

tapflo®

# SURFACE TREATMENT SOLUTIONS

edition 2017 rev 1



» All about your flow

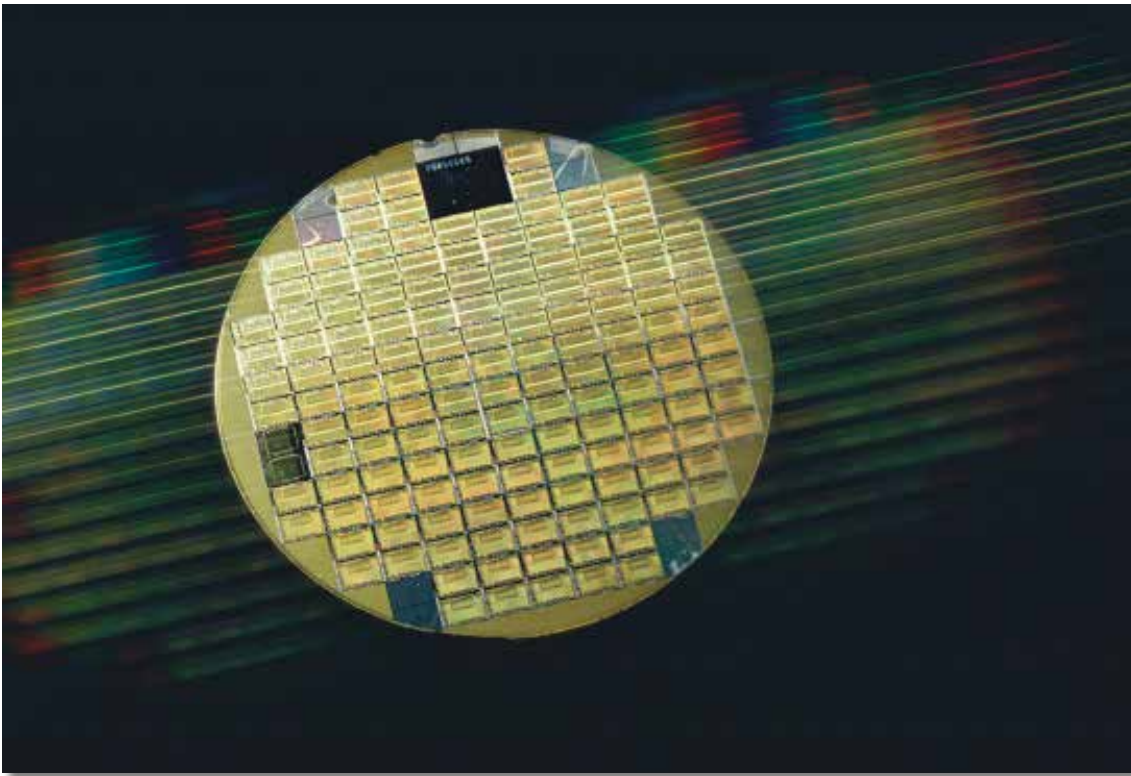
[www.tapflo.com](http://www.tapflo.com)



## We know how to deal with liquids

Tapflo has served the surface treatment industry with pumps since more than 25 years. We have the knowledge of selecting the right pumps and filters for the different applications that are present in today's galvanic industries. We also have the unique advantage of having our own production on almost every type of pump and filter used in the surface treatment industry. With fewer hands between manufacture and end user, the price and availability is a great strength.





## Creating a safe process

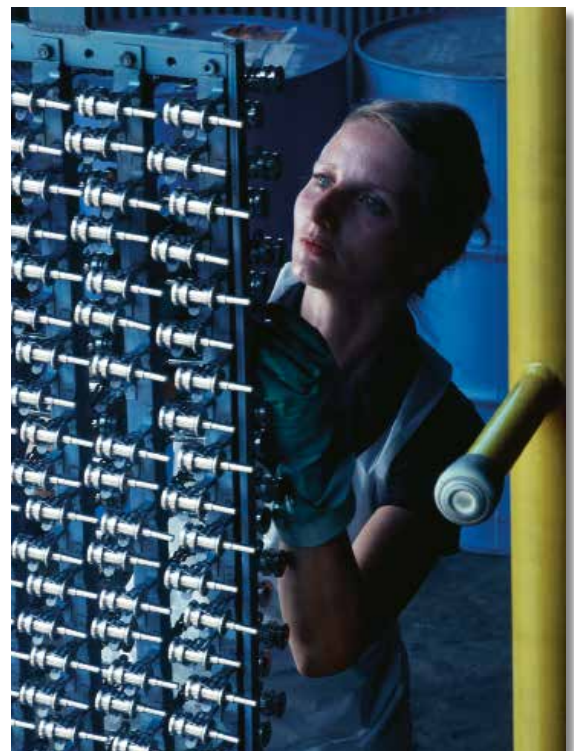
Many hazardous chemicals are used in surface treatment processes. An important issue is to provide a safe environment throughout the process from pre-treatment, surface treatment, after treatment to waste handling. This involves encapsulation and automatization of the process and handling of chemicals. Safe and reliable pumps and filters are important components to create a safe process.

### Process examples

- Electrolytic zinc plating
- Copper, Nickel, Tin, Silver and Gold plating
- Alcalic zinc
- Zinc-iron
- Zinc-nickel
- Hexavalent Chromium-free plating
- Chromates/Passivation
- Acid zinc
- Chemical nickel
- Anodic coating
- Organic coating

### Duties for our pumps & filters

- Degreasing bath
- Pickling bath
- Alkaline bath
- Acid bath
- Electro-plating bath
- Waste from bath
- Drum handling
- Filterpress feeding

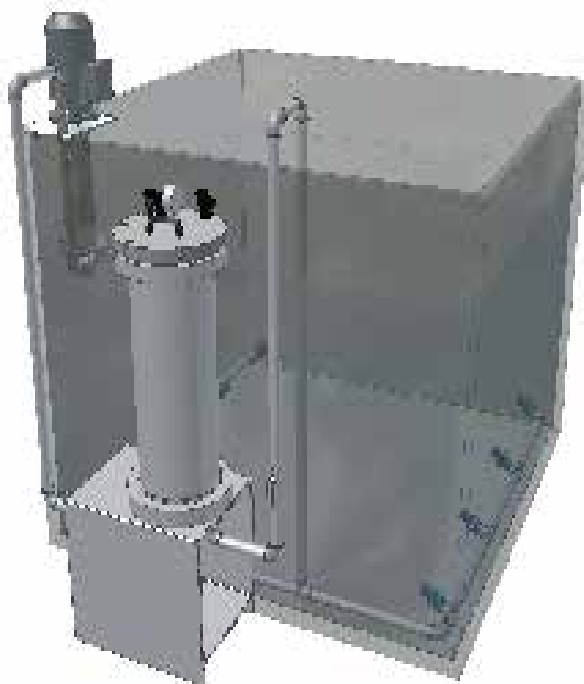




◀ Compact TF filterpress pumps installed for recovering solid waste from water



Filter FT and magdrive pump CTM used ▶ for circulation and filtering of surface treatment bath



**Filtering and agitation**  
Standalone FT filter installed in series with CTV vertical pump and agitation nozzles. The CTV pump is strong and insensitive, making it ideal for installations in pre-treatment baths where particles are present.

## T air operated diaphragm pumps

Versatile pump for transfer and circulation duties of most type of chemicals, sampling, waste and sludge handling.



- ✓ Hermetic and seal less
- ✓ Easy to control capacity and pressure
- ✓ Self priming – flexible installation options

**Flow** 0-800 l/min  
**Pressure** 0-8 bar  
**Materials** PE, PTFE, aluminium, cast iron and stainless steel

## TX ATEX approved diaphragm pumps

Explosion proof version of the T series according to ATEX group II, category 2 for operation in hazardous areas.



- ✓ Explosion safe with no electricity
- ✓ Inexpensive compared with electric pumps

**Flow** 0-400 l/min  
**Pressure** 0-8 bar  
**Materials** PE, PTFE, aluminium, cast iron and stainless steel

## TD diaphragm drum pumps

Handheld pump for dispensing chemicals, degreasing and cleaning agents from drums and IBCs.



- ✓ Quick and convenient dispensing from drums
- ✓ Easy to control capacity and pressure

**Flow** 0-120 l/min  
**Pressure** 0-8 bar  
**Materials** PE, PTFE, aluminium, cast iron and stainless steel

## TF filterpress diaphragm pumps

Compact pump station for waste products to the filter press.



- ✓ Self-regulating flow and pressure  
– no need of expensive control equipment
- ✓ High pressure (max 14 bar)  
– good filter results

**Flow** 0-400 l/min  
**Pressure** 0-14 bar  
**Materials** PE, aluminium, cast iron and stainless steel 316 L

## CT centrifugal pumps

Compact and efficient pump for non-hazardous liquids.



- ✓ Reliable but inexpensive pump for water, oils or mild chemicals
- ✓ Open impeller - insensitive to solids

**Flow** max 42 m<sup>3</sup>/h  
**Pressure** max 47 m  
**Materials** stainless steel 316L

## CTM magdrive centrifugal pumps

Seal less pumps ideal for hazardous fluids, commonly used transfer, filtering and circulation applications.



- ✓ No leakage of dangerous fluids or vapours provides a safe working environment
- ✓ Compact and efficient pumps
- ✓ Reliable but inexpensive

**Flow** max 10 m<sup>3</sup>/h  
**Pressure** max 13 m  
**Materials** PP and PVDF

For detailed product information please contact us or visit [www.tapflo.com](http://www.tapflo.com)

## CTV vertical centrifugal pumps

Seal less pumps for transfer and return pumping in galvanizing, hot zinc, pickling, oxidation processes and sump emptying.



- ✓ No mechanical seal – leakage free and maintenance friendly
- ✓ Insensitive to solids
- ✓ Polished stainless steel version available

**Flow** max 34 m<sup>3</sup>/h  
**Head** max 31 m  
**Materials** PP, PVDF and stainless steel

## FT filters

Cartridge filters with 1, 3 or 7 cartridges and oil absorb filters. Standalone filter units to be combined with CTV vertical pumps or complete compact units with CTM pumps.

**Filter media** Cartridge and oil absorb

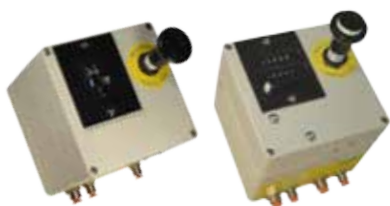
**Material** PP

- ✓ Flexible installations standalone or compact with magdrive pump



## Accessories

### Pneumatic batch control



### Pneumatic level control



### Mobile solutions for pump unit and systems



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