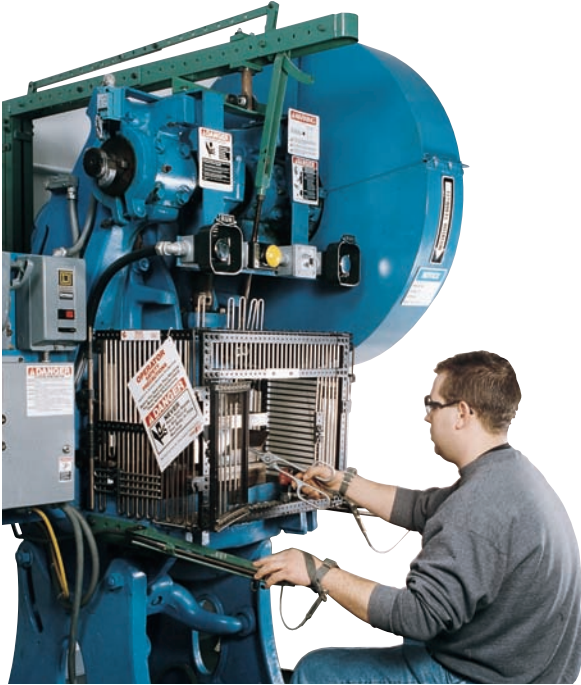


Arm-Type Pullback



Overhead-Type Pullback



PULLOUT (PULLBACKS)

The pullback safety requirements are located in OSHA 29 CFR 1910.217 as follows:

(c)(3)(i) Point-of-operation devices shall protect the operator by:

(b) Preventing the operator from inadvertently reaching into the point of operation; or withdrawing his hands if they are inadvertently located in the point of operation, as the dies close;

(c)(3)(iv) The pullout device shall protect the operator as specified in paragraph (c)(3)(i)(b) of this section and shall include attachments for each of the operator's hands.

(a) Attachments shall be connected to and operated only by the press slide or upper die.

(b) Attachments shall be adjusted to prevent the operator from reaching into the point of operation or to withdraw the operator's hands from the point of operation before the dies close.

(c) A separate pullout device shall be provided for each operator if more than one operator is used on the press.

(d) Each pullout device in use shall be visually inspected and checked for proper adjustment at the start of each operator shift, following a new die setup, and when operators are changed. Necessary maintenance or repair or both shall be performed and completed before the press is operated. Records of inspections and maintenance shall be kept in accordance with paragraph (e) of this section.

(e)(1) INSPECTION AND MAINTENANCE RECORDS

(i) It shall be the responsibility of the employer to establish and follow a program of periodic and regular inspections of his power presses to insure that all their parts, auxiliary equipment, and safeguards are in safe operating condition and adjustment. The employer shall maintain a certification record of inspections which includes the date of inspection, the signature of the person who performed the inspection and the serial number, or other identifier, of the power press that was inspected.



When using pullbacks, be sure to visually inspect and check for proper adjustment of the pullbacks each time operators change, following a new die setup, and at the start of each shift.



Make sure die protrusions do not interfere with the pulling action. Continuing supervision and instruction are required.

If pullbacks are a safeguarding consideration, please consult the factory for further details. ANSI standards for machines can also be referenced for additional pullback safety guidelines.

RESTRAINT OR HOLDOUT

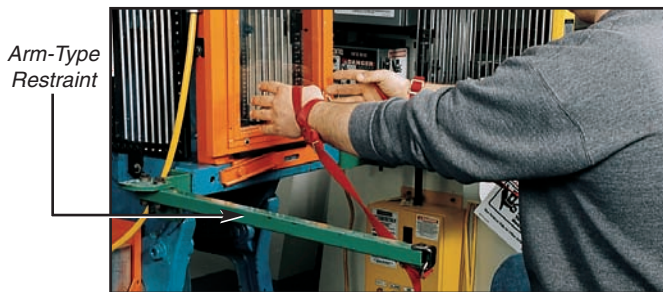
Restraint safety requirements are located in OSHA 29 CFR 1910.217 as follows:

(c)(3)(i) Point-of-operation devices shall protect the operator by:

(c) Preventing the operator from inadvertently reaching into the point of operation at all times;

(c)(3)(vi) A holdout or a restraint device shall protect the operator as specified in paragraph (c)(3)(i)(c) of this section and shall include attachments for each of the operator's hands. Such attachments shall be securely anchored and adjusted in such a way that the operator is restrained from reaching into the point of operation. A separate set of restraints shall be provided for each operator if more than one operator is required on a press.

Applicable ANSI standards can also be referenced for additional guidelines on restraints.



Arm-Type Restraint

ARM-TYPE

The arm-type restraint device is suitable for small to medium size presses, and short-bed press brakes when the operator is able to load and unload, or hold parts without reaching into, along side of, or near the point of operation. They are commonly used for hand feeding of strip material or in conjunction with hand-feeding tools.

The device consists of a mounting bracket, tubular arms, and adjustable nylon straps (with wristlets attached) for each hand. Each tubular arm is applied perpendicular to the front of the bolster and can be swung up to 90° to the side, depending on the job situation. When not in use, the tubular arms can be swung downward, out of the way.

The arms (1" square steel tubing) are 24" long with 42" nylon straps provided. This allows ample freedom of hand movement when operating from a sitting or a standing position.

ORDERING INFORMATION

Part No.	Description
KYM-201	Arm-Type Restraint With Side Mounting Brackets (see next page)
KYM-202	Arm-Type Restraint With Front Mounting Brackets (see next page)

OVERHEAD-TYPE



The overhead restraint device is suitable for large presses and press brakes. It is a logical choice when the operator never has to reach into, along side of, or near the point of operation to perform their job.

Through the use of an overhead frame, boom rails and braces, a support bar is situated above and behind the operator. Adjustable nylon straps, with wristlets, are attached to the support bar. This provides the operator with holdout protection for each hand, and allows ample freedom away from the machine to handle large or clumsy parts without having to remove the wristlets.

Sliding

On wide presses or large-bed press brakes, the operator may have to move laterally across the front of the machine, or the job may call for two or more operators on the same machine. A rail is attached above and behind the operator(s), through the use of two single restraint frames. A carrier which can travel along the rail is provided for each operator. A pair of 10' holdout straps are attached to each of these carriers.

With this arrangement, each operator will be restricted to a certain reach toward the machine, but will have lateral movement available through the sliding carriers. Available for one- or two-person operations.

ORDERING INFORMATION

Part No.	Description
	Single Restraint Device
KYM-200	For Stationary Mounting
	Sliding Restraint Device
KYM-203	For Press Brakes up to 10' Wide—One Person
KYM-204	For Press Brakes Over 10' Wide—One Person
KYM-205	For Press Brakes up to 10' Wide—Two Person
KYM-206	For Press Brakes Over 10' Wide—Two Person

See measurement data on next page.

FROM _____

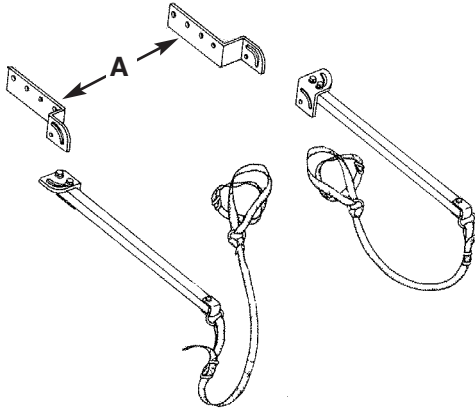
SHIP TO _____

Mach. No. _____ Mfg. _____ Model No. _____

If more than one machine is to be measured, please make copies of this page.

ARM RESTRAINT DEVICES

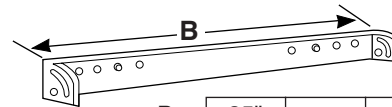
Side Mount (Std.)



Width of press bed or bolster at mounting point

A = _____

Front Mount (optional)

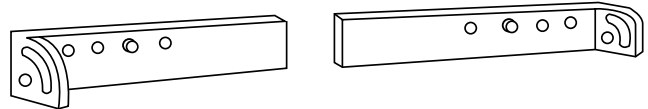


B =

25"	28"	32"

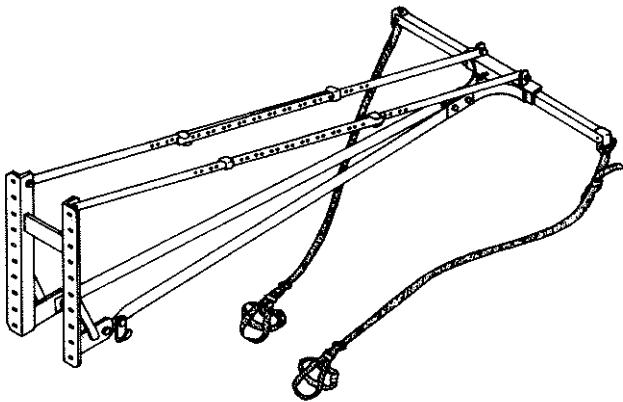
(Please Check One)

Split Front Mount (optional)



OVERHEAD RESTRAINT DEVICE

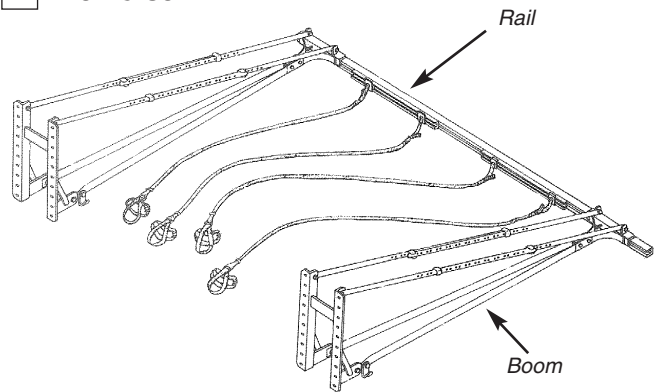
Single—Stationary



Sliding—Length of Rail _____ (Max. 20')

One Person

Two Person



Note: An additional boom is provided when the rail is over 10' long.

For Manufacturer's Use Only

No. Units _____ Type _____

Mounts Arm _____

Straps _____

Wristlets _____

Brackets _____

S.O. Date _____

By _____

If additional brackets are required, please consult the factory for further details.

"The Machine Controls/Safeguarding People"
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