

WORKING WITH THE METALS INDUSTRY
FOR OVER 100 YEARS

Cleveland

SERVING THE METALS INDUSTRY FOR OVER 100 YEARS

The **Cleveland Gear Company** has been manufacturing gears and enclosed drives since 1912. An early member of the AGMA, Cleveland is a pioneer and a world leader in Worm Gear Technology.

Today, Cleveland Gear manufactures several types of open gearing including: worms, helical, double helical and spur gears. Additionally, we provide the Steel Industry a wide variety of enclosed drives:

Standard & Custom worm gear (1.33" to 36" C.D.), Standard parallel & right angle bevel-helical as well as custom designed reducers and "drop-in" replacements for obsolete units.

Cleveland Gear's standard parallel shaft and helical-bevel right angle drives are offered in:

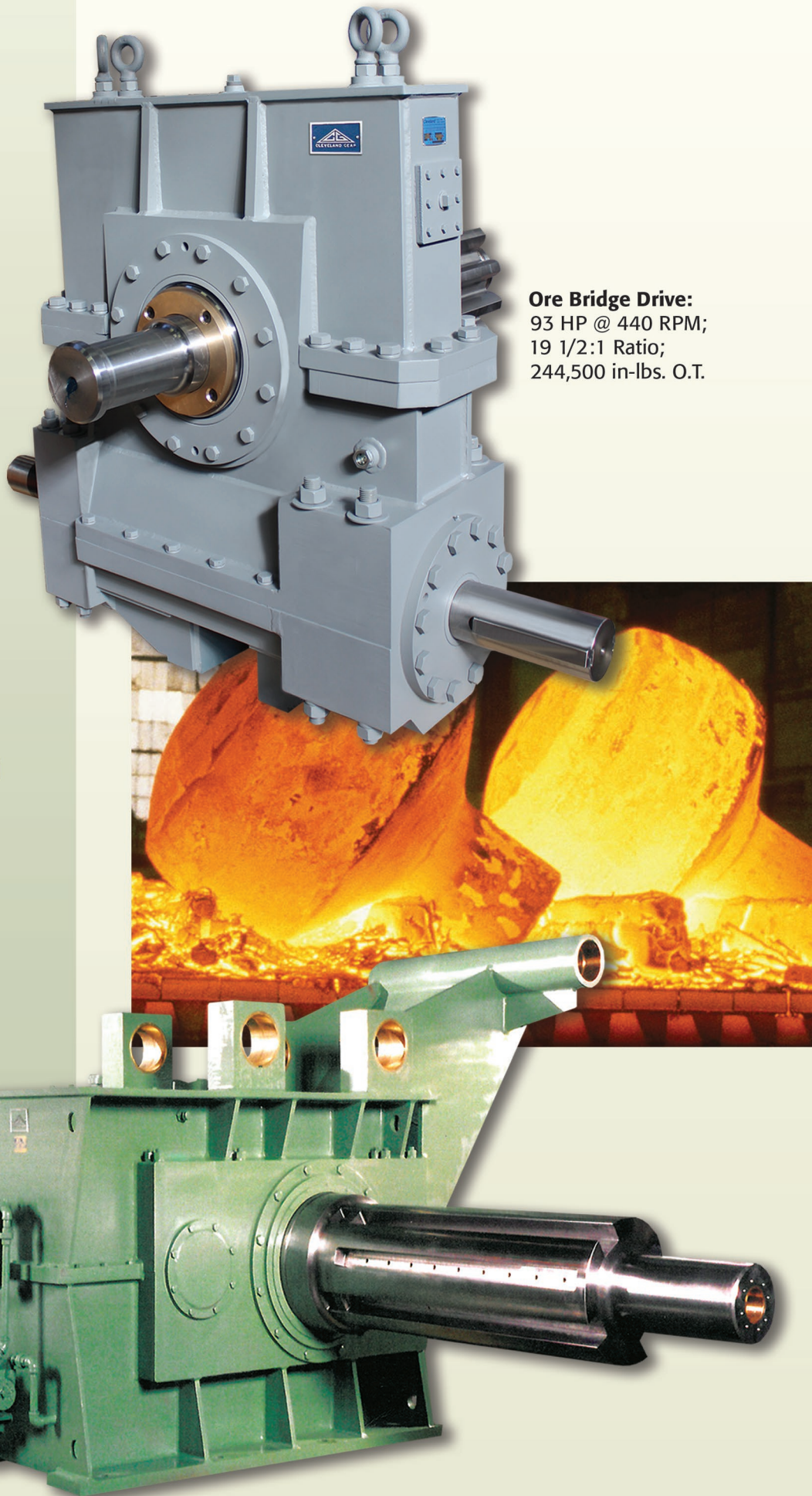
- **Single thru Quad Reduction**
- **Ratios 1:1 to 600:1**
- **5 to 10,00 HP**
- **Up to 8.0 million in-lbs. of output torque.**

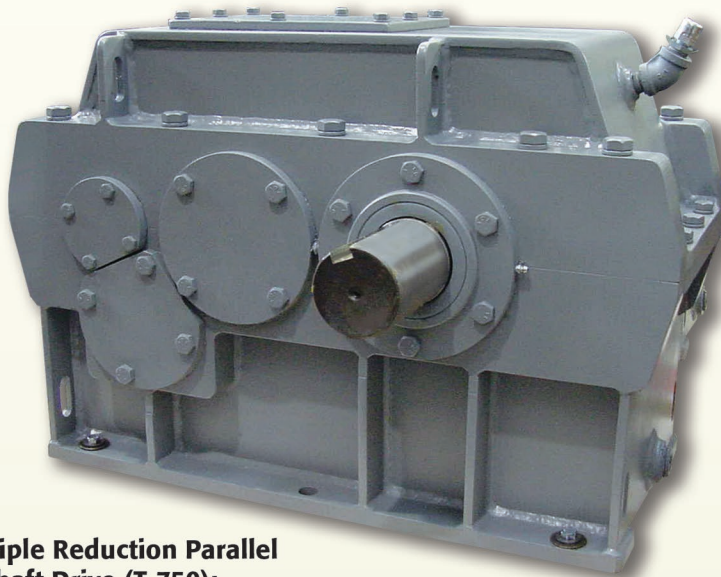
Recoiler Drive:

500 HP @ 500 RPM;
34.5:1 Ratio;
1,176,250 in-lbs. O.T.
OHL 100,000 lbs. @ 46"

Ore Bridge Drive:

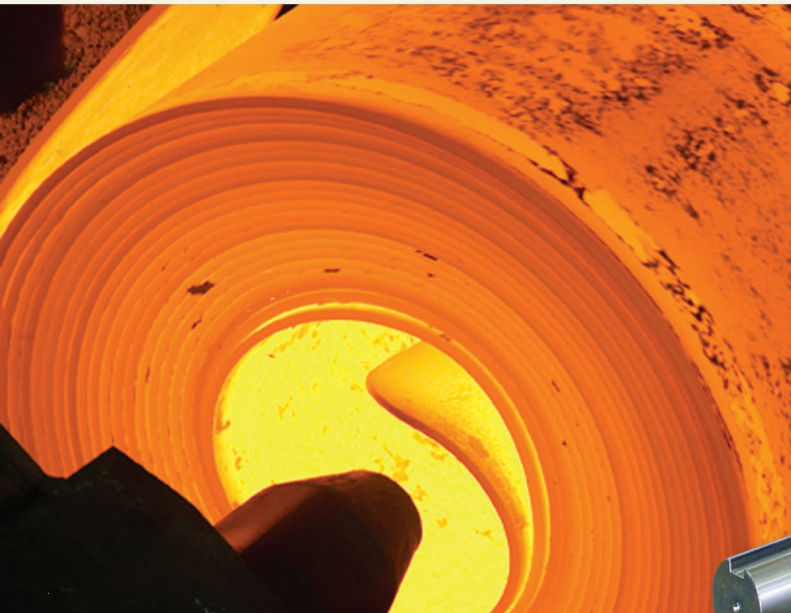
93 HP @ 440 RPM;
19 1/2:1 Ratio;
244,500 in-lbs. O.T.



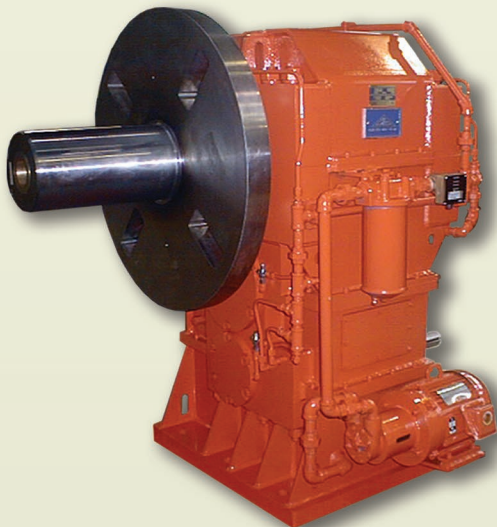
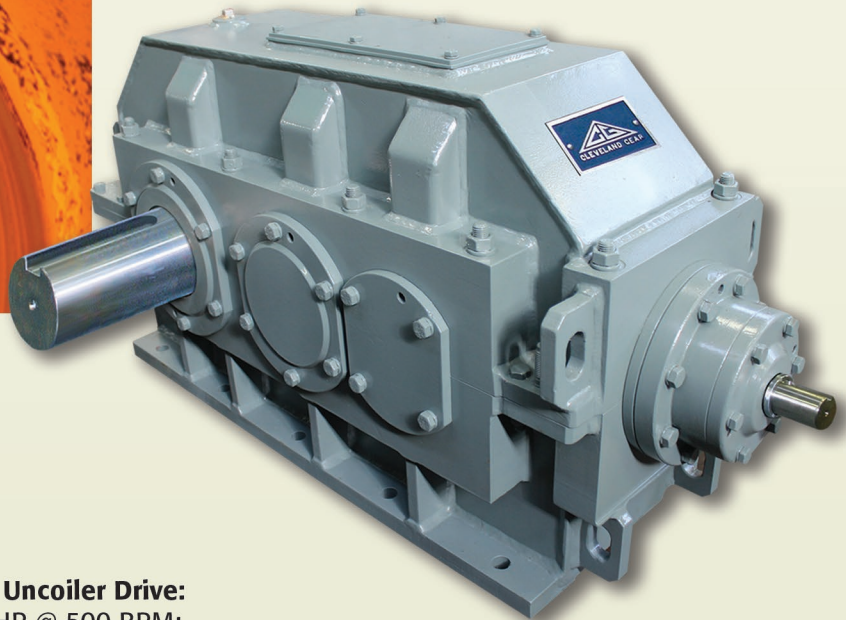


**Triple Reduction Parallel
Shaft Drive (T-750):**
16.6 HP @ 675 RPM;
60:1 Ratio; 92,997 in-lbs. O.T.

Helical Pinch Roll Drives:
219 HP @ 185 RPM;
1:1 Ratio;
37,300 in-lbs O.T. / Shaft;
10" Vertical Centers



**Triple Reduction Right
Angle Bevel Drive:**
100 HP @ 1750 RPM;
45.54:1 Ratio;
164,000 in-lbs. O.T.

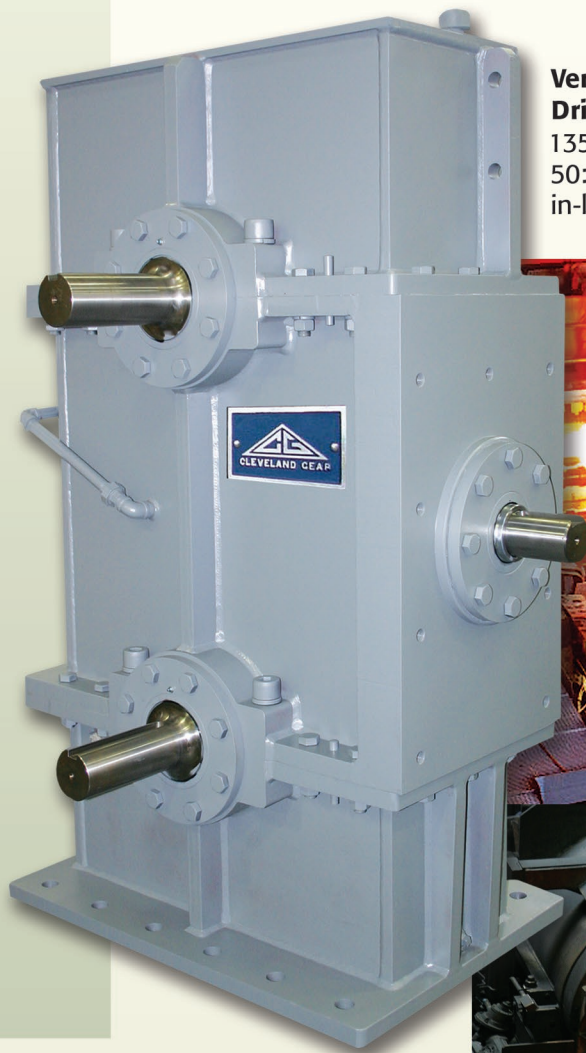


Stub Uncoiler Drive:
180 HP @ 500 RPM;
55:1 Ratio;
1,247,800 in-lbs. O.T.;
OHL 53,000 lbs @ 20"

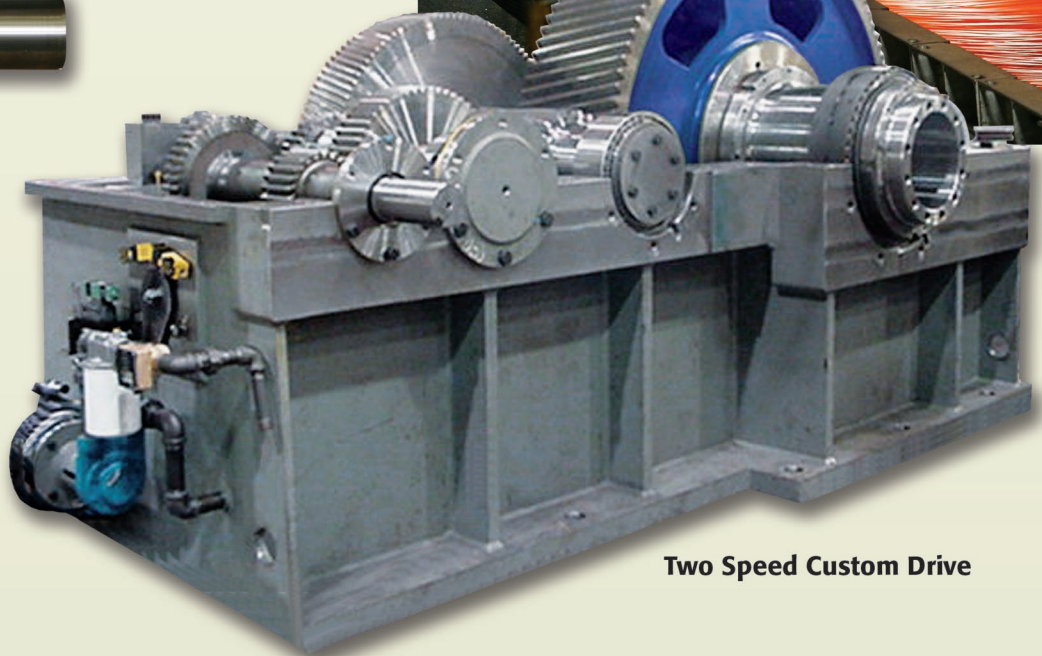
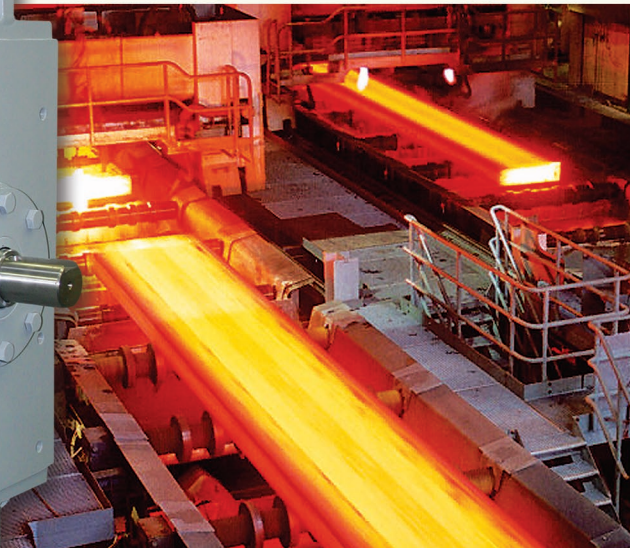


APPLICATION EXPERIENCE

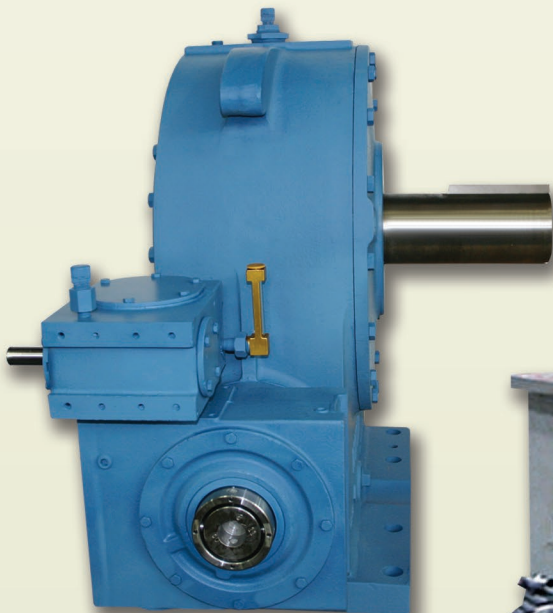
- Uncoiler & Recoiler
- Flatteners
- Leveler Drives
- Screw Down
- Horizontal Pinch Rolls
- Vertical Pinch Rolls
- Transfer Car
- Accumulator
- Slitter Drives
- Cooling Bed Transfer
- Bridge Crane Drives
- Trolley Drives
- Run-Out Table Drives
- Scrap Chopper Drives
- Conveyor Drives
- Walking Beam Drives
- Edger Drives
- Multi-Speed Drives
(2, 3, & 4 speed)



Vertical Pinch Roll Drive-36"Centers:
135 HP @ 1750 RPM;
50:1 Ratio; 99,670 in-lbs/output shaft.



Two Speed Custom Drive



Furnace Charging Drive:
3 HP @ 1200 RPM;
18,900:1Ratio;
180,000 in-lbs. O.T.

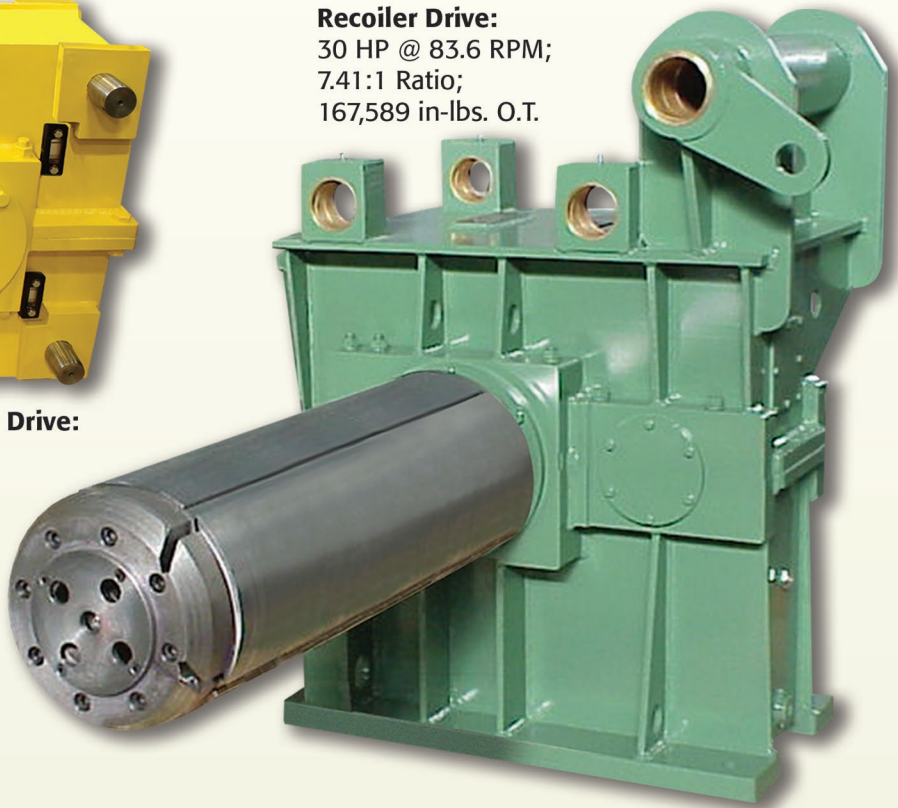


Universal Bridge Crane Drive:

63 HP @ 734 RPM;
24,415:1 Ratio;
132,074 in-lbs O.T.

Recoiler Drive:

30 HP @ 83.6 RPM;
7.41:1 Ratio;
167,589 in-lbs. O.T.

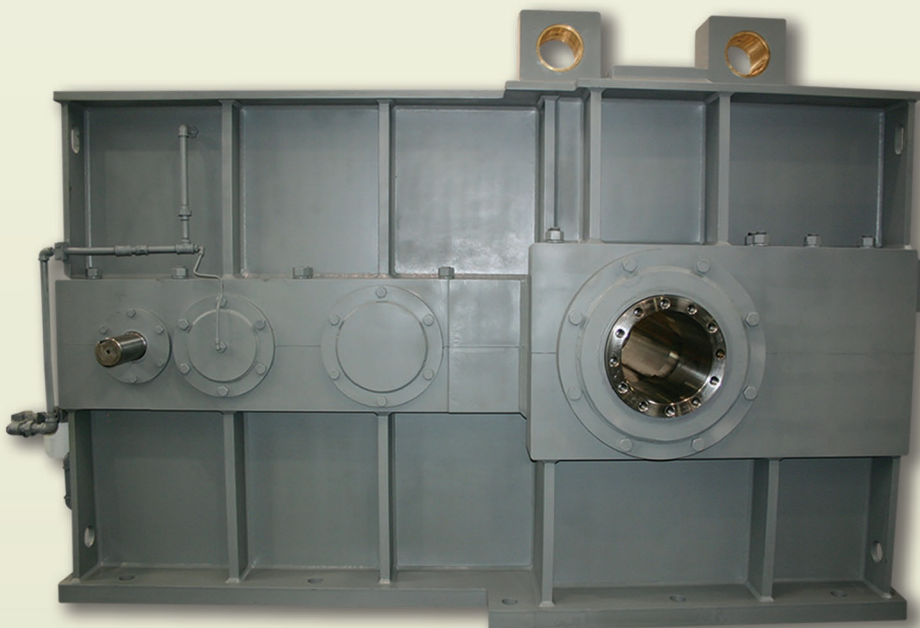
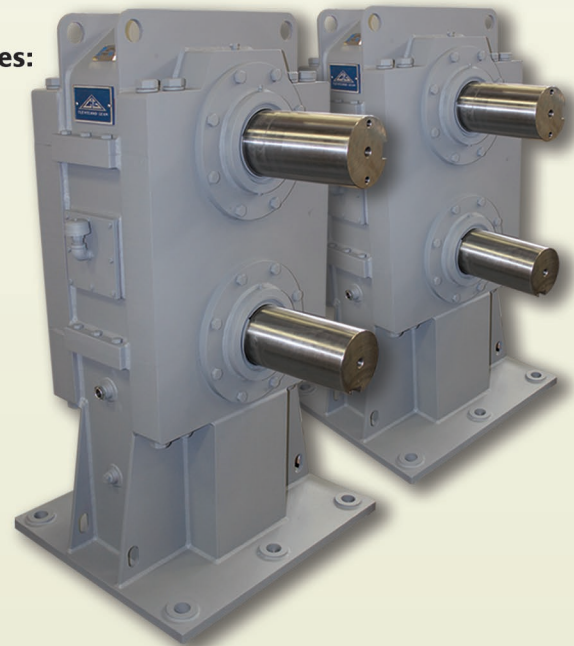


Flattener Drive (5 Shafts):

75 HP @ 547 RPM;
1.00:1 Ratio;
2,000 in-lbs. O.T. / Shaft

Helical Pinch Roll Drives:

320 HP @ 25.55 RPM;
1:1 Ratio;
473,613 in-lbs/ Shaft;
20" Vertical Centers



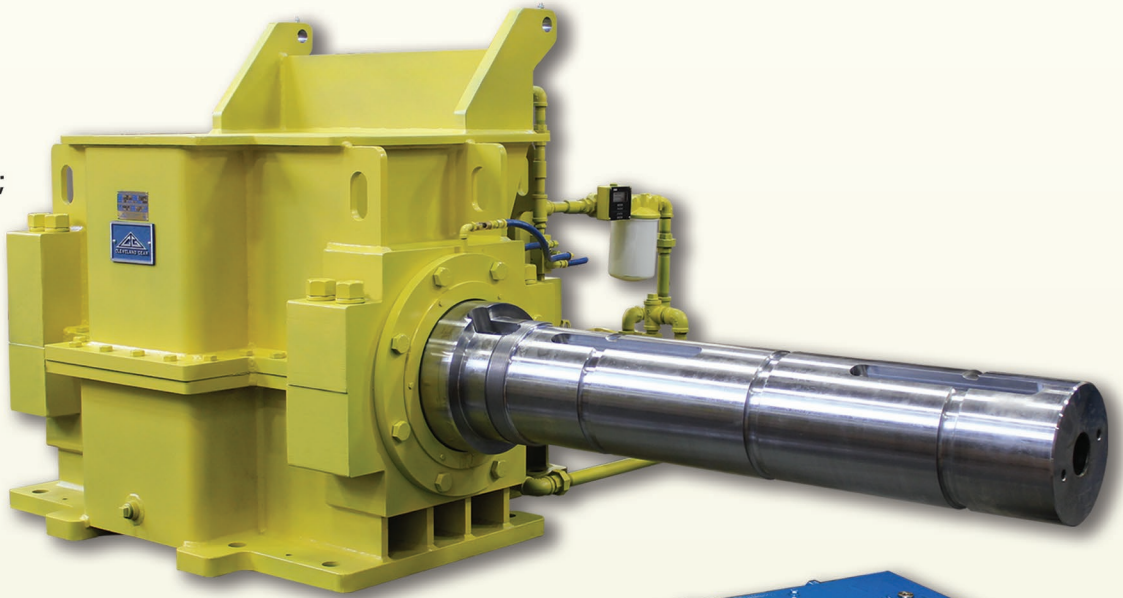
Two Speed Reel Drive:

690 HP @ 500/1500 RPM;
20:1 & 50:1 Ratios;
4,348,700 in-lbs. O.T.
OHL 83,172 @ 58"

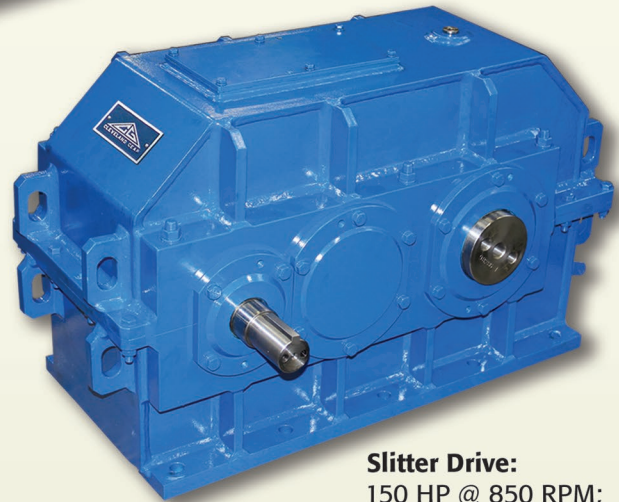


Uncoiler Drive:

125 HP @ 650/2000 RPM;
5.053:1 Ratio;
61,238 in-lbs. O.T.
OHL 36,000 lbs. @ 31"

**17 Shaft Flattener Drive:**

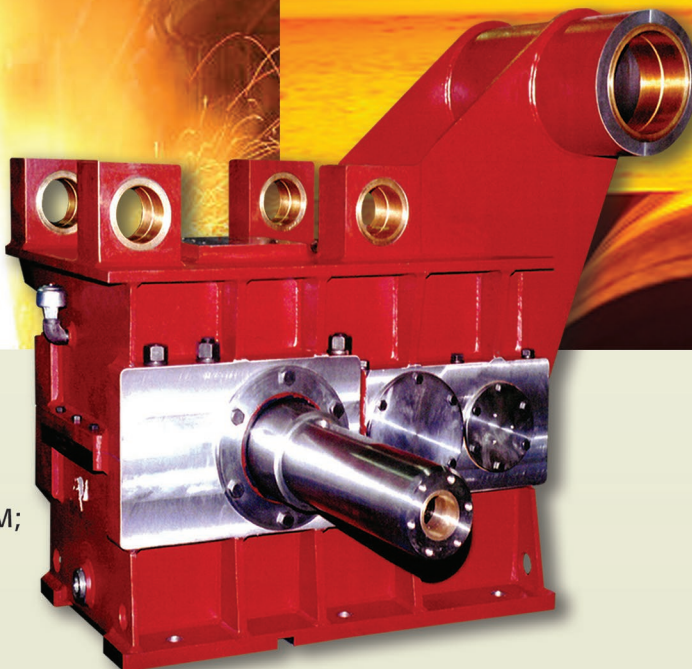
100 HP @ 1750 RPM;
3.086:1 Ratio; 1:1 Rolls;
4,012 in-lbs. O.T. / Shaft

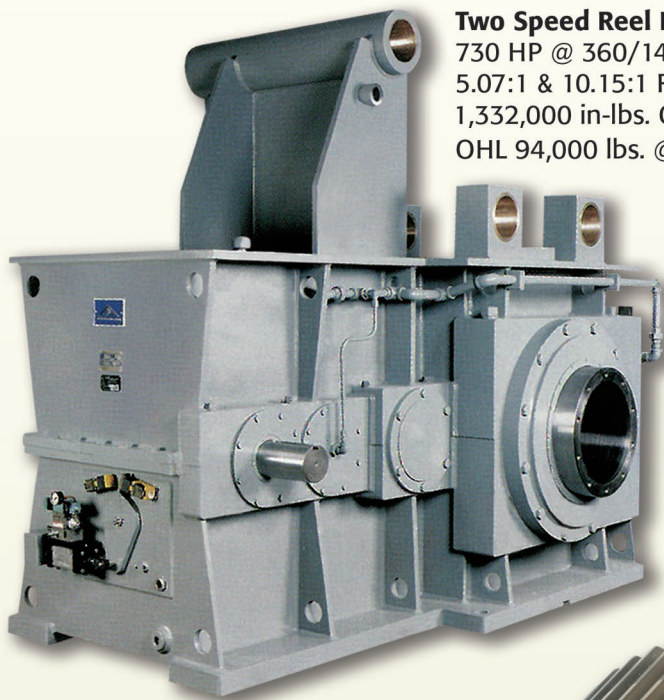
**Slitter Drive:**

150 HP @ 850 RPM;
16.24:1 Ratio;
180,600 in-lbs O.T.

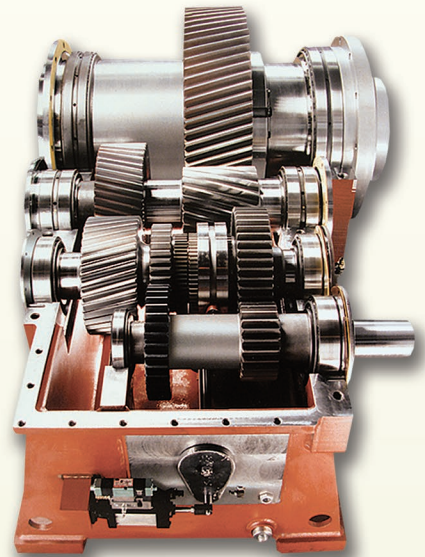
**Recoiler Drive:**

100 HP @ 500/2000 RPM;
16.05:1 Ratio;
201,600 in-lbs. O.T.
OHL 12,500 lbs. @ 16"





Two Speed Reel Drive:
730 HP @ 360/1440 RPM;
5.07:1 & 10.15:1 Ratios;
1,332,000 in-lbs. O.T.
OHL 94,000 lbs. @ 43"



**Two Speed Custom
Drive-Pneumatically
Shifted**

OPEN GEARING



WORM GEARING:

Cleveland Gear offers the broadest range of worm gearing in the industry (3.0" to 54.0" C.D.); RH & LH; special ratios etc...

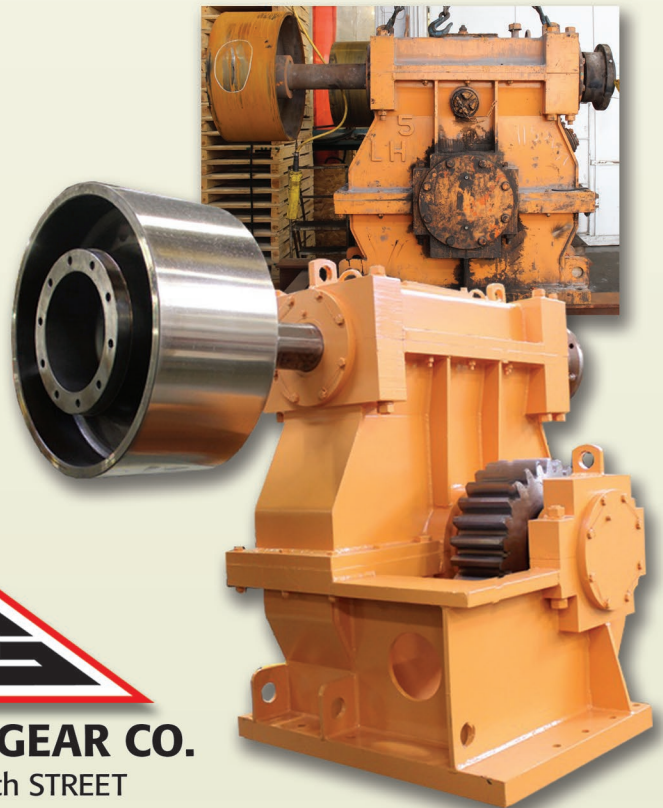
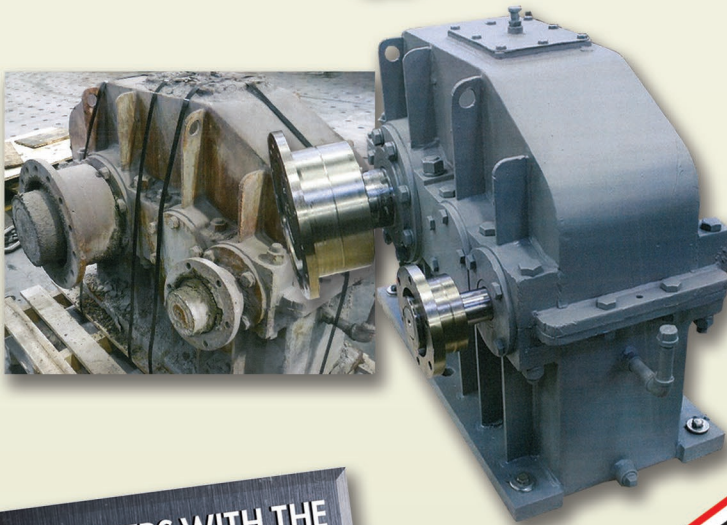
HELICAL & SPUR GEARING:

Cleveland Gear manufactures helical, double-helical and spur gears. We can hob up to a 2.4 meter O.D.



GEARBOX REPAIR & SERVICE

Cleveland Gear will repair and refurbish drives of all types. We have both the experience and engineering expertise to evaluate and repair all Cleveland Gear reducers, and gear drives produced by most other manufacturers.



PARTNERS WITH THE
METAL INDUSTRY
FOR OVER 100 YEARS
**REBUILDING
THOUSANDS
OF GEARBOXES
FOR A VARIETY
OF BRANDS**



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