AKAS II Safety Light Guard

The Fiessler AKAS II Press Brake Safety System is designed to keep your operators safe while operating press brakes. Fingers, hands, arms and other appendages can be injured or lost due to unsafe press brake operation.

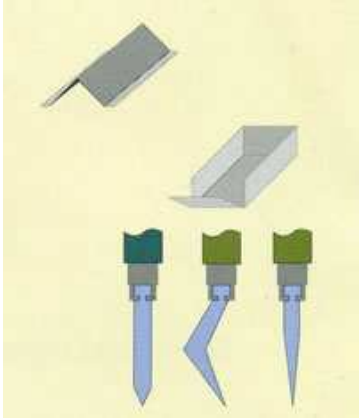
The AKAS II Laser Protection System is considered safe by OSHA as an acceptable form of guarding device for hydrualic press brakes under 29CFR 1910.212.

- Innovative finger guard by Laser-optical safety light grids
- Foot controlled operation
- UL-approved
- CE-approved
- Innovative safety technology
- flat-iron sections
- box-shaped parts
- using tools of equal tool heights

Fiessler has provided more than 3000 AKAS safety light guards to date worldwide for both retrofit and new press brake applications. This makes the AKAS laser light guard one of the most popular systems on the market.

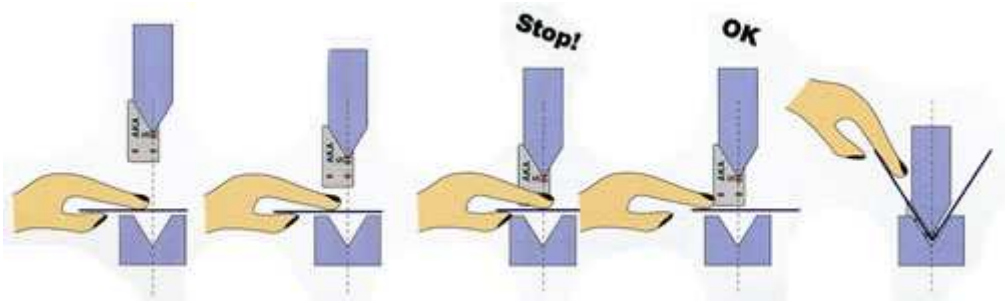
The AKAS Model II laser guard is the only fully automatic aligning system available on the market today. This eliminates the possibility of misalignment by the operator during punch change over. This is a critical feature for both safety and productivity. The time spent by other systems aligning the transmitters and receivers is utilized by the operator of the AKAS II safety light guard to call up the part program from the press brake control, gather sheet metal parts or other functions normally associated with good set up practice.

In order for the AKAS press brake safety system to function properly the press brake must be equipped as a two speed machine. If, your specific press brake cannot be stopped and reversed through the valves, in most cases they can be added. **On up-acting style press brakes an electric valve is required to release the beam so that it can retract. This is the responsibility of the customer**. Based on the specific overrun traverse of the particular model press brake the AKAS integrator will determine the specific safety zone during installation. As a general rule, the older the model press brake the greater the safety zone required. The forming speed must not exceed 10 mm or .393” per second. The maximum laser beam range on the standard AKAS II is 6 meters or 19.5 feet.



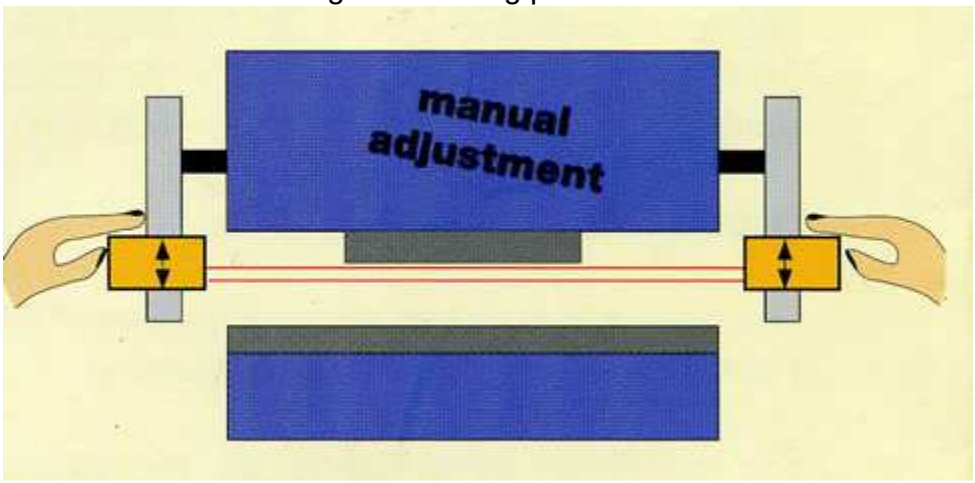
Task
Bending of sheet metal of small or medium handling geometry:

Solution
The following optical safety light grid AKAS is located right at the bending level and prevents the trapping of a part of the body between the moving and fixed tools.



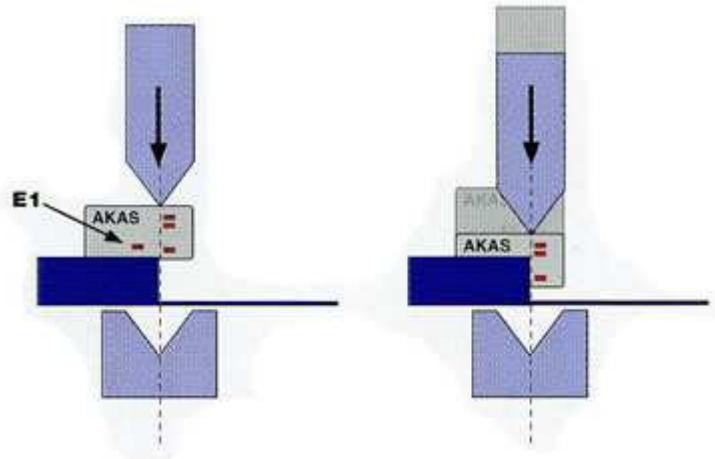
Transmitter and receiver are fixed to the ram of the machine and form a LASER-optical safety light grid that follows the ram. Therefore, the hands remain free for handling the slug during operation under continuous protection of the extremities during the whole bending process.
This will not interfere with the operating rhythm.

Function
The safety laser beams are located beneath the tool. Box-shaped parts and smallest workpieces can be hand-held during the bending process.

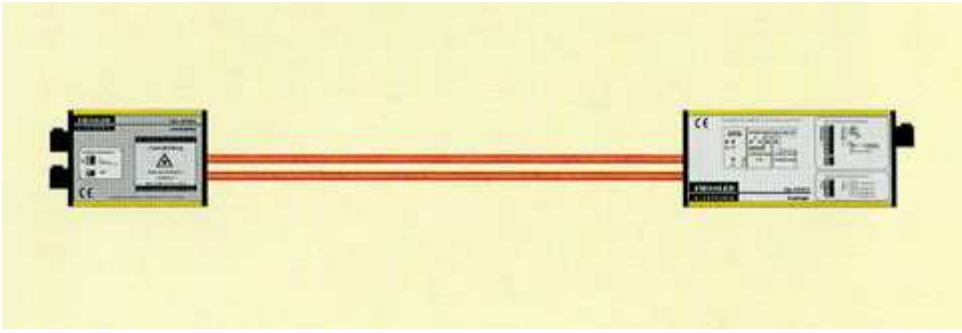


Tool Change Over

System for using tools of equal tool heights.



The case-bending function provides bending of box-shaped items without stopping the bending procedure.



Other types

New AKAS 3 Press Brake Laser Light Guard
New AKAS Model II Laser Light Guard