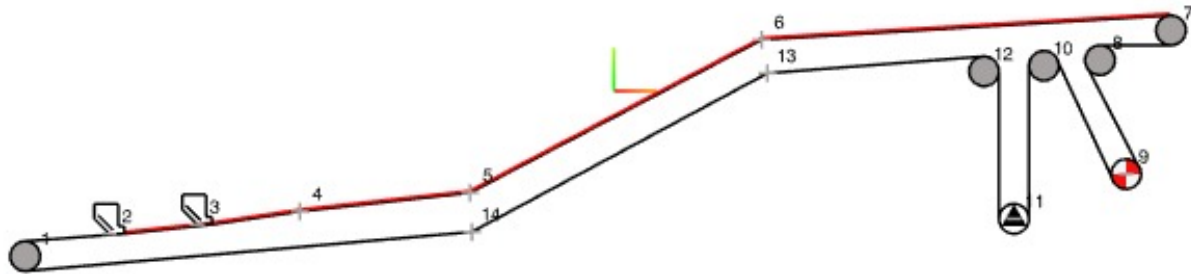


Project	Demo 02 Conveyor High Lift	Client	ABC Iron
Project No.	P9823	Prepared By	Peter Burrow
Conveyor No.	C223_Copy	Design Date	01 Oct 2019



C223_Copy



Drive Number	1	Drive	Pulley Number	9
Drive Description		Head	Motor Power Rating	630 kW
Number of Motors on Drive Pulley		2	Motor Full Load Speed	985 rpm
Selection Mode		Manual	Motor Torque @ FL Speed	6108 Nm
Gearbox Category		Falk A-Plus	Motor Torque at Pulley Speed	75019 Nm
Description		Falk M505AB2	Gearbox Rated Torque	111500 Nm
Type		Right Angle Shaft	Service Factor Required	1.5
Size		505	Service Factor Calculated	1.49
Code		AB	Plus Speed Selection Tolerance	5 %
Ratio		12.21	Minus Speed Selection Tolerance	5 %
Number of Stages		2	Fluid Coupling Slip	0 %
Design Efficiency (input)		95 %	Required Gearbox Ratio	12.282 :1
Gearbox actual Efficiency		94 %	Selected Gearbox Ratio	12.21 :1
Maximum Input Shaft Speed		1800 rpm	Required Pulley Speed	80.2 rpm
Minimum Input Shaft Speed		580 rpm	Calculated Pulley Speed for Reducer	80.67 rpm
Input Shaft Diameter		95.25 mm	Required Belt Speed	4.3 m/s
Output Shaft Diameter		235 mm	Calculated Belt Speed	4.33 m/s
Gearbox Inertia		1.773 kg/m2	Mass of Gearbox	4500 kg