

Drive for Groveton stack

Driven queen dia 24 ** assumed speed

	lineshaft RPM	LS pulley dia	cnr pulley dia	Pulley ratio	pulley RPM	8GHB ratio	8GHB out RPM	Offset Box Ratio	Offset Box out RPM	Driven Roll Dia	Calender speed
Now	700	33.69	23.125	1.4569	1019.83	0.2834	289.0198	none	none	21.75	1644.884

Measure 3/7/11	300	Mid pulley = 1.45				435	0.2834	123.279		21.75	701.6116	(Checks)
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Option 1	700	33.69	25.51663	1.320316	924.2209	0.2834	261.9242	none	none	24	1644.884	Install stack and change corner pulley - raise drive	
Option 2	700	43.65	17.97	2.429048	1700.334	0.2834	481.8746	0.5435	1.84	261.8989	24	1644.725	Add Grvtn box with new ratio and change both pulleys Raise drive

Drive for Groveton stack

Driven queen dia 24 ** assumed speed

	lineshaft RPM	LS pulley dia	cnr pulley dia	Pulley ratio	pulley RPM	ratio	8GHB ratio 1/X	8GHB out RPM	Offset Box Ratio	Offset Box out RPM	Driven Roll Dia	Calender speed
Now	700	33.69	23.125	1.4569	1019.83	0.2834	3.528582	289.0198	none	none	21.75	1644.884

Option 1	700	33.69	25.51663	1.320316	924.2209	0.2834	3.528582	261.9242	none	none	24	1644.884	Install stack and change corner pulley - raise drive
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New LS Pul	700	30.53231	23.125	1.320316	924.2209	0.2834	3.528582	261.9242	none	none	24	1644.884
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Chg GB Ratio	700	33.69	23.125	1.4569	1019.83	0.256831	3.893607	261.9242	none	none	24	1644.884
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Chg GB Ratio	700	33.69	23.125	1.545	1081.5	0.242131	4.13	261.8644	none	none	24	1644.508	Std GHB Ratio
and cone ratio			Need										

Gearbox
 Manufacturer Falk
 Model 8GHB
 M. O. 5520-1131
 Date Dec-55
 Driver 490 rpm
 Driven 139 rpm
 Ratio 3.529
 Service factor 2
 Service rating 50.4 hp
 Catalog rating 100.8 hp

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