



Core Chucks

for through shaft operations

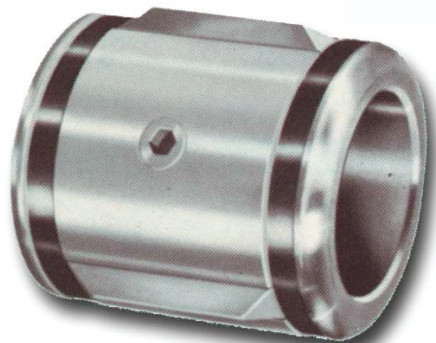
The Tilt-Lock principle is the most advanced design today, providing a truly dependable method in chucking. Thousands of companies in a wide variety of industries are realizing major savings in production by converting to Tilt-Lock.

Tilt-Lock teeth automatically engage to the core by the relative motion of the roll to the shaft or shaft to the roll. Tooth lock-up is instant, no tools are used.

Tilt-Lock offers engineering designs that combine maximum strength with the lightest weights for handling. High maintenance costs are virtually eliminated!

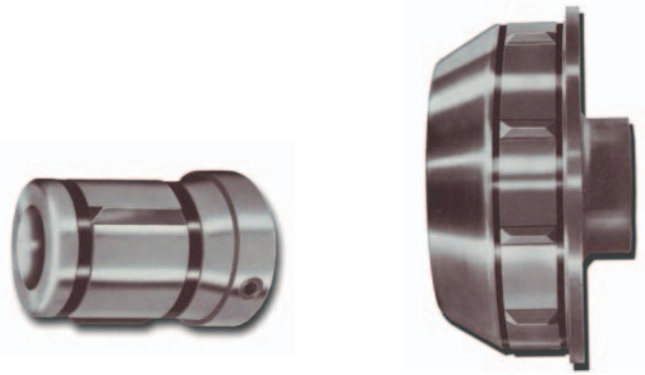
Tilt-Lock offers you the widest range of chucks to choose from. Chucks to accommodate core I.D.'s from 1" through 12" incorporating a variety of desirable features for specific operations are available as standards. Save time in roll changes, assure precision concentricity, obtain positive, instant lock-up and release without tools for your operations.

Insist on Tilt-Lock!!



TILT-LOCK FLANGE STYLE

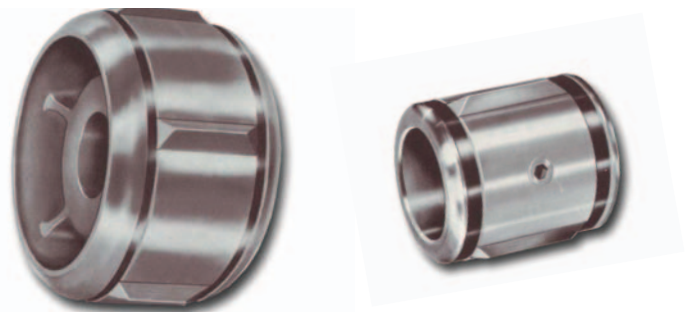
The Tilt-Lock Flange Chuck assures web control both laterally and radially. The teeth lock the core internally with precision concentricity, instantly and automatically. The greater the torque, the deeper the bite. Web location, laterally, is held true with the chuck flange, by locking the chuck at the desired spot on the shaft with the set screw provided.



SERIES R1 (1" thru 4" core I.D.) thru round shaft mounting
SERIES R2 (5" thru 12" core I.D.) thru round shaft mounting
SERIES X1 (1" thru 4" core I.D.) thru square shaft mounting
SERIES X2 (5" thru 12" core I.D.) thru square shaft mounting

TILT-LOCK SHOULDERLESS STYLE CHUCKS

Shoulderless Chucks are spaced at intervals along the working surface of the shaft. They are commonly used to replace expanding shafts, or when heavier torque loads assure deep tooth penetration into the core, eliminating chance of roll side drift. A Flange Chuck is used on the "closed" side of the shaft, while the Shoulderless Chuck is located approximately 3" in from the end of the roll on the opposite end of the shaft. No tools are used. You'll



SERIES R3 (1" thru 4" core I.D.) thru round shaft mounting
SERIES R4 (5" thru 12" core I.D.) thru round shaft mounting
SERIES X3 (1" thru 4" core I.D.) thru square shaft mounting
SERIES X4 (5" thru 12" core I.D.) thru square shaft mounting

TILT-LOCK IDLER STYLE CHUCKS

Tilt-Lock Idler Chucks are designed as companion chucks to Flange, Shoulderless, or Dualock Chucks. Dimensionally, they are similar to the Flange model, but do not have teeth or retaining bands. The Idler Chuck is recommended in operations where torque requirements are satisfied with the use of only one regular Tilt-Lock Chuck on the shaft. The Idler Chuck serves to hold lateral roll drift and assists in assuring concentricity on the running roll.



SERIES R13 (3" thru 12" core I.D.) thru round shaft mounting
SERIES R14 (5" thru 12" core I.D.) thru round shaft mounting
SERIES X13 (3" thru 12" core I.D.) thru square shaft mounting
SERIES X14 (5" thru 12" core I.D.) thru square shaft mounting

Equipment upon which Tilt-Lock Chucks and Mandrels are used:

- | | |
|-------------|---------------|
| • Presses: | Telephone |
| Newspaper | Cellophane |
| Magazine | Forms |
| Letter | Package Board |
| Offset | • Waxer |
| Rotogravure | • Breaker |

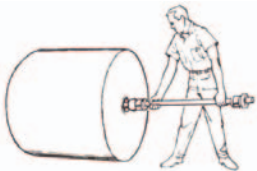
**QUICK!
SIMPLE!
DEPENDABLE!**



SERIES R0 (3" thru 6" core I.D.) thru round shaft mounting

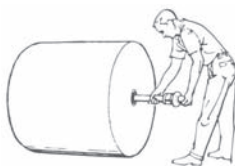


SERIES R5 (2" thru 6" core I.D.) thru round shaft mounting
 SERIES X5 (2" thru 6" core I.D.) thru round shaft mounting



Space chucks width of roll apart - then lock to shaft. Ready for quick and easy entry.

Push shaft through core until Tilt-Dualock Chuck snaps into hooked position



For easy roll change - depress springs, push shaft out. Ready for a new roll!

TILT-LOCK RIM CLAMP STYLE CHUCKS

Rim Clamp Chucks function identically to the Flange Chuck, but fasten to the shaft by use of a split flange, rather than with a set screw.

TILT-LOCK STEP CHUCKS

Tilt-Lock Step Chucks are available for many combinations of cored rolls. Perhaps the 6/3", 5/3", or 4/3" are the most commonly used for shaft operations. The main advantage in purchasing Tilt-Lock Step Chucks is that fewer separate chucks are required for applications where core I.D.'s vary from roll to roll. To compute torque factors and dimensions of a given Step Chuck design, simply use the largest size as the flange model, and add the shoulderless "step" for each of the smaller succeeding diameter required. Available in either 2-Way or regular standard models.

TILT-DUALOCK CHUCKS

The Tilt-Dualock Chuck features a depress-able spring flange shoulder that enables the operator to load and reload rolls on a shaft without ever touching a tool. The operator merely depresses the spring flange and inserts or withdraws the shaft containing the chucks.

A Tilt-Lock Flange Chuck or Idler is located on one side of the shaft, while the Tilt-Dualock Chuck is secured to the opposing end of the shaft, spaced the width of the roll apart. Absolute roll control is assured both laterally and radially. A simple reverse twist of the shaft or roll disengages the chuck when removing. For uniform roll width operations, the Tilt-Dualock Chuck offers you the

Equipment upon which Tilt-Lock Chucks and Mandrels are used:

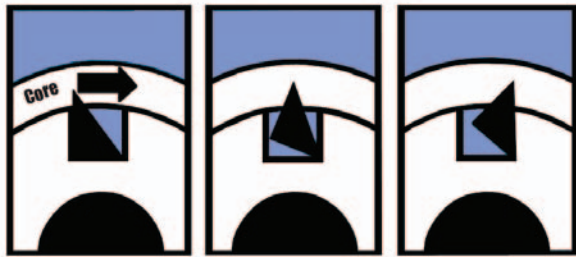
- Slitter
- Sheeter
- Box Maker
- Collator
- Tuber
- Embosser
- Core Cutter
- Laminator
- Rewinder
- Paper Maker
- Plastic Extruder
- Corrugator

Whether expensive or relatively simple tension control systems are necessary for your roll applications, all web operations depend on one fundamental principle to assure a quality finished product. You must have positive locking, concentric running chucks on your parent or finishing rolls.

TILT-LOCK CHUCKS OFFER YOU THE IDEAL ANSWER

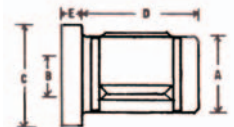
HOW TILT-LOCK WORKS

1. Tilt-Lock Chucks featuring spring activated Tilt-Lock Teeth assure instant, automatic lock-up in a wider range of core I.D. variations. The steel springs, located under each tooth, "tilt" the tool steel teeth forward and out from the chuck chassis when in the relaxed position. The tooth circle reduces to the size of the core I.D. when entering the core. Steel bands hold the teeth in the tooth cavities yet allow free movement in the core. Bands also provide for easy tooth removal when changing roll directions
2. The tool steel triangle teeth are hardened to assure positive bite.
3. Tilt-Lock is equally efficient for drive, brake, wind, unwind, or rewind.



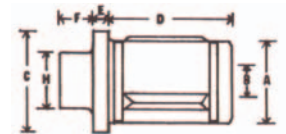
HOW TO ORDER TILT-LOCK CHUCKS

Refer to the specification sheet that corresponds with the Chuck Style Series that you need. The legend and diagrams that appear to the right illustrate the dimensions references as used in the charts. Find the specifications that fit your need and order by chuck number

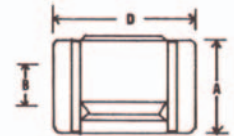


FLANGE STYLE

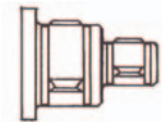
- A – Chuck body diameter
- B – Bore or shaft size
(max shaft size)
- C – Flange O.D.
- D – Projection into core
- E – Flange thickness
- F – Hub length
- H – Hub diameter



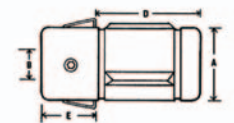
FLANGE STYLE WITH HUB



SHOULDERLESS STYLE



STEP CHUCK STYLE



TILT-DUALOCK STYLE

For additional information, write or call



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