

Sliding design... no binding, easier to load, safer for operators,

replaceable jaw inserts.

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Patented circular jaw insert

DOUBLE E COMPANY, LLC

Excellence in Engineering

FLANGE MOUNT

<u>SLIDING: SAFETY CHUCKS</u>

Double E offers **sliding safety chucks** because they're **safer**, **easier to operate**, and **more rugged** than tilting designs. Chucks can be flange– mounted or foot–mounted, fixed or with sidelay adjustment.

<u>OPERATION</u>

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

HANDWHEEL

PEDESTAL or

FOOT

MOUNT

Standard on SL models and rotary tables.

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.

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.



CROSS HANDWHEEL

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

JAW/ INSERTS // ENGAGENIENTS

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.

<u>Removable Jaw Inserts</u> – Easy, inexpensive replacement.

<u>Square–Turned–45° Jaw Inserts</u>

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: squareturned-45° jaw insert with chuck in closed position

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



"V" Type Square Turned 45°





Square

Available "T" Type

Triangular



ANR OPERATED SAVETTY 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.

POSSIBLE ENGAGEMENT TYPES

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.



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.



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	CHUCK REQUIREMENTS
Application/Process:	Single Idler 📮, or
Material:	Single with Drive Shaft \Box , or
Material Description (Basis Wt., Thickness, etc):	Matched Pair (idler and driver)
	Mounting Style: Flange 🗅 Foot 🗅
Machine Manufacturer:	Jaw Insert Type (check one if known): Circular 🗖
Model Number:	Square Turned 45° □ Square □ Triangular □
Unwind D Powind D	Removable Jaw Insert?: Yes 📮 No 📮
 (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 □ 	Do you want to use your current shaft? Yes No I Is it a Double E shaft? Yes No I Double E Drawing #: If your shaft is not manufactured by Double E.
If yes, is air available on the turret arms? Yes I No I	please provide a dimensional drawing.
Is electrical power available on the turret arms?	Sidelay Safety Chuck Options
Yes 🗆 No 🗖	Sidelay Adjustment: Yes 🔲 No 🖵
Belt or chain on drive shaft: Yes 🗅 No 🖵 If yes, tension:	If yes, 2" [50mm] \Box or 4" [100mm] \Box Sidelay Chuck with Fixed Drive Shaft \Box Rotary Table for Baggy Edge Adjustment \Box
Max. Load (core shaft weight plus roll weight) = lbs.	(unwind only)
Maximum Working Speed: fpm	
Maximum Web Width: in	Air-Activated Safety Chuck Options
Maximum Web Tension: (Ib./linear in.)	Air Activated Safety Chucks: Yes \Box No \Box
Frame to Frame Distance: in	Proximity Sensors (recommended): Yes \Box No \Box
(see drawing on next page for Frame to Frame	If yes, 110V 🗆 24V 🗖 220V 🗖
distance guidelines)	Other Safety Chuck Ontions:
Maximum Roll Diameter: in	AC Option (Pin-Through) \Box
Minimum Roll Diameter: in	AT Option (Air-Through) \Box
Core Diameter: in	Radial Driver (Rewind only)

CURRENT SAFETY CHUCKS

SPECIAL REQUIREMENTS

Manufacturer:

Type and/or Model Number: _____

Problems and/or Other Notes:_____

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.



Flange Mount

Foot Mount

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



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