

# Large Double-Enveloping Gearsets — up to 48 in. or 1200 mm.

Industry-leading load capacity and shock loading with double-enveloping gearing from Cone Drive provides greater durability and reliability.

**UP TO 3X CAPACITY OVER CYLINDRICAL GEARING**

## Advantages at-a-glance:

- **Speed:** Industry leading lead times
- **Inch or metric** availability
- **Customization:** flexibility for custom gear ratios and sizes
- **Engineered efficiency:** double-enveloping design enables downsizing or upgrading capacity while retaining the same worm/gear size
- **Optimized gear geometry:** maximum strength and efficiency, minimum noise and vibration

### APPLICATIONS:

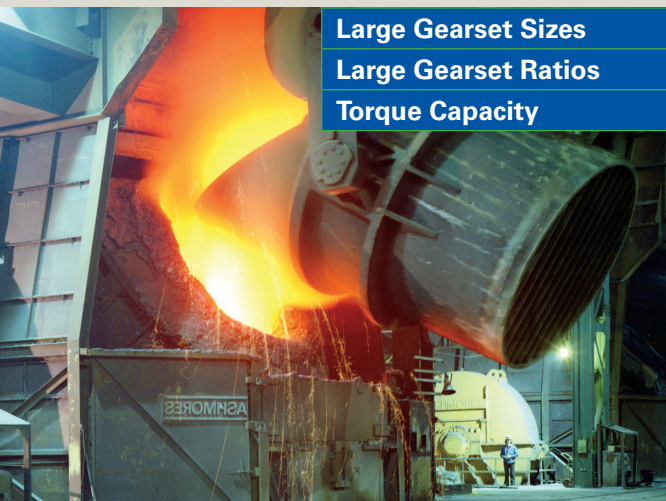
- Screwdowns
- Mixing
- Pulverizers
- Lifting
- Pumping and more

*Below:* Cone Drive large double-enveloping gearsets lend power and capacity to the metals industry.

Our NEW manufacturing processes can often enable us to eliminate tooling costs and substantially reduce lead times, allowing Cone Drive to deliver almost any size and ratio. Now it's much easier to replace your long lead time gearsets.

Our large double-enveloping gearsets can potentially save thousands of dollars in set-up costs with added flexibility for custom ratios and center distances. Reduce downtime, increase reliability and get quick delivery with industry-leading large gearsets from Cone Drive. These powerhouse gearsets are designed with our renowned double-enveloping technology that transmits up to 3 times more torque than a cylindrical worm with the same center distance. This provides the potential for downsizing your gearset as well as dropping into your current application and providing more capacity.

Specify Cone Drive for the best in performance, precision, strength, and personal service and engineering, before and after the sale.



**Large Gearset Sizes**

**Large Gearset Ratios**

**Torque Capacity**

15–48 in. or 380–1200 mm. center distances

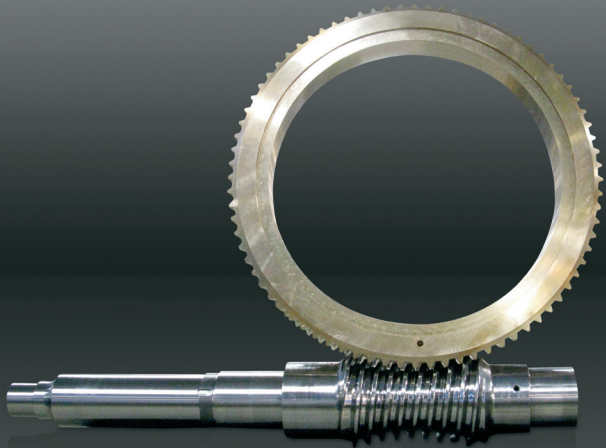
From 5:1 to 70:1 Standard. Custom ratios available upon request.

Output torque up to 2,850,000 lbs.–inch



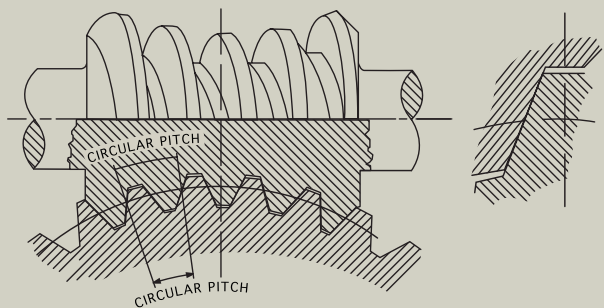
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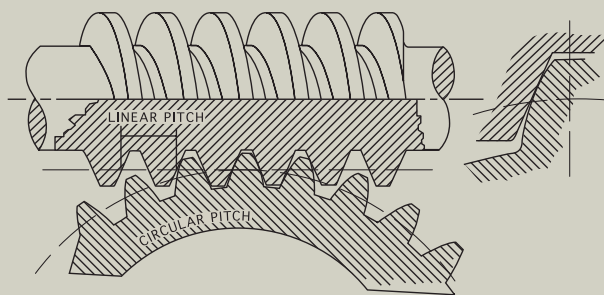
## The Difference: Double-Enveloping Technology



### The Cone Drive Double-Enveloping Gear

Total load is distributed among more teeth and surface area, greatly increasing torque, load carrying capacity and shock load resistance. Double-enveloping gearsets are more efficient and in a torque-for-torque comparison, are smaller and lighter than standard cylindrical gearsets.

## VERSUS



### The Standard Cylindrical Gear:

Total load is concentrated to only one-or-two teeth, decreasing torque, load carrying capacity and shock load resistance. As a result, it requires larger, heavier gearsets to produce comparable torque capacity.

**Technology rooted in Renaissance thinking:** DaVinci sketched the superior design of the double-enveloping worm gear over 500 years ago. In the 1920's, Samuel Cone developed efficient techniques to produce it, thus revolutionizing industrial capacity forever. At Cone Drive, we've been refining the design and manufacturing process ever since.

**The Cone Drive double-enveloping design difference:** With a standard cylindrical worm gearset, only one-to-two gear teeth are in contact with the worm. With Cone's double-enveloping design, the worm "wraps around" the gear putting three-to-eleven teeth in contact with the worm. That means the total load is distributed among more teeth, greatly increasing torque, load carrying capacity and shock load resistance.

**Efficiency at every turn:** With the most efficient worm gear geometry, the improved torque throughput allows a dramatically smaller gearset to produce the same amount of torque. Cone Drive gearsets can save on size, weight, space—and horsepower for horsepower—cost less than standard cylindrical gearing.

**Design driving today's industry:** Cone Drive's double-enveloping gear design drives equipment in mining, steel, aerospace, automotive, printing, packaging, solar, medical and more.

**Contact Cone Drive to see how we can power your progress.**



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