



## MX-X Technical Data Very Narrow Aisle Truck (man-up) with Turret Head or Telescopic Fork

MX-X/Li-lon



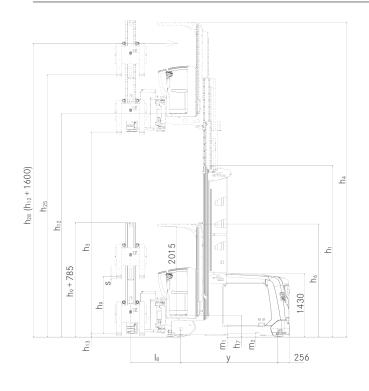


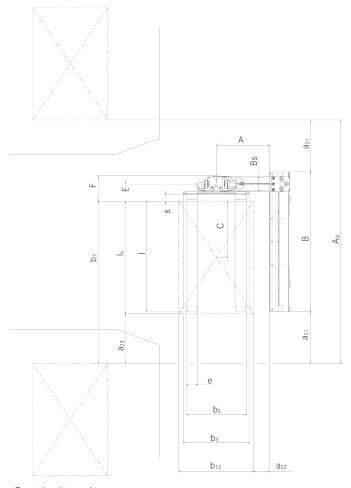
first in intralogistics



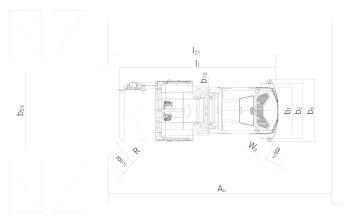
1.1	Manufacturer				STILL	STILL	STILL	STILL
1.2	Manufacturer's type designation				MX-X/Li-lon with turret head	MX-X/Li-lon with turret head	MX-X/Li-lon with telescopic fork	MX-X/Li-lon with telescopic fork
1.3	Drive				Electric	Electric	Electric	Electric
1.4	Operation				Stand-on/rider seated	Stand-on/rider seated	Stand-on/rider seated	Stand-on/rider seated
1.5	Rated capacity/load		Q	kg	1500	1250	1250	1250
1.6	Load centre		С	mm	600	600	600	600
1.9	Wheel base		у	mm	1992	2212	1992	2212
2.1	Service weight (incl. battery)			kg	8410	11150	8088	10871
2.2	Axle load with load	drive end/load end		kg	2573/7337	3698/8702	2384/6954	3505/8615
2.3	Axle load without load	drive end/load end		kg	3362/4972	4349/6801	3173/4915	4220/6651
3.1	Tyres				Vulkollan	Vulkollan	Vulkollan	Vulkollan
3.2	Tyre diameter/width	drive end		mm	406/170	406/170	406/170	406/170
3.3	Tyre diameter/width	load end		mm	370/160	370/160	370/160	370/160
3.5	Number of wheels (x = driven)	drive end/load end			1x/2	1x/2	1x/2	1x/2
3.6	Track width	drive end/load end	$b_{10}/b_{11}$	mm	1245/0	1595/0	1145/0	1295/0
4.2		mast lowered	h <sub>1</sub>	mm	3900	5400	3400	5400
4.3	Free lift		h <sub>2</sub>	mm	-	4150	-	4150
4.4	Lift		h <sub>3</sub>	mm	5200	11550	4200	11550
4.5	Height	mast extended	h <sub>4</sub>	mm	7785	14135	6785	14135
4.7			h <sub>6</sub>	mm	2555	2555	2555	2555
	Stand height, lowered		h <sub>7</sub>	mm	460	460	460	460
	Auxiliary fork lift		h <sub>9</sub>	mm	1800	1800	800	800
	Stand height, raised		h <sub>12</sub>	mm	5660	12010	4660	12010
	.1 Reach height (h <sub>12</sub> + 1600)		h <sub>28</sub>	mm	7260	13610	6260	13610
	Height lowered		h <sub>13</sub>		60	60	380	380
4.19			I <sub>1</sub>	mm	3622	3937	3847	4067
	Overall width, load wheel axle		-	mm	1160/1450	1160/1800	1160/1350	1160/1500
4.22			s/e/l	mm	50/120/1190	50/120/1205	65/174/1200	65/174/1200
	Width of fork carriage		b <sub>3</sub>		710	710	830	830
4.25			b <sub>5</sub>	mm	470/640	470/640	545/545	545/545
	Width over guide rollers		b <sub>6</sub>	mm	1640	1870	1475	1595
4.29			b <sub>7</sub>	mm	1305	1398	1340	1400
	Floor clearance with load, beneath mast		m <sub>1</sub>		40	40	40	40
4.32			m <sub>2</sub>	mm	87	87	87	87
	Working aisle width		Ast		1645	1875	1480	1600
4.35			Wa	mm	2248	2468	2248	2468
4.38			18	mm	1019	1114	1269	1269
4.39			A B	mm	480	575 1540	-	-
4.40			Б		1465			
4.41			Α	mm	250 4041	310 4466	4222	4442
4.42 4.44			Au		412	412	412	412
	Headroom clearance cabin			mm	2000	2000	2000	2000
5.1		ladan /unladan		mm km/h				
	Driving speed Lift speed	laden/unladen laden/unladen		km/h	14.0/14.0 <sup>1</sup> 0.6/0.6	12.0/12.0 0.48/0.53	14.0/14.0 <sup>1</sup> 0.6/0.6	12.0/12.0 0.48/0.53
	Lift speed Lowering speed	laden/unladen			0.45/0.45	0.48/0.53	0.45/0.45	0.45/0.45
5.5	Shift speed	laden/unladen			0.29/0.29	0.30/0.30	0.45/0.45	0.25/0.25
	Acceleration time (10 m)	laden/unladen		S S	6/6	7/7	6/6	7/7
	Service brake	iauen/uniauen		5	Regenerative	Regenerative	Regenerative	Regenerative
	Drive motor, capacity S2 = 60 min			kW	7.0	7.0	7.0	7.0
	Lift motor, capacity S3 = 15%			kW		24.0	24.0	24.0
6.3				KVV.	IEC 254-2; A	IEC 254-2; A	IEC 254-2; A	IEC 254-2; A
	Battery type, voltage, rated capacity K <sub>5</sub>			\//Ab	PzS, 80 V, 700 Ah	PzS, 80 V, 930 Ah	PzS, 80 V, 700 Ah	PzS, 80 V, 930 Ah
6.5					1863	2178	1863	2178
	Type of truck control microprocessor			kg	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Type of truck control inicroprocessor				Microprocessor	Microprocessor	Microprocessor	Microprocessor

<sup>&</sup>lt;sup>1</sup> Depends on configuration

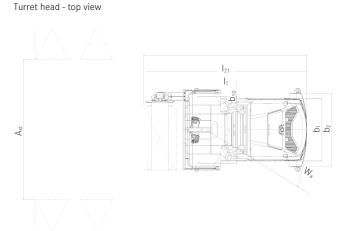




MX-X with turret head - side view

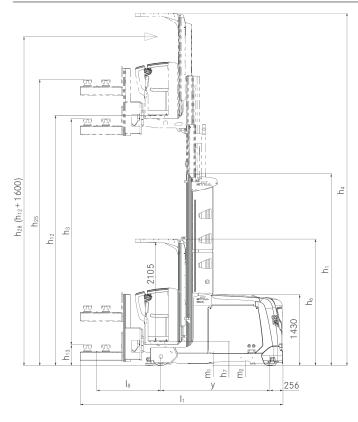


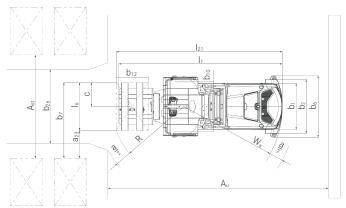
MX-X with turret head and mechanical guidance - top view



MX-X with turret head and inductive guidance - top view

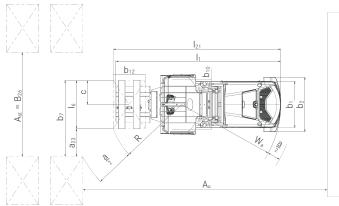
# MX-X Very Narrow Aisle Truck (man-up) with Turret Head or Telescopic Fork Technical Drawings



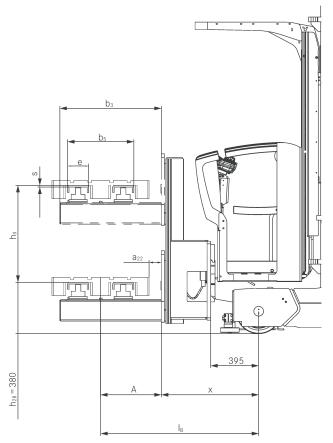


MX-X with telescopic fork and rail guidance - top view

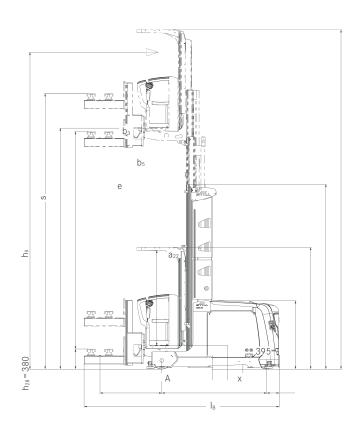
MX-X with telescopic fork and inductive guidance - top view



MX-X with telescopic fork - side view



MX-X with high telescopic fork - side view



MX-X with low telescopic fork - side view

## MX-X Very Narrow Aisle Truck (man-up) with Turret Head or Telescopic Fork Mast Tables

#### MX-X with turret head

Telescopic mast (all heights indicated in mm)

Overall height h <sub>1</sub>	Overall lift above floor h <sub>25</sub> (h <sub>3</sub> + h <sub>9</sub> + h <sub>13</sub> )	Overall lift h <sub>24</sub> (h <sub>3</sub> + h <sub>9</sub> )	Lift h₃	Height lowered h <sub>13</sub>	Auxiliary lift h9	Stand height h <sub>12</sub> (h <sub>3</sub> + h <sub>7</sub> )	Reach height h <sub>28</sub> (h <sub>12</sub> + 1600)	Maximum height h <sub>4</sub>
2400	4060	4000	2200	60	1800	2660	4260	4785
2900	5060	5000	3200	60	1800	3660	5260	5785
3400	6060	6000	4200	60	1800	4660	6260	6785
3900	7060	7000	5200	60	1800	5660	7260	7785
4400	8060	8000	6200	60	1800	6660	8260	8785
4900	9060	9000	7200	60	1800	7660	9260	9785
5400	10060	10000	8200	60	1800	8660	10260	10785
5900	10860	10800	9000	60	1800	9460	11060	11585
6400	11860	11800	10000	60	1800	10460	12060	12585
6900	12660	12600	10800	60	1800	11260	12860	13385
7400	13660	13600	11800	60	1800	12260	13860	14385

Triplex mast with free lift (all heights indicated in mm)

Overall height h <sub>1</sub>	Overall lift above floor $h_{25}$ ( $h_3 + h_9 + h_{13}$ )	Overall lift h <sub>24</sub> (h <sub>3</sub> + h <sub>9</sub> )	Lift h₃	Height lowered h <sub>13</sub>	Auxiliary lift h9	Stand height h <sub>12</sub> (h <sub>3</sub> + h <sub>7</sub> )	Reach height h <sub>28</sub> (h <sub>12</sub> + 1600)	Maximum height h <sub>4</sub>
2900	6910	6850	5050	60	1800	5510	7110	7635
3400	8210	8150	6350	60	1800	6810	8410	8935
3900	9310	9250	7450	60	1800	7910	9510	10035
4400	10610	10550	8750	60	1800	9210	10810	11335
4900	11910	11850	10050	60	1800	10510	12110	12635
5400	13410	13350	11550	60	1800	12010	13610	14135
5900	14710	14650	12850	60	1800	13310	14910	15435
6400	16210	16150	14350	60	1800	14810	16410	16935
6900	17510	17450	15650	60	1800	16110	17710	18235

#### MX-X with telescopic fork

Telescopic mast (all heights indicated in mm)

Overall height h <sub>1</sub>	Overall lift above floor $h_{25}$ ( $h_3 + h_9 + h_{13}$ )	Overall lift h <sub>24</sub> (h <sub>3</sub> + h <sub>9</sub> )	Lift h <sub>3</sub>	Height lowered h <sub>13</sub>	Auxiliary lift h9	Stand height h <sub>12</sub> (h <sub>3</sub> + h <sub>7</sub> )	Reach height h <sub>28</sub> (h <sub>12</sub> + 1600)	Maximum height h <sub>4</sub>
2400	3380	3000	2200	380	800	2660	3860	4755
2900	4380	4000	3200	380	800	3660	4860	5755
3400	5380	5000	4200	380	800	4660	5860	6755
3900	6380	6000	5200	380	800	5660	6860	7755
4400	7380	7000	6200	380	800	6660	7860	8755
4900	8380	8000	7200	380	800	7660	8860	9755
5400	9380	9000	8200	380	800	8660	9860	10755
5900	10180	9800	9000	380	800	9460	10660	11555
6400	11180	10800	10000	380	800	10460	11660	12555
6900	11980	11600	10800	380	800	11260	12460	13355
7400	12980	12600	11800	380	800	12260	13460	14355

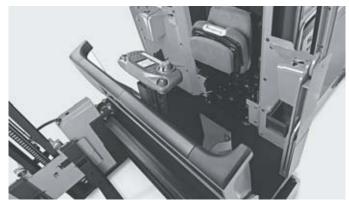
Triplex mast with free lift (all heights indicated in mm)

Overall height h <sub>1</sub>	Overall lift above floor h <sub>25</sub> (h <sub>3</sub> + h <sub>9</sub> + h <sub>13</sub> )	Overall lift h <sub>24</sub> (h <sub>3</sub> + h <sub>9</sub> )	Lift h₃	Height lowered h <sub>13</sub>	Auxiliary lift h9	Stand height h <sub>12</sub> (h <sub>3</sub> + h <sub>7</sub> )	Reach height h <sub>28</sub> (h <sub>12</sub> + 1600)	Maximum height h <sub>4</sub>
2900	6230	5850	5050	380	800	5510	7110	7605
3400	7530	7150	6350	380	800	6810	8410	8905
3900	8630	8250	7450	380	800	7910	9510	10005
4400	9930	9550	8750	380	800	9210	10810	11305
4900	11230	10850	10050	380	800	10510	12110	12605
5400	12730	12350	11550	380	800	12010	13610	14105
5900	14030	13650	12850	380	800	13310	14910	15405
6400	15530	15150	14350	380	800	14810	16410	16905
6900	16830	16450	15650	380	800	16110	17710	18205

## MX-X Very Narrow Aisle Truck (man-up) with Turret Head or Telescopic Fork Detailed Photos



Individually adjustable rear view mirrors for easy access into the aisles



Comfortable work standing and seated



Compact and ergonomic control panel with colour display and driver information



Three-dimensional positioning of the control panel



Tilting bar for ergonomic order picking to the last article on the pallet



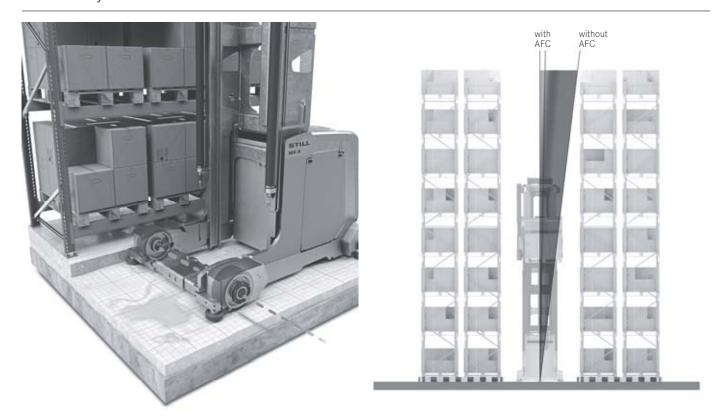
Upholstered knee protector and cup holder for comfortable work



Versatile support system for individual work spaces



Spacious work space with multiple supports for accessories



#### Active Floor Compensation (AFC)

### Active Floor Compensation (AFC) – Maximum performance also with uneven floors.

The floors in VNA warehouses need to be of a high quality. Should they be uneven or have any traces of wear, these will be transferred directly to the forklift truck in the form of vibrations. For maximum speeds and efficiency to be achieved, the floor needs to be absolutely level. Reconditioning the floor is not only costly, it also prevents the warehouse from being fully utilised while the work is being carried out.

#### Active assistance system: AFC

With the assistance system for the MX-X Very Narrow Aisle Truck, STILL offers a genuine alternative to reconditioning the warehouse floor. The

system identifies any uneven surfaces in the load wheels' path and compensates for them in real time. This ensures that the truck frame always remains horizontal and the mast vertical. The AFC system – the only one of its kind on the market – has ultra-fast processors which allow it to react instantaneously, even when travelling at top speeds. In contrast to passive systems that only have a dampening effect, this system actively prevents vibrations before they occur.

Reduced vibrations – higher handling performance. Preventing mast vibrations protects the load, the warehouse and the driver and, last but not least, facilitates a significant increase in handling capacity with the help of AFC.

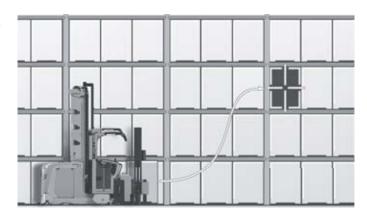
#### Active Load Stabilisation (ALS)

#### Unique around the world: STILL Active Load Stabilisation (ALS):

Active load stabilisation is unique in narrow aisle operations. It not only increases comfort, but also optimises the pushing movement when loading and picking. The hydraulic control inhibits mast vibrations and increases handling capacity by up to 5 percent.

#### STILL OptiSpeed 4.0

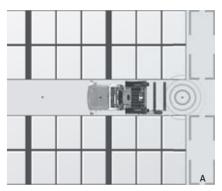
OptiSpeed 4.0 – Navigation aid for the driver. This system optimises the approach to the destination by stopping forks automatically at the horizontal and vertical target position. The positioning is determined by means of distance measuring and comparison with the current position (via RFID transponders or barcodes). OptiSpeed 4.0 differentiates between loading, unloading and order picking at the target position, and adjusts the lifting height of the fork automatically.



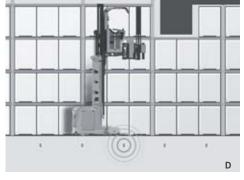
#### STILL OptiSafe

This system supports you with configurable speed and function adjustments in storage areas which call for special safety regulations,

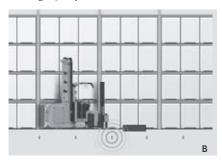
e.g. in the event of obstacles, height restrictions or the ends of aisles.



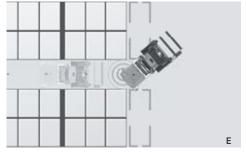
Optimised braking distances (A): At the end of the aisle, the forklift truck decelerates gently in relation to the speed and lifting height, which increases handling capacity.



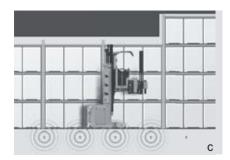
Collision avoidance (D): Known obstacles can be defined. The driver does not have to memorise all the features of the warehouse and can concentrate on his or her work.



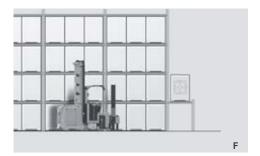
Automatic speed adjustment (B): In defined zones, speed adjustments can be set automatically based on the ground conditions.



Aisle exit assistant (E): The steering can be locked for a defined stretch, e.g. when exiting an aisle to avoid collisions.



Height limitation (C): The adjustable height limitation enables optimum use of space right up to the ceiling in halls of different heights.



**Position selection (F):** The position selection enables a targeted approach to defined, frequently used positions, such as transfer points.

### MX-X Very Narrow Aisle Truck (man-up) with Turret Head or Telescopic Fork Perfection in Performance and Comfort

Optimum use of storage space: 18-metres lift height and highest residual load capacity

Fast storage and retrieval: Active load stabilisation (ALS) to reduce mast oscillations

Maximum possible working comfort: Spacious and flexibly adjustable driver's cabin

Maximum travel speeds: Active Floor Compensation (AFC) compensates for uneven ground

Innovative technologies and smart modularity: The STILL MX-X VNA Very Narrow Aisle Truck (man-up) sets standards in performance and user-friendliness. Developed to optimally handle any challenge, the MX-X scores with performance packages for every application profile. Thus you receive a truck precisely adapted to your individual requirements - from its dimensions to its technical features. The focus is on the operator: A spacious and flexibly adaptable driver's cabin, intuitive controls and smart assistance systems promise safe, comfortable and efficient work throughout a whole shift.



Driving speeds of up to 14 km/h, a lift height of up to 18 metres and the highest residual load capacity on the market make the MX-X a turnover champion in highly compacted warehouse worlds. Whilst the active load stabilisation (ALS) notably shortens storage and retrieval processes by up to 5%, the mechanism of the turret head promises even shorter picking distances. Thanks to the fully welded auxiliary lift, the MX-X scores with maximum stability throughout its service life. The STILL MX-X high bay order pickers can be individually configured according to your requirements and will thrill you with their excellent functionality.

#### Extensive Equipment

#### Power

- Effective load handling due to very high drive and lift speeds of up to 14 km/h; 0.6 m/s
- High turnover performance: Simultaneous operation of the main and auxiliary lift
- Best performance: Individual performance packages for every application profile
- Full of energy for multi-shift applications: High battery capacities and Li-lon Ready (48 V)
- High speeds: Active Floor Compensation (AFC) compensates for uneven floors

#### Precision

- Fast storage and retrieval: Active load stabilisation (ALS) reduces mast oscillations and increases turnover by up to 5%
- Maximum storage density: Lift height of 18 metres
- Precision on the push of a button: STILL colour display with freely programmable favourite keys, optional lift height pre-selection and driver information
- Safe and effortless work: Semi-automatic positioning with OptiSpeed 4.0

#### Ergonomics

- Top work comfort: Height-adjustable control panel with ergonomic steering knob, intuitive controls and colour display
- Safe functionality: Optional tilting barriers for even better access to the rack

- Cabins for every type of application: From wind protection to cold store cabin
- Great freedom of movement: Cabin sizes for any requirement
- Healthy and relaxed work: Shock-absorbing cabin floor, large foot section and optimum placement of the drive switch

#### Compactness

- Maximum storage density with customer-specific truck dimensions
- Compact turret head with short order picking distance

#### Safety

- Safe functionality: OptiSafe assistance system for flexible adaptation of speeds and functions for defined areas in the warehouse
- Safe storage and retrieval: Standard reach control depending on lift height and load capacity
- Audible and visible safety: Rescue Alert emits acoustic and visual warnings in case of abnormal driver behaviour
- Optimum visibility: Large window to pick up load carriers from the floor

#### Environment

- Longer service times: Energy recovery when braking and lowering
- Reduced noise emission: Optimised design of the hydraulic systems
- Reduced energy consumption on the push of a button: Blue-Q
  efficiency mode saves up to 12 per cent of energy without affecting
  the performance of the fleet

# MX-X Very Narrow Aisle Truck (man-up) with Turret Head or Telescopic Fork Equipment Variants



Exporting, shock absorbing seat with horizontal and till adjustment.  Seat visitative all arm exest and flavoring or allessupement confort on burnly floors and trespases  Shock-ceaching exist speace for optimum control or burnly floors and trespases  Carliad callan for greated freedom of neverment  Carliad callan for greated freedom of neverment  Colled sear version for temporalisms as price 30°C  Colled sear version for temporalisms as the search for seated and standing driving  Colled search version operal integrated in the ammeris of the seat for seated and standing driving  Colled search version operal integrated in the ammeris of the seat for seated and standing driving  Colled search version operal integrated in the ammeris of the seat for seated and standing driving  Colled search version operal integrated in the ammeris of the seat for seated and standing driving  Colled search version operal integrated and the seat for seated and standing driving  Colled seated version operal seated and seated as the seated of seated and standing driving  Colled seated version operal seated and seated as the seated of seated and standing driving  Colled seated version operations and seated as the seated and standing driving  Colled seated version operations and seated as the seated of seated colled seated on the seated seated for seated seated for seated for seated for seated for seated seated for seated for seated for seated for seated seated for s			MX-X With turret head	MX-X With telescopic fork
Shock-absorbing work speece for optimum control or bumpy floors and trepeases  Control cabin for greatest freedom of movement  Control cabin for greatest freedom of the greatest freedom of the cabin for greatest freedom of the freedom of		Ergonomic, shock absorbing seat with horizontal and tilt adjustment	•	•
Cornic point for freedom of mountaint of home order pointing or stancing.  Cornic could not gratests refered on in swement.  Many different cabin widets 1,075-1,970 mml  Cod store vector for forest personal pays to 30°C  Heights overfixed guide. 1,979-1,970 mml  Cod store vector for forest personal with early control the track.  Single control placed control paint with early control the track.  Single control placed control paint with early control the track.  Cod for vector operation is set to 10°C  Divide display to indicate or paralling state.  Illiance passers for operations set to 10°C  Upontation of paralling seals.  Illiance passers for operations set to 10°C  Notes uphoteletring for support when order picking.  Kines uphoteletring for support when order picking.  Kines uphoteletring for support with early control the display set to 10°C  Additional to 10°C  Additional to 10°C  Additional to 10°C  Additional to 10°C  Display of 10°C  Dis			0	0
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Many different claim waters (1,1745-1,1747 mm)		, 5		-
Cold after version for temperatures up to 30°C Heights overlately placed control panel with repromise steering innot to control the truck Two piece control yeard control panel with repromise steering innot to control the truck Two piece control seal integrates in the aurrents of the seal for sealed and standing diving  O		ü .	0	0
Heights centred award 1,3401/2000/2000 mm Single control placed control panel with ergonomic steering knob to control the truck    New-piece control placed integrated in the airmetest of the seat for seated and standing driving   Octobroid highly to indicate operating states   Thing betrief for optimum reach   Octobroid highly to indicate operating states   Octobroid highly states   Oc			0	
Single centrally placed control panel with exponential scenarios of the seast for seaved and standing driving.  O O Colour display to indicate centraling states  I Tilling barrier for optimum research of the seast for seaved and standing driving.  O O O D I Tilling barrier for optimum research of the closed cabin.  I Tilling barrier for optimum research of the Closed cabin.  O O O D D D D D D D D D D D D D D D D		·		
Top piece control panel integrates in the armerets of the seat for seated and standing driving   O   Colour displays to indiscate operating stants   O   Colour displays to standing stuck operation   O   Colour displays   O   Colour displa			0/0/0	0/0/0
Tilles patient for optimism resident control of the closed cubin			0	0
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More options and modules available.

● Standard ○ Optional — Not available







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