

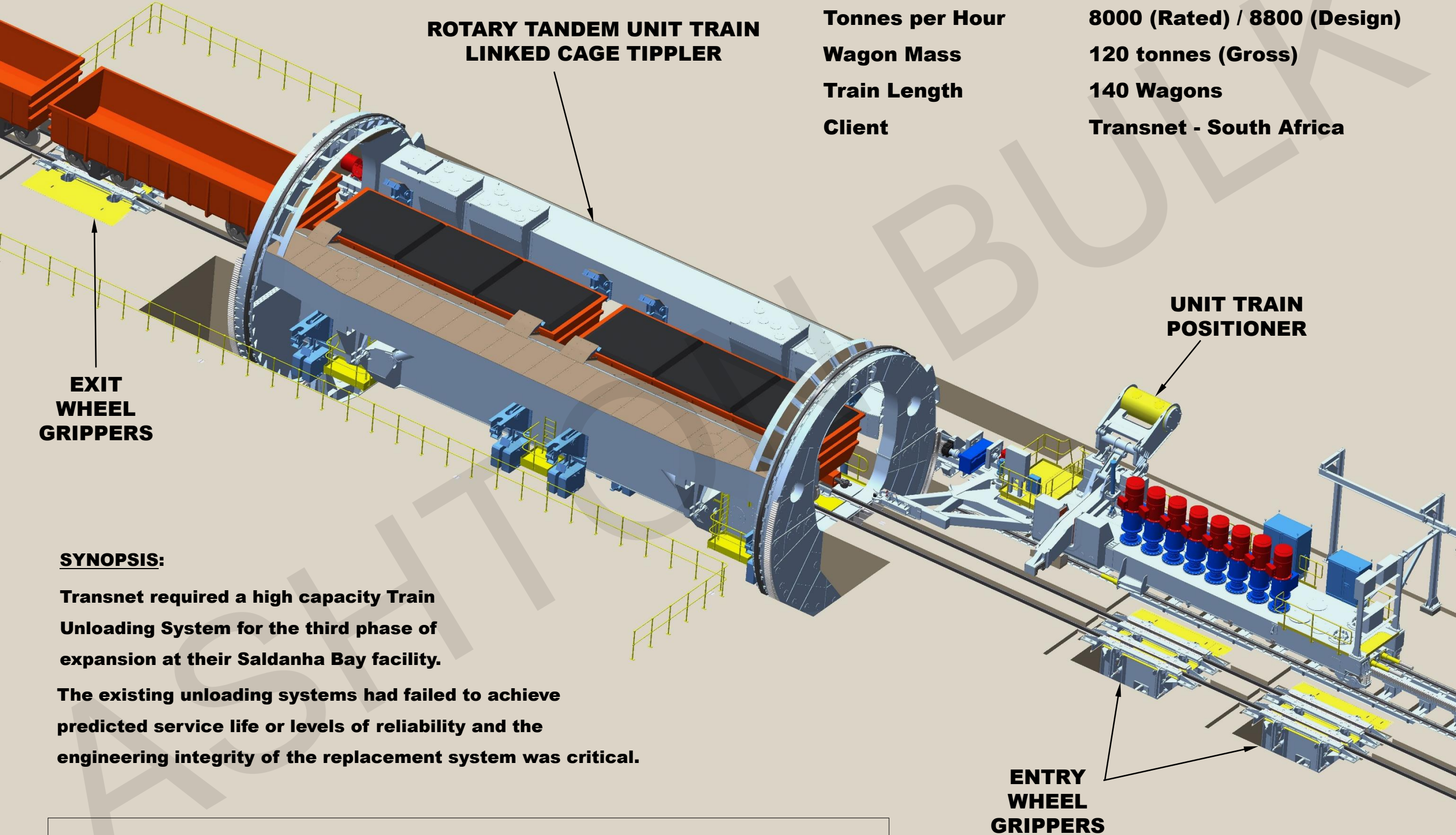


TRAIN UNLOADING PROJECT SUMMARIES

2015 - 2018

PLANT PARAMETERS:

Location:	Western Cape – South Africa
Wagons per Hour	80 (Rated) / 88 (Design)
Tonnes per Hour	8000 (Rated) / 8800 (Design)
Wagon Mass	120 tonnes (Gross)
Train Length	140 Wagons
Client	Transnet - South Africa



SYNOPSIS:

Transnet required a high capacity Train Unloading System for the third phase of expansion at their Saldanha Bay facility.

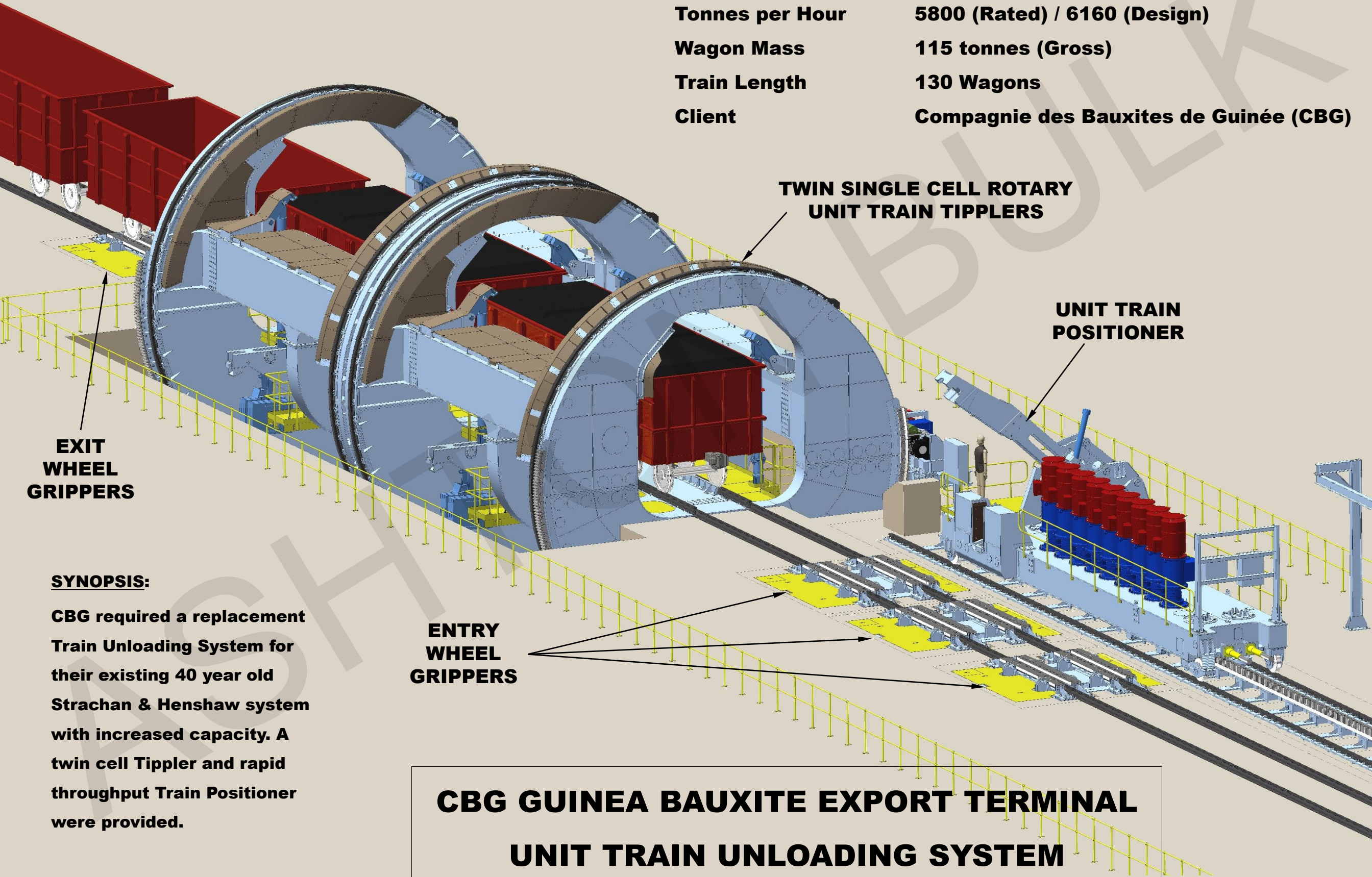
The existing unloading systems had failed to achieve predicted service life or levels of reliability and the engineering integrity of the replacement system was critical.

SALDANHA BAY IRON ORE EXPORT TERMINAL

UNIT TRAIN UNLOADING SYSTEM

PLANT PARAMETERS:

Location:	Guinea – West Africa
Wagons per Hour	66 (Rated) / 70 (Design)
Tonnes per Hour	5800 (Rated) / 6160 (Design)
Wagon Mass	115 tonnes (Gross)
Train Length	130 Wagons
Client	Compagnie des Bauxites de Guinée (CBG)



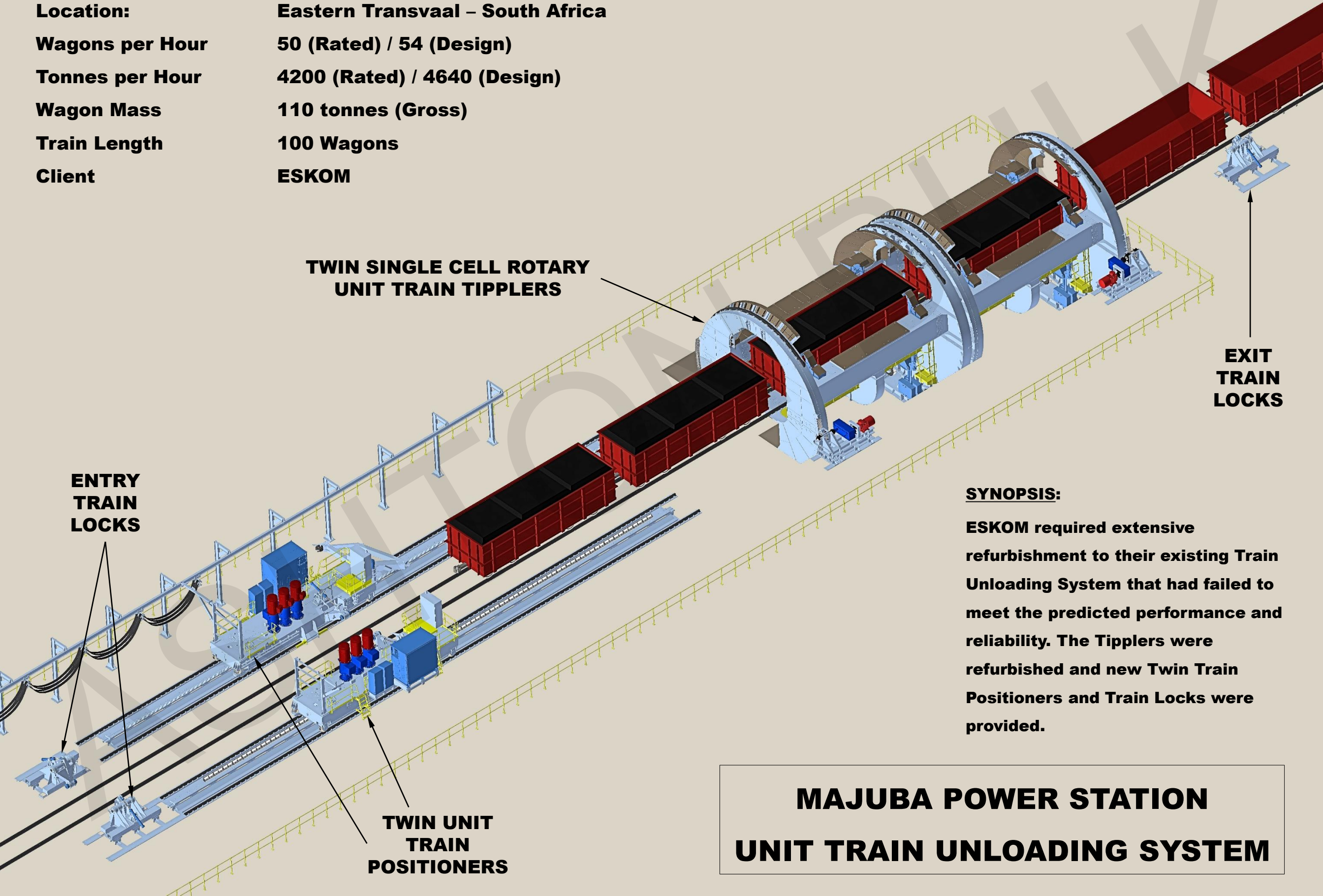
SYNOPSIS:

CBG required a replacement Train Unloading System for their existing 40 year old Strachan & Henshaw system with increased capacity. A twin cell Tippler and rapid throughput Train Positioner were provided.

**CBG GUINEA BAUXITE EXPORT TERMINAL
UNIT TRAIN UNLOADING SYSTEM**

PLANT PARAMETERS:

Location: Eastern Transvaal – South Africa
Wagons per Hour 50 (Rated) / 54 (Design)
Tonnes per Hour 4200 (Rated) / 4640 (Design)
Wagon Mass 110 tonnes (Gross)
Train Length 100 Wagons
Client ESKOM



**TWIN SINGLE CELL ROTARY
UNIT TRAIN TIPPLERS**

**EXIT
TRAIN
LOCKS**

**ENTRY
TRAIN
LOCKS**

**TWIN UNIT
TRAIN
POSITIONERS**

SYNOPSIS:

ESKOM required extensive refurbishment to their existing Train Unloading System that had failed to meet the predicted performance and reliability. The Tipplers were refurbished and new Twin Train Positioners and Train Locks were provided.

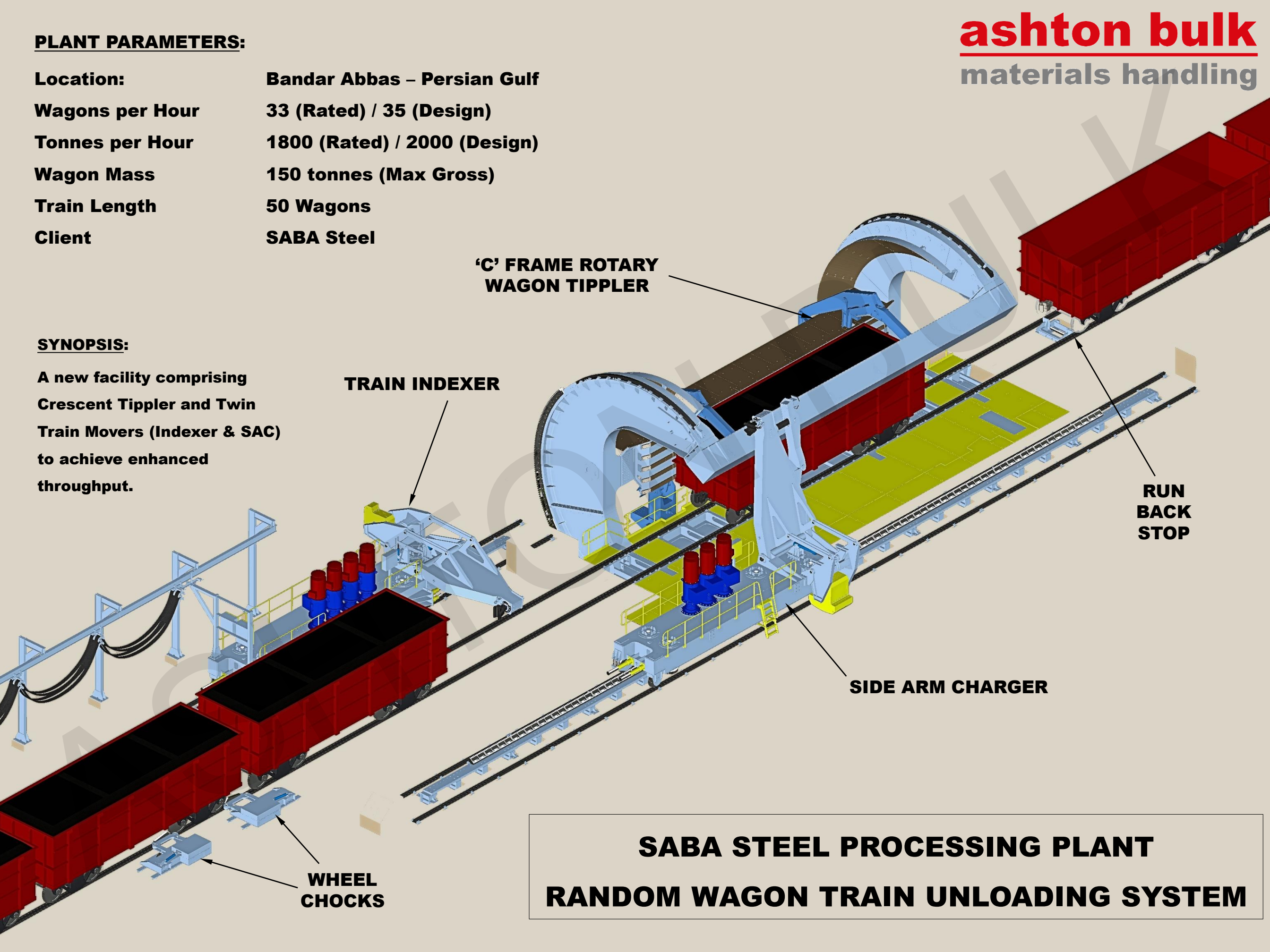
**MAJUBA POWER STATION
UNIT TRAIN UNLOADING SYSTEM**

PLANT PARAMETERS:

Location:	Bandar Abbas – Persian Gulf
Wagons per Hour	33 (Rated) / 35 (Design)
Tonnes per Hour	1800 (Rated) / 2000 (Design)
Wagon Mass	150 tonnes (Max Gross)
Train Length	50 Wagons
Client	SABA Steel

SYNOPSIS:

A new facility comprising
Crescent Tippler and Twin
Train Movers (Indexer & SAC)
to achieve enhanced
throughput.



SABA STEEL PROCESSING PLANT
RANDOM WAGON TRAIN UNLOADING SYSTEM