

SAFETY CHUCKS

**Sliding design...
no binding, easier to load,
safer for operators,
replaceable jaw inserts.**



Patented circular jaw insert



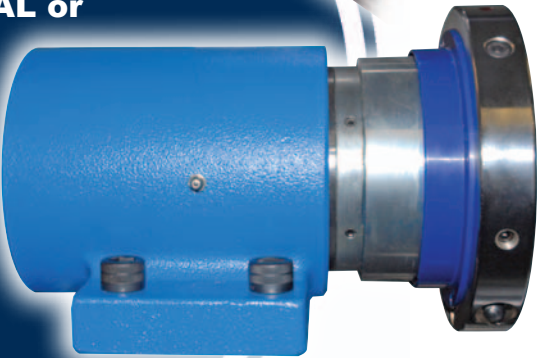
DOUBLE E COMPANY, LLC

Excellence in Engineering

FLANGE MOUNT



PEDESTAL or FOOT MOUNT



OPERATION

Slides open with a patented push-button system.

Only opens in upright position so roll security is guaranteed.

Sliding action reduces finger jamming accidents common with tilting models.



WEB CORRECTION

Sidelay adjustment chucks and rotary tables are available to compensate for misalignment and/or baggy web edges.

Sidelay Adjustment

Horizontal range up to 2" (50 mm) or 4" (100 mm).

Easy handwheel or cross-handwheel operation for accurate roll positioning. Fixed drive shaft option also available.

HANDWHEEL

Standard on SL models and rotary tables.



CROSS HANDWHEEL

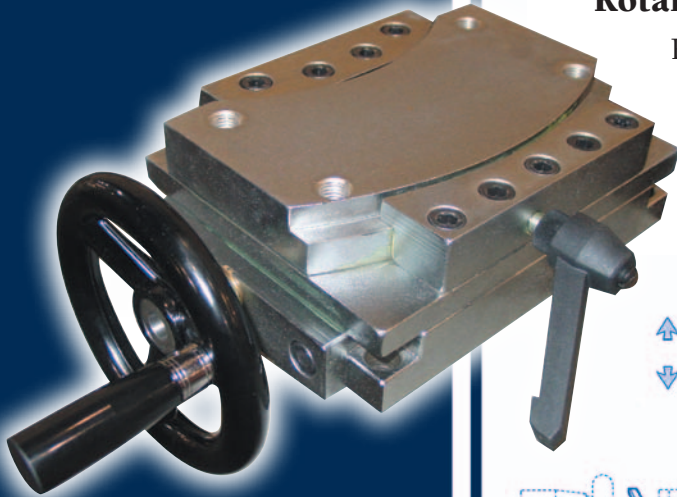
Standard on SM & SP models (heavier roll weight capacity).



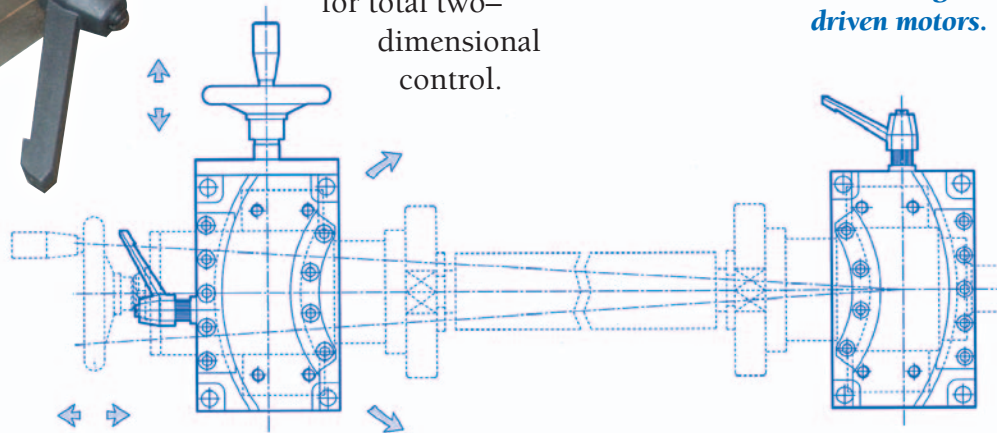
Swivel Base / Rotary Table

Pivot chucks to correct baggy edges.

Combine with sidelay adjustment for total two-dimensional control.



A fixed drive shaft is often helpful on rewinds using belt or gear driven motors.



JAW INSERTS / ENGAGEMENTS

Proprietary jaw inserts accommodate shaft deflection.

Binding is not an issue.

Jaw inserts can be a fixed piece of the chuck or a removable part.

Removable Jaw Inserts – Easy, inexpensive replacement.

Square-Turned-45° Jaw Inserts

Unlike with tilting chucks, retains torque capacity of square jaw.

Easiest for loading/unloading rolls.

Patented Circular Jaw Inserts

Allow **high torque transmission and high speed.**

Minimize roll bounce, vibration, and rotational tapping.

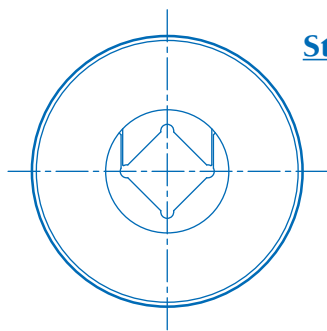
Easy roll loading and unloading.



*Top:
square-
turned-45° jaw insert with
chuck in closed position*

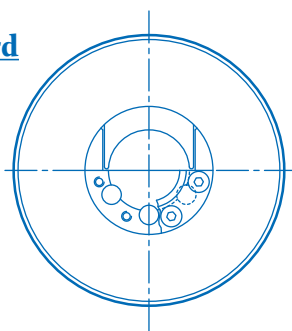
*Bottom: Patented circular jaw insert
with chuck in open position.*

POSSIBLE ENGAGEMENT TYPES

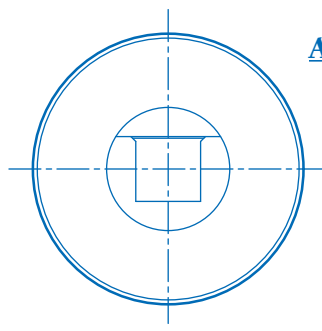


Standard

**“V” Type
Square Turned 45°**

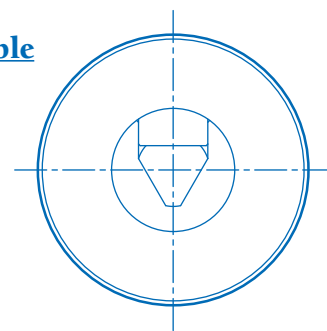


**“O” Type
Circular**



**“U” Type
Square**

Available



**“T” Type
Triangular**



***Air-operated
safety chuck
with proximity
sensors.***

AIR OPERATED SAFETY CHUCKS

All models can be manufactured to be pneumatically operated. Air operation is ideal when accessibility is difficult and/or unsafe for the operator.

A large piston works as a double-acting air cylinder to open and close the chucks.

Proximity sensors can be integrated with the machine's controls to ensure that the chucks are closed before the machine runs, and to ensure the chucks are oriented correctly for safe unloading.



DROP-IN REPLACEMENTS

- Easily replace any existing safety chuck without modifying shaft length or center line height
- No need for bulky adapter plates



COMPLETE SOLUTIONS

Loads of up to 22,100 lbs. (10,000 Kg)
Light weight shafts available for proper engagement with jaw inserts
Brakes to fit on safety chucks
Modular roll stands available featuring safety chucks, shafts, web guides and tension control

DOUBLE E SAFETY CHUCKS

Double E will quote any custom configuration of mounting and jaw design.

Jaw design compensates for shaft deflection; chuck does not bind.

Sliding action sharply reduces possibility of finger jamming.

Patented push button ensures roll security and operator safety.

Patented circular engagement allows high torque while reducing noise and vibration.

Removable jaws extend chuck life; easy and inexpensive to replace.

SPECIAL APPLICATIONS / FLEXIBILITY

Experience allows Double E to apply design features to its safety chucks to account for nuances in niche or custom applications. Many such solutions already exist, but Double E engineers will work closely with you as necessary to solve any web handling problem. Examples include the following:

Radial Drivers

A radial driver helps to secure the core shaft during automatic chuck closing under rotation. The shaft journal has grooves which engage with the radial driver. Double E recommends this option for rewind applications not using a square insert.

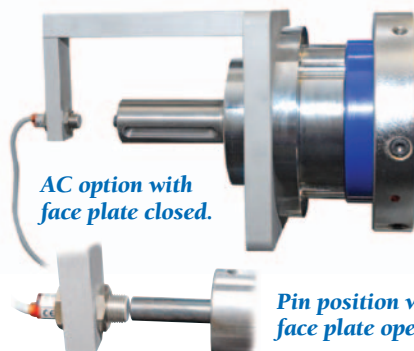


Radial driver shown above; not shown to the right.

AC Option

A pin through the safety chuck works with a proximity sensor to detect when the chuck's face plate is open.

In turret applications, the sensor is tied to a "kill switch" which prevents the turret from turning when the chuck is open.



AC option with face plate closed.

Pin position with face plate open.

AT Option

The "AT" (Air-Through) option is useful in cases where there is not enough space on the shaft journal for an air valve. The design runs an air line through the middle of the safety chuck then connects to one in the shaft. The feature is most common for applications using differential rewind shafts.



This AT safety chuck is shown with an optional proximity sensor which indicates when the chuck is open or closed.

SAFETY CHUCKS ~ CUSTOMER SPECIFICATIONS

Company: _____ Date: _____
Name: _____ Title: _____
Address: _____ City: _____
State: _____ Zip: _____ Country: _____
Telephone: _____ Fax: _____
email: _____

APPLICATION SPECIFICATIONS

Application/Process: _____

Material: _____

Material Description (Basis Wt., Thickness, etc):

Machine Manufacturer: _____

Model Number: _____

Unwind Rewind

(Do not check both. If ordering both, please fill out a separate specification sheet for each.)

Continuous Wind Stop and Go

Splice on the Fly: Yes No

Turret: Yes No

If yes, is air available on the turret arms?

Yes No

Is electrical power available on the turret arms?

Yes No

Belt or chain on drive shaft: Yes No

If yes, tension: _____

Max. Load (core shaft weight plus roll weight) = _____ lbs.

Maximum Working Speed: _____ fpm

Maximum Web Width: _____ in

Maximum Web Tension: _____ (lb./linear in.)

Frame to Frame Distance: _____ in

(see drawing on next page for Frame to Frame distance guidelines)

Maximum Roll Diameter: _____ in

Minimum Roll Diameter: _____ in

Core Diameter: _____ in

CHUCK REQUIREMENTS

Single Idler , or

Single with Drive Shaft , or

Matched Pair (idler and driver)

Mounting Style: Flange Foot

Jaw Insert Type (check one if known): Circular

Square Turned 45° Square Triangular

Removable Jaw Insert?: Yes No

Do you want to use your current shaft?

Yes No

Is it a Double E shaft? Yes No

Double E Drawing #: _____

If your shaft is not manufactured by Double E, please provide a dimensional drawing.

Sidelay Safety Chuck Options

Sidelay Adjustment: Yes No

If yes, 2" [50mm] or 4" [100mm]

Sidelay Chuck with Fixed Drive Shaft

Rotary Table for Baggy Edge Adjustment

(unwind only)

Air-Activated Safety Chuck Options

Air Activated Safety Chucks: Yes No

Proximity Sensors (recommended): Yes No

If yes, 110V 24V 220V

Other Safety Chuck Options:

AC Option (Pin-Through)

AT Option (Air-Through)

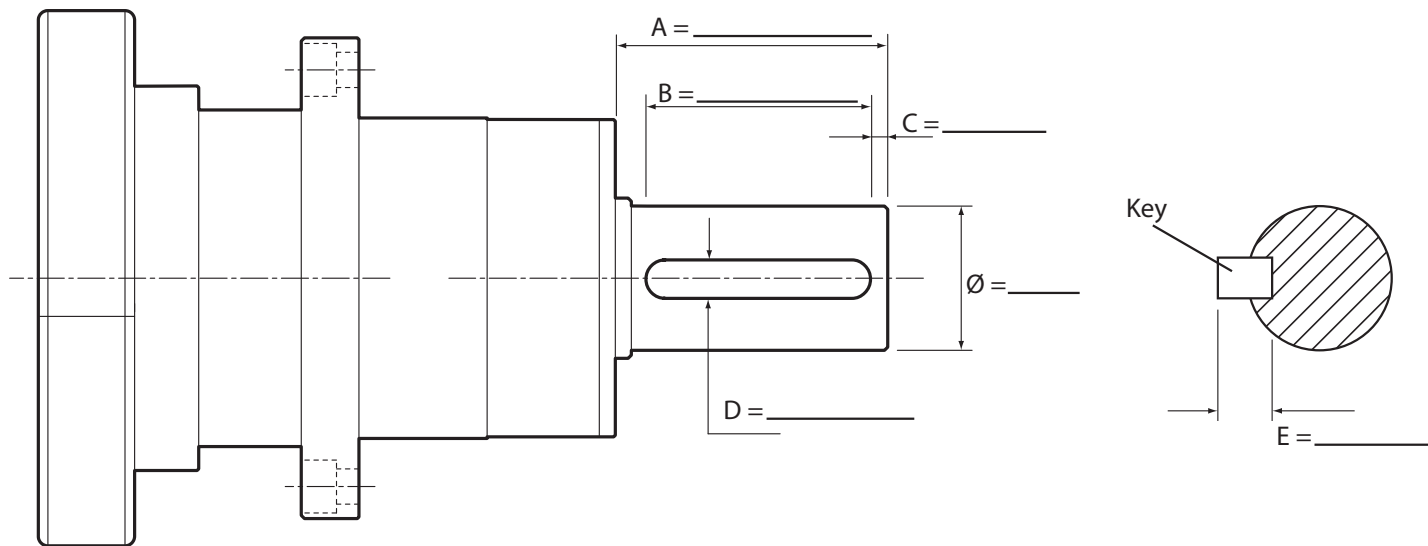
Radial Driver (Rewind only)

CURRENT SAFETY CHUCKS

Manufacturer: _____
 Type and/or Model Number: _____
 Problems and/or Other Notes: _____

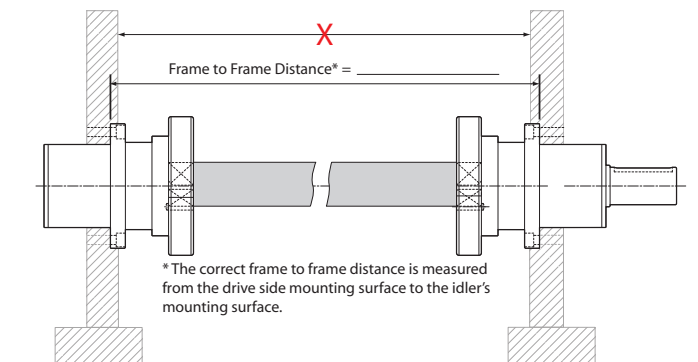
SPECIAL REQUIREMENTS

DRIVE SHAFT DETAILS



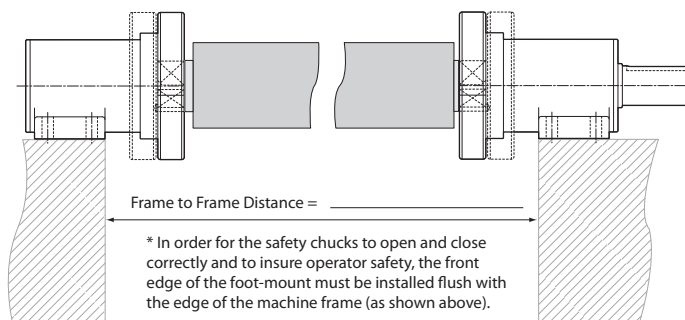
If you have special requirements for the drive shaft that are not shown in the drawing above, please provide a sketch of your drive shaft.

FRAME TO FRAME DISTANCE



* The correct frame to frame distance is measured from the drive side mounting surface to the idler's mounting surface.

Flange Mount



* In order for the safety chucks to open and close correctly and to insure operator safety, the front edge of the foot-mount must be installed flush with the edge of the machine frame (as shown above).

Foot Mount

Please fax this completed sheet to (508)580-2915 for a formal quotation.



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