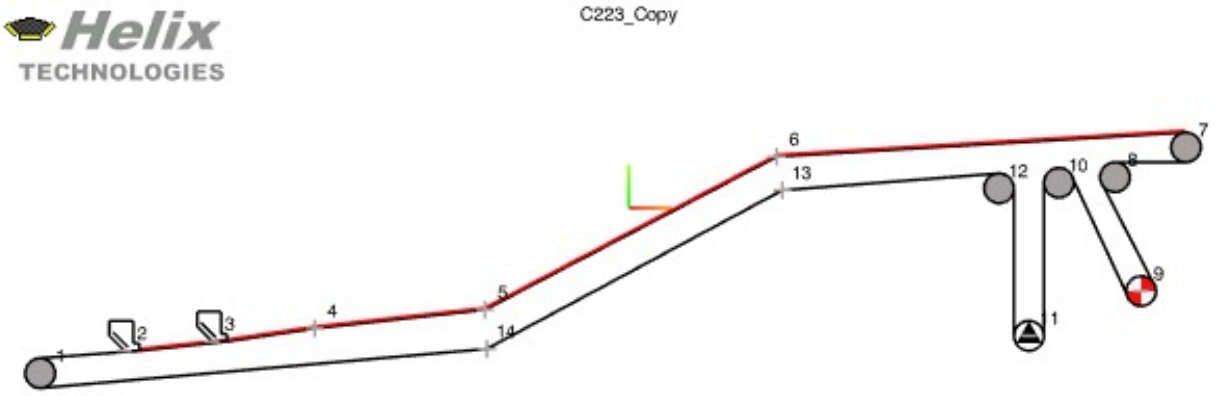
Helix Technologies Pty Ltd

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



Drive Number	**1**	**Drive**	**Pulley Number**	**9**
Drive Description		**Head**	Brake Location	**High Speed**
Load Share on Drive Pulley		**100** %	Disc Material	**Mild Steel**
Brake Category		**Svendborg BSFI 200**	Disc Diameter	**750** mm
Brake Description		**Svendborg - Simon Hydraulics**	Disc Thickness	**30** mm
Caliper		**BSFI 210**	Co-eff of Friction (Pad-Disc)	**0.4**
Number of Motors on Drive Pulley		**2**		
Selection Mode		**Manual**		
Brake Selection Input Data			Caliper Clamping Force Minimum	**10000** N
Low Speed Brake Torque Input		**26.5** kNm	Caliper Clamping Force Maximum	**11100** N
Equivalent HS Brake Torque		**2271** Nm	Pad Offset Width W	**70** mm
Design Braking Torque Input		**2350** Nm	Air Gap	**3** mm
Selected Brake's Torque Rating		**2339** Nm	*Recomended working airgap is 1mm*	
Design Stopping Time		**4** sec	Disc Initial Speed	**985** rpm
Consecutive number of Stops		**3**	Disc Moment of Inertia	**7.32** kgm2
Average number of Stops per hour		**6**	Required Gearbox Ratio	**12.282** :1
Ambient Temperature		**50** deg C	Drive Efficiency	**95** %
Disc Temp after stops		**77** deg C	Mass of Caliper	**18.5** kg