



# Linear Feed Units

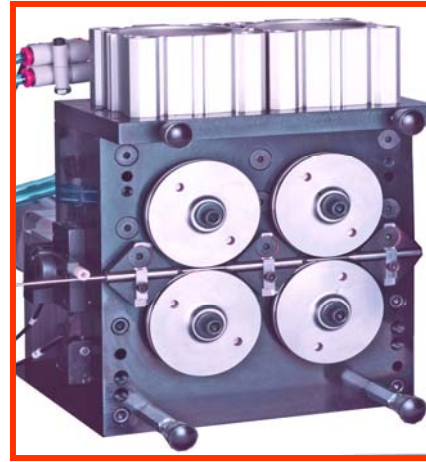
for

Fine Wire and Thin Strip Materials



**Dual Belt Tractor Feed**

The TAK Dual Belt Tractor Feed can be integrated with most fine wire and strip processing operations, and offers features and benefits that make it an excellent choice for pull-feeding applications. The material is guided between two pressure pads, one above and one below the cog belts. Pressure on the belts is applied through an adjustable jack screw or pneumatic cylinder. The cog belts are molded from a plastic material soft enough to flow around the wire diameter, but not so hard as to damage or distort it. The force is spread out over a large surface area so it has only minimal effect on the material being pulled, yet provides ample grip. The need to grind feed roll tooling and guides for each specific wire diameter is eliminated due to the nature of the belt material. Depending upon the specific application, constant speed, variable speed, stepper or servo motor and controllers can be utilized to drive the feeder.



**Four Roll Feed**

The TAK Four Roll Feed Box can be integrated with most fine wire and strip processing operations, and offers features and benefits that make it an excellent choice for applications that require a high degree of accuracy and repeatability. The material is guided between two pairs of synchronously geared feed rolls, with adjustable gripping pressure applied through pneumatic cylinders. The feed rolls are ground to suit the specific material cross section, and can accept up to 3 individual wire grooves. The Four Roll Feed Box is well suited for high speed feed applications, and when equipped with the appropriate drive and controls, is an excellent choice for demanding multi-directional feed requirements. When servo-drive configured, dual axis are employed to insure accuracy and repeatability. Depending upon the specific application, constant speed, variable speed, stepper or servo motors and controllers can be utilized to drive the feeder.

## General Specifications

|                                   | Dual Belt Tractor Feed                         | Four Roll Feed                               |
|-----------------------------------|--|--|
| <b>Wire Size Range</b>            | .004" to .200" ( 0.1mm to 0.5mm )              | .006" to .100" ( 0.15mm to 2.5mm )           |
| <b>Strip or Shape Range</b>       | Up to .450" W x .100"T ( 11.25mm x 5.0mm )     | Up to .300"W x .100"T ( 7.5mm x 5.0mm )      |
| <b>Max Pulling Power</b>          | 25 Lbs ( 11.34 Kg )                            | 70 Lbs ( 31.75 Kg )                          |
| <b>Feed Accuracy</b>              | +/- .005" ( 0.125mm ) Drive Dependent          | +/- .003" ( 0.075 mm )                       |
| <b>Max Constant Feed Rate</b>     | 170 FPM ( 55 MPM )                             | 500 FPM ( 165 MPM )                          |
| <b>Feed Roll / Cog Belt Specs</b> | .45" x 3.0" ( 11mm x 75mm ) Grip Area          | 2.5" D x .500" W ( 62.5mm x 12.5mm )         |
| <b>Space Requirement</b>          | 10.3" x 7.2" x 10.9" ( 257mm x 180mm x 272mm ) | 7.2" x 7.5" x 7.0" ( 180mm x 187mm x 175mm ) |
| <b>Weight</b>                     | 16 Lbs ( 7.25 Kg )                             | 22 Lbs ( 9.97 Kg )                           |

**Note: The performance and capabilities of these units are extremely flexible. Each application should be reviewed in detail to determine the compatibility and actual performance that can be expected. Please submit specific requirements for evaluation**