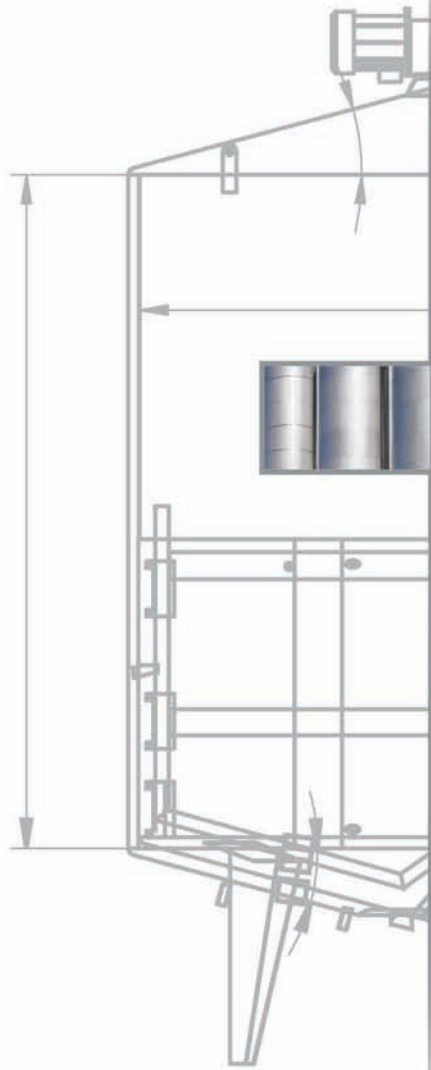


# MGT FOOD DIVISION

## D A I R Y





## OVERVIEW

### Dairy

MGT has more than 40 years of experience in manufacturing stainless steel tanks for milk and dairy processing. We supply custom-made vessels for all milk processing stages (both for farms and for dairies), including milk coolers, road tankers, storage silos up to 250 m<sup>3</sup>, aseptic and fermentation tanks, yogurt & cream tanks, and CIP tanks. Our stainless steel tanks and vessels can be supplied complete with fully welded insulation and cladding, dimple/half pipe cooling jackets and integrated agitators, etc. All stainless steel dairy silos and vessels are finished to food grade finish in accordance with the 3A standard, and supplied to customers with relevant certifications, such as TUV or CE on demand.

### Food division

MGT Liquid and Process Systems specializes in engineering and manufacturing custom-made, innovative stainless steel process solutions for the food industry. We offer advanced solutions encompassing design, manufacture, transport and installation to clients worldwide. MGT process vessels are manufactured in AISI 304L or AISI 316L 2B finish Stainless Steel.

MGT designs and manufactures a wide range of stainless steel processing vessels and agitators covering all aspects of liquid food processing, adapted to specific industry requirements.

Our comprehensive product range includes stainless steel silos, aseptic and fermentation tanks, mixing, ageing and CIP tanks, processing vessels and other, various dedicated solutions for the food industry, as well as stainless steel agitators to suit every process requirement.

### MGT

MGT offers a one-stop shop for all your requirements of stainless steel tanks, vessels and agitators. Our wide range of products combined with our extensive engineering

capabilities and streamlined state of the art manufacturing process, allow us to meet any requirement, and provide a seamlessly integrated solution.

MGT offers its customers a complete services package under one roof: analysis, consultation, design, manufacturing, transportation, installation, testing and commissioning, which are adapted to your specific processing requirements, resulting in a cost effective solution.

### Technology

MGT operates a manufacturing plant covering over 11,000 m<sup>2</sup>, equipped with the latest engineering & manufacturing technologies. By utilizing state of the art advanced manufacturing procedures including automated welding and polishing machines, MGT has built a reputation for consistent excellence in design and manufacturing whilst maintaining strict quality controls.

Each MGT tank, vessel and agitator meets the most stringent international standards

- ISO:9001
- ISO:14001
- CE Code Stamp on request
- TUV NORD on request
- Pressure vessels are built according to ASME Standard, Section VIII, Division 1 and approved by The Israeli Standards Institute
- Israeli Research Institution (The Technion): Inspection manufacture of tankers

### Punctual delivery, anywhere in the world

#### You say where, we deliver!

MGT delivers its process solutions worldwide, complete with testing, commissioning and after sales service. Our ability to promptly adapt to customer requirements, coupled with our streamlined design and manufacturing, allows us to meet tight schedules and guarantee punctual delivery.

# S I L O S



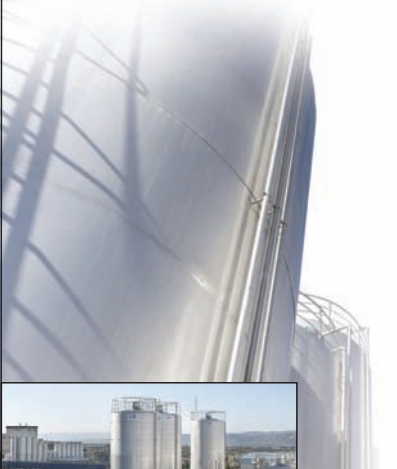
MGT group designs and manufactures a range of stainless steel silos with volumes up to 250m<sup>3</sup> volume with insulation and exterior cladding according to specific requirements.

Silos can be supplied complete with fully welded Stainless Steel or Plastisol exterior cladding, insulation and dimple or half pipe cooling jackets.

All stainless steel dairy silos are finished to food grade finish in accordance with the 3A standard.

Options available with dairy silos:

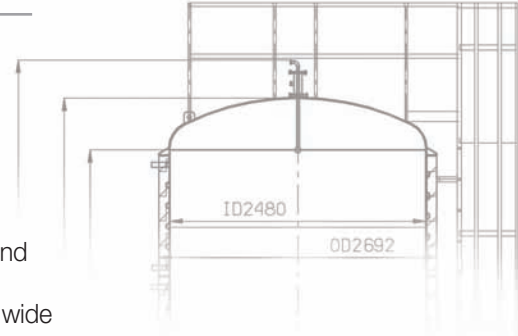
- Double Jacket in dimple or half pipe
- Insulation with Mineral Wool or Polyurethane
- Conical bottom or side-sloping bottom
- Side or top mounted agitator
- Volumes available up to 250,000 liters
- Exterior finish in Stainless Steel or Plastisol cladding



## ASEPTIC TANKS



MGT designs and manufactures aseptic pressure and vacuum tanks in a wide range of specifications. Aseptic tanks are built according to ASME pressure vessels standards, and supplied to customers with relevant certifications, such as TUV or CE on demand. The tanks are designed to withstand cleaning procedures of up to 150°C and subsequently to cool gradually to operating conditions. Automated surface polishing systems are utilized in the production process. Aseptic vessels are chilled using half coil jacket and insulated using mineral wool.



## CIP TANKS

MGT CIP systems incorporate our accumulated knowledge gained in over 40 years of designing and manufacturing tanks and vessels for the dairy and food industry. Cleaning in Place systems are used effectively for the cleaning of process equipment with the minimal dismantling and operator involvement, resulting in an efficient and user friendly system. All MGT CIP tanks are made of either

304L or 316L Stainless Steel and can be insulated to suit the particular requirements of each client.





## YOGHURT & CREAM



Yoghurt and cream tanks have unique specifications.

With our vast experience in the dairy processing industries, MGT can offer its clients a variety of solutions to meet their yoghurt and cream processing requirements.

Yoghurt and cream tanks are commonly manufactured with conical heads and bottoms, and cooled using dimple jackets on vessel shell and bottom cone. The tanks are then usually insulated on the shell and bottom cone to maintain optimum operating and processing temperatures.

Mixing of yoghurt and cream is a critical part of the processing path and MGT excels in the design and manufacture of various agitators to suit the individual processing requirement. Typical agitators are UZ and Gate type agitators, which ensure a gentle agitation of the contents.



## BULK MILK COOLERS

MGT has been manufacturing bulk milk cooling tanks for over 40 years. Optimally designed for rapid cooling of milk in accordance with international standards, MGT milk coolers are available in volumes of 2,000ltrs - 40,000ltrs with internal and external polish to 3A standard. All MGT milk coolers are

manufactured using CFC free Polyurethane insulation and have agitators installed to ensure a slow and even mix of the milk. The tanks are fitted with condensing units, automatic washing systems and control panel to ensure optimal cooling and storage of the milk.



## MIXERS AND AGITATORS

MGT designs and manufactures a comprehensive range of stainless steel agitators to suit every process requirement of the dairy industry.

The design of every MGT agitator is based on 40 years of production experience, utilizing our state-of-the-art mixing design software.

We offer the flexibility of manufacturing units to meet all individual requirements.

MGT dairy processing tanks can be delivered with various agitator types:

- Marine type propeller
- Paddle type
- UZ
- Gate type
- Anchor with optional Teflon scrapers
- Pitched Blade type

### Benefits of MGT's complete vessel & agitator solutions:

- 40 years experience in the design and manufacture of dairy processing vessels & agitators
- Integrated design and manufacturing program
- Integrated testing plan and procedure
- Single source for processing equipment
- Economical advantage of purchasing from one supplier
- Consolidated shipping



# TANKERS

MGT is a leading producer of insulated, hygienic stainless steel road tankers for the transport of bulk milk and other liquid foodstuffs such as wine, edible oils, liquid sugar, and mineral water.

Our road tankers are manufactured using AISI 304L Stainless Steel or AISI 316L Stainless Steel with the most advanced

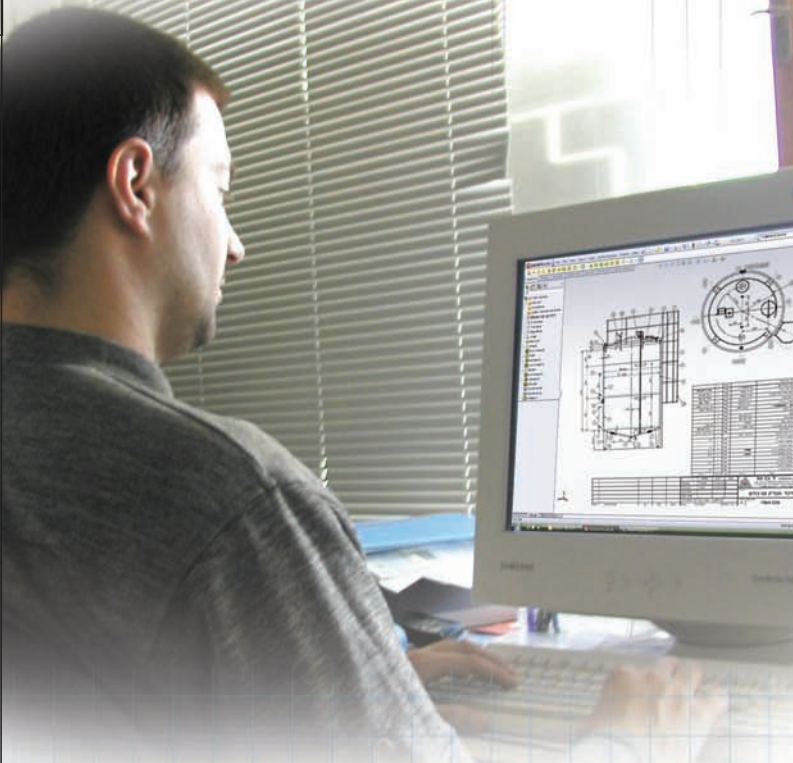
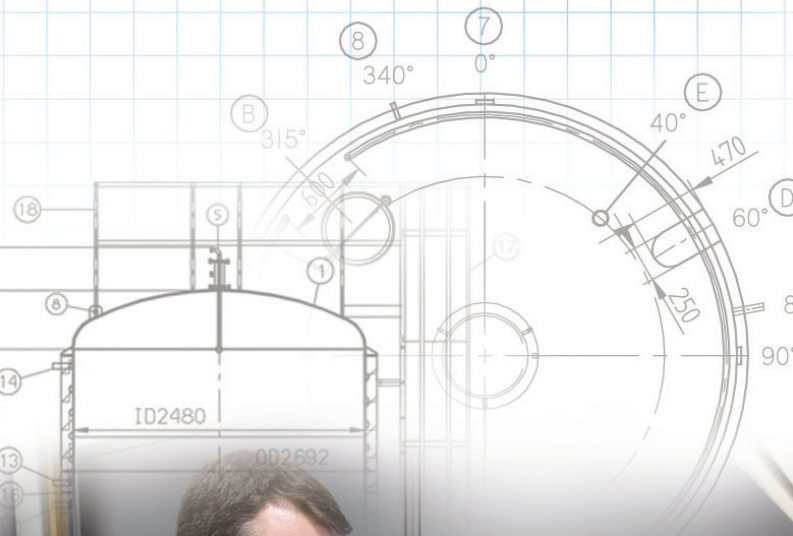
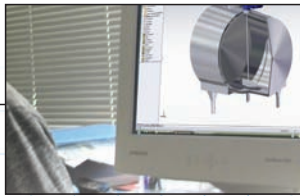
production methods and technology, which ensures a superior long lasting transport solution. Our road tankers are mounted on trucks, semi trailers or full trailer tankers, and conform to the most stringent international transport standards and qualifications.



# ENGINEERING

MGT engineering department is a state of the art facility utilizing the latest 3D CAD drawing and computational software, which gives us the ability to offer our clients a comprehensive solution, tailored to their processing requirements.

Working closely with our clients, MGT's highly trained team of design engineers, are ideally qualified to offer a complete range of technical solutions to suit every requirement.



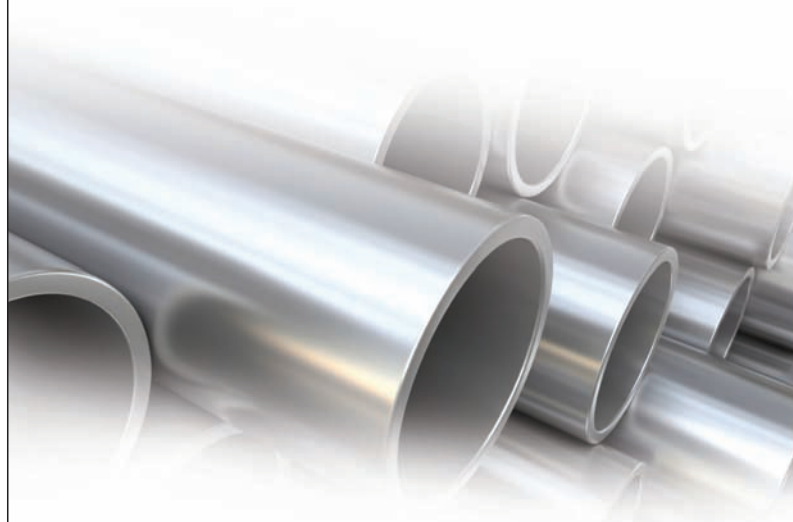
## STAINLESS STEEL PIPES & FITTINGS

Following our one-stop shop philosophy, MGT supplies a comprehensive range of high quality sanitary stainless steel Tubes, Fittings and Valves, which complete our engineering and manufacturing services.

We offer competitive solutions for the following:

- AISI 304L/AISI316L stainless steel welded Dairy Tubes according to ASTM A-270 and DIN11850
- RJT, SMS, DIN, 3A fittings (unions, bends, equal "T", TC, reducers, pipe clips)
- Ornamental stainless steel Tube A554 polished G400
- Hollow sections in stainless steel - Rectangular and Square Tubes
- Butterfly valves
- Ball valves (1 pc / 2 pc/ 3 pc)

- Check valves, Sight glass
- ANSI B16.5 A-182 (ASA #150) and DIN/EN (PN10, 16/DIN16) Flanges
- Tank manways, vents, sample valves, breathing valve vacuum / pressure relief valves
- CIP Spray balls
- Advanced stainless steel draining systems and gullies solutions





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