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
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.

### 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.

### 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.
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.
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.

**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.

**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**

- 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

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SAFETY CHUCKS ~ CUSTOMER SPECIFICATIONS

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) ❑

APPLICATION SPECIFICATIONS
Company:_________________________________________ Date:____________________
Name:_________________________________________ Title:____________________
Address:_________________________________________ City:____________________
State:_________________________________________ Zip:____________ Country:____________________
Telephone:_____________________________________ Fax:____________________
email:__________________________________________

APPLICATION SPECIFICATIONS

CHUCK REQUIREMENTS
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

Flange Mount
Foot Mount

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