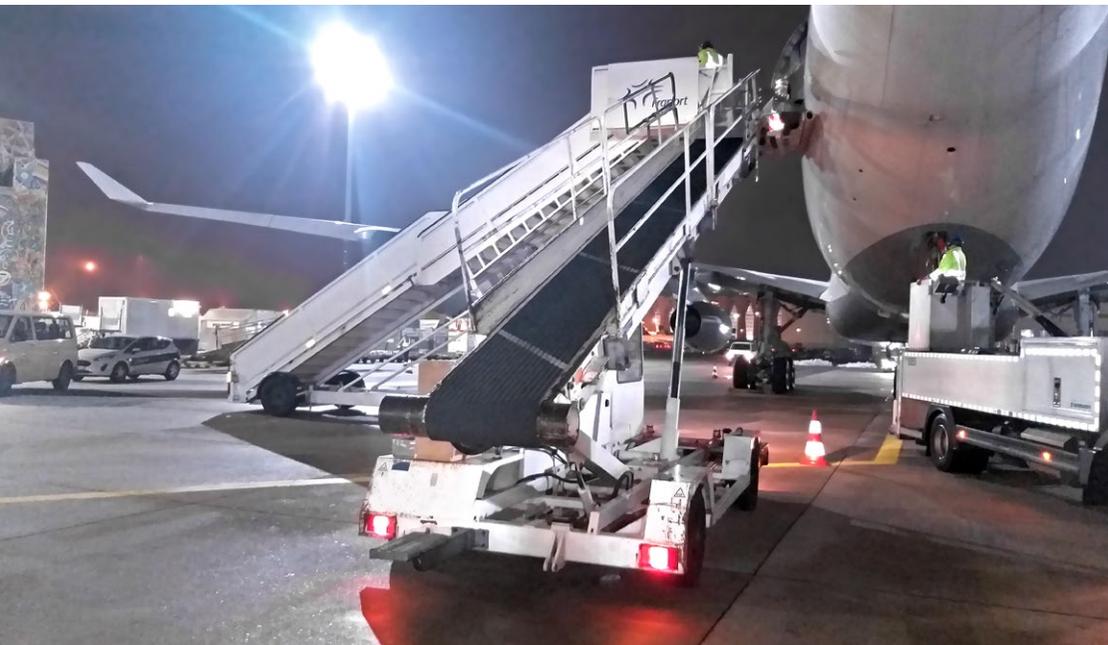


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ULS 3500

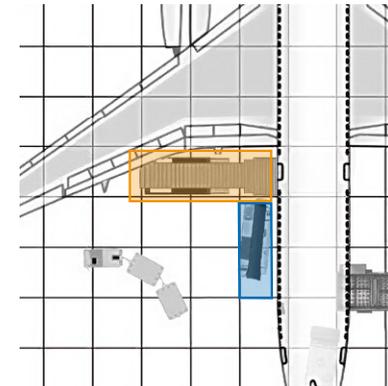
Loading table for Orbiter series



Unloading the passenger deck with the ULS 3500

The loading table ULS 3500 can be mounted to a MULAG Orbiter conveyor or belt vehicle to unload general cargo from the main deck of aircraft that cannot be reached directly with the Orbiter due to the increased loading height.

To unload the aircraft, a passenger staircase is first placed at the door of the aircraft as a safeguard against falling. The MULAG Orbiter with loading table is docked to the side of the retracted railing of the staircase for unloading.



Now the general cargo is fed from the passenger deck via the loading table to the conveyor belt and safely transported downwards.

Your benefits

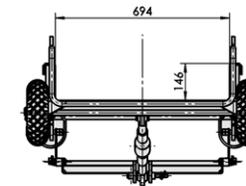
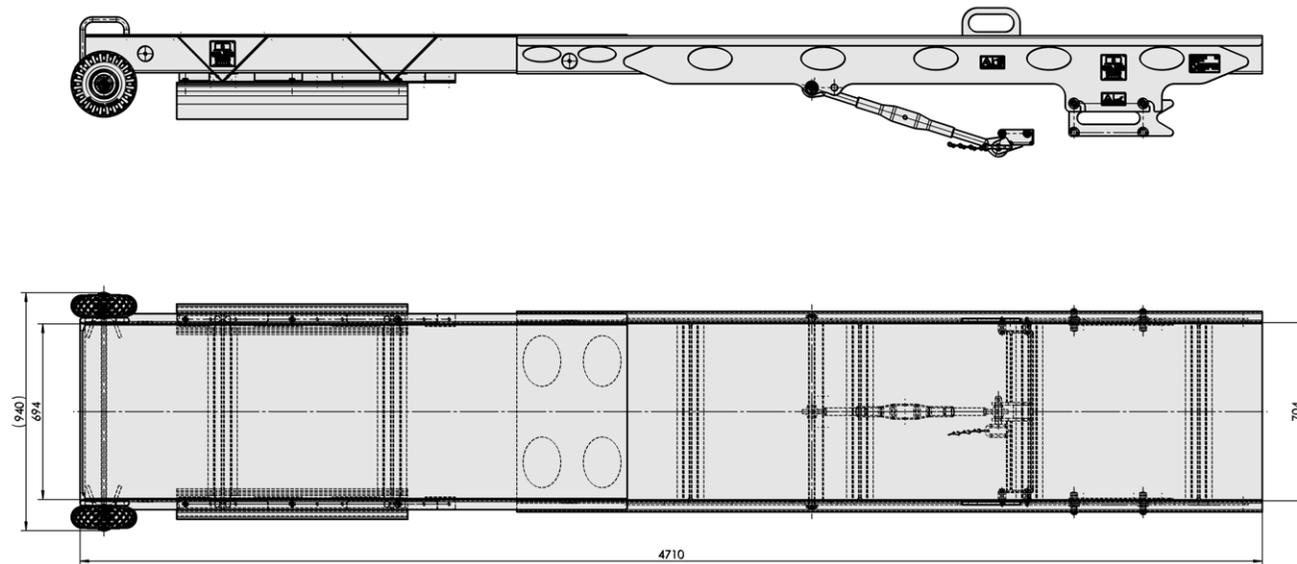
With the ULS 3500 conveyor extension, the range of applications of the Orbiter conveyor belt vehicle is significantly extended by means of a low-cost solution; common aircraft types up to the B747 can be handled with it.

Unloading general cargo from the passenger deck becomes more efficient and safer. In the process, the packages or pieces of luggage are continuously conveyed downwards by the conveyor belt for further loading.

- Increase of the handling height
- Safe unloading of the main deck
- Easy retrofitting option

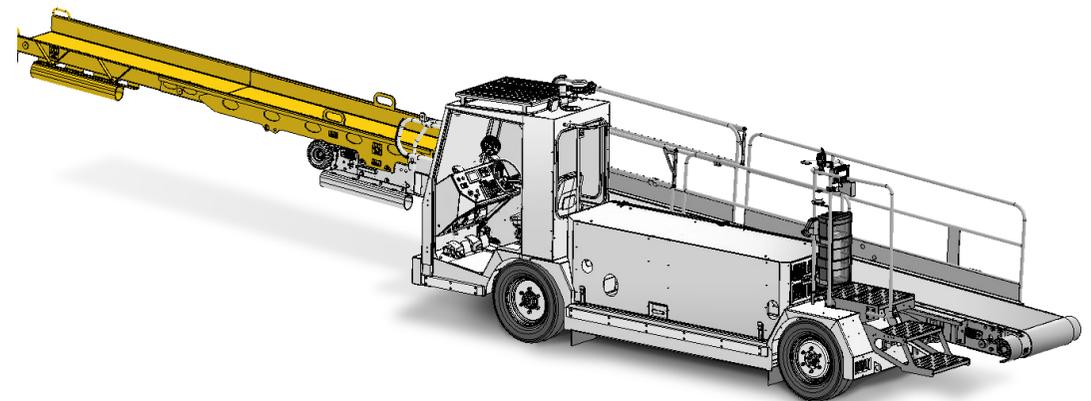
ULS 3500

Loading table for Orbiter series



Technical data loading table

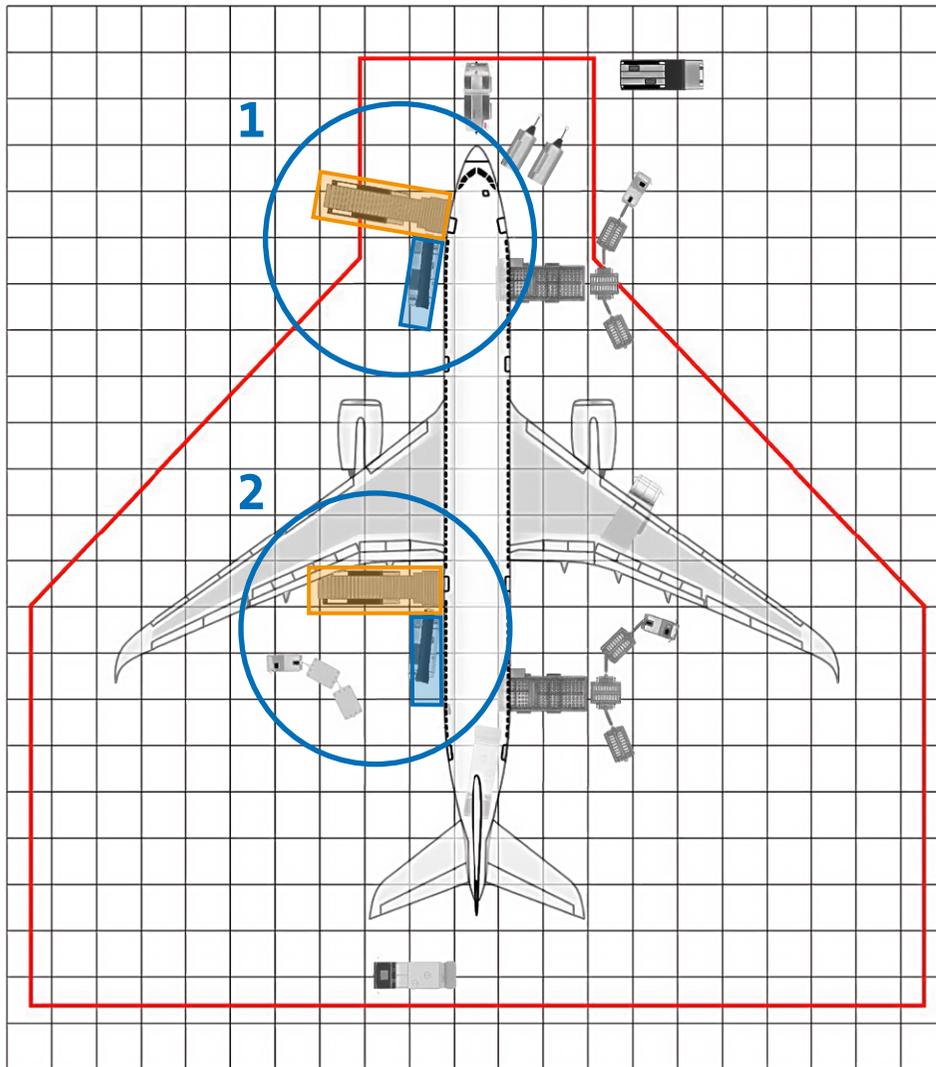
Dimensions	Loading table length	approx. 4.700 mm
	Useable length	approx. 3.500 mm
	Usable loading table width	approx. 700 mm
	Weight	approx. 130 kg
Miscellaneous	Weight of the load (<i>max.</i>)	30 kg
	Surface load (<i>max.</i>)	50 kg/m



Attachment of the ULS 3500 loading table to an Orbiter conveyor belt vehicle

Which Orbiter types can be equipped?

The loading table can be directly attached to all Orbiter conveyor belt vehicles as of year of construction 2017 with a quick-change device. The attachment to older vehicles must be checked by MULAG in advance, but is possible in principle. Our sales team will be glad to assist you with the implementation of your requirements.



■ = Passenger stairway ■ = Orbiter conveyor belt vehicle with attached loading table

Unloading options

For unloading the main deck, the flexible unloading concept, consisting of passenger stairs and an extended conveyor belt vehicle, can be used at all passenger doors of an aircraft that are not located near or above a wing.

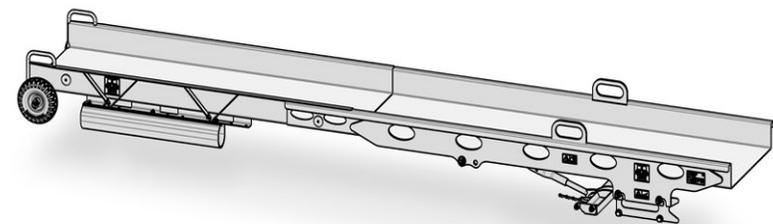
The positioning of the passenger stairs at the respective door of the aircraft and the side docking of the MULAG Orbiter with attached loading table follows the usual apron routines.

Now general cargo can be fed from the main deck via the loading table to the conveyor belt for unloading.

Handling height

Adding the ULS 3500 loading table to reach the passenger deck results in the following increase in handling heights for the upper belt end (at the respective position of the rear belt end):

	Orbiter 7.5	Orbiter 9
end of belt is at its lowest point	4,75 m	5,25 m
End of belt max. lifted	5,44 m	5,88 m



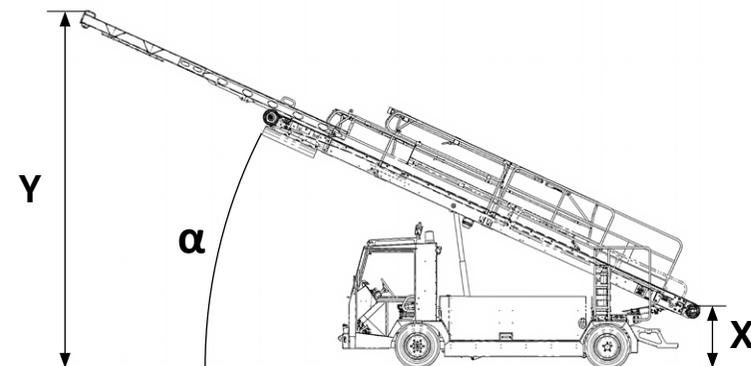
Loading table ULS 3500 - attachment in robust metal construction

Aircraft types approved for unloading*

Manufacturer	Type	Bulkdoor Y Height [m]	Maindeck Y Height [m]	Belt end X Height [m]
Airbus	A220	1,80	3,20	0,46
	A300	3,10	5,38	0,46
	A310	3,18	4,55	0,46
	A318	2,31	3,44	0,46
	A319	2,25	3,45	0,46
	A320	2,51	3,45	0,46
	A321	2,50	3,46	0,46
	A330	3,66	4,86	0,46
	A340	3,63	4,86	0,46
	A350	3,26	5,22	0,46
A380	3,12	5,16	0,46	
ATR	ATR 42	1,46	1,33	0,46
	ATR 72	X	1,33	0,46
Avro (Bae)	Avro RJ	1,02	1,88	0,46
Boeing	B707	1,83	3,20	0,46
	B727	1,83	3,30	0,46
	B737	1,80	2,77	0,46
	B747	3,45	5,41	0,46
	B757	2,77	4,01	0,46
	B767	3,33	4,36	0,46
	B777	3,76	5,13	0,79
	B787	3,00	4,72	0,46
Canadair (Bombardier)	CRJ Series	1,60	1,73	0,46
	Q Series	1,57	1,58	0,46
Embraer	Embraer 170-175	2,08	2,68	0,46
	Embraer 190-195	2,08	2,74	0,46
	Embraer ERJ	1,80	1,56	0,46

Manufacturer	Type	Bulkdoor Y Height [m]	Maindeck Y Height [m]	Belt end X Height [m]
Fokker	Fokker 70 (F28 Mk 0070)	1,80	2,44	0,46
	Fokker 100 (F28 Mk 0100)	1,65	2,40	0,46
Iljuschin	IL-62	2,34	X	0,46
	IL-76T	1,22	2,19	0,46
	IL-96	2,58	X	0,46
McDonnell Douglas (Boeing)	DC10	3,05	5,05	0,46
	MD-11	3,12	5,21	0,46
	MD-80 Series	1,70	2,40	0,46
Saab	SAAB SF-340	1,63	1,64	0,46
Suchoi (Sukhoi)	Superjet SSJ	1,68	X	0,46
Tupolev	TU-154	1,84	X	0,46
	TU-204	2,83	4,08	0,46
	TU-214	2,83	X	0,46

* valid for Orbiter 7.5 D/E/FC and Orbiter 9 D/E



$\alpha = \max. 22^\circ$ (DIN EN 12312-3) | $\alpha = \max. 24^\circ$ (IATA - AHM)



Loading table ULS 3500

The ULS 3500 is a conveyor extension for more efficient unloading of general cargo from the main deck of aircraft.

The packages or pieces of luggage are fed to the conveyor belt via the loading table and can then be safely conveyed downwards at a continuous speed.

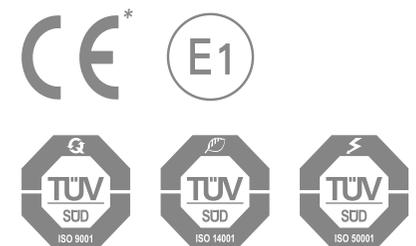
- Increase of the handling height
- Safe unloading of general cargo
- Easy to attach and use

MULAG

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