



Safety Guard for Press Brake

AKAS SYSTEM







Model:

AKAS-3F

厚生労働省型式検定

Approval received from the Ministry of Health, Labor and Welfare, Japan (MHLW)

NO. TA503, TA504, (TA505)

生産性重視

Importance on productivity

加工材料近くまで高速アプローチが可能

Enables fast speed approach close to sheet materials

● 加工材料上7mm*まで高速運転が可能

Possible to conduct fast speed operation to within 7mm* above

*機械の停止性能により異なります。

* Different depending on the performance of machines.

自動高さ調整機能搭載

With automatic height adjustment function

● 金型交換後の光軸調整が簡単・確実 Safe and easy adjustment of the optical axis after changing upper tools

上型交換の多い機械向け

For machines requiring frequent upper tools change

AKAS-3F プレスブレーキの動きとAKASの安全監視フロー

Press Brake Operation and AKAS Safety Monitoring Flow

- 上型交換後、自動調節機能により上型に最適な設定値に移動 します。
- 投光器から放射される3本のレーザー光線を6つの受光窓で 検知し、人体の侵入を監視します。 機械の動きに合わせて光線は順次無効化されますが、監視中 の有効光線を遮光した場合は、即時に機械を停止させます。
- AKAS-3F automatically adjusts onto the required distance to the upper tools after upper tools change.
- 3 laser beams emitted from transmitter are detected by 6 light receiving windows, and the intrusion of the human body is monitored. The laser beams are sequentially disabled according to the movement of the machine, but if the effective beams under monitoring are interrupted, the machine is immediately stopped.

プレスブレーキの動作

Press brake operation

AKASの動作 **AKAS** operation



閉じ運転 Closing operation

Monitoring

●監視中/Monitoring E3~E6: ●監視中/Monitoring F2: ●無効化/Disabled

E4 E3 E6 60 ┌材料/Material

上型

【●監視中/Monitoring】【●無効化/Disabled】

90

下型

E4 E3 E6 E5

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閉じ運転開始:低閉じ速度切り替え地点(材料上面と上型間の距離:7~16mm)まで高速アプローチします。

Start closing operation: The ram approaches in fast speed up to the change-over point to slow speed (distance between material upper surface and upper tool: 7~16mm).



閉じ運転

Closing operation

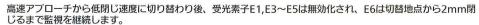


部分監視 E6:

effective beams

●監視中/Monitoring

Monitoring with E1,E3~E5: ●無効化/Disabled



After reaching the change-over point from fast speed to slow speed, E1, E3, E4 and E5 are disabled, and E6 remains activated until it is closed 2mm from the change-over point.

7

閉じ運転

Closing operation

低閉じ速度

無監視

E1~E6: ●無効化/Disabled

E6

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曲げ加工終了まで受光窓はすべて無監視となり、ミューティングランプが点灯します。

All receiver elements are muted and the muting lamp is on. The bending procedure is finished.



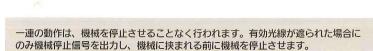
曲げ作業・上昇運転

Bending work/Retraction operation

E1~E6: ●無効化/Disabled



All receiver elements are muted and the muting lamp is on. The bending procedure is finished.



A signal to stop the press brake is only output when an enabled beam is blocked. As a result, the press brake is stopped before fingers/hands are caught and successive operations can be performed without stopping the press brake.

箱曲げ加工にも、作業効率を失わず安全に作業ができます。

Assures safety for box-bending components without reducing the operation efficiency.

箱曲げ

Box-bending work

Fast speed 低閉じ速度

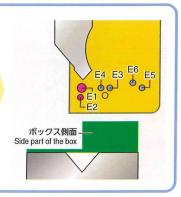
継続します。その後は曲げ加工終了まで受光窓はすべて無監視となります。

部分監視

E1,E2: ●監視中/Monitoring Monitoring with E3~E6: ●無効化/Disabled

高速アプローチから低閉じ速度に切り替わり後、E2は無効化され、E1は切替地点から5mm閉じるまで監視を

After reaching the change-over point from fast speed to slow speed, E2 is disabled, and E1 remains activated until it is closed 5mm from the change-over point. Then all receiver elements are muted and the muting lamp is on. The bending procedure is finished.





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認証取得





