



TERRA LAND LOADER PROGRAM



THE SVT TERRA LAND LOADER PROGRAM – RELIABLE LOADING AND UNLOADING OF RAIL AND ROAD TANKERS



Planning Documents:

All planning documents are available
on the web site: www.svt-gmbh.com



TERRA-Komplex

The top land loaders from the TERRA-Komplex production series are suited for open and closed loading and unloading of road and rail tankers. A considerable modular construction set of system components supplements this series.

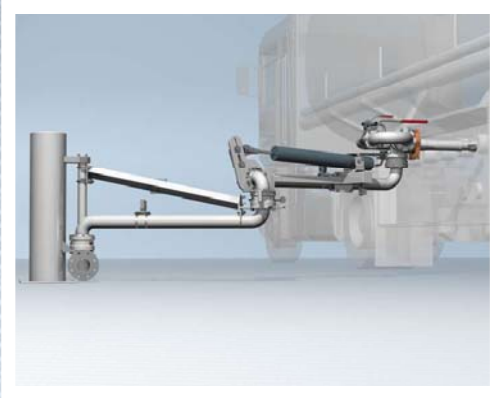
TERRA-Duplex

TERRA-Duplex is a special series of the TERRA-Komplex construction series. It distinguishes itself in that vapor return is achieved by a pipe with swivel joints. The arrangement is such that cone seats, counterweights, etc. can be used in combination.



Special Features of the SVT TERRA Land Loader Program:

- Safe and efficient top and bottom loading of various kinds of liquid and gaseous products, regardless of whether they are poisonous, aggressive, or explosive
- Temperature range from -196°C to $+250^{\circ}\text{C}$
- Nominal bore from 2" to 10"
- Operating pressure up to 50 bar
- Wetted parts are made of carbon, stainless steel, low temperature steel, or are PTFE lined
- Single or twin raceway SVT ROTAFLEX Swivel Joints flanged on both sides with double dynamic sealings and stainless sealing faces
- Different sealing materials such as FPM, PTFE, CSM, EPDM, PE
- Second line for vapor return pressure, release, or purge line
- Broad range of safety equipment
- Explosion protected versions
- Complete process integration by means of corresponding control panels and sensors
- Large range of accessories
- Loading platforms, folding stairs, and safety cages complement the SVT TERRA Land Loader Program



TERRA-Max

The bottom loading arms from the TERRA-Max production series have been designed for loading and unloading of road and rail tankers with lateral or rear connections. This series also has a considerable modular construction set of system components.

TERRA Loading Stations

Special production series of platforms, folding stairs, safety cages, and fall protection complement the TERRA loading arm series, making it a whole modular system set.



System Elements of the SVT TERRA Land Loader Program:

- Balanced by counterweight or spring-actuated cylinder
- Pneumatic or hydraulic operation of the loading arm
- Different connectors and couplers
- Suction cones in various designs and materials
- Fixed or telescope drop pipes in various designs
- Emergency release couplers
- Safety components such as overfill cutoff and flange safety devices
- Different heating and lining options
- Customized valves, control panels, and connectors according to the transfer process requirements
- Process sensors for controlling, feedback, and signaling
- Loading platforms with or without an intermediate staircase
- Folding stairs and safety cages in different sizes and versions



SVT TERRA LAND LOADER PROGRAM

The SVT TERRA Land Loader Program is especially designed for safe and efficient loading and unloading of rail and road tankers. The program includes complete series of top and bottom loading arms which, together with their system elements and their accessories, can be adapted to virtually every one of our clients' requirements. Platforms, folding stairs, and safety cages, etc. are also available, complementing the loading arm series – turning it, in fact, into a complete loading station.

SVT TERRA Loading Arms of the program are used for the transfer of liquid and gaseous products such as aluminum alkyls, chlorine, acids, alkalis, and liquid gas including LNG or bitumen and sulfur. With nominal bores from 2" to 10", the range of temperature is from -196°C to $+250^{\circ}\text{C}$. The operating pressure can be up to 50 bars. Different materials of the arms and different sealing materials allow for perfect adaptation to various kinds of products to be transferred and to different operating conditions. If necessary, all TERRA Loading Arms can be equipped with lining, internal, and jacket heating.

A special feature of the loading arms is the single or twin raceway SVT ROTAFLEX Swivel Joints that are flanged on both sides. They

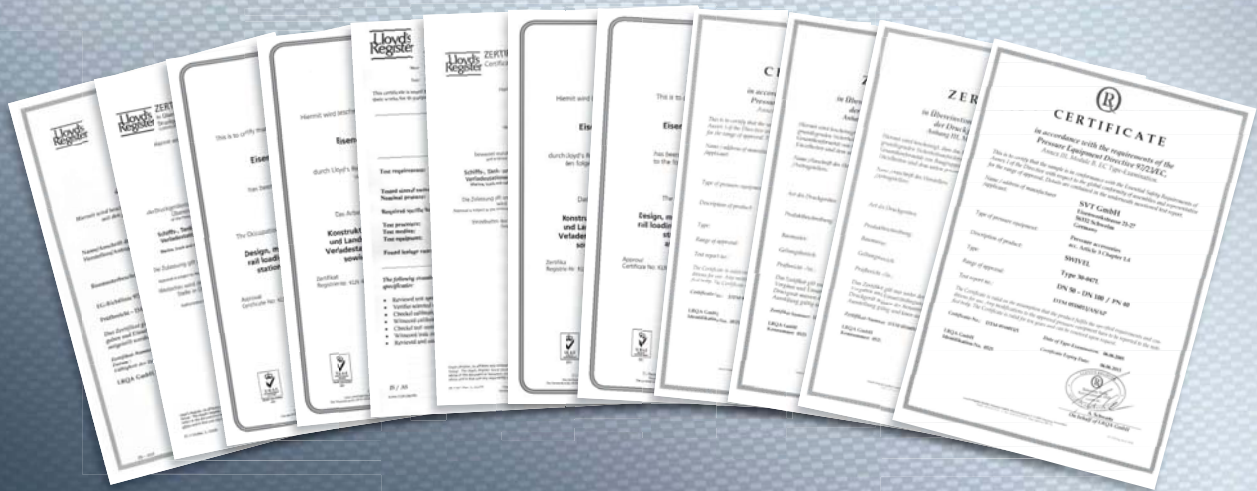
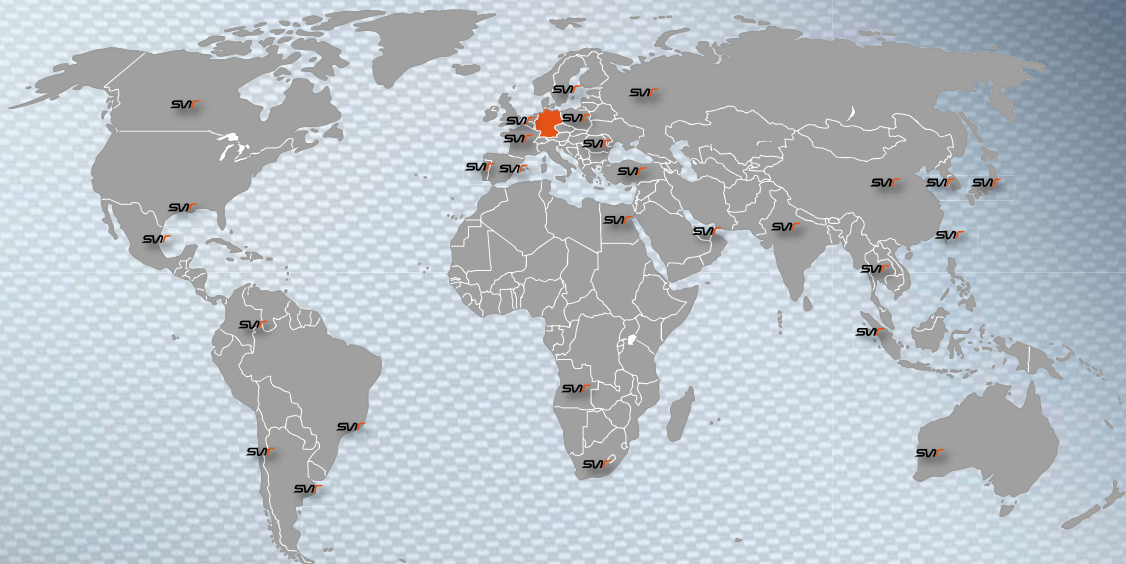
are characterized by their ability to withstand enormous stress and also have proof-test certificates. Because of the long-lasting lubrication, Swivel Joints practically don't need maintenance. They run smoothly throughout their entire product lives, even when continuously moving.

In every position, all TERRA Loading Arms are fully balanced and can be operated pneumatically as well as hydraulically. Within the defined range, the individual arm lengths can be freely selected. They will be adjusted according to the clients' requirements.

Because of second product and/or purge lines, valves, control panels, and their corresponding drives, the Loading Arms fit perfectly with the client's system.

Emergency release couplers including the control of the working range but also flanging and an overfill safety cutoff ensure the highest possible safety.

The wide range of applications and the optimal adaptation of the loading arms make the SVT TERRA Land Loader Program your first choice when facing difficult and complex tasks.



As a member of the GESCO group, SVT GmbH is one of the leading global manufacturers of loading equipment for liquid and gaseous products. SVT has more than 40 years of experience in the design, construction, and production of loading arms. Worldwide installations of loading systems also add to SVT's reputation as a reliable and innovative partner for its clients.

Still today, SVT manufactures and assembles all of its key components exclusively in Germany. Swivel Joints, Emergency Release Couplers, Control Systems, Quick Connect/Disconnect Couplers, among others, are developed, produced, and tested by SVT. This is German engineering at its best. More than 180 loading arms sold to a single customer is convincing proof of our strong belief in quality.

Regional salespeople as well as the right international contact ensure excellent service and extremely rapid response times. A team of highly qualified technicians and engineers set up, test and maintain all of SVT's installations.

Furthermore, SVT is the only company worldwide that is in possession of the technical drawings and know-how of the former Wiese GmbH and Connex GmbH.