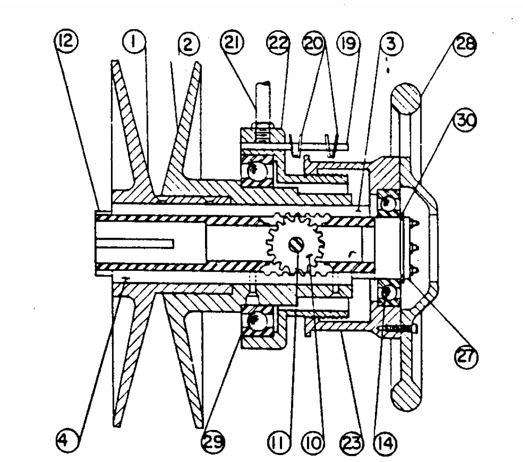
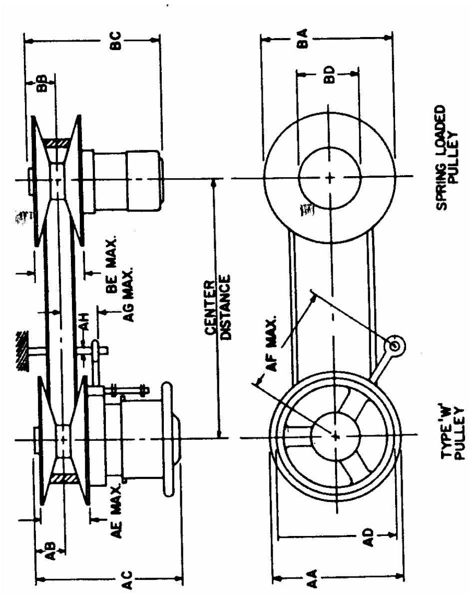
GERBING FIXED CENTER DRIVES utilize two variable speed pulleys and a belt – One pulley mechanically operated and the other spring loaded. Both pulleys work together on a fixed center distance eliminating the need of a motor base. They provide a wide speed range, up to 8.3 to 1, in a compact package. Gerbing fixed center drives are similar to but less costly than enclosed motor drives as the expensive housing is eliminated. They are available in both ROTO-CONE and QUADRA-KEY pulley series for up to 30 HP @ 1750 RPM applications. Electric and mechanical remote speed changing controls are available for both ROTO-CONE and QUADRA-KEY drives, request data sheet.

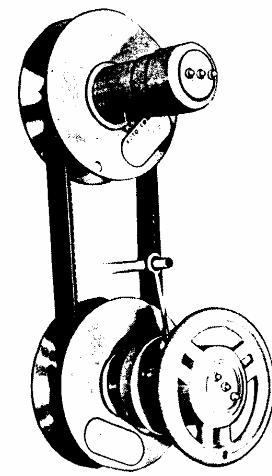


Mechanically Operated
Pulley No. 55W, 60W and 75W

ITEM	DESCRIPTION
1	Inner Disc
2	Outer Disc (With Grease Fitting Where Shown)
3	Inner Disc Rack* 2
4	Outer Disc Rack* 2
5	Inner Disc Key*
6	Spring
7	Spring Cover (Specify Inner Or Outer)
8	End Cap Asembly
9	End Cap Pin
10	Gear
11	Gear Pin
12	Shaft (Specify Bore) 7/8 B -3
13	End Plate Assembly
14	Bearing Outboard
15	Bearing Housing
16	Bearing Adaptor
17	Bearing Adaptor with Grease Tube
18	Grease Plug
19	Limit Bar
20	Spring Limit Clip (2)
21	Eye Bolt (With Nut and Lockwasher)
22	Inner Adjusting Sleeve
23	Outer Adjusting Sleeve
24	Spring Cover (With Fittings and Tubes)
25	Spring Retainer
26	Packing
27	Bearing Support W/Pin (See Note 2)
28	Hand Wheel
29	Bearing, Inboard
30	Retaining Ring

* = COMPLETE WITH SCREWS

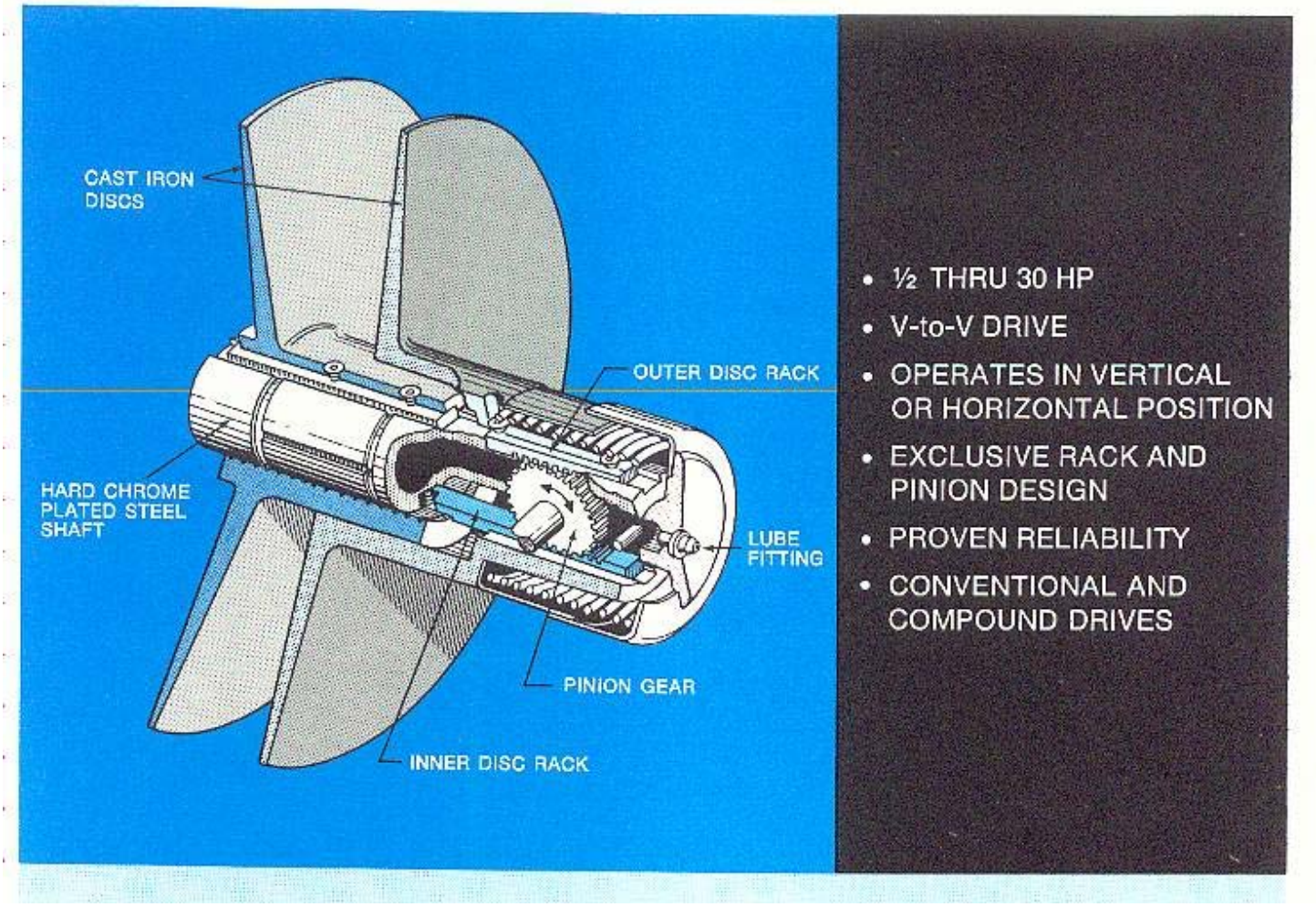




ROTO-CONE® TYPE-W
½ THRU 25 HP
MOUNTS IN ANY POSITION

DRIVER MODEL	DRIVEN MODEL	AA	AB	AC	AD	AE MAX.	AF	AG	AH	BA	BB	BC	BD	BE MAX.	STOCK BORES
75W	75	7.50	1.25	8.31	7.50	2.63	6.25	2.13	.63	7.50	1.25	7.13	2.63	2.63	5/8, 3/4, 7/8, 14 & 19mm

ROTO-CONE®
VARIABLE SPEED PULLEY



Roto-Cone® variable speed pulleys and drives allow smooth, infinitely-variable speed changes without stopping the drive motor. Positive rack and pinion design provides equal and opposite lateral movement of both discs, so belts always travel on a fixed center line. Ratings to 30 HP at 1750 RPM. Needs only periodic lubrication. Positive pulling power, dynamically balanced, proven reliability.

FEATURES

V TO V OPERATING PRINCIPLE
The exclusive rack and gear arrangement incorporated into the design of the ROTO-CONE Motor Pulley imparts a positive and equal linear movement to each pulley disc. The movement of one disc is opposite to that of the other, thereby causing the belt to travel on a fixed center line. This fixed center line allows driving to a "V" groove companion sheave which need be only slightly wider than the belt. The "V" to "V" principle makes for more efficient power transmission, straight line adjustment of the motor and pulley, LONGER BELT LIFE, a vibrationless drive, and eliminate twisting and curling of the belt when changing speeds.

DYNAMICALLY BALANCED
All ROTO-CONE Pulleys are dynamicall balanced after comlete assembly to insure a vibrationless, smooth running drive.

LUBRICATION
Close-Grooving grease grooves in the bore of the inner disc distributes grease through the entire hub length. Pulleys, from No. 80 through No. 1325 have additional grease fittings and passages to assure thorough lubrication throughout the pulley length. These features combine to practically eliminate fretting corrosion and sticking discs.

GRINDING
The faces of both discs have a ground finish to give smoother, vibrationless operation, and better belt life. Pulley shafts are finish-ground to close tolerance and are then hard chrome plated for improved wearing quality. All parts of the ROTO-Cone unit are precision machined, and of the best materials.

BORES
To insure a true shaft mounting all ROTO-CONE Pulley shafts are precision bored with overall tolerances of .0005".