

Project	Demo 02 Conveyor High Lift	Client	ABC Iron
Project No.	P9823	Prepared By	Peter Burrow
Conveyor No.	C223_Copy	Design Date	01 Oct 2019

<u>Station / Section</u>		Shaft Length mm	Wrap Angle deg	T1 Run kN	T2 Run kN	Resultant Force kN	T1 Start kN	Calculated		Selected			Shaft Mass kg
Station	Description							Defl. Dia mm	Dt. Dia mm	Shaft Dia mm	Brg Dia mm	Brg Ctrs mm	
1 Tail	Tail	* 3200	180.0	119.6	121.0	239.3	122.9	228.6	203.4	280	160	2560	1547
7 Head	Head	* 3520	180.0	418.4	422.8	836.8	447.4	326.1	326.7	380	240	2700	3134
8 Bend	HT Bend	* 3520	128.0	422.6	427.1	759.7	452.4	318.3	316.3	380	240	2700	3134
9 Drive	Drive	* 3460	180.0	421.6	127.8	546.5	451.8	293.1	291.3	320	240	2700	2184
10 Bend	Lt Bend 1	* 3200	139.0	134.5	136.0	251.9	134.3	231.5	207.0	280	160	2560	1547
11 Takeup	Takeup	* 3200	180.0	130.9	132.4	261.8	130.9	233.8	209.6	280	160	2560	1547
12 Bend	LT Bend 2	* 3160	93.0	137.6	139.1	199.6	137.8	218.4	191.5	280	160	2560	1527

* Indicates Manual pulley shaft dimensions entered