



MACHINES. TECHNOLOGY. SYSTEMS.

Efficient multi-spindle machining  
for the firearms industry

[firearms.sw-machines.com](http://firearms.sw-machines.com)

## BA 442

### Working range

|                               |                 |
|-------------------------------|-----------------|
| X-axis                        | 200 mm          |
| Y-axis (tool change position) | 500 mm (775 mm) |
| Z-axis                        | 425 mm          |
| Spindle distance              | 200 mm          |

### Work Spindle

HSK-A63

### Speed Range

1 - 10.000 rpm  
(1-17 500 rpm)

### Torque

4 x 32 kW /  
4.200 rpm /  
4 x 72 Nm



## BA 322i

### Working range

|                               |                 |
|-------------------------------|-----------------|
| X-axis                        | 300 mm          |
| Y-axis (tool change position) | 450 mm (725 mm) |
| Z-axis                        | 375 mm          |
| Spindle distance              | 300 mm          |

### Work Spindle

HSK-A63

### Speed Range

1 - 10.000 rpm  
(1-17 500 rpm)

### Torque

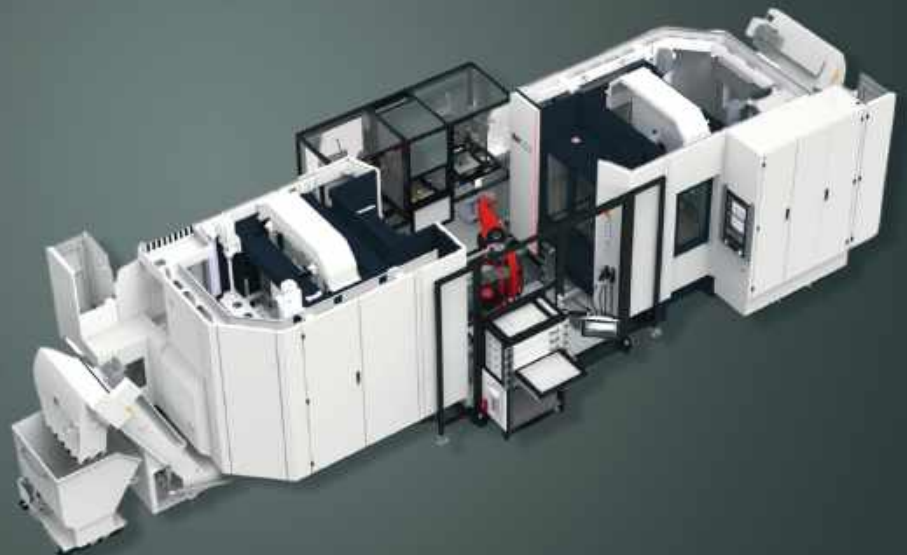
2 x 32 kW /  
4.200 rpm /  
2 x 72 Nm (40% ED)



## Automation Systems

As a system supplier, SW designs, manufactures, and commissions complete production lines with automation perfectly suited to workpieces – all from a single source. SW has a range of standardized automation solutions that can be integrated into a production line.

Using SW as your single source supplier for machines, tools, fixtures, automation, and all of the other components needed to complete your system ensures that all of your equipment works seamlessly together.



# Flexible and Efficient Manufacturing Solutions

## BA 322

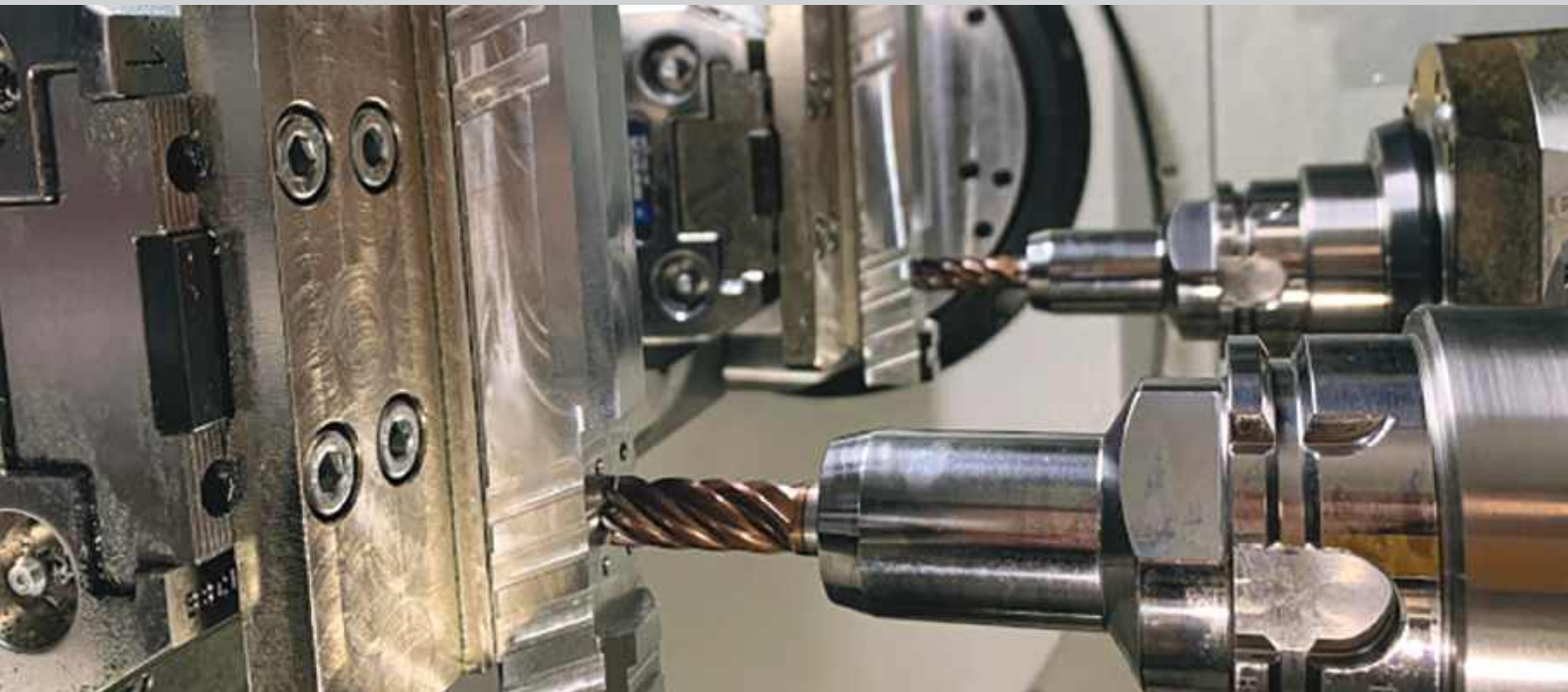
- One of the most popular solutions for firearm components, especially **gun slides**
- Position tolerance of 0.008 mm and chip-to-chip time of approx. 2.5 seconds
- Loading and unloading completed during machining in approx. 3.6 seconds, or about 1.8 sec per part
- Integrated automation is possible with the BA 322i, which enables lights-out machining for 8-24 trays of parts

## BA 442

- Four spindles make this machine one of SW's most highly efficient solutions
- Four- and five-axis capabilities on the four planets offer the capability of near complete machining of **gun slides** and **small arms components** in one clamping position
- Efficient and precise machining of workpieces made of cast iron or steel

## BA 622

- Can accommodate large workpieces for long guns, such as **upper and lower receivers**
- Perfect for machining workpieces made of cast iron or steel
- A swivel time of just 3.75 seconds significantly lowers cycle times
- Independent Z-axes are possible to further increase machining flexibility



## SW Design Principles

- Twin spindles more than double the output of single-spindle machines. Three- and four-spindle machines increase efficiency even further
- Fewer machines mean fewer operators and more floor space for future growth
- SW's monoblock construction makes machines stable and easy to transport

## Uptime is a top priority

- SW machines are optimized for condition monitoring so issues can be addressed before they become problems
- If you do have a problem with your machine, SW offers remote assistance through their help Hotline, as well as on-site service at your facility

## Automate your production

- Time-consuming tasks such as pin-stamping and inspection can easily be automated
- SW simplifies machining for the firearm industry, leaving your attention where it's most needed
- We can work together to implement your perfect system, from a single machine to a fully automated production line

Reach out today and get started on maximizing your profitability

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# SW

## Global industry leaders

SW is a global manufacturer of machines, automation, and complete system solutions. We work closely with the firearm, medical and precision engineering, automotive, EV, aerospace, and agriculture and construction industries, among others. SW is a global leader in the field of multi-spindle machining centers.

SW currently employs over 1,700 people worldwide and generated group sales of approximately 554 million euros in 2022. More than 5,500 machines have been delivered worldwide. SW has locations in eight countries including Germany, France, Italy, Poland, Hungary, USA, China, and Mexico.

The right machine for your production is the one that enables you to best meet the needs of your customers. The demands of strictly regulated firearm production can only be met through round-the-clock, high-volume precision machining with as little interference as possible. Therefore, efficiency and cost per part are top priorities.

SW has efficiency and ROI down to a science. We have long-term experience in the firearms industry, which includes working under ITAR and FFL regulations. Whether for the production of components for military grade firearms such as **upper and lower receivers**, or **frames and slides** for handguns—SW can help find the perfect solution. SW's automation solutions cut down on labor costs and can be integrated into any SW machine, and our multi-spindle concept increases available floorspace.



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**Learn more about SW solutions  
for the firearms industry**