



ML 1357

Type: Stabilized truck.

Carried by each axle: - 15175 kg (33500 Lbs)

Track gauge:

- 1,067 m (3'-6")

Journal:

 $-5" \times 9"$

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Bogie built for several countries all over the world.





ML 1310

Type : **Y25CS.2.**

Carried by each axle: - 20000 kg (44150 Lbs)

Track gauge:

- 1,435 m (4'-8¹/₂")

Journal:

- 130 × 191 m

 $(5\frac{1}{8}" \times 7\frac{1}{2}")$

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Bogie built for Société Nationale des Chemins de fer Belge and Deutsche Reichsbahn - GDR.

Wheel dia	0,920 m (3'-0 ¹ / ₄ ")
Truck wheel base	1,800 m (5'-10 ⁷ / ₈ ")
Journal centers	2,000 m (6'-6 ³ / ₄ ")
Height of top bolster at center to	
above rail	0,760 m (2'-5 ¹⁵ /16")
Side bearing centers	1,700 m (5'-6 ¹⁵ /16")

VANAF: A PARTIR DE: 18/04/89 (12.30 HR) Tel.: 02/378.05.10 Fax.: 02/378.11.09





FM 1163

Type: Box Car.

Utilisation : - Transport general cargo

Maximum load: - 38 Metric Ton

Capacity m³: - 73 m³

Speed limit: - 100 km/hour with "Barber"

stabilized bogies.

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Wagon built for the government of the Republic of Uganda.

Length over end sills	12,497 m (41'-0")
Total length over coupler faces	13,646 m (44'-9 ¹ / ₄ ")
Truck wheel base	1,753 m (5'-9")
Truck centers	8,687 m (28'-6")
Maximum height	3,614 m (11'-10 ¹ / ₄ ")
Coupler height	0,584 m (1'-11")
Inside length	12,497 m (41'-0")
Inside width	2,438 m (8'-0")
Door width	1,830 m (6'-0")
Door height	2,134 m (7'-0")
Height rail to top of floor	1,053 m (3'-5½")
Track gauge	1,000 m (3'-3\%")
Tare	18000 kg





FC 1167

Type: Flat Car.

Utilisation:

- Transport of trailers, contain-

ers (or semi-trailers).

Maximum load: - 44 Metric Ton

Capacity m3:

Speed limit:

- 120 km/hour

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Wagon built for Compagnie Auxiliaire Internationale de Chemin de fer Belge, and for Transport route Wagon Belge.

Length over end sills	15,200 m	(49'-107/18'
Total length over coupler faces	16,440 m	(53'-111/4")
Truck wheel base	1,800 m	(5'-10 ⁷ / ₈ ")
Truck centers	11,200 m	(36'-85/16")
Maximum height	1,433 m	(4'-8 ⁷ /16")
Coupler height	1,035 m	(3'-43/4")
Inside length	-	-
Inside width	-	-
Door width	-	_
Door height	_	-
Height rail to top of side sills	1,130 m	(3'-81/2")
Track gauge	1,435 m	(4'-81/2")
Tare	165	00 kg





FK 1132

Type: Automatic 2 Ways side hinged air dump Car.

Utilisation: - Transport of ore, stone...

Maximum load: - 50 Metric Ton

Capacity m³: - -

Speed limit : - 100 km/hour with "Barber"

stabilized bogies

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Wagon built for Nchanga Consolidated Copper Mines Ltd Zambia.

Length over end sills	12,065 m (39'-7")
Total length over coupler faces	13,018 m (42'-8½")
Truck wheel base	1,753 m (5'-9")
Truck center	8,915 m (29'-3")
Maximum height	2,287 m (7'-6")
Coupler height	0,889 m (2'-11")
Inside length	11,049 m (36'-3")
Inside width	2,571 m (8'-5 ¹ / ₄ ")
Door width	
Door height	
Height rail to top of floor	1,441 m (4'-8¾")
Track gauge	1,067 m (3'-6")
Tare	29650 kg



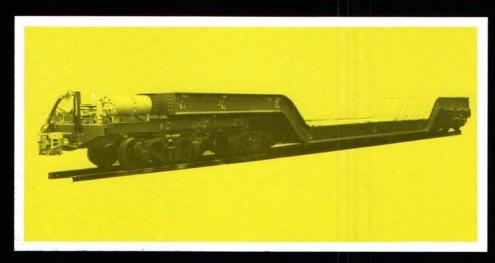


FO 1072

Type: Cattle Car.

Utilisation :	- Transport cattle and sheeps.	Length over end	sills	12,497 m (41'-0")
Maximum load :	- 20 Metric Ton cattle and	Total length over	coupler faces	13,361 m (43'-10")
	sheeps.	Truck wheel base		1,753 m (5'-9")
	 25 Metric Ton general mer- chandise. 	Truck centers		8,687 m (28'-6")
0 : 3		Maximum height		4,115 m (13'-6")
Capacity m ³ :	-	Coupler height.		0,901 m (2'-11½")
Speed limit :	- 80 km/hour with "Barber"	Inside length		12,497 m (41'-0")
	stabilized bogies.	Inside width		2,515 m (8'-3")
		Door width		1,350 m (4'-5 ⁵ / ₃₂ ") 1,600 m (5'-3")
		Door height	top doors btm doors	1,001 m (3'-3 ⁷ /16") 1,668 m (5'-5 ⁴³ / ₆₄ ")
Dimensions mentioned are optional and can be adapted according to customer's requirement.		Height rail to top	of floor	1,028 m (3'-4 ¹⁵ / ₃₂ ")
		Track gauge		1,067 m (3'-6")
Wagon built for	Sudan Railways.	Tare		20000 kg





FW 1020

Type: Depressed center platform car.

Utilisation: - Defense materiel units, tank

- and similar machinery.

Maximum load: - 85 Metric Ton

Capacity m³: --

Speed limit: - 100 km/hour with "Barber"

stabilized bogies.

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Wagon built for Ferrocariles Nacionales de Colombia.

Length over end sills 20,193 m (66'-3") Total length over coupler faces . . 21,113 m appx (69'-31/4") 1,397 m (4'-7") Truck centers 14,027 m (46'-01/4") Maximum height 1,930 m appx (6'-4") 0,610 m (2'-0") Inside width Height rail to top of floor 1,515 m (4'-11\%") 0,914 m (3'-0")

36300 kg





FM 1163

Type: Box Car.

Utilisation : - Transport general cargo

Maximum load: - 38 Metric Ton

Capacity m³: - 73 m³

Speed limit: - 100 km/hour with "Barber"

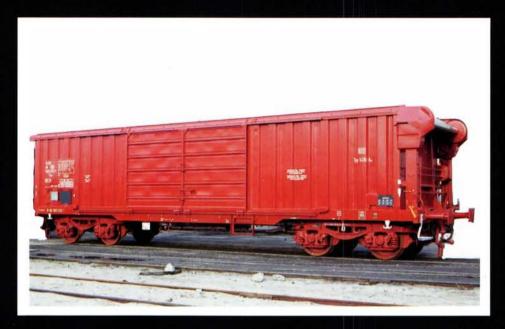
stabilized bogies.

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Wagon built for the government of the Republic of Uganda.

Length over end sills	12,497 m (41'-0")
Total length over coupler faces	13,646 m (44'-9 ¹ / ₄ ")
Truck wheel base	1,753 m (5'-9")
Truck centers	8,687 m (28'-6")
Maximum height	3,614 m (11'-10 ¹ / ₄ '
Coupler height	0,584 m (1'-11")
Inside length	12,497 m (41'-0")
Inside width	2,438 m (8'-0")
Door width	1,830 m (6'-0")
Door height	2,134 m (7'-0")
Height rail to top of floor	1,053 m (3'-5½")
Track gauge	1,000 m (3'-3\%")
Tare	18000 kg





FD 1208

Type: Gondola Car with sliding roof.

Utilisation:	 Miscellaneous transport.
Othisation .	- Iviiscellarieous transport.

Maximum load: - 57,5 Metric Ton

Capacity m³: - 72,5 m³

Speed limit: - 100 km/hour

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Wagon built for Société Nationale des Chemins de fer Belge.

12,800 m (41'-11 ¹⁵ /16"
14,040 m (46'-0 ³ / ₄ ")
1,800 m (5'-10 ⁷ / ₈ ")
9,000 m (29'-6 ⁵ /16")
3,600 m (11'-9 ³ / ₄ ")
1,060 m (3'-5¾")
12,394 m (40'-8")
2,636 m (8'-7 ¹³ / ₁₆ ")
4,050 m (13'-3 ⁷ /16")
2,150 m (7'-05/8")
1,235 m (4'-05%")
1,435 m (4'-8 ¹ / ₂ ")
22000 kg





FG 1167

Type: Hopper Car.

Utilisation : - Transport of phosphate (ma-

nual or automatic unloading).

Maximum load: - 42 Metric Ton

Capacity m³: - 30 m³

Speed limit: - 100 km/hour with "Barber"

stabilized bogies.

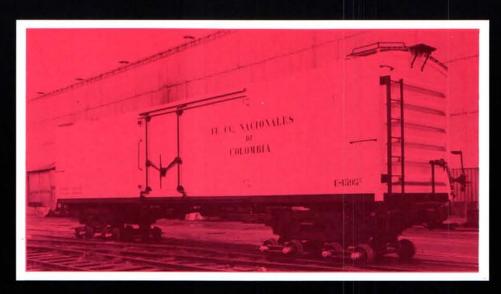
Dimensions mentioned are optional and can be adapted

Wagon built for Jordan Railways.

according to customer's requirement.

Length over end sills 9,636 m (31'-7\%") Total length over coupler faces . . 10,500 m (34'-5\%") 1,753 m (5'-9") 6,000 m (19'-8³/₁₆") Maximum height 3,620 m (11'-10½") 0,900 m (2'-117/16") 7,800 m (25'-7¹/₁₆") Inside width 2,743 m (9'-0") 3,650 m appx (11'-1111/16") 0,483 m appx (1'-7") Height rail to top of floor 1,050 m (3'-5\%") 19700 kg





FR 1066

Type: Refrigerator Car.

Utilisation : - Transport of meat, fish and

perishable merchandises.

Maximum load: - 17 Metric Ton

Capacity m³: - 35 m³ appx

Speed limit: - 100 km/hour

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Wagon built for Ferrocariles Nacionales de Colombia.

Length over end sills	12,344 m (40'-6")
Total length over coupler faces	13,284 m (43'-7")
Truck wheel base	1,620 m (5'-3 ²⁵ / ₃₂ ")
Truck centers	8,724 m (28'-7 ¹⁵ / ₃₂ ")
Maximum height	3,571 m (11'-8 ¹⁹ / ₃₂ ")
Coupler height	0,629 m (2'-0¾")
Inside length	9,181 m (30'-1½")
Inside width	1,985 m (6'-6 ⁵ / ₃₂ ")
Door width	1,800 m (5'-10 ⁷ / ₈ ")
Door height	1,750 m (5'-8 ²⁹ / ₃₂ ")
Height rail to top of floor	1,218 m (3'-11 ¹⁵ / ₁₆ ")
Track gauge	0,914 m (3'-0")
Tare	22800 kg





FG 1150

Type: Covered Hopper Car.

Utilisation :	- Transport of grain	Length over end sills	12,240 m	(40'-1 ⁷ / ₈ ")
Maximum load: - 35 Metric Ton Capacity m³: - 47 m³		Total length over coupler faces	13,180 m	(43'-2 ⁷ / ₈ ")
		Truck wheel base	1,397 m	(4'-7")
		Truck centers	9,218 m	(30'-2 ¹⁵ /16")
Speed limit :	 100 km/hour with "Barber" stabilized bogies. 	Maximum height	3,921 m	(12'-10%")
		Coupler height	0,610 m	(24")
		Inside length	12,230 m	(40'-1 ¹ / ₂ ")
		Inside width	2,451 m	(8'-0 ¹ / ₂ ")
		Door width	-	-
Dimensions mentioned are optional and can be adapted according to customer's requirement.		Door height	-	-
		Height rail to top of floor	-	_
Wagon built for Ferrocariles Nacionales de Colombia.		Track gauge	0,914 m ((36")
		Tare	1925	0 kg





FG 1161

Type: Hopper Car (Aluminium).

Utilisation: - Transport of grain

Maximum load: - 54,480 Metric Ton

Capacity m³: - 85 m³

Speed limit: - 100 km/hour with "Barber"
- stabilized bogies.

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Wagon built for Ferrocariles Nacionales de Colombia.

Length over end sills 11,944 m $(39'-4\frac{3}{16}'')$ Total length over coupler faces . . 12,794 m (41'-1111/16") Truck wheel base 1,676 m (5'-6") 8,666 m (28'-5³/₁₆") Maximum height 4,248 m (13'-11¹/₄") 0,889 m (35") Inside width 3,060 m (10'-0¹/₂") Door width Height rail to top of floor 0,762 m (30") Tare 18980 kg





FC

26000 kg

Type: Hopper Car (type Fals).

Utilisation : - Transport of coal.	Length over end sills	11,300 m (37'-0 ⁷ / ₈ ")
Maximum load : - 54 Metric Ton	Total length over coupler faces	12,520 m (41'-0 ¹⁵ / ₁₆ "
	Truck wheel base	1,800 m (5'-10 ⁷ / ₈ ")
Capacity m ³ : - 75 m ³	Truck center	7,500 m (24'-7 ¹ / ₄ ")
Speed limit: - 100/120 km/hour	Maximum height	4,100 m (13'-5 ⁷ / ₁₆ ")
	Coupler height	1,060 m (3'-5 ³ / ₄ ")
	Inside length	11,900 m (35'-91/8")
	Inside width	2,150 m (7'-05/8")
	Door width	4,950 m (16'-2 ⁷ / ₈ ")-
Dimensions mentioned are optional and can be adapted	Door height	1,530 m (5'-0 ¹ / ₄ ")
according to customer's requirement.	Height rail to top of floor	
Wagon built for Société Nationale des Che-	Track gauge	1,435 m (4'-8½")
Tragon Sam Social Rationals ass Sile		

mins de fer Belge.





ML 1347

Type: Bogie Y32 for Passenger Car.

Carried by each axle: - 15000 kg (33112 Lbs)

Track gauge:

- 1,435 m (4'-8½")

Journal:

 $-130 \times 217 \text{ m}$ $(5\frac{1}{2}" \times 8\frac{9}{16}")$ Wheel dia 0,890 m (2'-11")

Truck wheel base 2,560 m (8'- $4^{13}/_{16}$ ")

Journal centers 2,000 m (6'- $6\frac{3}{4}$ ")

Height of center pivot above rail.

Side bearing centers 1,100 m (3'-75/6")

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Bogie built for Société Nationale des Chemins de fer Belge.





ML 1310

Type: **Y25CS.2.**

Carried by each axle: - 20000 kg (44150 Lbs)

Track gauge:

- 1,435 m (4'-8½")

Journal:

- 130 × 191 m

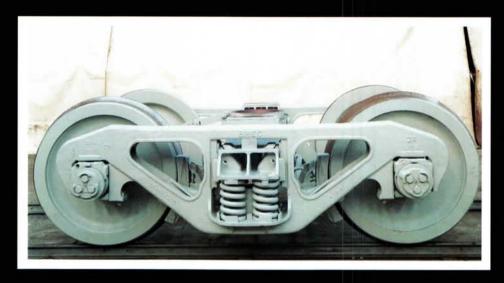
 $(5\frac{1}{8}" \times 7\frac{1}{2}")$

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Bogie built for Société Nationale des Chemins de fer Belge and Deutsche Reichsbahn -GDR.

Wheel dia	0,920 m (3'-0 ¹ / ₄ ")
Truck wheel base	1,800 m (5'-10 ⁷ / ₈ ")
Journal centers	2,000 m (6'-6 ³ / ₄ ")
Height of top bolster at center to	
above rail	0,760 m (2'-5 ¹⁵ /16")
Side bearing centers	1,700 m (5'-6 ¹⁵ / ₁₆ ")





ML 1357

Type: Stabilized truck.

Carried by each axle: - 15175 kg (33500 Lbs)

Track gauge:

- 1,067 m (3'-6")

Journal:

- 5" × 9"

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Bogie built for several countries all over the world.





FG 1213

Type: Gondola Car.

Utilisation:

- Transport of kinds of ore

(copper - iron - bauxite) for unloading by tippler.

Maximum load: - 75 Metric Ton

Capacity m³:

- 56 m³

Speed limit:

- 100 km/hour with "Barber"

stabilized bogies.

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Wagon built for Compagnie des Bauxites de Guinée.

Length over end sills	10,200 m (33'-5 ¹⁹ / ₃₂ ")
Total length over coupler faces	11,198 m (36'-81/4")
Truck wheel base	1,778 m (5'-10")
Truck centers	5,950 m (19'-61/4")
Maximum height	3,187 m (10'-5 ¹⁵ / ₃₂ ")
Coupler height	0,817 m (2'-85/32")
Inside length	9,680 m (31'-91/8")
Inside width	3,000 m (9'-101/8")
Door width	
Door height	
Height rail to top of floor	1,087 m (3'-6 ¹³ / ₁₆ ")
Track gauge	1,435 m (4'-8"½")
Tare	23860 kg





FG 1150

Type: Covered Hopper Car.

Utilisation :	- Transport of grain	Len
Maximum load :	- 35 Metric Ton	Tota
Capacity m ³ :	- 47 m ³	Tru
Speed limit :	 100 km/hour with "Barber" stabilized bogies. 	Max
		Cou
		Insi

ngth over end sills 12,240 m (40'-11/8") tal length over coupler faces . . 13,180 m (43'-21/8") ick wheel base 1,397 m (4'-7") 9,218 m (30'-2¹⁵/₁₆") ximum height 3,921 m (12'-10\%") upler height 0,610 m (24") ide length 12,230 m (40'-1½") Inside width 2,451 m (8'-01/2") Door width Height rail to top of floor 0,914 m (36") 19250 kg

Dimensions mentioned are optional and can be adapted according to customer's requirement.

Wagon built for Ferrocariles Nacionales de Colombia.





FP 1207

Type: Aluminium Tank Car.

Utilisation :	 Transport of chemical product. 	Length over end sills	12,640 m (41′-55⁄8″)
		Total length over coupler faces	13,880 m (45′-6 ⁷ /16″)
Maximum load :	- 58 Metric Ton	Truck wheel base	1,800 m (5′-10 ⁷ /8″)
Capacity m ³ :	- 55 m ³	Truck centers	8,840 m (29'-0")
		Maximum height	4,257 m (13'-115/8")
Speed limit :	- 100 km/hour	Coupler height	1,060 m (3'-53/4"))
		Inside length	11,614 m (38'-11/4")
		Inside width	2,578 m (8'-51/2")
		Door width	-	-
		Door height		-
Dimensions mentioned are optional and can be adapted according to customer's requirement.		Height rail to top of floor	_	-
		Track gauge	1,435 m (4'-8½")	
Wagon built for	Deutsche Reichsbahn - GDR.	Tare	2600	00 kg