



Automated production solutions for tube processing

From the stored tube to the sorted part

Your advantages at a glance

- 01 Less operator involvement**
The unloading automation increases the degree of automation and of machine utilization and reduces the operator involvement.
- 02 Low space requirement & optimum accessibility**
The footprint of the unloading automation is small. It is attached longitudinally to the TruLaser Tube. Unload your machine automatically or manually.
- 03 Fewer errors**
Automated unloading prevents errors and increases machine utilization.
- 04 Automatic loading**
The machine is automatically loaded from a STOPA tube storage system.
- 05 Precise removal**
The automation removes a defined number of tubes from the storage.
- 06 Simplified material flow**
Load your laser tube-cutting machine fully automatically and unattended.

» Loading automation

Flexibility meets productivity with the TruLaser Tube. Thanks to the loading automation, a direct connection to a tube storage system is now also possible. Tubes are automatically transported from a STOPA tube store to the conveyor unit using a tilt-and-lift station. There they are removed, separated and loaded by the LoadMaster Tube. A swivel-mounted conveyor system offers additional flexibility for semi-automatic loading of semi-finished products without storing the tubes.

Your advantages:

- ✓ Fully automatic and unattended loading
- ✓ Reliable handling of round, square and rectangular tubes
- ✓ Safe, efficient and simple material flow
- ✓ Use of proven STOPA small/large storage systems
- ✓ Fast material changeover for smaller batch sizes

Technical data			
STOPA storage system		Compact store	Large-scale store
Storage length	mm	6400	8050
Loadable tube length	mm	2450 to 5400	2700 to 8050
Max. load capacity per storage location	kg	3000	4000
Cassette loading height	mm	300, 375 or 450	
Cassette width inside	mm	840	
Number of cassettes		Customer-specific depending on bearing type and configuration	
System height	mm	5100 to 7500	
Station connection		Front and longitudinal sides possible	
Swivel-mounted conveyor system		Optional	
Material stock management and store management program		At least Oseon Grow	

» Unloading automation

To increase the level of automation and reduce the workload of operators, a customized and individually adaptable automation solution can be connected using the unloading automation interface with a longitudinal conveyor belt. The example system with our Solution Partner Starmatik is flexible and productive. Thanks to the automatic gripper change, the robot can set up tools for different parts. It also enables automated sorting and palletizing.

Your advantages:

- ✓ Defined transfer of the cut parts in an independent safety area
- ✓ Increase in productivity
- ✓ Integration of further process steps possible
- ✓ Manual operation of the TruLaser Tube, like with a stand-alone system, is still possible

Technical data		
Dimensions	mm	6350 x 6450
FANUC robot		M710iC – 45M
Robot load capacity	kg	45
Robot range	mm	2606
Max. tube width	mm	80
Max. Part length	mm	2000
Max. Part weight	kg	16
Unloading positions		4 (Equipped with manually or automatically opening gate)
Gripper change		Automatic
Integrated programming system		■
Job list management		■
Low energy consumption		■



Further information can be found here:
www.trumpf.com/s/96aphg

