



Loading Systems

Top Loading Systems

Bottom Loading Systems

Folding Stairways

Know how & consulting directly from manufacturer with decades of experience

That's why you choose...



Radial gaskets

Allow a maximum of feasible sealing materials and longer lifetime compared to axial gaskets

DUPLEX, SUPERDUPLEX, HASTELLOY, ALUMINIUM...

We machine all compatible materials

ASME, NACE, NORSOK, DIN...

We manufacture according to all required guidelines and directives

- Customized connections
- IGATEC Swivel Joints

Made of carbon steel (e.g. St52-3, ...) are nitrided to reach maximized hardness of surface and optimized corrosion protection at the same time

Certifications

TA-Luft VdS ISO 9001:2008

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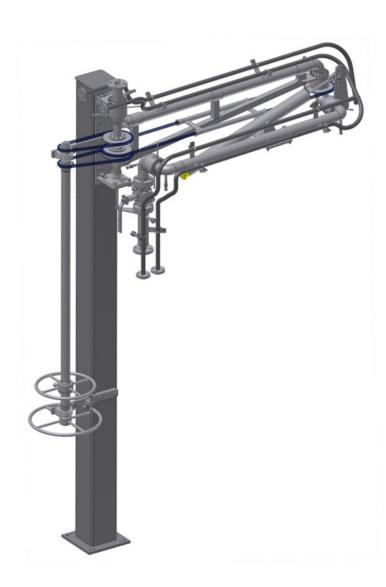
IGATEC Top Loading Systems are used for the safe and fast loading and unloading of railcars, road tankers, sedimentation tanks, trailers and any other suitable tanks from above.

Providing an appropriate choice of materials and components the loading of almost every liquid and gaseous fluid (mostly from chemical or petrochemical industry) is feasible.

IGATEC Top Loading Systems are characterized by a wide working range and high flexibility. Accurate positioning of vehicles is not necessary. Vehicles with different heights can be served by the same loading arm.

Top Loading Systems are normally operated from an operator platform. Folding stairs allow safe walking on vehicles.

The loading arms are connected to a pillar or beam (or similar) which is designed for that.





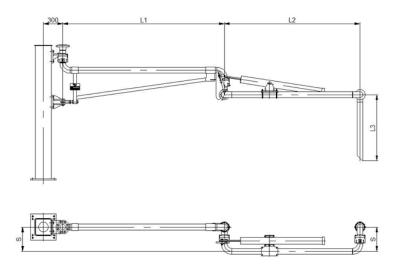




After loading procedure the loading arms can be fixed in idle position by a safety notch. The easy use of **IGATEC Loading Systems** is guaranteed by integrated weight balancing systems. The operating stuff is able to move and position the system with very small effort.

The connecting interface of the loading arm to the vehicles to be filled depends on the needed requirements for vehicle and products to be loaded.

The configuration of **IGATEC Top Loading Systems** is always according to customers' demands.



Top Loading Systems



Dimensions:

Nominal diameter	DN25 / 1" bis DN150 / 6"
Working pressure	Vacuum up to 40 bar / 580 psi
Working temperature	-60°C up to 250°C / -76°F up to 482°F
Material	 Standard (1.4571, 25CrMo4) Stainless steel C-steel Low temp. steel PTFE
Control system	Manually Pneumatically Hydraulically Electrically
Control functions	 Lift / sink Pressing Telescopic pipe up / down Bottom contact Gate valve open / closed ⇒ Electrically ⇒ Pneumatically Pivoting L1 right / left Pivoting L2 right / left Automatically, SPS
Weight balance	Without auxiliary energy ⇒ Balance weight ⇒ Spring cylinder ⇒ Pneumatic cylinder ⇒ Gashydraulic torque compensation Auxiliary energy operated ⇒ Pneumatic cylinder ⇒ Hydraulic cylinder
	 ⇒ Electrically operated Combined weight balancing with / without auxiliary energy Special accessories: manually operated fixing unit
Gate valves	Manually operatedPneumatically operatedElectrically operated
Overfill protection	 Vibration principle (liquiphant) Pneumatically (blubber) Capacitive sensor Height adjustable

By combining different dimensions (see table left) **IGATEC Top Loading Systems** can be configured for nearly every liquid and gaseous fluid.

Furthermore optional features (see table below) can be added to the loading system.

Optional Features:

Vapor return line	Vapor return armVapor return hoseParallel arm
PTFE-lining	
Type of heating	 100% double jacket, incl. swivel joints Double jacket, tubes and elbows only Double jacket, tubes only Electrically
Heating fluids	Hot waterSteamThermal oil
Piggable	
Drop pipe	 Flanged connection 45°- drop pipe spout Y-deflector T-deflector Special accessoires ⇒ Telescopic pipe ⇒ Drop pipe with internal valve
	⇒ Sieve⇒ Dry coupling
Dome interface (Anschluss an das Transportmittel)	ClampCover plateCoated coneInflatable sealing cushion

Special accessoires	"Deadman" controlVacuum breaker
	Earthing control system
	Dry coupling





TOP SPOT® and **New On Spot Loading Systems** represent cutting edge technology of fully automated loading arms.

TOP SPOT® Loading Arms combine the properties of the wellknown

- On Spot (high loading performance) with
- Top Loading (high flexibility, mobility and working range)

to a maximum functional device.

This new loading technology is patented by **IGATEC** and has been successfully launched in Russia.

TOP SPOT® Loading Systems are designed for high loading capacities (10.000.000 t/year) into railcars. Railcar loading is operating fully automated.

Furthermore our equipment is designed for extreme environments and weather conditions. Particularly the Russian Federation requires equipment designed for deepest temperatures down to minus 55°C.









TOP SPOT[®] and **New On Spot Loading Systems** represent cutting edge technology of fully automated loading arms.

Our fully automated **New On Spot Loading System** is the result of the advancement of regular hydraulically On Spot systems.

New On Spot Loading Systems are designed for high loading capacities (10.000.000 t/year) into railcars. Railcar loading is operated fully automated.





Furthermore our equipment is designed for extreme environments and weather conditions. Particularly the Russian Federation requires equipment designed for deepest temperatures down to minus 55°C.