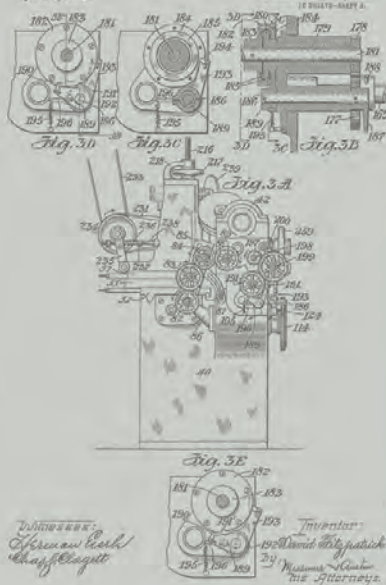


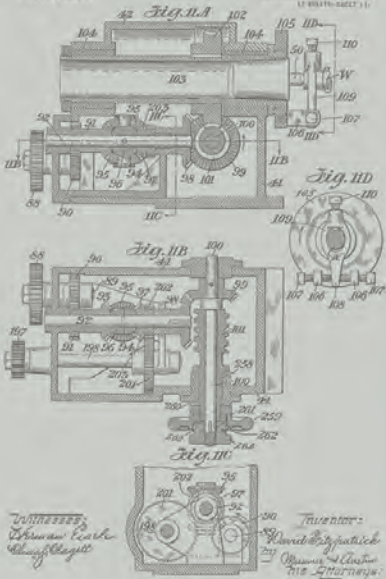
1,340,030.

Patented May 11, 1920.



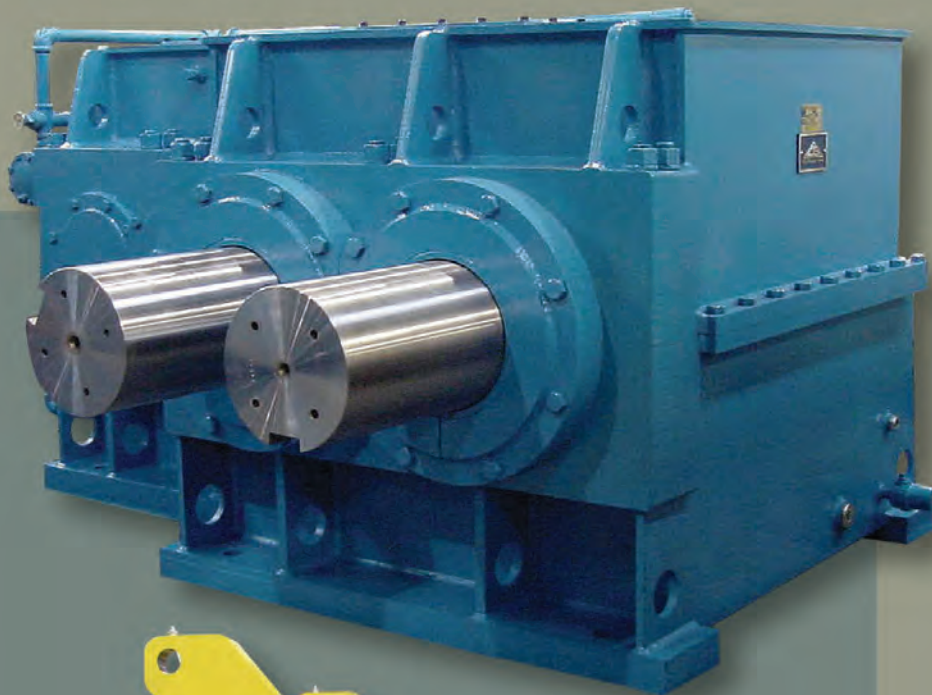
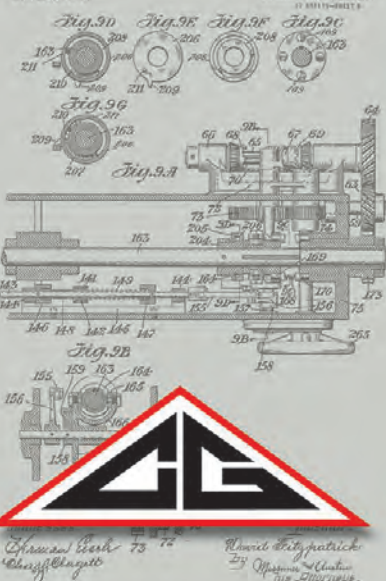
1,340,030.

Patented May 11, 1920.



1,340,080.

Patented May 11, 1920.



STANDARD PARALLEL, CUSTOM ENCLOSED & REVERSE ENGINEERED DRIVES

Cleveland

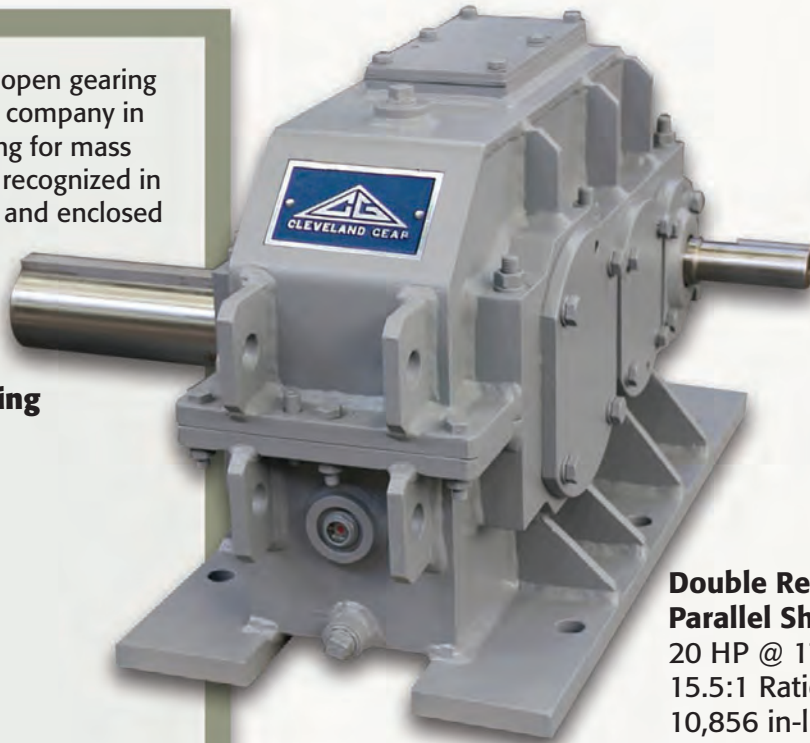
STANDARD PARALLEL & RIGHT ANGLE PARALLEL

Cleveland Gear has been producing open gearing for over 100 years. We were the first company in the U.S. to manufacture worm gearing for mass production. Today Cleveland Gear is recognized in the industry as the leader in gearing and enclosed drives. We have designed and produced custom gearing for industries such as:

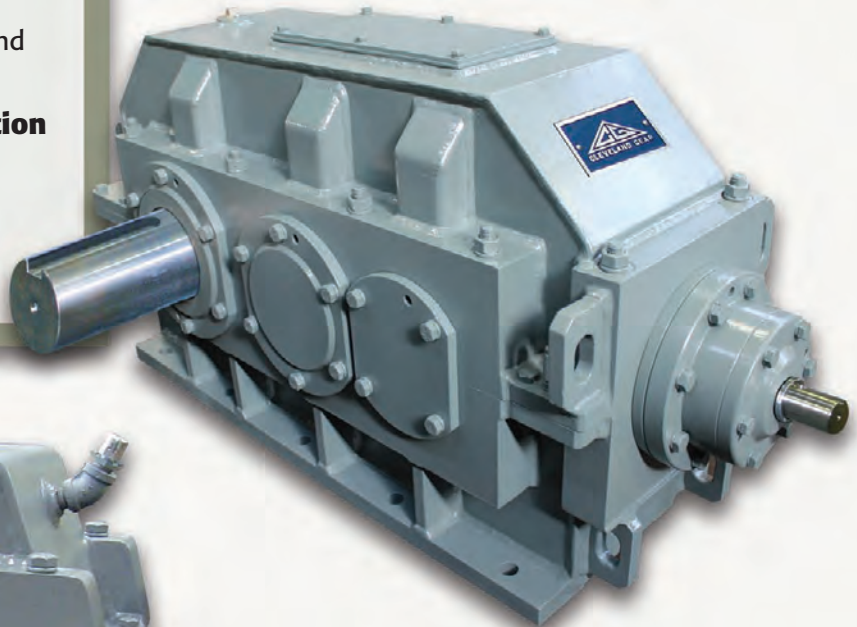
- **Rubber Products**
- **Steel Producing & Processing**
- **Pulp & Paper**
- **Recycling**
- **Lumber & Wood Products**
- **Grain Handling**
- **Oil & Gas**
- **Overhead Cranes**
- **Bulk Material Handling**
- **Mineral Processing**
- **Movable Bridges**

Cleveland Gear offers standard parallel shaft and bevel-helical right angle shaft drives.

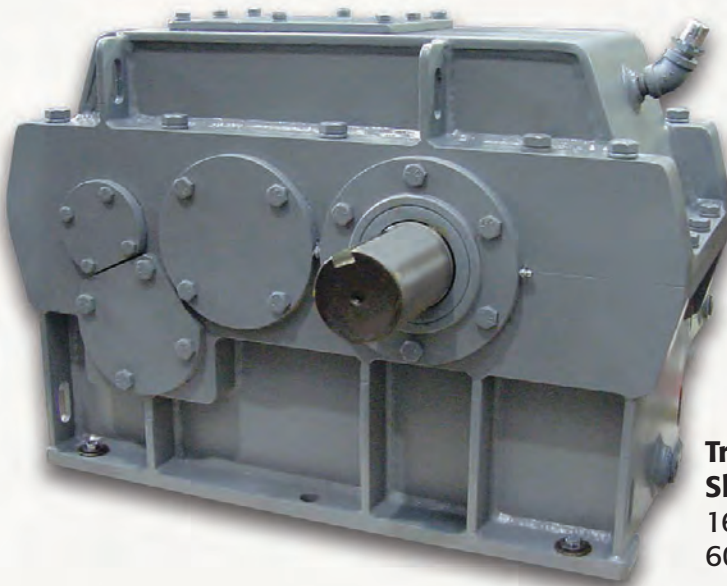
- **Offered in Single thru Quad Reduction**
- **Fabricated Steel Housing**
- **5 to 10,000 HP**
- **Up to 8.0 million in-lbs of output torque**



Double Reduction Parallel Shaft Drive:
20 HP @ 1750 RPM;
15.5:1 Ratio;
10,856 in-lbs. O.T.



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

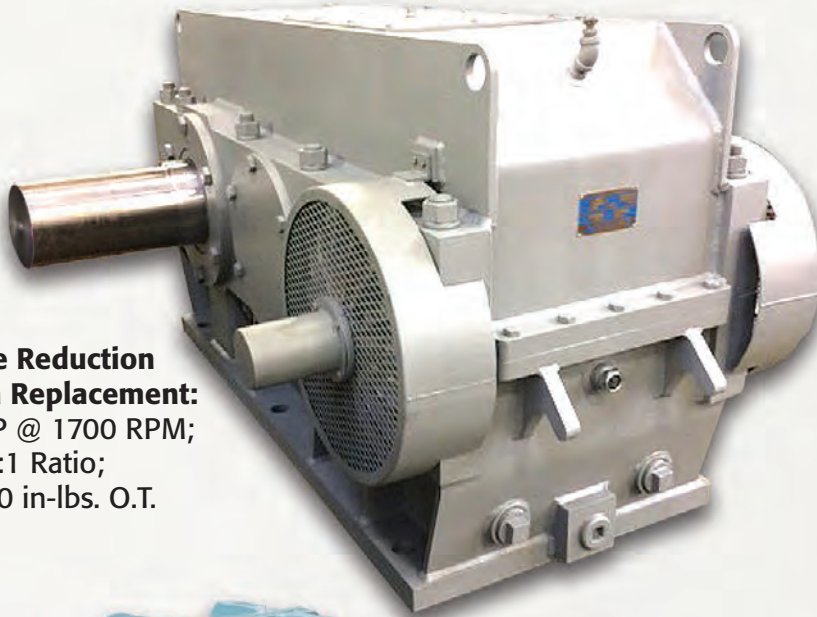


Triple Reduction Parallel Shaft Drive (T-750):
16.6 HP @ 675 RPM;
60:1 Ratio; 92,997 in-lbs. O.T.

REVERSE ENGINEERED "***DROP-IN***" REPLACEMENT DRIVES

Cleveland Gear manufactures *DROP-IN REPLACEMENT* drives to replace obsolete reducers. For most reducers, we will match all critical interface dimensions (i.e. – mounting bolt pattern, base-to-centerline and all shaft extensions), but we can also offer this service down to the component level.

Cleveland has reverse engineered and manufactured drives for obsolete reducers previously supplied by:

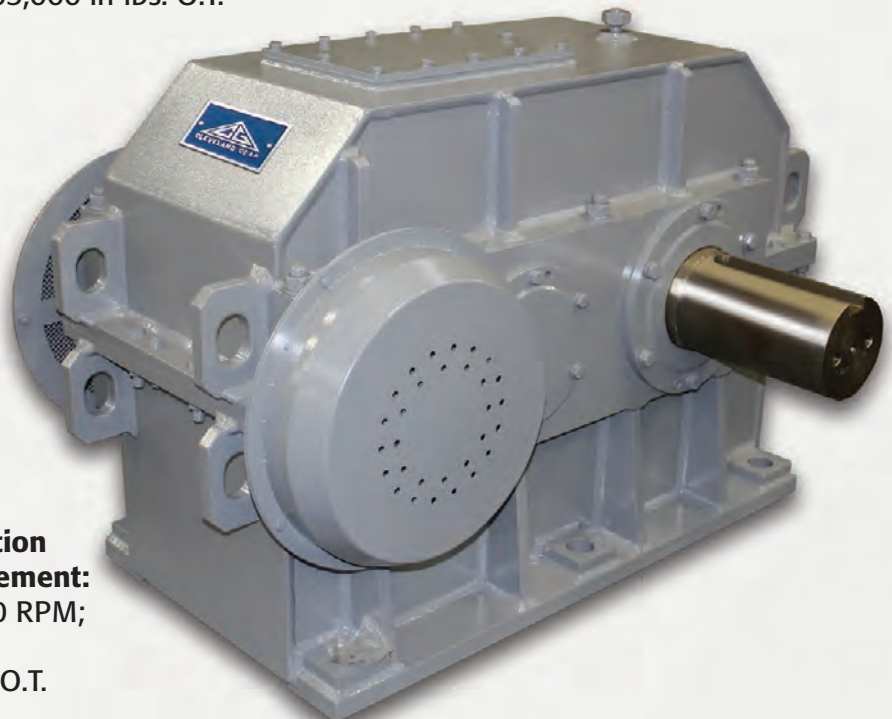


**Double Reduction
Bolt-in Replacement:**
600 HP @ 1700 RPM;
27.592:1 Ratio;
613,760 in-lbs. O.T.

- Foote Jones
- Link-Belt
- Falk
- Lufkin
- Hansen
- Foote Brothers
- WestTech
- Philadelphia Gear
- Zambello
- Earle Gear
- Aetna-Standard
- Horsburg & Scott
- Westinghouse



**Screw Feeder Drive
Bolt-in Replacement:**
71 HP @ 1775 RPM;
25:1 Ratio
63,000 in-lbs. O.T.



**Double Reduction
Bolt-in Replacement:**
437 HP @ 1750 RPM;
16.974:1 Ratio;
267,140 in-lbs. O.T.

CUSTOM & REVERSED ENGINEERED DRIVES

Custom Mixer Drive-Dual Output Shaft:

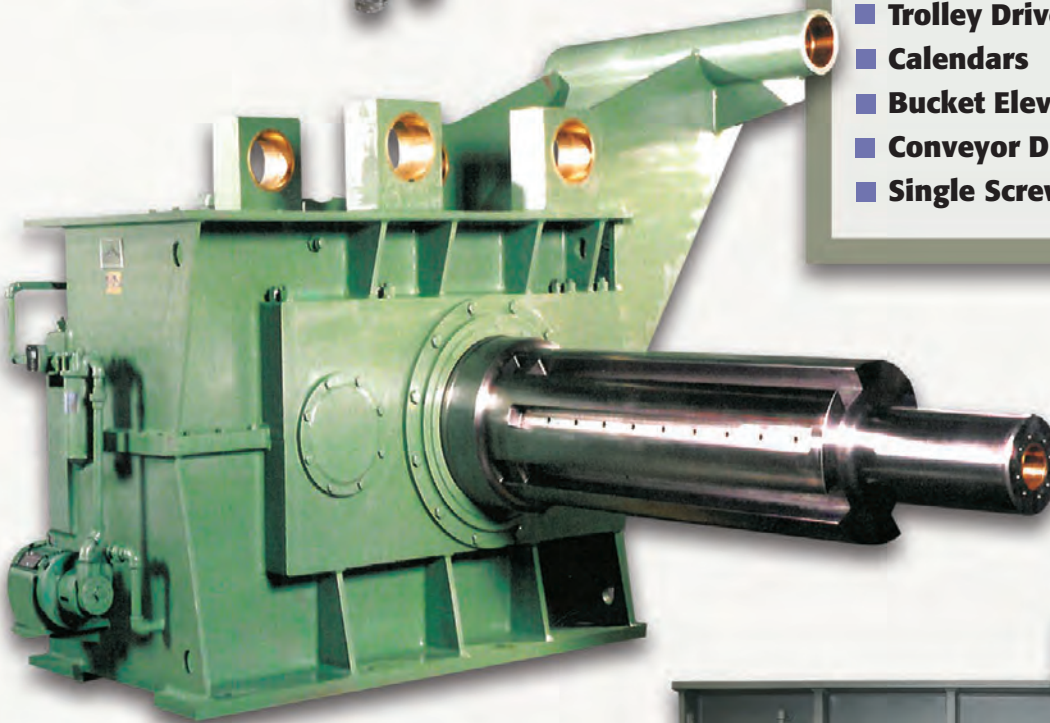
30 HP @ 1800 RPM;

30.22:1 Ratio;

15,872 in-lbs. O.T.



- **Uncoiler & Recoiler**
- **Multi-speed Drives (2,3, & 4 Speed)**
- **Flatteners**
- **Leveler Drives**
- **Rubber Mills**
- **Screw Down**
- **Horizontal Pinch Rolls**
- **Vertical Pinch Rolls**
- **Transfer Car**
- **Accumulator**
- **Slitters**
- **Cooling Bed Transfer**
- **Crane Bridge Drives**
- **Trolley Drives**
- **Calendars**
- **Bucket Elevators**
- **Conveyor Drives**
- **Single Screw Extruder**



Recoiler Drive:

500 HP @ 500 RPM;

34.5:1 Ratio;

1,176,250 in-lbs. O.T.

OHL 100,000 lbs. @ 46"

Two Speed Reel Drive:

690 HP @ 500/1500 RPM;

20:1 & 50:1 Ratios;

4,348,700 in-lbs. O.T.

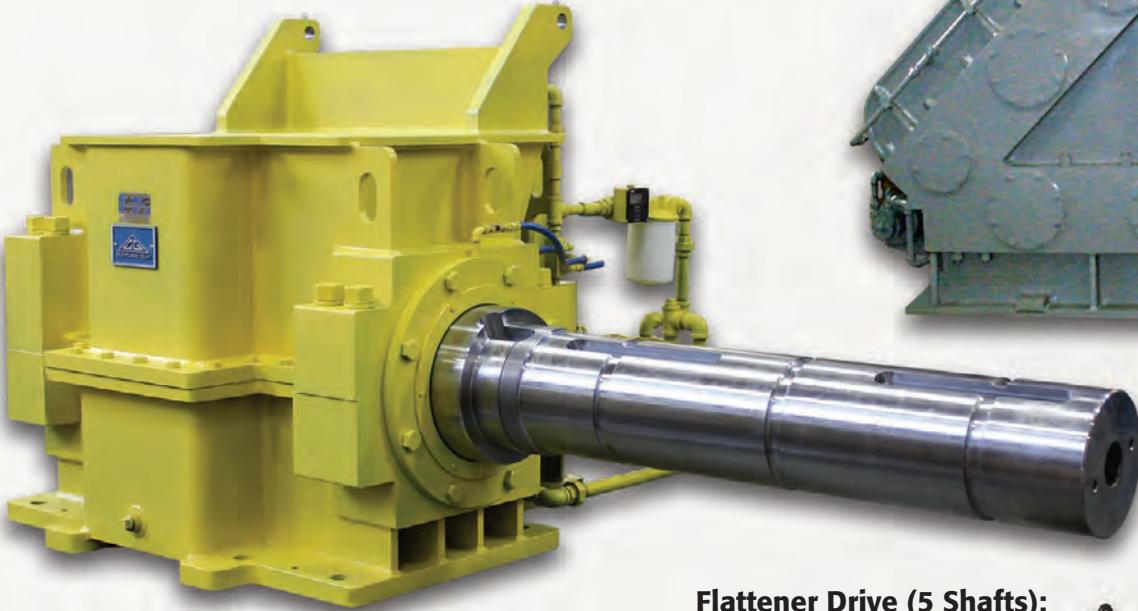
OHL 83,172 @ 58"



CUSTOM & REVERSED ENGINEERED DRIVES

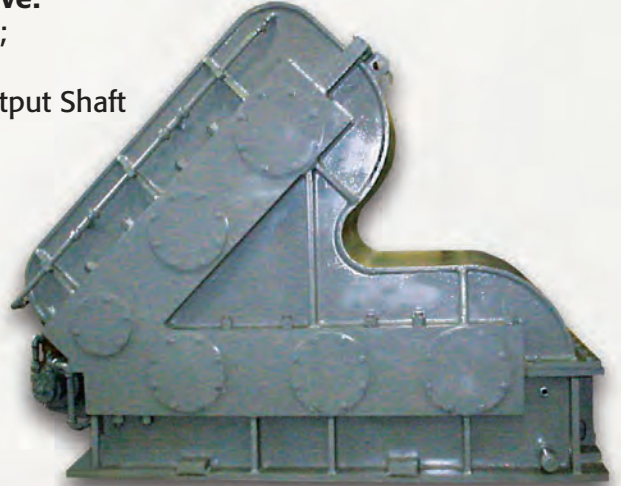
Uncoiler Drive:

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



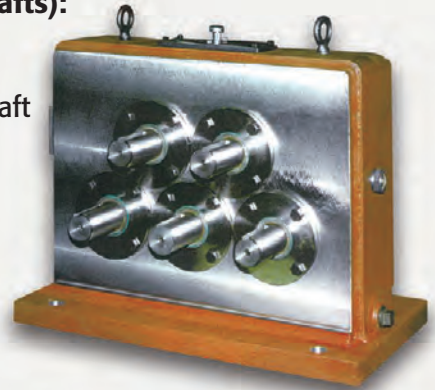
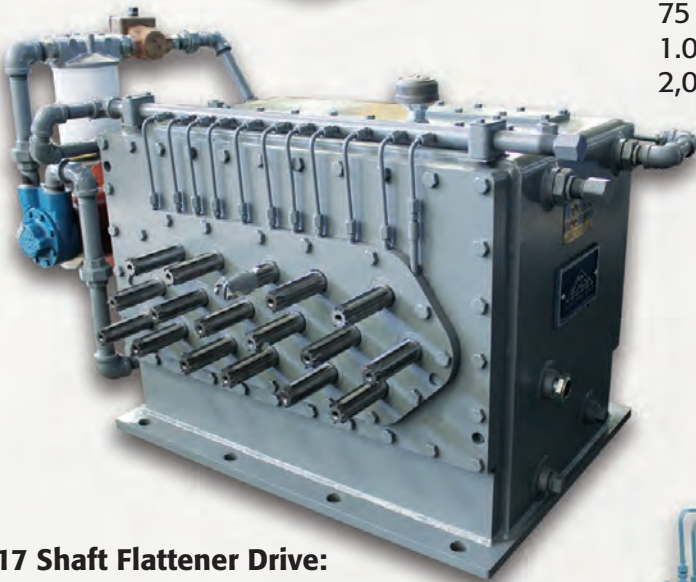
Bar Straightener Drive:

196 HP @ 253 RPM;
20.52:1 Ratio;
487,500 in-lbs. / Output Shaft



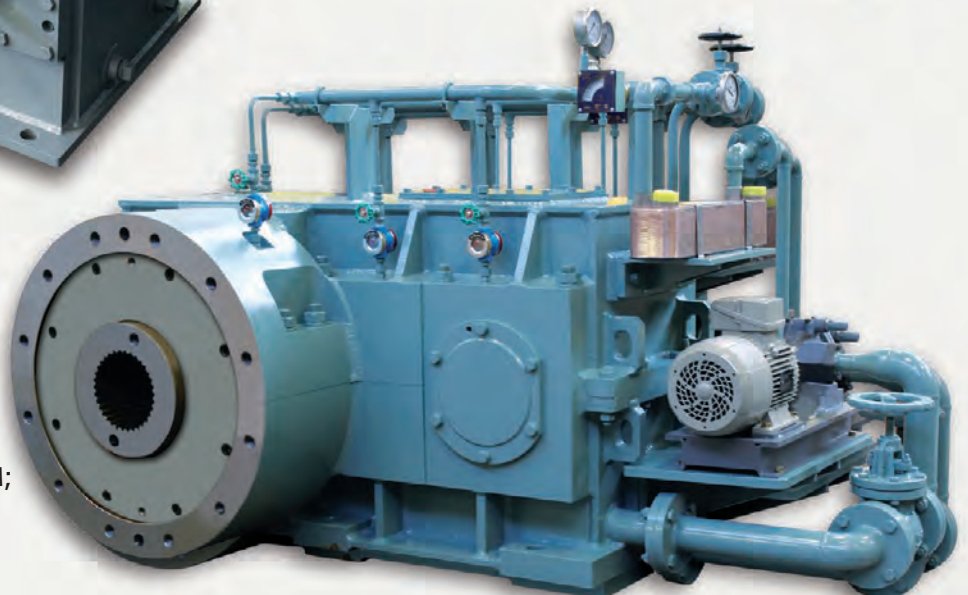
Flattener Drive (5 Shafts):

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



17 Shaft Flattener Drive:

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



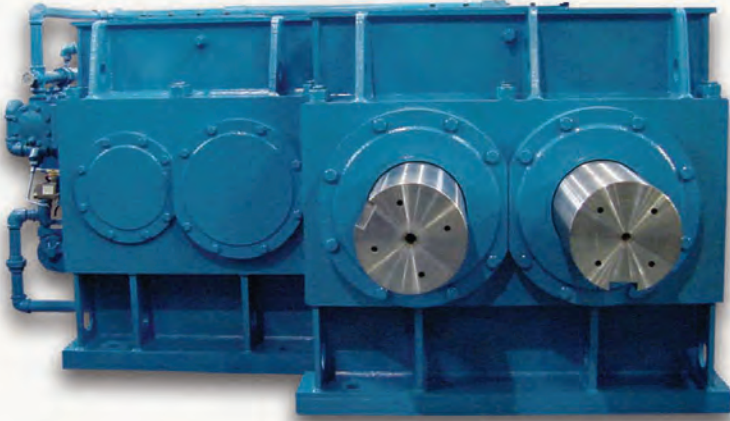
Extruder Drive:

670 HP @ 1450 RPM;
19.80:1 Ratio;
576,614 in-lbs. O.T.

CUSTOM & REVERSED ENGINEERED DRIVES

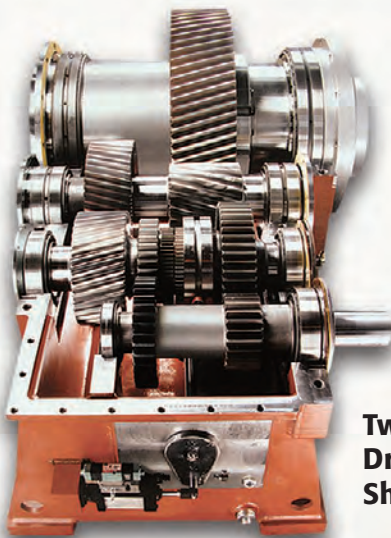
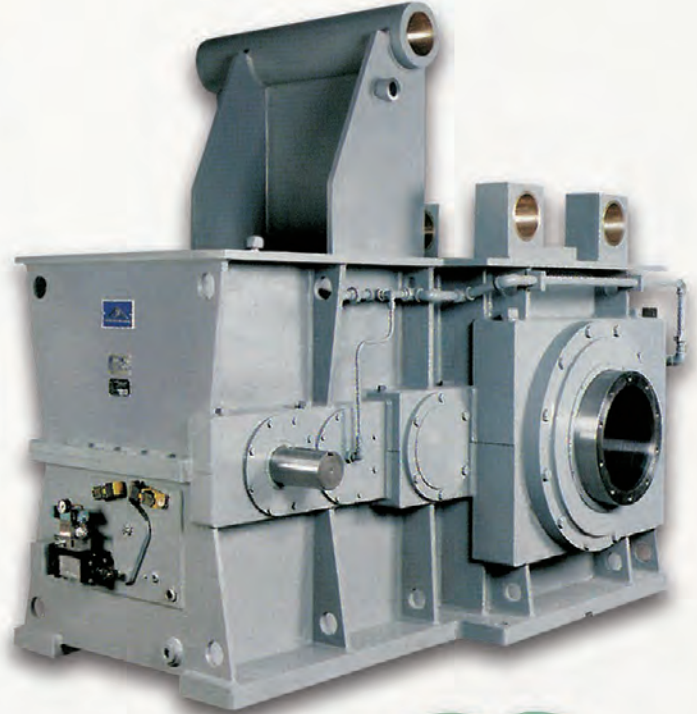
Rubber Mill Drive:

4,000 HP @ 900 RPM;
15.42:1 Ratio;
3,000,000 in-lbs. / Output Shaft;
22.26" Low Speed Centers

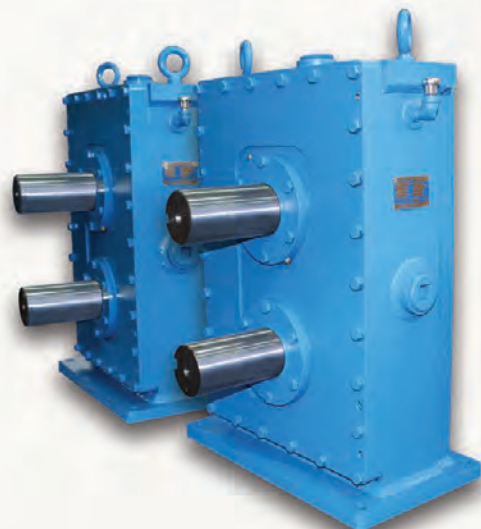


Two Speed Reel Drive:

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

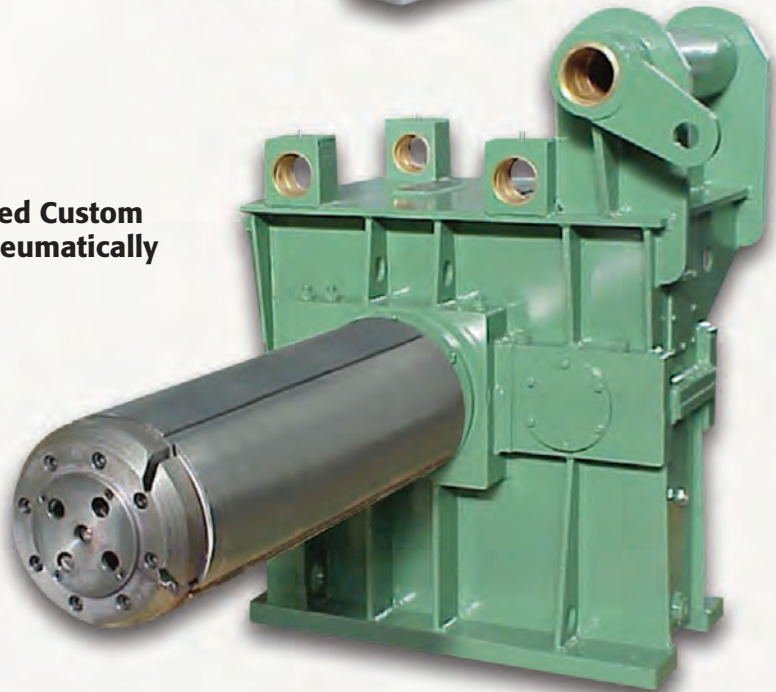


**Two Speed Custom
Drive-Pneumatically
Shifted**



Helical Pinch Roll Drives:

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



Recoiler Drive:

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

CUSTOM & REVERSED ENGINEERED DRIVES



Helical Pinch Roll Drives:

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

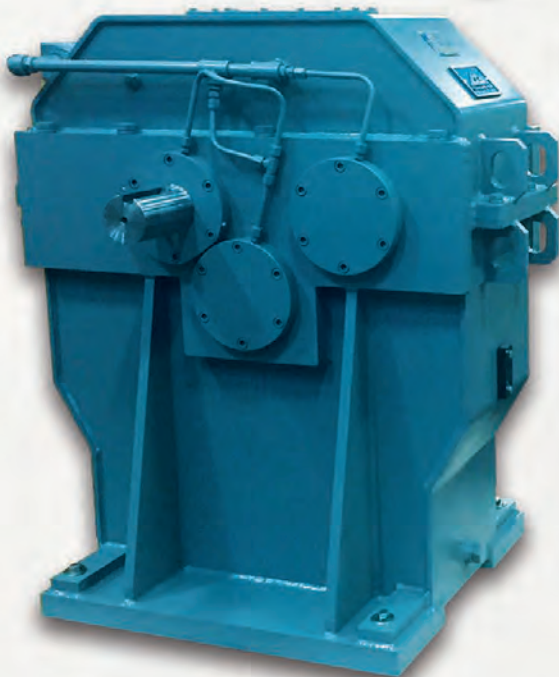
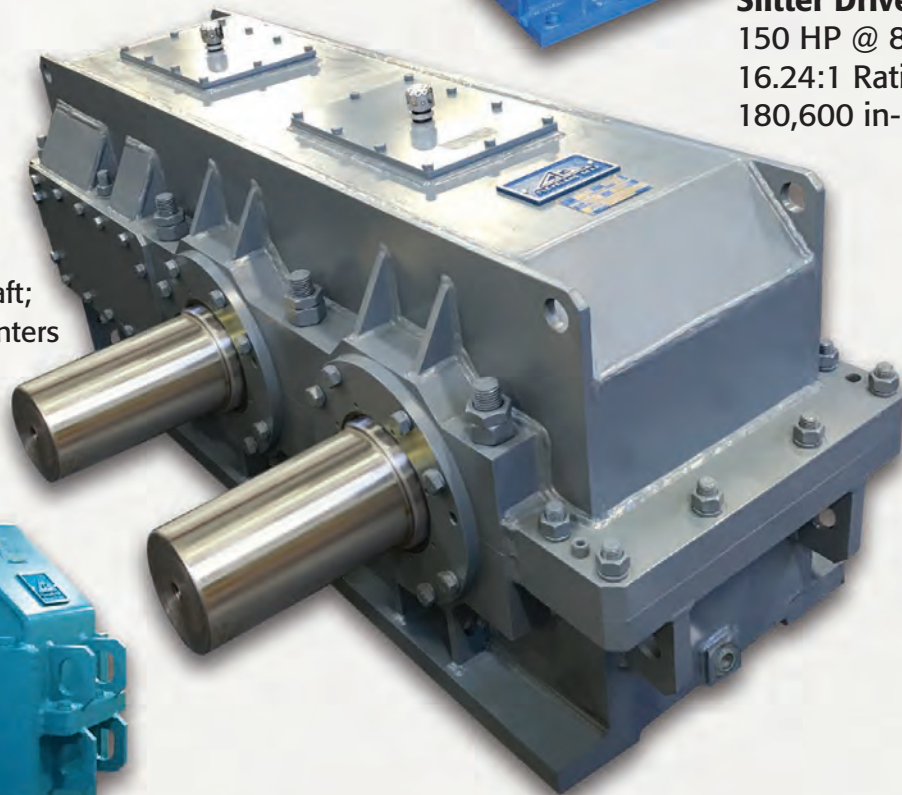


Slitter Drive:

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

Compactor Drive:

225 HP @ 650 RPM;
32.5:1 Ratio;
347,500 in-lbs / Output Shaft;
20.5" Horiz Low Speed Centers



Speed Increaser Drive:

680 HP @ 700 RPM;
1:1.8 Ratio;
33,869 in-lbs O.T.



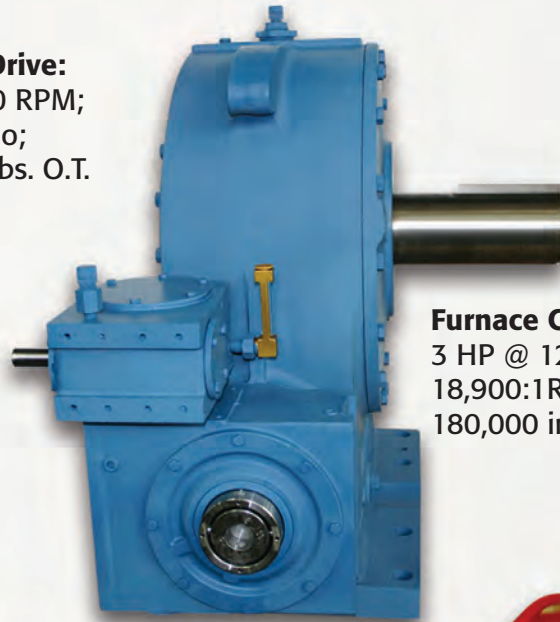
Universal Bridge Crane Drive:

63 HP @ 734 RPM;
24.415:1 Ratio;
132,074 in-lbs O.T.

CUSTOM & REVERSED ENGINEERED DRIVES



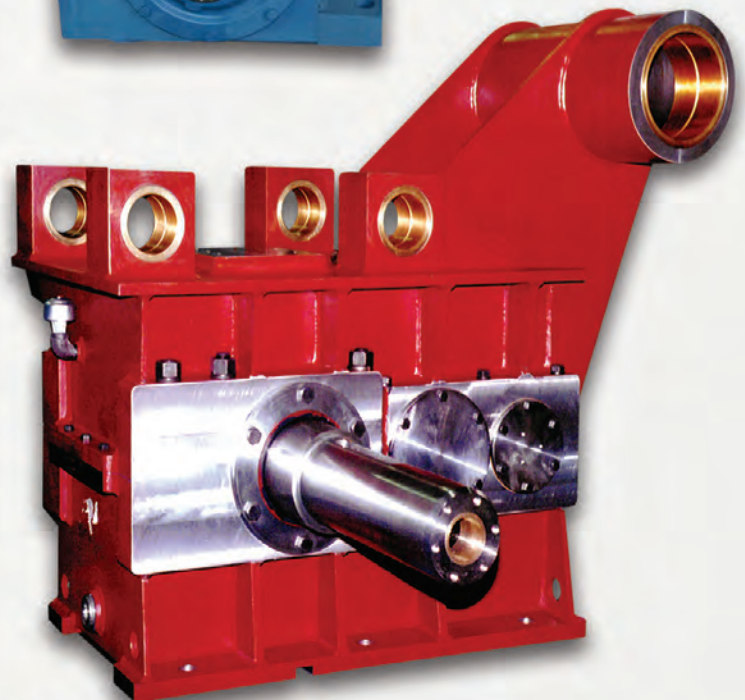
Ore Bridge Drive:
93 HP @ 440 RPM;
19 1/2:1 Ratio;
244,500 in-lbs. O.T.



Furnace Charging Drive:
3 HP @ 1200 RPM;
18,900:1 Ratio;
180,000 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"



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



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TOLL-FREE 800-423-3169

www.clevelandgear.com

