



***PRESENTATION OF DESIGN
TANK WAGON
FOR DIESEL TRANSPORTATION
84 m³***

December 2009

EXAMPLE FOR MODERN DESIGN

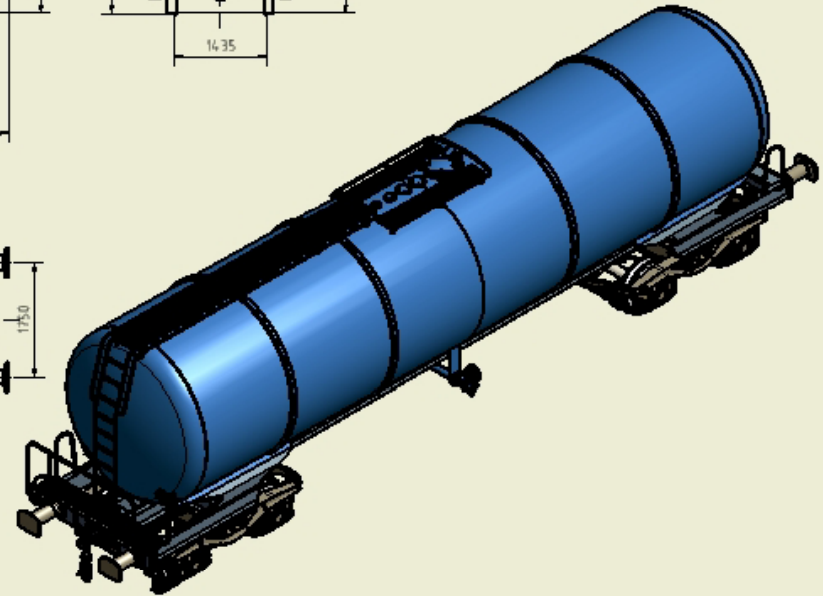
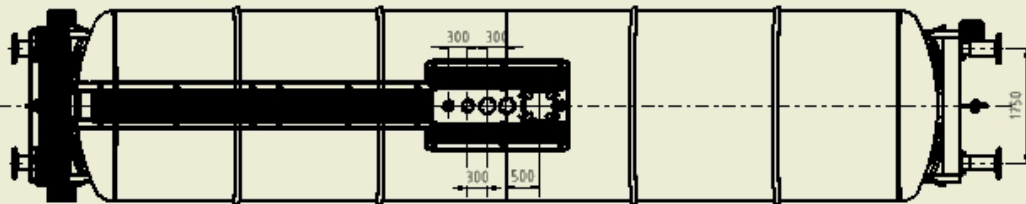
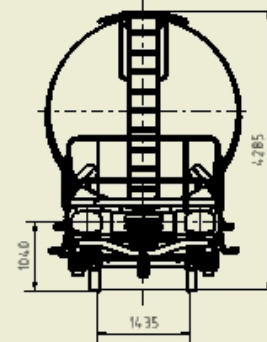
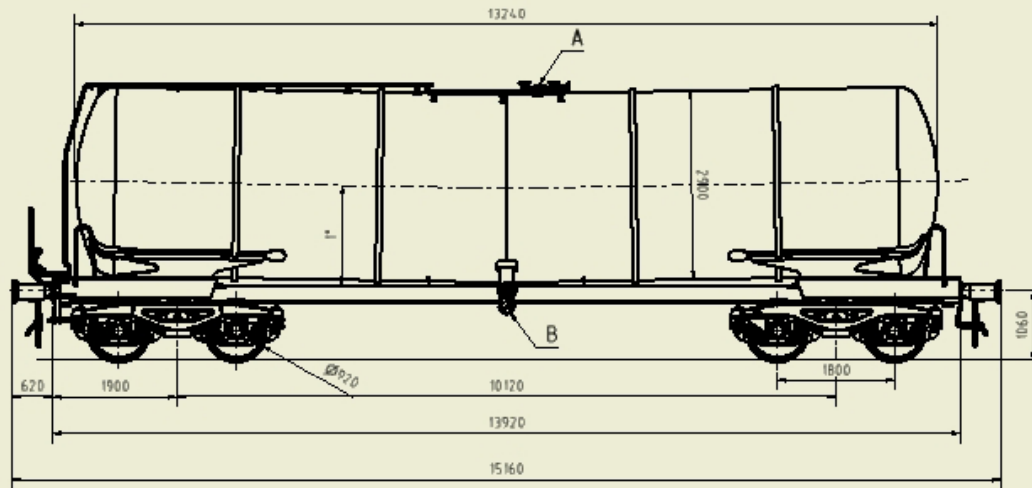
TANK WAGON 84 m³



TECHNICAL DATA

Tare weight	22,2 t
Mass by axle	22,5 t
Type of bogie	Y25 Ls1-K
Wheel seat type	type BA 314 (25 to/axle)
Draw gear	screw 850/100 kN
Buffer	class A 105 mm/590kN disc 450 x 340
Type of braking system	Knorr KE-GP12”
Tank volume	84 m³
Design pressure	4 bar
Working pressure	3 bar
External overpressure	10 bar
Minimum curve radius	35 m

TECHNICAL DATA



TECHNICAL DATA

Tare weight	22,2 t ± 1%
Mass by axes	22,5 t
Bogie type	Y25 Ls1-K
Wheel seat type	BA314
Type of braking system	Knorr KE-GP12*
Maximal speed - empty	120 km/h
Maximal speed - loaded	100 km/h
Draw gear	screw 850/1000 kN
Buffer	Class A 105 mm
Tank volume	84 m ³
Design pressure	1,0 MPa
Test pressure	0,4 MPa
Working pressure	0,3 MPa
External overpressure	min 0,5 MPa
Minimum curve radius	35 m

A- UPPER CHARGING DEVICE

Manhole	DN 500	DIN 2620 Form B	1 piece
Nozzle	DN 150	Design as a block flange	2 pieces
Nozzle	DN 80	Design as a block flange	1 piece
Nozzle	DN 50	Design as a block flange	1 piece

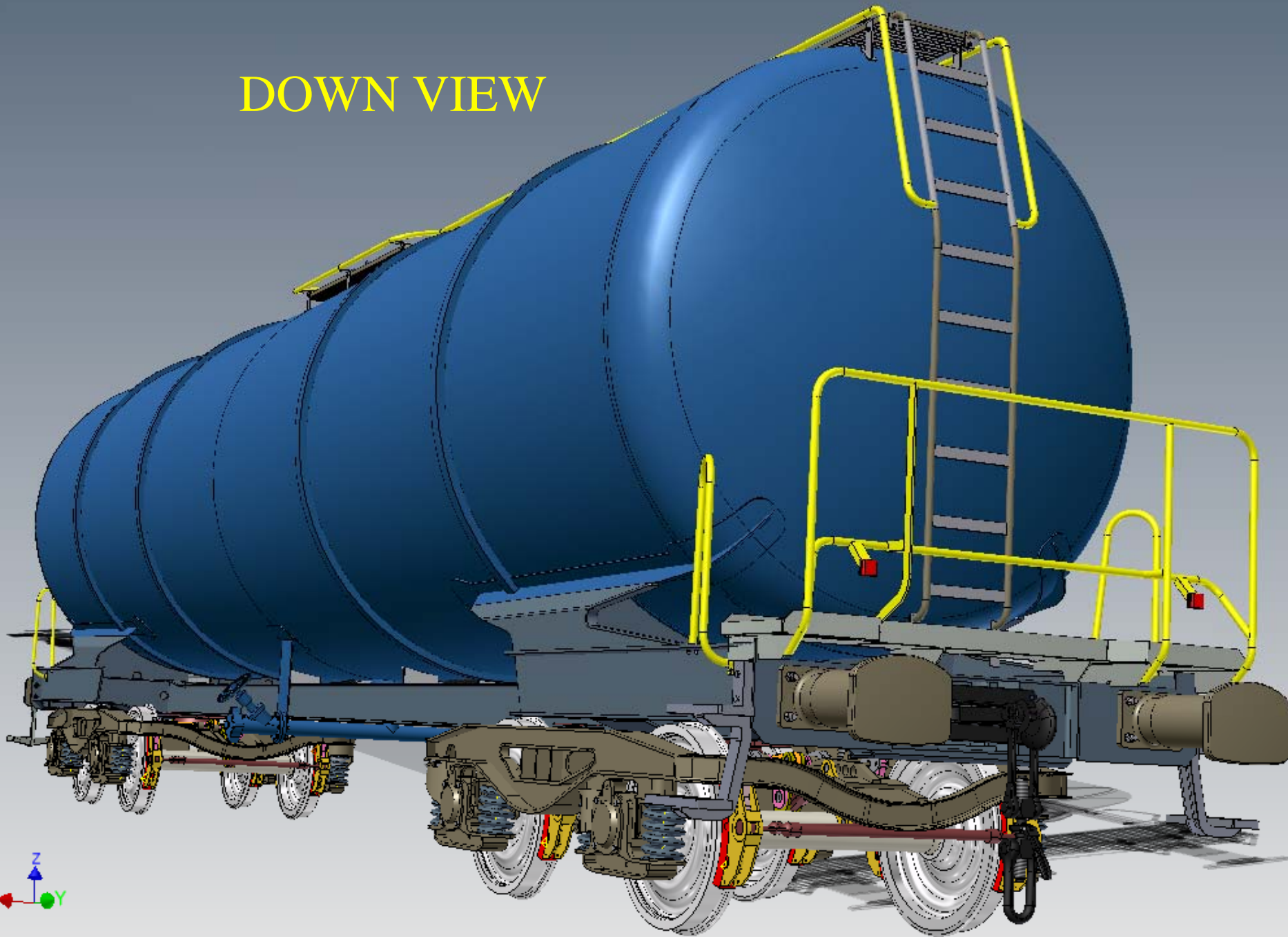
B BOTTOM DISCHARGING DEVICES

Bottom valve	DN 125/100	Krombach AV	1 piece
Side valve	DN 100	Krombach Y Type	2 piece

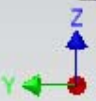
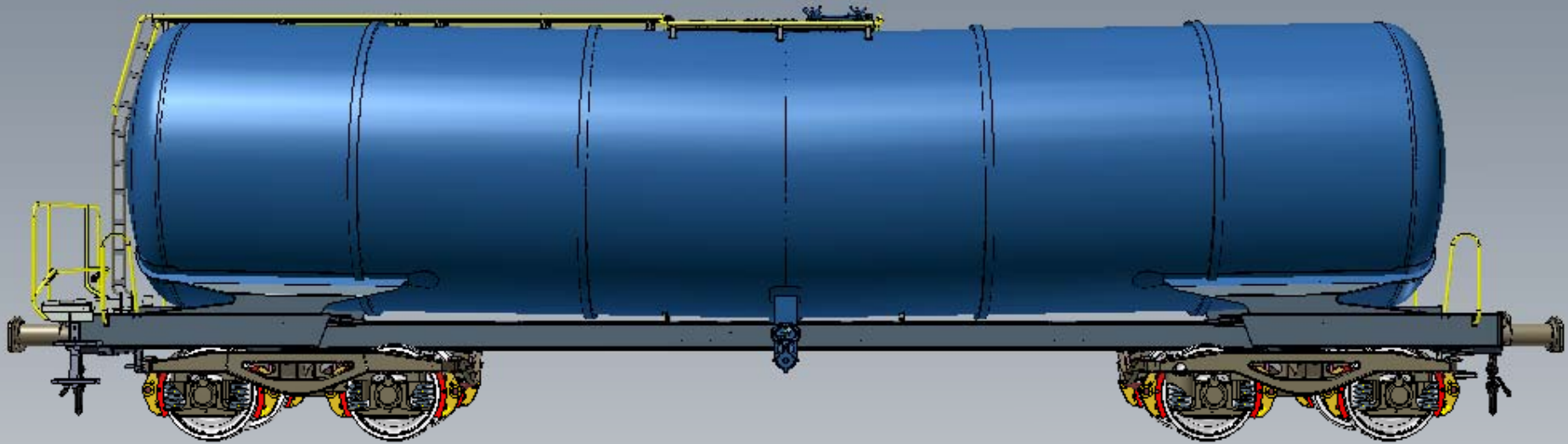
		Scale 150	
		4-AXLES TANK WAGON - SPECIALIZED FOR DIESEL	
		Sc 01.40.0001	
		1	



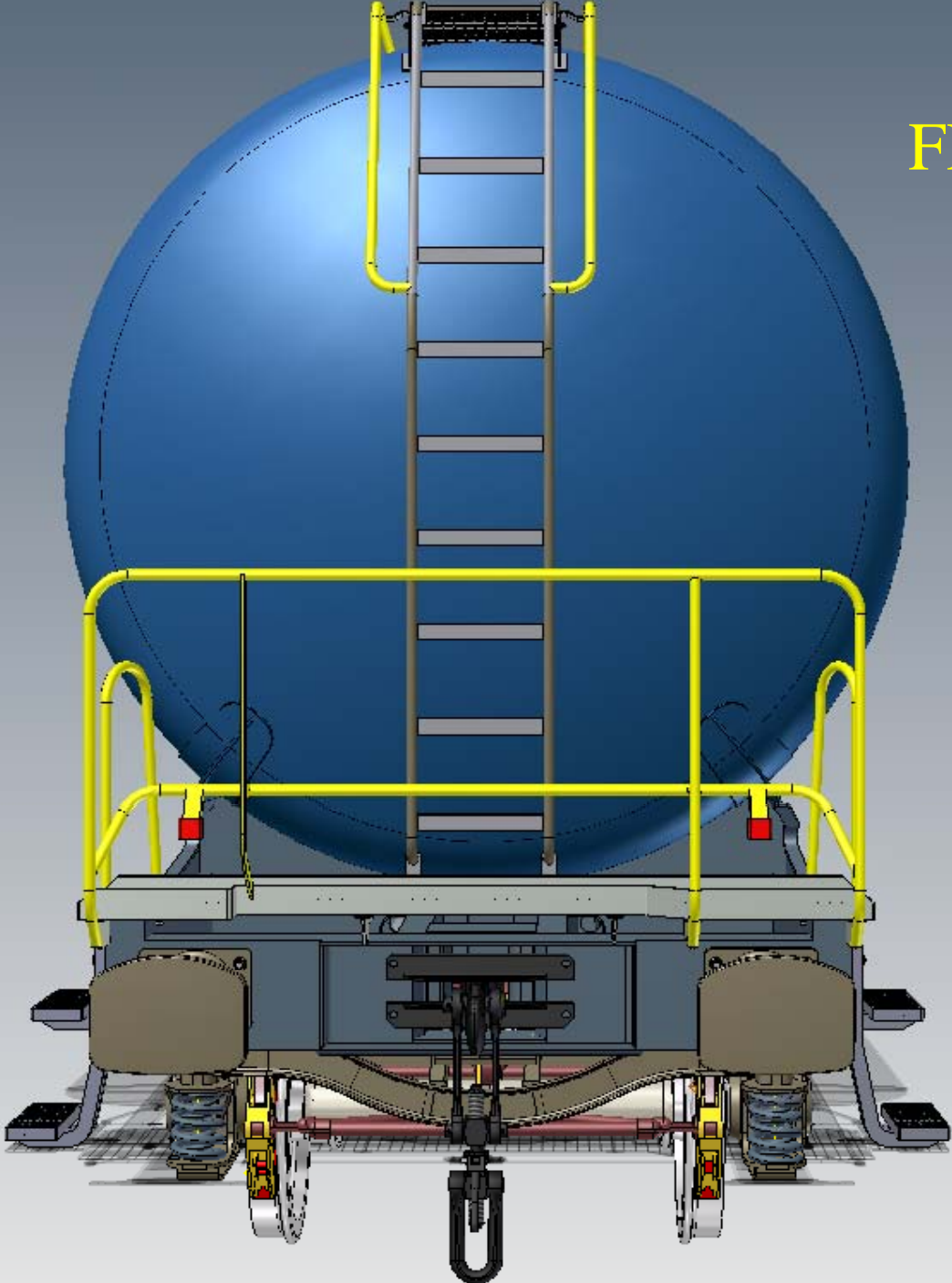
DOWN VIEW



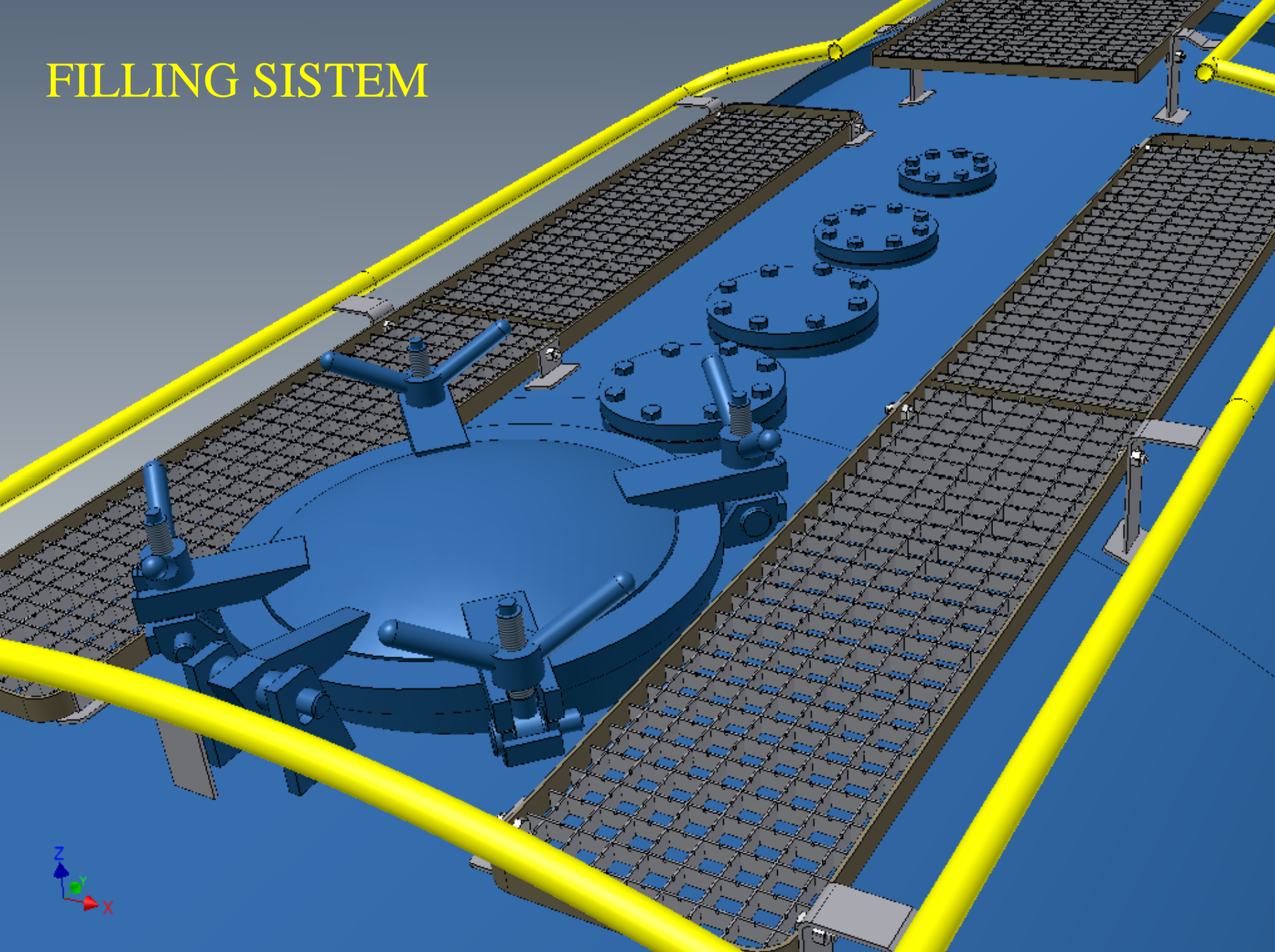
LATERAL VIEW



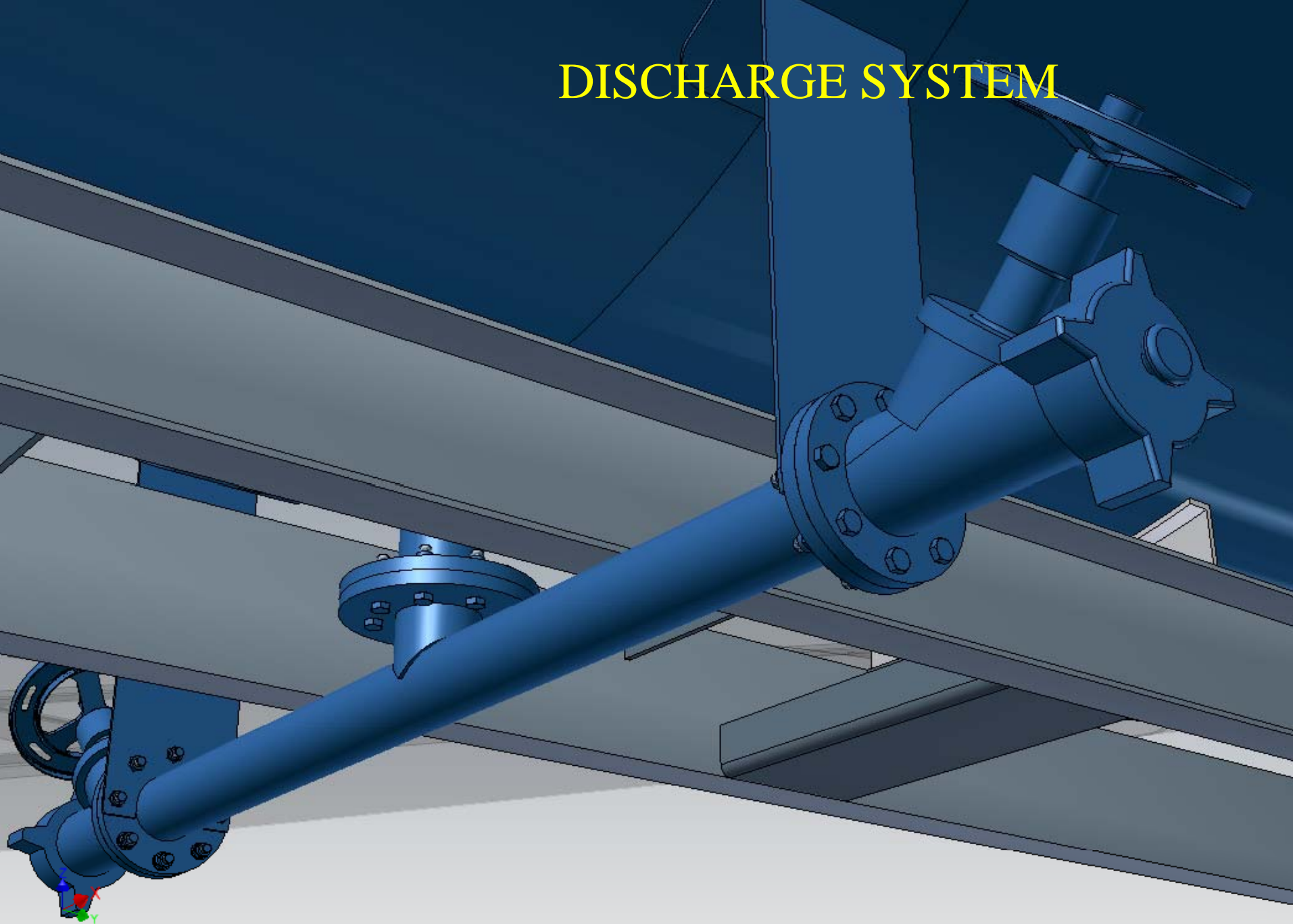
FRONT VIEW



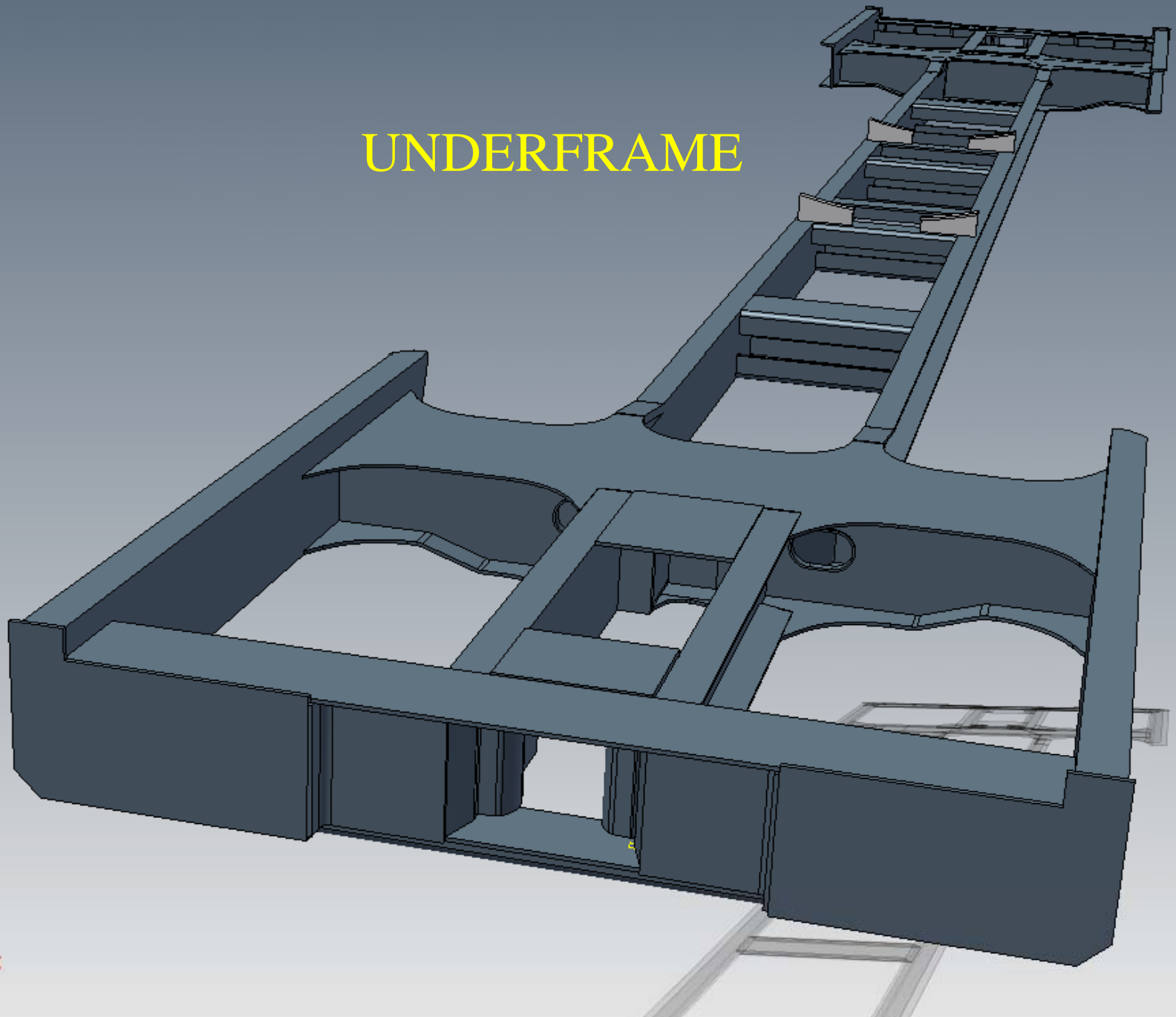
FILLING SYSTEM



DISCHARGE SYSTEM

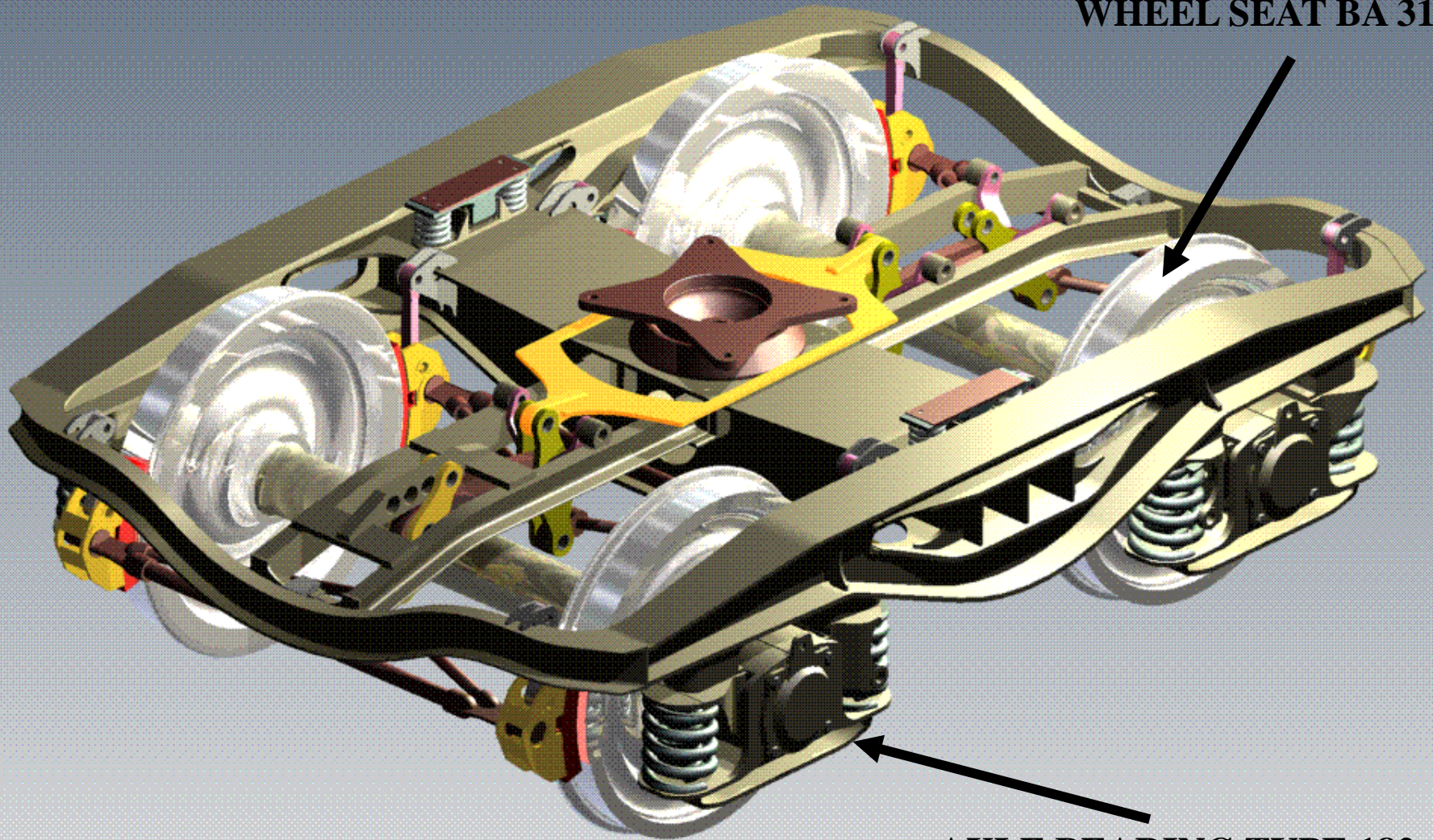


UNDERFRAME



BOGIE Y 25Ls1-K

WHEEL SEAT BA 314



AXLE BEARING TYPE 182,
ROLLER BEARING WJ+WUP
130X240

OTHER SIDE OF WAGON



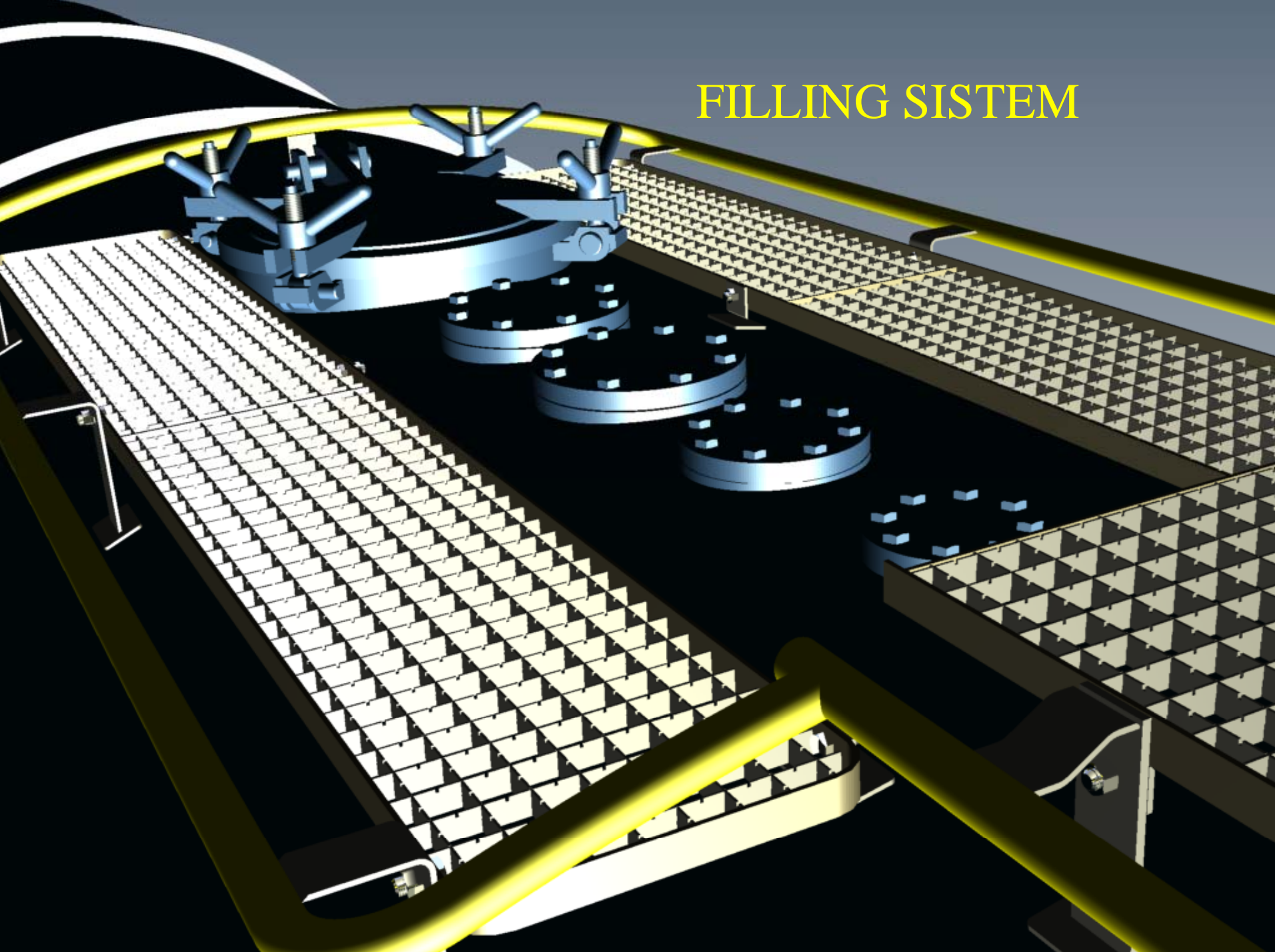
REALISTIC VIEW



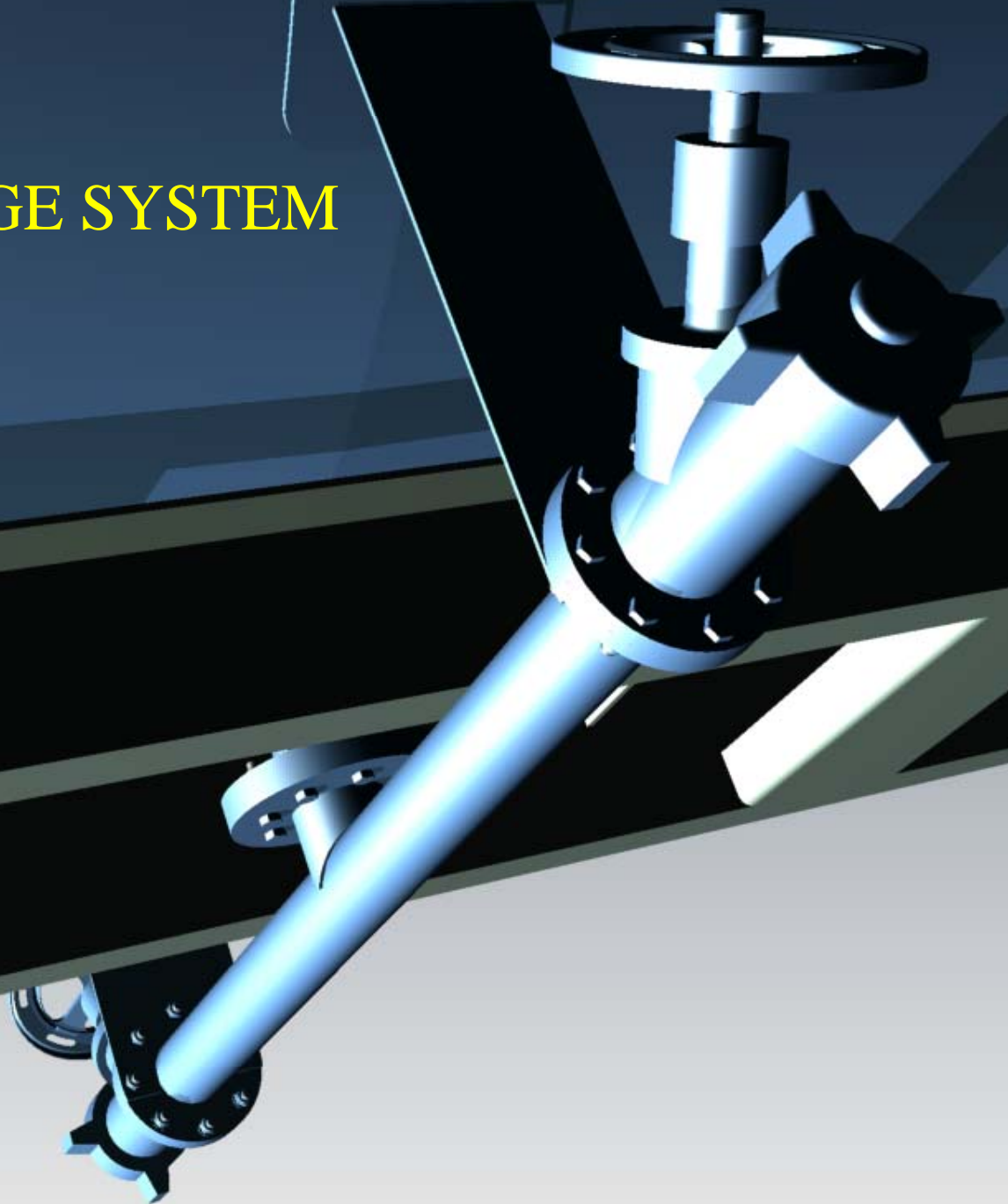
REALISTIC VIEW



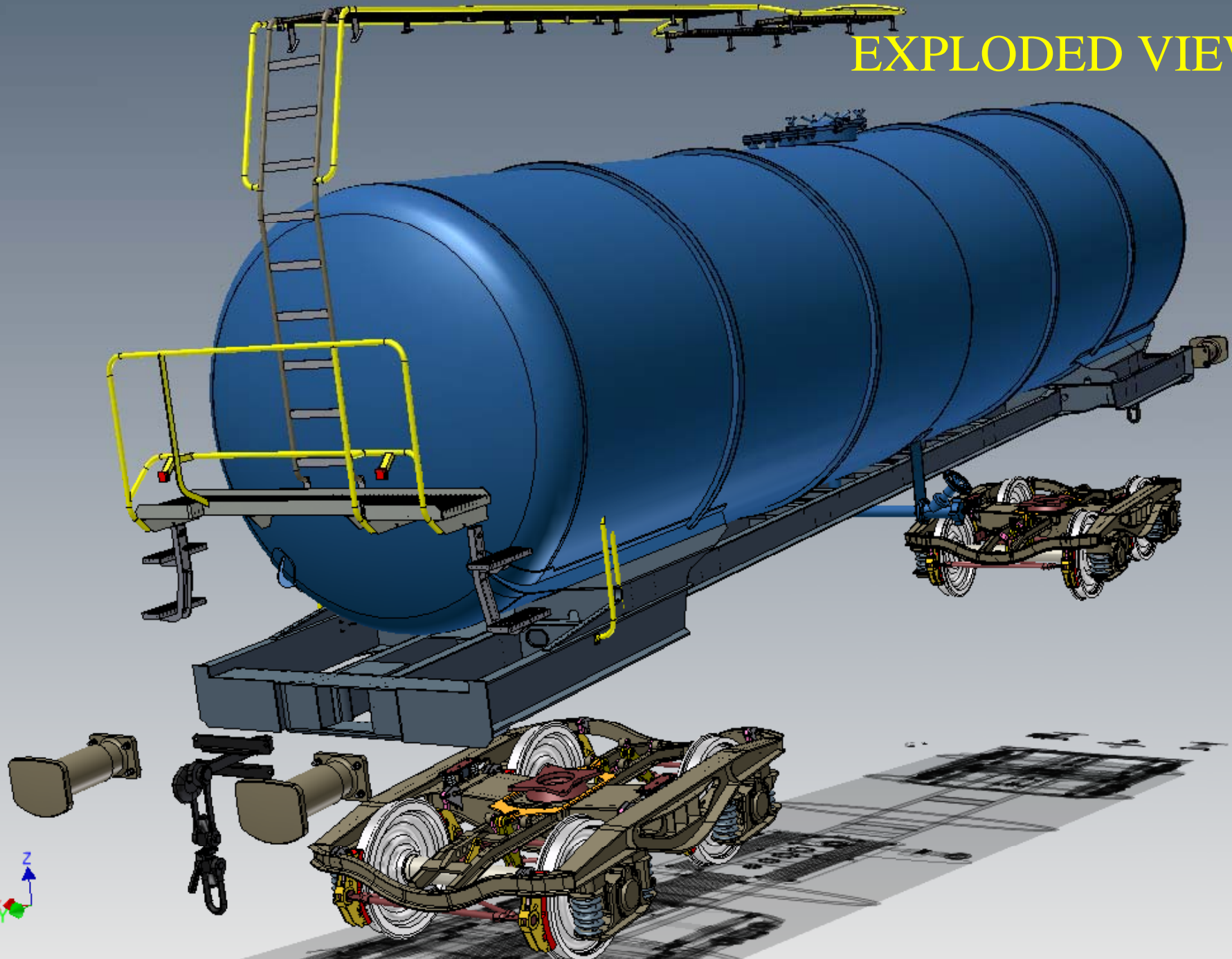
FILLING SYSTEM



DISCHARGE SYSTEM



EXPLODED VIEW



DESIGNED BY:

STEINER CONSULT

Freight car design team

December 08th, 2009

www.steiner-consult.de

www.bogie-user.de