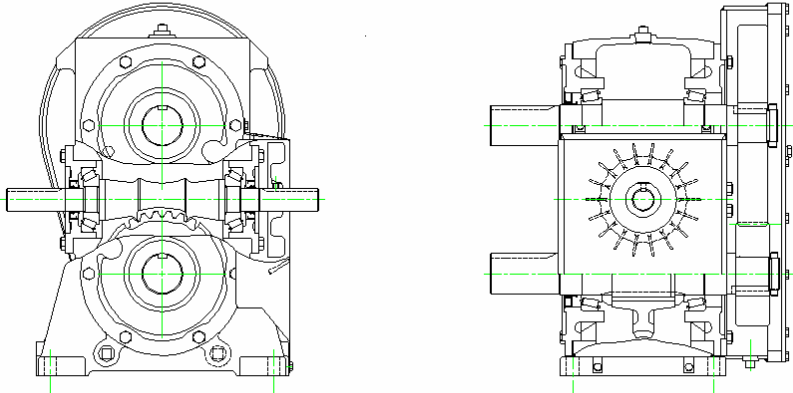


## UNEQUAL RATIO PINCH ROLL FOR TUBE FORMING



Three manufacturers of roll form tube mills in the north east Ohio territory have purchased pinch roll type units with unequal pinch roll drives from Cone Drive over the years. Cooperation with an OEM now enables Cone Drive to offer a compact, well-engineered and durable bolt-on reducer.



**engineered to keep you moving**

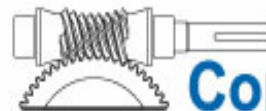
### Pinch roll drive

In the past Cone Drive and its customers have attempted to produce a pinch roll unit with two output shafts rotating at different speeds by putting sprockets on both of the gear shafts. Some customers have accomplished the same feat alone by using Cone Drive gear sets with their own special designed housings and spur type gearing on the output shafts.

The ideal arrangement is clearly to offer a bolt on reducer which means customers do not have to do their own machining or assembly of special housings. Close cooperation between Cone Drive engineering and the OEM customer achieved this goal and as a result Cone Drive now offers units in a choice of ratios with acceptable lead times. After the success of the first order a purchase order has now been received for a second and various sizes and ratios have been quoted.

The Cone Drive model FD56255-4, 5.000" C.D., 7.5:1 ratio, uses a 1.588:1 or 2:1 ratio external helical gear set to drive the upper gear shaft of the Pinch Roll reducer

While some value engineering is required and the choice between spur and helical gears is an important consideration, the project has been judged a clear success. In such applications thermal horsepower is still a critical concern and the customer is required to use an external oil cooler to overcome the problem.



**Cone Drive**  
A Textron Company

**engineered to keep you moving**



#### **Cone Drive**

North America: +1 888 994 2663

Central & South America: +1 231 946 8410

#### **Sister companies**

##### **David Brown & Benzlers**

Africa: +27 11 748 0000

Australia: +61 2 4283 0300

China: +86 21 5396 6360

Europe: +33 3 89 37 01 13

Scandinavia: +46 42 18 68 00

Thailand: +66 38 459044

United Kingdom: +44 (0)1484 465500

#### **Cone Drive pinch roll series reducers.**

Sizes from 4 inch up to 48 inch output shaft centre to centre

Available in equal or unequal ratio

Worm ratios from 5:1 through 70:1

Solid or hollow output shafts

Single or double extended input shafts

Internal water cooling or external fan cooling