

We know  
what counts.

The highest  
level of safety  
for your craft.



## HAND GUARD

The world's first and only AI- and camera-based safety assistance system for sliding table saws.



The German Occupational  
Safety Award 2021



Certified by the Employer's Liability  
Insurance Association for Wood and Metal





**There are no differing opinions when it comes to the highest level of safety. But there is one system.**

HAND GUARD protects the most important thing in the trade - the hands. And its unique early detection system with two cameras does not just increase the safety for your employees, but also for your orders.

With its quick driving down of the saw blade in a maximum of a quarter of a second, HAND GUARD is the fastest guardian angel in the world.

**We know what counts.**

# Safety

## **HAND GUARD**

The world's first certified optical system for sliding table saws helps to protect people, machinery, and materials.



### **The highest level of safety:**

- Due to early detection also suitable for higher feed rates or faster hand movements up to 2 m/sec.
- Quick driving down of the saw blade in a maximum of a quarter of a second
- Ready for use again in max. 10 seconds after triggering



**Our task is only completed when your jobs are successful.**

Success is when the numbers add up. And to keep your orders running smoothly, HAND GUARD helps you to avoid accidents and failures.

Here is what you can expect: HAND GUARD is suitable for all saw blades and materials, and can be used almost immediately again after stopping. All that without damaging materials or machinery.

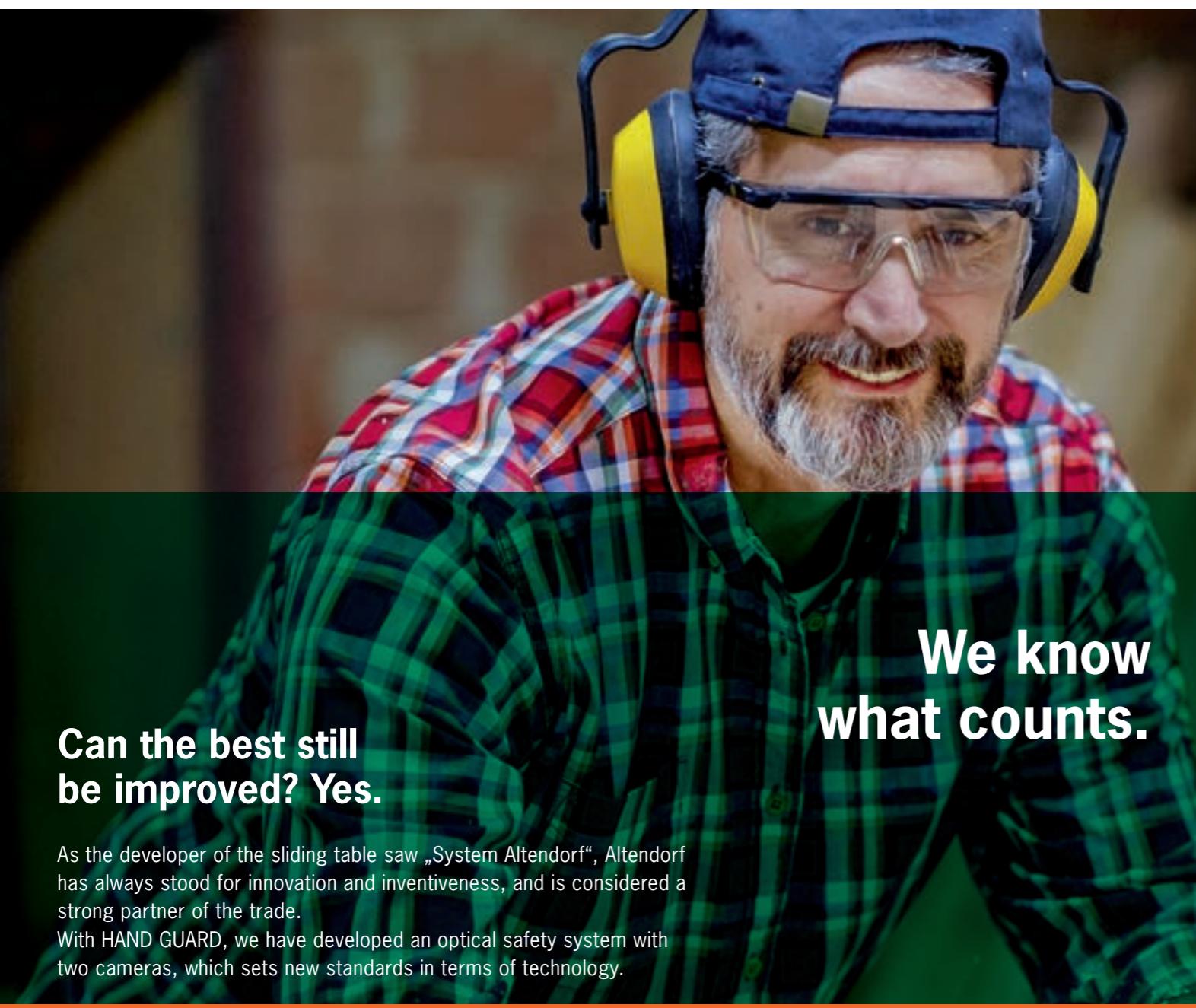
**We know what counts.**

**Productivity**

## **HAND GUARD**

For more efficient operations and numbers that add up.





Can the best still be improved? Yes.

As the developer of the sliding table saw „System Altendorf“, Altendorf has always stood for innovation and inventiveness, and is considered a strong partner of the trade.

With HAND GUARD, we have developed an optical safety system with two cameras, which sets new standards in terms of technology.

We know what counts.



As the first and only safety assistance system for sliding table saws, Altendorf's HAND GUARD has received the GS mark. The Employer's Liability Insurance Association for Wood and Metal has awarded the new AI and camera-based safety assistance system HAND GUARD with the highest safety standard for sliding table saws.

# Technology

## HAND GUARD

Invest in the future now – we have redefined technology for you.



The best technology for your success:

- Preventive 2 camera system for early danger detection.
- Quick driving down and quick stop in a maximum of a quarter of a second.
- Ready for use again in max. 10 seconds after triggering.
- The AI-based hand detection software recognizes imminent dangers and reliably avoids them.

### 1 ElmoDrive control unit

The F 45 ElmoDrive contains the most modern and comprehensive control technology for sliding table saws. Attached at eye level, it combines the greatest ease of use and organisation with practical, ergonomic application.



### 2 12" Touchscreen

You can call up all functions using the screen. Functions you use regularly can be pinned in the lower section of the screen (desktop function).

### 3 CNC rip fence

The CNC rip fence has a traverse speed of 250 mm/s and an accuracy of  $\pm 1/10$  mm. The high-precision five-point recirculating ball spindle system needs little maintenance and, along with the motor, is well protected by its integration into the aluminium profile. The fence detects its position automatically, especially in the danger area around the saw blade.



### The advantages of a camera-based system.

- Works with all materials, e.g. aluminium, wet timber, wood, plastics.
- The controlled downward movement protects the machine, the saw blade, and workpieces.
- Also suitable for high feed speeds and quick hand movements due to its early recognition system.
- Recovery time: max. 10 seconds.
- Saw blade-Ø max. 500 mm when swivelling to one side and saw blade-Ø max. 450 mm when swivelling to both sides



# HAND GUARD

## more safety, the highest productivity, and intelligent technology.

### 4 Sliding table, 3000 mm

It is infinitely adjustable and can be locked in whatever position required. The large dumbbell rollers guide the moving table with absolute precision between the hard-chromed guide bars. And it retains this ease of movement even after decades of hard work, dust and dirt. The hollow multi-chamber design gives great torsion resistance and rigidity.

### 5 Front support roller

The 300 mm-wide front support roller is particularly useful when cutting longer workpieces on the rip fence. It can be folded down through 90° in one movement to stow under the sliding table (minimum length 3,000 mm).

### 6 Clipboard

The clipboard mounted at eye level directly on the control unit is convenience itself. Parts lists are secured with a clamp, enabling you to keep a close eye on your jobs or other working documents as you cut. Thanks to the integrated storage ledge, you will always have your tools accessible.





## HAND GUARD models

### Performance features at a glance

	Standard	SingleFlex	TwinFlex	Performance
ELMO Control	●	●	●	●
Sliding table 3,000 mm	●	●	●	●
Saw blade height 150 mm	●	●	●	●
Vario Motor 5/5.5 kW	●	●	●	●
One-way tilting	●	●	—	●
Two-way tilting	○	—	●	○
Rip fence with DIGIT X, 1,000 mm	●	—	—	—
CNC rip fence, cutting width 1,000 mm	○	●	●	●
Crosscut-mitre fence	●	—	—	●
Crosscut-mitre fence with DIGIT L	○	●	—	○
Crosscut-mitre fence with DIGIT LD	○	○	●	○
Clipboard	○	●	●	●
Front support roller	○	●	○	○
On/off switches on sliding table	○	○	●	●
Two-axis scorer	○	○	○	●
LED illumination for scorer	○	○	○	●
RAPIDO	○	○	○	●
Vacuum clamping system in the sliding table	○	○	○	●
Rip fence security for CNC rip fences	○	○	○	●

● Include

○ Option

— Not possible

More options available.

**ALTENDORF®**  
GROUP AMERICA

All machinery depicted is  
CE design. Machinery illustrations  
may partly show equipment details  
that are not part of the basic equipment.  
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**ALTENDORF GROUP AMERICA Inc.,**  
319 Oates Road, Suite C, Mooresville, NC 28117 Phone: (704)-360-4119  
E-Mail: [info@altendorfgroupamerica.us](mailto:info@altendorfgroupamerica.us)