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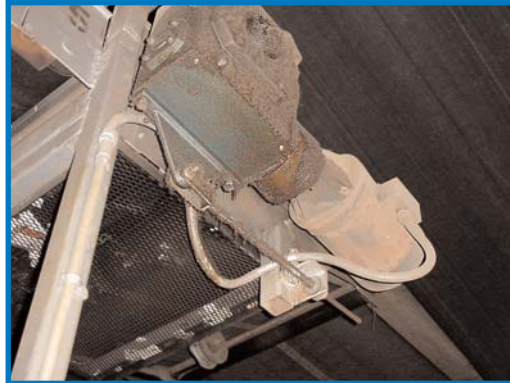
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Transverse & Lateral Feed Upgrades

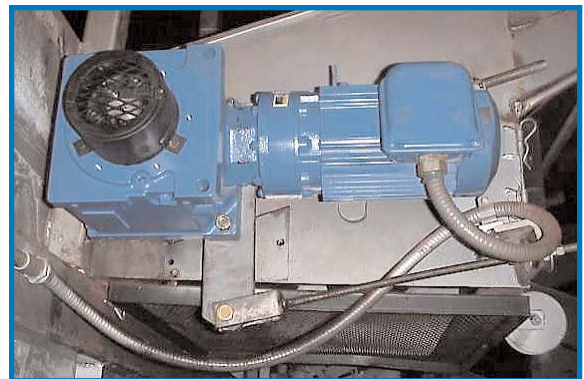
Problem: Unreliable, Inefficient Power Unit



- Nearing end of service life
- Leaks oil and needs changing
- Unreliable and maintenance intensive
- Inefficient - only 62% efficient
- Difficult to remove from shaft
- Shaft diameter 1-15/16"
- Helical worm - 400 lbs

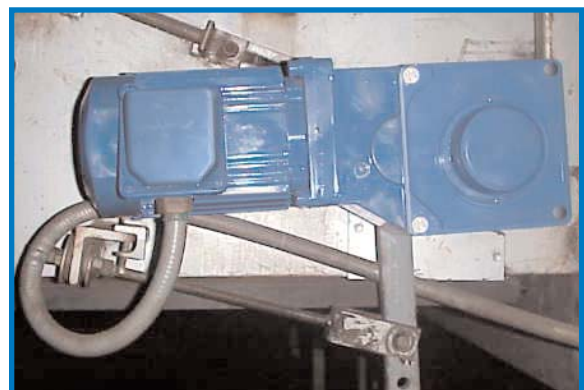
Solution: Cyclo® Bevel Buddybox

- Integral or C - face
- 91% efficiency
- Grease lubricated
- No maintenance on integral unit
- Custom torque bracket
- Shaft diameter 1-15/16"
- Keyless bushing system for easy removal
- Light weight - approximately 118 lbs



Solution: Hyponic®

- For shafts 1-3/4" or less
- Integral or C - face designs
- 89% efficiency
- No maintenance
- Keyed shaft
- Custom torque bracket for easy retrofit
- Light weight - approximately 78 lbs



Cyclo® BBB Transverse Drive Power Chart

Hyponic® Transverse Drive Power Chart

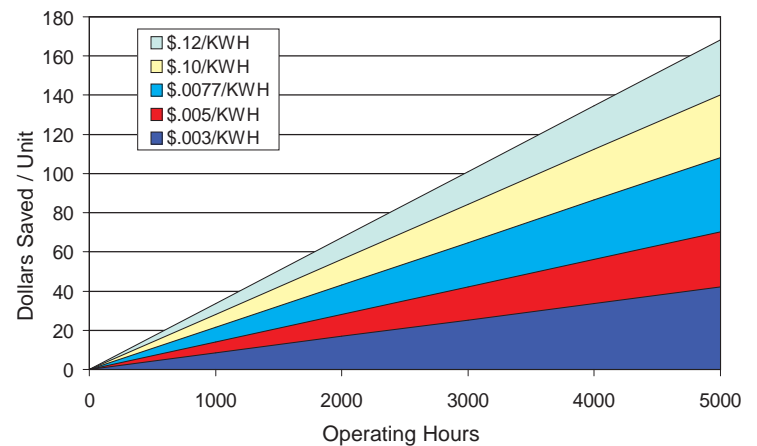
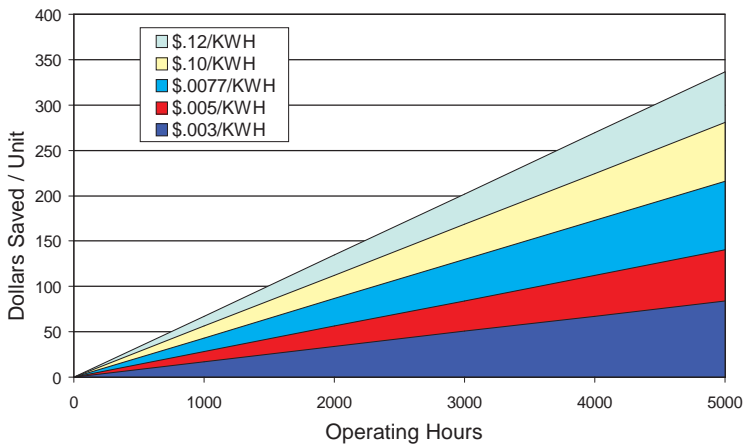
HP	FPM	Frame Size	Ratio	Shaft Dia.	SF	Opt. Size	Opt. Size
.75 HP	101	LHY-A4100	39	1-15/16	3.1	1-11/16	2-3/16
.75 HP	86	LHY-A4100	46	1-15/16	2.6	1-11/16	2-3/16
.75 HP	75	LHY-A4100	53	1-15/16	2.6	1-11/16	2-3/16
.75 HP	66	LHY-A4100	60	1-15/16	2.6	1-11/16	2-3/16
.75 HP	53	LHY-A4100	74	1-15/16	2.6	1-11/16	2-3/16
1 HP	101	LHY-A4100	39	1-15/16	2.3	1-11/16	2-3/16
1 HP	86	LHY-A4100	46	1-15/16	2.0	1-11/16	2-3/16
1 HP	75	LHY-A4100	53	1-15/16	2.0	1-11/16	2-3/16
1 HP	66	LHY-A4100	60	1-15/16	2.0	1-11/16	2-3/16
1 HP	53	LHY-A4100	74	1-15/16	2.0	1-11/16	2-3/16
1.5 HP	101	LHY-A4100	39	1-15/16	1.5	1-11/16	2-3/16
1.5 HP	86	LHY-A4105	46	1-15/16	2.8	1-11/16	2-3/16
1.5 HP	75	LHY-A4105	53	1-15/16	2.8	1-11/16	2-3/16
1.5 HP	66	LHY-A4105	60	1-15/16	2.2	1-11/16	2-3/16
1.5 HP	53	LHY-A4105	74	1-15/16	2.1	1-11/16	2-3/16
2 HP	101	LHY-A4105	39	1-15/16	2.1	1-11/16	2-3/16
2 HP	86	LHY-A4105	46	1-15/16	2.1	1-11/16	2-3/16
2 HP	75	LHY-A4105	53	1-15/16	2.1	1-11/16	2-3/16
2 HP	66	LHY-A4105	60	1-15/16	1.6	1-11/16	2-3/16
2 HP	53	LHY-A4105	74	1-15/16	1.6	1-11/16	2-3/16
3 HP	101	LHY-A4105	39	1-15/16	1.4	1-11/16	2-3/16
3 HP	86	LHY-A4105	46	1-15/16	1.4	1-11/16	2-3/16
3 HP	75	LHY-A4105	53	1-15/16	1.4	1-11/16	2-3/16
3 HP	66	LHY-B4110	60	1-15/16	1.6	2-3/16	2-7/16
3 HP	53	LHY-B4115	74	1-15/16	1.8	2-3/16	2-7/16

HP	FPM	Frame Size	Ratio	Shaft Dia.	HP	SF
.5 HP	99	RYN-1420	40	1-3/8	1.07	2.1
.5 HP	79	RYN-1420	50	1-3/8	1.07	2.1
.5 HP	66	RYN-1420	60	1-3/8	1.07	2.1
.5 HP	49	RYN-1530	80	1-7/16	1.07	2.1
.75 HP	99	RYN-1420	40	1-3/8	1.07	1.4
.75 HP	79	RYN-1420	50	1-3/8	1.07	1.4
.75 HP	66	RYN-1420	60	1-3/8	1.07	1.4
.75 HP	49	RYN-1530	80	1-7/16	1.07	1.4
1 HP	99	RYN-1520	40	1-7/16	2.07	2.1
1 HP	79	RYN-1520	50	1-7/16	2.07	2.1
1 HP	66	RYN-1520	60	1-7/16	2.07	2.1
1 HP	49	RYN-1531	80	1-7/16	2.07	2.1
1.5 HP	99	RYN-1520	40	1-7/16	2.07	1.4
1.5 HP	79	RYN-1520	50	1-7/16	2.07	1.4
1.5 HP	66	RYN-1520	60	1-7/16	2.07	1.4
1.5 HP	49	RYN-1531	80	1-7/16	2.07	1.4
2 HP	99	RYN-1531	40	1-7/16	3	1.5
2 HP	79	RYN-1531	50	1-7/16	3	1.5
2 HP	66	RYN-1531	60	1-7/16	3	1.5

Note: Speeds are based on 8 5/8" pulley diameter.

3 HP Cyclo® BBB Operating Cost Savings

2 HP Hyponic® Operating Cost Savings



A typical Hub with 300 three-horsepower transverse drives will realize approximately \$40,000 savings in energy costs (\$0.77/kwh).