

## FOR ROAD TANKERS RANGE

- Pumping-metering units
- Double pumping-metering units for two different products
  - modular design
  - $Q= 100 \div 1000 \text{ dm}^3/\text{min}$
  - electronic or mechanical register
  - volume measurement:
    - wet hose,
    - dry hose
    - wet+dry hose
    - @15°C or at ambient temp.
    - delivery preset
  - pump drive: hydraulic or PTO
  - delivery hose up to 40 m (optionally more)
  - hose reel drive: pneumatic or hydraulic
  - self-filling - option
- Gravity-fed metering unit
  - $Q= 1000 \text{ dm}^3/\text{min}$
  - electronic or mechanical register
  - volume measurement:
    - method: dry hose
    - @15°C or ambient temperature
    - delivery preset
- Tank trucks equipment:
  - bottom valves
  - vent valves
  - Vapour Recovery System (VRS) elements
  - selector valves
  - filling/emptying couplings
  - pneumatic control system elements
  - optic overfill sensors and sockets
- Service for tank truck equipment, pumping and metering units

### Our equipment is used by:

- fuel distributors
- fuel transport companies
- fuel depots
- armed forces:
  - air force
  - armies
  - navy
- airports
- regional airfields
- air rescue services
- border guards
- police
- general aviation clubs
- air taxis and private aircraft users



**APPC 500/1000HSUDN/1000HEDN**  
Double pumping-metering unit for two different products



**APGC 1000EDN**  
Gravity-fed metering unit

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**Złocieniec**

**Oddział Kraków**



# Flow Technics

We are an engineering company whose business includes design and manufacturing of machinery, installations and equipment for liquid fuel transport, handling and storage. Our particular specialization is equipment for aviation fuels

## FUEL EQUIPMENT:

**FOR AVIATION**

**FOR ROAD TANKERS**

**FOR FUEL DEPOTS**

**DESIGN OF FUEL SYSTEMS**

In our designs we are using components and subassemblies made by renowned european and worldwide companies, such as:



**FOR FUEL DEPOTS RANGE**


**FTMS 2500/750 BL**  
Modular metering installation  
for road tankers bottom filling  
with IN-LINE biofuel blending



**SLZ 1500**  
Modular metering unit  
For tank volume calibration

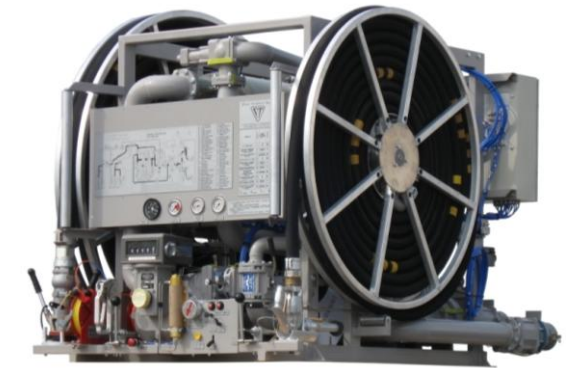


**BMU 750**  
Blending metering unit

- Complete design of a modular (skid) reloading station for fuel depots and reloading terminals
- Metering unit for road and rail tankers filling:
  - modular design
  - traditional design
- Devices for drain bottom outlet on rail tankers
- Loading Arms for road tankers and rail tankers
  - for bottom loading,
  - for top loading,
  - for top loading with VRS,
  - construction material: carbon steel, aluminum, stainless steel
  - spring balanced
- Arms and vapour recovery system (VRS) for road and rail tankers
- Pumping units
- Submersible (in-tanks) pumping units
- Filters, filtering systems
- Equipment for in-line biofuel blending
- Additive dosing units for fuel purification
- Control and monitoring systems:
  - electronics filling control
  - electronic ground control device
  - electronic overfill control device
  - Deadman system (operator's presense control system)
  - alarm system for emergencies during operation
- Fuel tank equipment:
  - flame arrester devices
  - measuring dipsticks
  - floating arms
  - valves
- Reloading hoses
- Mobile devices for metrological control:
  - Master Meter for calibration of stationary or road tanker metering units
  - modular metering units for tank volume calibration
  - metering units for tank volume calibration on trailer
- Special equipment:
  - sliding covers for steel or concrete for equipment recess chambers
  - folding stairs
  - hose cars
- Design of fuel systems and fuel installations
- Spare parts and service

**FOR AVIATION RANGE**

- Aircraft refuelling units for airport tank truck and dispensers
  - capacity: 100 ÷ 3600 dm<sup>3</sup>/min
  - over-wing/under-wing refuelling
  - over-wing/under-wing defuelling
  - self-filling
  - overfill prevention system
  - pump drive hydraulic or PTO
  - operation modes: fully automatic or manual
  - continuous flow rate and delivery pressure control
  - tank level monitors (electronic or mechanical)
  - anti-icing additive in-line dosing: 500 ÷ 2000 ppm
  - Deadman system
  - Interlock system
- Aircraft refuelling units of low height design with housing
  - for use with an underground or remote tank
  - to be installed in open areas usually near aircraft runways
- Containerised Aircraft Refuelling Station:
  - tank volume 5 ÷ 30 m<sup>3</sup>
  - one or two chamber tank (JET + AVGAS)
- Filtration-pumping-metering units for filling of airport tanker
  - modular design
  - traditional design
- Pumping units
- Filters and filtration station
  - coalescer-separator filters
  - monitor filters
  - micro filters
  - filtration cartridges
- „IN-LINE” additive dosing stations
- „IN-LINE” mobile additive dosing units
- Equipment and devices for airport tanker trucks and dispensers
- Floating arms for storage tanks
- Equipment for storage tanks
- Special equipment:
  - sample probe kit and fuel cleaned, contents of water and additive concentration testing kit
- Spare parts and service



**ATS 1500/400**  
Aircraft refuelling units



**KSTS 200/10**  
Containerised Aircraft Refuelling Station



**ATS 200SMBCL**  
Aircraft refuelling unit of low height design  
with housing to be installed in open areas  
near aircraft runways