

# HÄNSELER

SWISS PHARMA  
LIQUID SOLUTIONS



Pharmaceutical raw materials and contract manufacturing from Hänseler Swiss Pharma

# LIQUID SOLUTIONS

BY HÄNSELER SWISS PHARMA

**GMP is in our DNA –  
we take your products from idea to market success.**



We support our partners with enthusiasm and Swiss quality throughout the entire value chain, offering you tailor made solutions for your market success. Starting with product development and continuing through sourcing, manufacturing and packaging through to successful market development, we offer fluid processes for solid confidence in the pharmaceutical, cosmetic and food environment.

- **Syrups**
- **Oily solutions**
- **Aqueous solutions**
- **Chemical solutions**
- **Alcoholic solutions (ATEX Directive)**
- **Solvents**
- **Precursors of pharmaceutical solutions**
- **Essential oils / oils**
- **Liquid and thick extracts**
- **Fresh and dried plant tinctures**
- **Reduction of pyrrolizidine alkaloids (PA) in liquids**



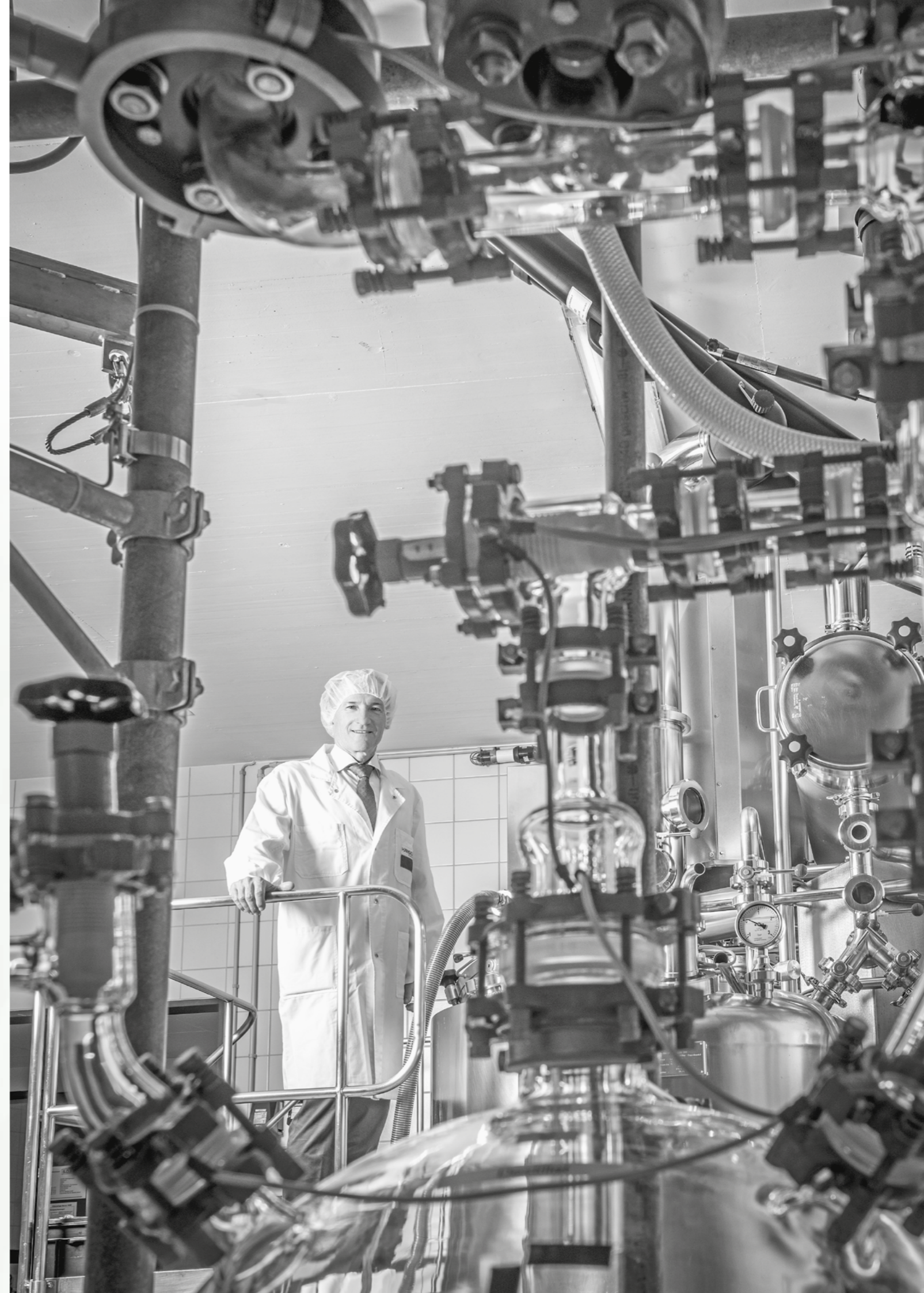
# DEVELOPMENT

YOUR SPECIALISTS FOR RAW MATERIALS  
PROCESSING AND REFINEMENT

We will be happy to support you in the development of...

- plant-based active ingredients (extracts)
- bulk finished pharmaceuticals / dietary supplements through to defining filling in suitable packaging
- appropriate extraction methods for plant-based starting materials
- liquid and thick extracts
- finished mixtures

Refining raw materials  
into Active Pharmaceutical  
Ingredients (APIs), including  
associated documentation,  
is one of our core  
competencies.





# SOURCING OF RAW MATERIALS

OUR EXPERTISE, YOUR SUCCESS



- Sourcing of liquid raw materials at source: **high quality and advantageous prices**
- Raw materials supplied in different **customer-specific qualities**
- Access to **high-quality narcotics** for onward processing into solutions
- **In-depth understanding of raw materials** for different customer requirements
- We also specialise in liquid raw materials subject to **high safety requirements / hazardous substances**

Our wide range of pharmaceutical raw materials, which we either supply as commercial products or produce ourselves, comprises more than 3,000 different products. These include liquid raw materials in the following classes:

- **Essential oils**
- **Narcotics**
- **Liquid chemicals**
- **Ethanols**
- **Solutions**
- **Solvents**
- **Oils / oleochemicals**
- **Acids and alkalis**
- **Various waters**

Minimum purchase volumes vary by raw material. We will be happy to advise you in person and provide an overview of the available liquid raw materials.

« Sourcing raw materials to customer-specific requirements is one of Hänseler Swiss Pharma's core competencies. We can also bring our profound understanding of customers and raw materials to products with high safety requirements. Since Hänseler Swiss Pharma has access to exclusive trade channels, we are able to procure hard-to-obtain raw materials for our discerning customers. »

Dr. Dominik Hauser, Managing Director CEO



# MANUFACTURING

OUR EXPERTISE, YOUR SUCCESS



- **GMP-compliant production** of all widely used chemical (solid) solutions, liquids, APIs, special extracts and syrups
- **Strong manufacturing** competencies in different batch sizes (0.5 to 12,000 litres)
- **Provision of full documentation**
- **Hazardous substances processing**
- **Strong technological expertise**

Hänseler Swiss Pharma's core competencies include liquid raw materials processing as well as sourcing. The expertise we have acquired over many years has **equipped us to respond quickly and flexibly to customer needs**. We are **experts in processing hazardous substances in various container sizes (including small-volume orders)**. Our in-depth understanding of raw materials and access to direct sources make us a stand-out player in **special extracts with medicinal properties**, particularly in the **herbal segment**.

## Chemical solutions (GMP-compliant)



• APIs and excipients

• Hazardous substances (acids, alkalis, petrol, etc.)

• Modified atmosphere filling

• Explosive substances

## Special extracts and tinctures



• Mother tinctures

• Boswellia extract

• Opium tincture

• Capsicum extract

• Henbane extract

• Cannabis extract



## STIRRING AND DISTILLATION SYSTEM BÜCHI



### Technical specification

<b>Capacity</b>	Reaction tank 110 litres
<b>Min. / max. permissible pressure</b>	-1/+0.5 bar
<b>Temperature</b>	max. 200 °C

### Additional features

- Propeller agitator with ATEX spur gear motor
- Reactor temperature sensor integrated into baffle
- Temperature sensor glass vapour extractor
- Pressure measurement probe
- ATEX-compliant

## STIRRING AND DISTILLATION SYSTEM CROMA TECH



### Technical specification

<b>Capacity</b>	Process tank 500 litres (inner tank dia. 1,000 mm, double jacket)
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### Additional features

- Anchor agitator
- Auxiliary agitator
- ATEX-compliant



## AB-2100 BATCH TANK VAKUMIX



### Technical specification

<b>Min. usable capacity</b>	approx. 210 litres
<b>Max. usable capacity</b>	2,100 litres
<b>Max. inner tank pressure</b>	-1/+2 bar
<b>Max. product temperature</b>	132 °C
<b>System</b>	closed

### Homogenising system

<b>Homogeniser size</b>	G2
<b>Speed range</b>	500 – 4,800 rpm

### Additional features

- Submerged suction inlet for powder
- Pressure and vacuum regulation
- CIP system
- SIP system
- ATEX-compliant

## HOMOGENISING TANKS 2× 12,000 LITRES OF FLEXIBILITY



### Technical specification


<b>Min. usable capacity</b>	12,000 litres
<b>Max. inner tank pressure</b>	pressureless
<b>Max. product temperature</b>	80 °C
<b>System</b>	closed
<b>Agitator</b>	Bottom-mounted magnetic agitator
<b>Cleaning process</b>	CIP

### Additional features

- For producing liquid-liquid and solid-liquid mixtures
- Also suitable for flammable liquids
- Can be inerted (without oxygen supply)
- Batch size 12,000 litres
- Automated process control ensures process reliability
- Qualified and validated
- No cross-contamination
- ATEX-compliant

**Our two new 12,000-litre tanks are a state-of-the-art facility with fully automated processes and inertisation. They combine maximum process reliability with an extremely broad range of manufacturing options.**





**«Our Liquid Solutions  
range satisfies  
customers'  
most discerning  
requirements.»**



# PACKAGING

OUR EXPERTISE, YOUR SUCCESS



- **GMP-compliant filling** of all widely used chemical (solid) solutions and hazardous substances
- **Modified atmosphere filling** (nitrogen, argon)
- **Raw materials filling and explosion protection**
- **Customer-specific packaging solutions** in different container types and sizes
- **Single dose filling**

Hänseler Swiss Pharma specialises not only in the sourcing and manufacturing of liquid raw materials, but also in **filling and packaging them in a range of container types and sizes. Finished containers including primary and secondary packaging as well as industrial containers can be prepared to meet customers' individual needs.** In addition to filling supplied liquids or liquids manufactured by Hänseler Swiss Pharma, we also provide **repackaging services under GMP conditions for liquid raw materials.**

## Packaging solutions



200 litres  
plastic or  
steel tighthead  
drums



Glass and  
plastic for  
10 to 1,000 ml



1,000 litres IBCs



Plastic for  
5 to 25 litres



Plastic and  
stainless steel  
for 25 litres plus



FILLING (UDF4020) /  
CLOSING MACHINES (KS1020)  
**BAUSCH UND STRÖBEL**



**Technical specification**

<b>Fill volumes</b>	10 to 1,100 ml
<b>Dosing</b>	four valveless rotary piston pumps
<b>Round containers</b>	16 to 100 mm diameter
<b>Flat containers</b>	min. 16 × 16 mm, max. 120 × 100 mm
<b>Height</b>	min. 35 mm, max. 320 mm
<b>Output</b>	up to 40 items per minute

**Additional features**

- Modified atmosphere (nitrogen) possible for filling and closing process
- Dropper closing combined with screw caps with tamper-evident rings, pilfer-proof caps or dispenser caps
- Front and rear labelling available

VARIO C5 CARTONER  
**WIEDERKEHR VERPACKUNGSMASCHINEN**





# DOCUMENTATION

## OUR EXPERTISE, YOUR SUCCESS

Regulatory and customer requirements are increasing the significance of documentation. We regard documentation both as a quality certificate for our products and as a service to our customers. We therefore provide a range of documentation packages.

### Documentation packages for active pharmaceutical ingredients

#### ASMF (Active Substance Master File) package

CTD Module 3 – Part 3.2 S

#### Technical package

Documentation for CTD Module 3 – Part 3.2 S:

- General information such as nomenclature and structure
- Flow chart preparation
- Stability data
- Sterility testing
- Documentation for starting substances (SDS, other technical documents)

#### Phyto package

Statement for CTD Module 3 – Part 3.2 S:

- Analytical certificate with full supply chain
- Harvest protocol
- Certificate of origin
- Documentation for starting substances (SDS, other technical documents)
- Testing for pesticides, heavy metals and aflatoxins
- Pyrrolizidine alkaloids
- Microbiology
- Flow chart preparation
- Stability testing to customer specifications

### Documentation packages for finished pharmaceuticals

#### CTD Module 3 – Part 3.2 P

Compiling the necessary documentation in accordance with customer instructions.

### Documentation packages for cosmetic products

The package contains all the documents needed to create a PIF.

On request, we can also commission safety reports.

### Documentation package for excipients

The package covers excipient requirements to ICH Q9.







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