing capacity and decided to test other leading manufacturer of stone splitting machines.

#### New solution

The Gestra splitting machine grabbed their attention. It has a proven track record on the demanding German market. Gestra's business manager visited Chippewa Stone to discuss their needs. The manufacturer then suggested the optimum solution for the production of the construction stones.

#### Unexpected results

The stone splitter operation exceeded all expectations. The SLG1 splitting line, equipped with manipulator and conveyor, was developed to provide the maximum production efficiency. The machine offers intuitive controls, which soon doubled productivity, as compared to previous machines. Thanks to the design of the special hydraulic system, the HSM500x500/150t machine is also capable of splitting stones which no other machine has split before. No detail is spared in the design in order to maximize production efficiency. For example, the length of the conveyor is optimized to reduce production costs, as the stones do not have to be loaded as frequently. Furthermore, thanks to the manipulator and robust design, even very large stones can be loaded, saving costs on manual splitting.



*"This investment was a real help to us, we are more competitive now."*

*Bonnie, Chippewa Stone, USA*

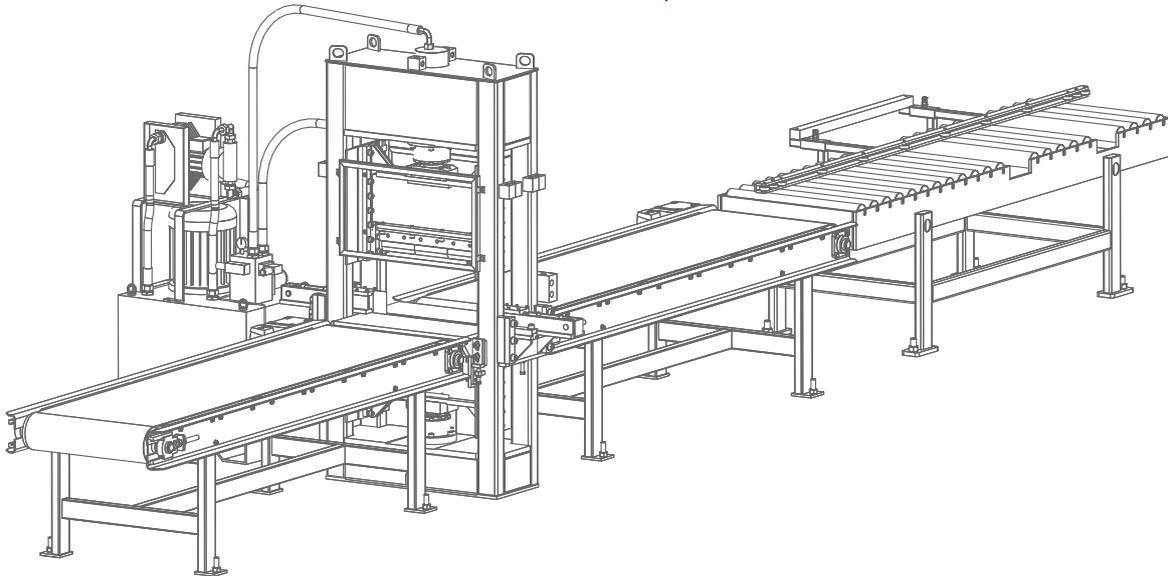
**SLD**

# Splitting line for sawn slabs

**The production line enabling the automatic splitting of sawn slabs.**

Reliability, speed of splitting cycle, simplicity of control and long durability are the main advantages of this line. It is often custom-designed according to customer needs, for example, the width and height of the stone at the entry or final product or according to the required manufacturing capacity.

- Suitable for products of different sizes
- Simple operation using a program and control panel
- Option of supplementing side knives
- Option of supplementing hydraulic shock
- Production line design exactly to fit the customer's needs
- Reliability and long service life



# CUT STONE SPLITTING Automation

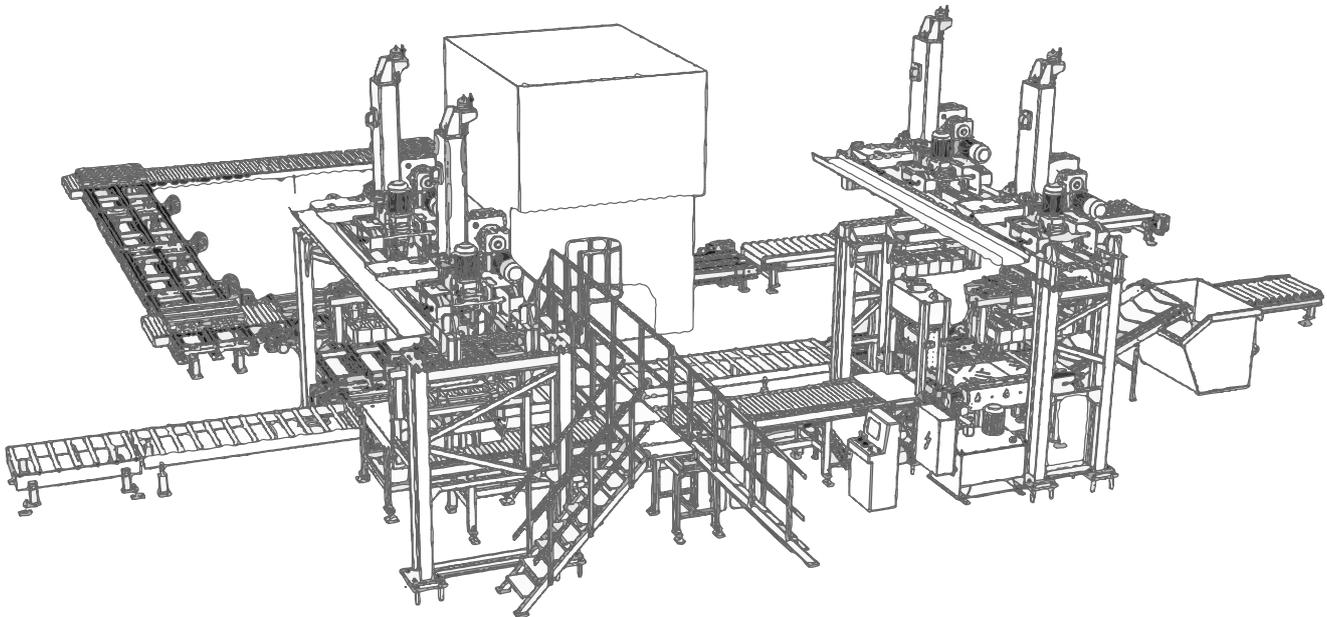
**For several years now, our company has successfully manufactured stone SLD splitting lines with the automatic splitting of cut slabs. Its objective is specifically to reduce workforce expenses and improve performance.**

Stone processing companies now require full automation of the operation - i.e., automatic loading from the slab holder, transport to the splitter, splitting and palletization of the products – all intervention by the operator.

We manufacture fully-automated splitting lines for the processing of concrete blocks. We are also happy to design custom machines for sawn slabs according to your needs. However, there are still a few limiting factors – the irregularity of cut slabs in some ways and the higher purchase price to supply a high-quality and reliable machine.

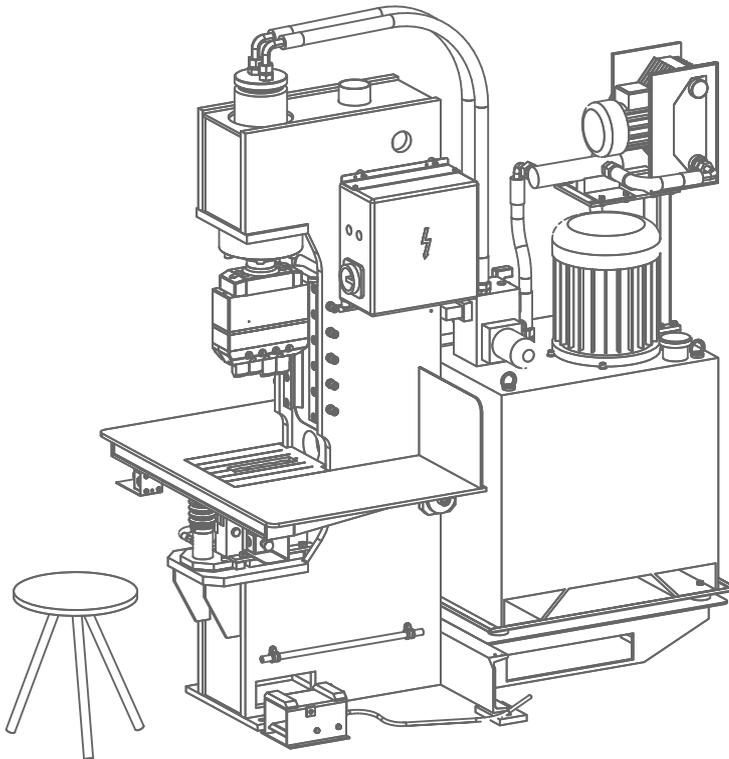
However, the machinery construction allows clients to spread out the investment cost by purchasing the splitting line in stages - from the automatic splitting line to the fully automatic sawn slabs splitting production.

Automation is not an option for the processing of irregular natural stones due to their non-uniform shape.



**HSM**

# Paving stones splitting machine



This machine is suited for the manufacture of paving stones, mosaic and facing stones. Its splitting power characteristics are outstanding thanks to the high quality hydraulic unit with unique splitting characteristic.

Its design enables the operator to sit during work, reducing operator fatigue and increasing performance.

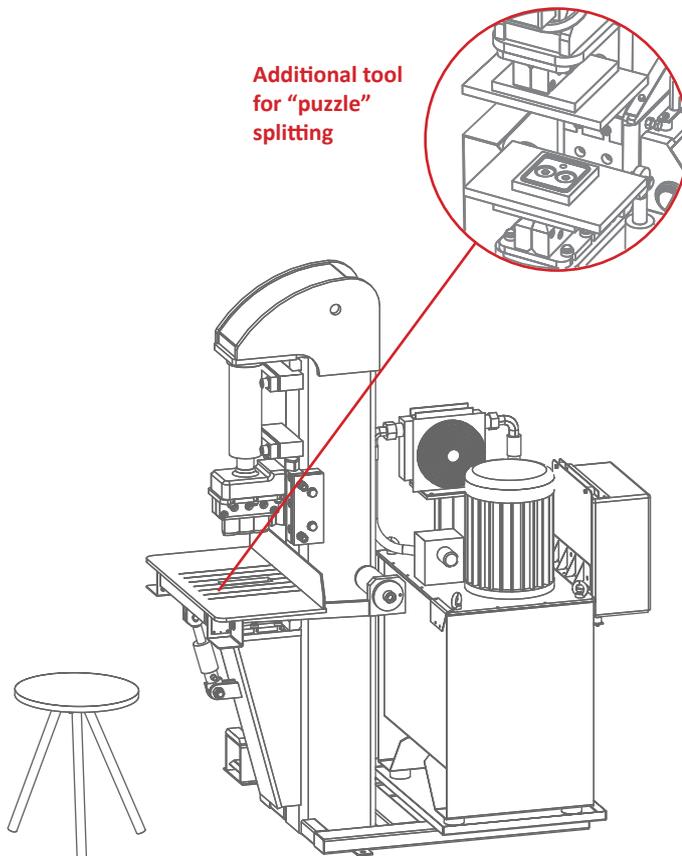
- Unbeatable performance
- Working while seated
- Precision splitting
- Simple handling by just one operator
- Option to adjust the splitting machine parameters according to the stone type
- Low input power (up to 26% lower than 7.5 kW motor machines)
- Reliability and long service life

*"I have been splitting granite for 20 years and never ever I sat behind the controls of a more powerful and reliable splitter. What's more, splitting from a sitting position saves my back and I can make more money than when working standing up"*

*Janek, splitter operator, Poland*

# SHS

## Stone splitter for stonemasons

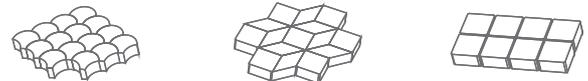


Additional tool  
for “puzzle”  
splitting

This is the smallest stone splitter in the Gestra CZ production range. It is designed specifically to process the waste (trimmings) from the manufacture and cutting of stone slabs in smaller operations.

However, it is also capable of splitting small natural stones up to 12 cm high. Model SHS enables the production of facing stones, paving stones from sawn slabs, as well as irregular stones up to 10x10 cm size. The splitting tool can be replaced with a “puzzle” tool, used for the production of various paving stones from thin slabs up to 3 cm thickness. It is suitable for all splittable rocks.

- Maximum material usage and recycling
- Undemanding in terms of required working area
- Working while seated
- Easy transport
- Reliability and long service life



various shapes of tiles split from thin slabs

# Why use our services?

Each customer is unique and needs a personal approach. This is the reason why our machines are so unique.

## 1/ Selection of a suitable solution

After contacting us via our web form, phone or email), we'll arrange a visit to your company and place of operations to discuss and clarify your requirements for the selection of a suitable machine. We'll then send a **preliminary offer**, with details about our equipment and sales conditions.

## 2/ Field visit and test splitting

We will be happy to organize a **field visit** for new clients to one of our existing customers base of operations so you can see Gestra stone splitters in action and discuss any questions related to the machines with the operators. We believe in our machines and are open and sincere in our desire to provide you with any information about our machines. We can also organize a test **DEMONSTRATION splitting** of your material, including photo and video documentation.

## 3/ Manufacture and delivery

When the optimum machinery for your project is selected, sales terms are agreed, a **sales contract** will be provided. The sales contract defines the binding price, delivery deadlines, additional services, method of payment, and other conditions. When the contract is signed, the **manufacture of machine(s)** according to the agreed conditions begins. You will be informed about the process of manufacture. Finally we will ensure the transport of the machinery to your company.

## 4/ Installation and training

After the machine is delivered, our technicians will come for its **installation and commissioning**. We will **train you** to work effectively with the machine and how to perform basic maintenance. Upon your request, we will provide you with training even in the case where installation is not required.

## 5/ Support and service

Our further service is **immediate technical support** over the phone in leading world languages, and in case of need, also **quick on-site service**. Our machines are reliable, with a minimum rate of malfunctions. Nevertheless, should a fault occur, we will start work immediately to rectify the problem.

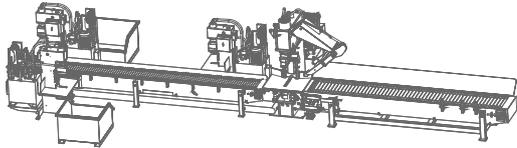
## 😊/ Satisfied client

**"Our objective is your satisfaction. This is only reached in that instant when you recognize that Gestra stone splitters work in the way that was promised, without any deviation. Your reward is an effective and reliable machine."**

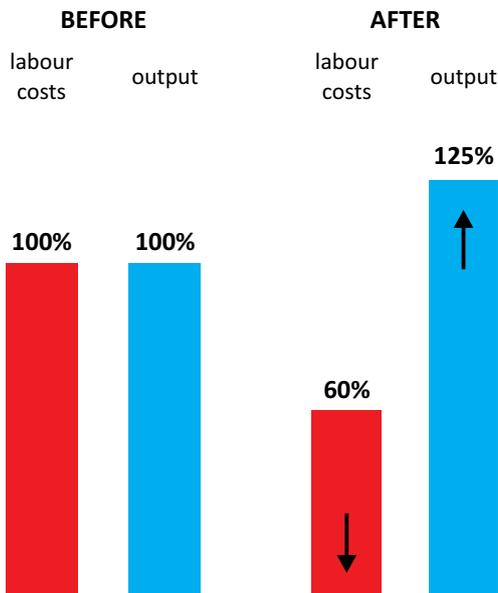
Michal Vašíček, CEO

# CASE STUDY

## Sates Čechy



### Comparison of the results before and after the reorganization of the production



**SATES ČECHY s.r.o. is a long-time manufacturer of paving stones and building stones in the Czech market.**

They have 3 independent paving stone splitters located in the Sumrakov quarry, which used chutes to feed the semiproducts to the splitter table, as usual. 2 operators prepared the semiproducts manually for one splitter, which produced the paving stones.

#### New concept and decision

Gestra provided them a new concept for a SLG1 splitting line for building stones production, with a DLJ conveyor. This setup would save 4 workers and increase production.

SATES had been using their existing work process organization for years, and didn't want to change the established and run-in system. But, after much hesitation, they decided to visit Poland, where Gestra's suggested method has been used for years. Seeing this system convinced them about the suitability of it, but due to the global economic crisis, they were initially afraid to invest in a change. Eventually, they made the switch.

#### Results with increased profit

The results were particularly impressive. After purchase of the SLG1 splitting line with a conveyor and building of the SLG13 splitting line using the old splitting machines, the power output of the splitters alone was increased by 25 %. The number of operators necessary to handle the stone splitting phase decreased from 10 to 6, which saved greatly on production costs. Moreover, it freed capacity for the production of building stones.

The increase in efficiency helped the company not only pay back their loan, but also make profit at the same time.

*"Thanks to our experience with the organization of work in paving block manufacture gained from Gestra CZ, we have gained higher production performance and decreased costs."*

*Martin Lacina  
production manager, Sates Čechy*

# Manufacture



We use only top quality components and selected materials for the manufacture of our machines, thus ensuring the required reliability of our equipment. We take real care about quality and final inspection. Among others, our leading suppliers include: BOSCH, MOOG, ABB, SCHRACK, LENZE, PARKER, SIEMENS and others.

*"I am personally responsible for the quality of production, to keep you satisfied."*

*Michal Vašíček, CEO*

# Installation and service

We don't underestimate these services.  
We pay attention to make our machines operating reliably and without failures.

## Installation

- Installation services offered for all our machines
- Operation and maintenance training during installation, according to the needs of the customer
- Inspection of existing machines performed during installation

## Service

- You will not find our machines in second-hand shops – thanks to their quality and reliability, our customers simply want to keep them (unlike machines from our competitors)
- Global availability of spare parts
- Fast service
- Overhaul of Porsfeld machines
- Repairs and modifications of machines of leading competitors

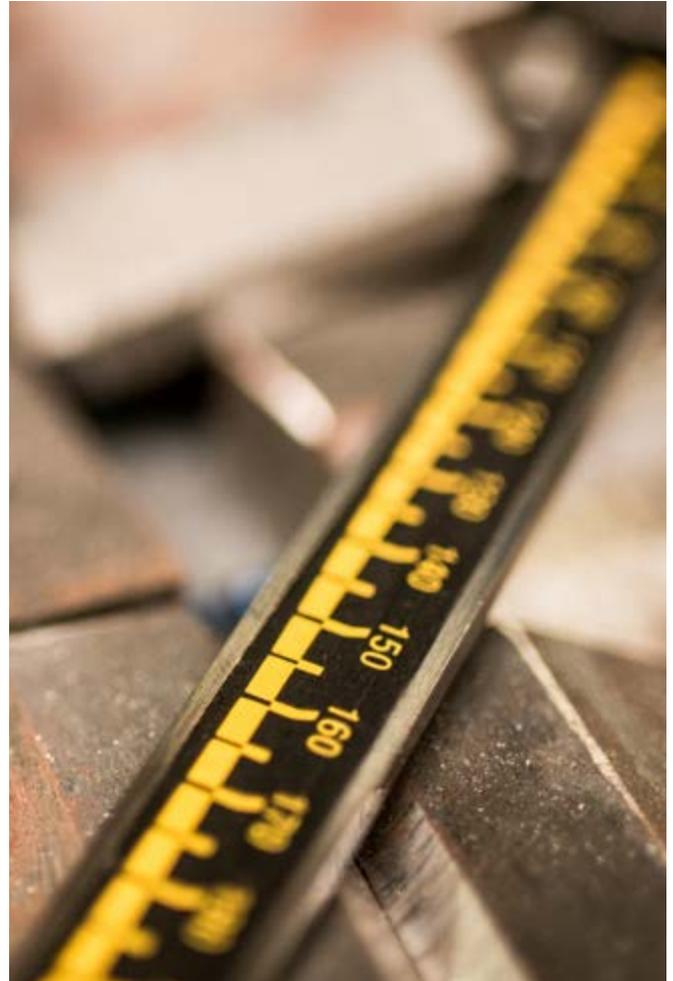


The photograph depicts the installation of a large 640-tonne stone splitter in Germany in 2011

# Tailored services

Each project is unique, just like you. We offer the best business solution for their business to each customer.

- Visits to the actual manufacturing operation under working conditions
- Consultations about work organization (we transfer our extensive, global experience to you)
- Training with laying of paving blocks and general usage of the split stone
- Assistance with financing of your project – also with subsidies
- Training of operation and maintenance
- Machines are manufactured to enable further expansion
- Our machines are packed and loaded by us, in order to ensure the corresponding transport conditions
- You can meet us at stone and build fairs worldwide



# Our machines speak for us

GESTRA splitters have been manufactured and delivered worldwide for 25 years. They have characteristics that you will not find in rival products. Those characteristics may not be visible at first glance, but they are proven by many years in operation and by the number of satisfied customer.

25 years in operation

The splitter for large blocks HSM 800 t in operation at our customer in Germany. In 2013 it was modernized to automatically remove small waste stones from beneath of the working table.





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25

*Reliability, efficiency, durability*

### Contact us

for more information about our machinery and services

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