



**AARNEX
MACHTECH**

— Private Limited —
(A Division of Nisha Engineering)

PRODUCT CATALOGUE

- PHARMACEUTICAL
- COSMETICS
- PACKAGING MACHINERY

ENGINEERING
RELIABLE
PROCESS
SOLUTIONS



PRECISION
ENGINEERING



GMP
COMPLIANT DESIGN



CUSTOMIZED
SOLUTIONS



RELIABLE
SUPPORT

ABOUT AARNEX MACHTECH



OUR HERITAGE

AARNEX MACHTECH is the Process & Packaging Machinery Division of Nisha Engineering.

Built on years of engineering and manufacturing expertise, AARNEX delivers advanced process and packaging machinery for pharmaceutical, chemical, cosmetics and food manufacturers worldwide.



BUILT ON EXPERIENCE

Our foundation is rooted in the proven engineering capabilities of Nisha Engineering. By combining established manufacturing knowledge with modern automation and customer-focused innovation, AARNEX provides reliable solutions designed for long-term industrial performance.



ENGINEERING PHILOSOPHY

At **AARNEX MACHTECH**, our engineering philosophy is built on the principles of quality, reliability and continuous improvement.

We believe in creating process solutions that not only meet today's industry needs but also support the sustainable growth of our clients in the future.



PRECISION ENGINEERING

High-accuracy design and manufacturing for consistent performance and long service life.



GMP-COMPLIANT DESIGN

Equipment designed in accordance with GMP and international regulatory standards.



CUSTOMIZED SOLUTIONS

Tailor-made machines and integrated systems to meet specific process requirements.



RELIABLE AFTER-SALES SUPPORT

Dedicated service and technical support for installation, commissioning and long-term reliability.



Engineering Reliable Process Solutions

OINTMENT MANUFACTURING PLANT

Precision Manufacturing for
Ointments, Creams, Gels & Emulsions

The **Ointment** Manufacturing Plant is an advanced, fully integrated processing system engineered for the hygienic production of ointments, creams, gels, lotions, emulsions, and other semi-solid pharmaceutical and cosmetic formulations. Designed in accordance with GMP requirements, the plant ensures consistent product quality, superior texture and high production efficiency.



APPLICATIONS



Pharmaceutical
Ointments



Creams



Cosmetic
Creams



Gels



Lotions



Toothpaste



Herbal
Preparations



Emulsions

STANDARD PLANT CONFIGURATION

- Main Manufacturing Vessel
- Wax/Oil Phase Vessel
- Water Phase Vessel
- Product Storage Vessel
- Vacuum Transfer System
- Inline Homogenizer
- Lobe Transfer Pump
- Metering Pump
- Integrated PLC Control Panel
- Stainless Steel Working Platform
- Interconnecting SS316 Piping

KEY FEATURES

- ✓ Fully enclosed hygienic manufacturing process
- ✓ GMP-compliant pharmaceutical construction
- ✓ SS316 product contact parts
- ✓ Jacketed vessels for efficient heating & cooling
- ✓ Vacuum emulsification for air-free products
- ✓ High-shear homogenizer for superior emulsion quality
- ✓ Variable-speed anchor agitator with Teflon scrapers
- ✓ Easy-open vessel design for rapid cleaning
- ✓ Mirror-finished contact surfaces
- ✓ Inline filtration for improved product quality
- ✓ Automatic material transfer between vessels
- ✓ Compact, operator-friendly design

OPTIONAL AUTOMATION

- PLC-based fully automatic control
- SCADA integration
- Recipe management
- Load cell weighing system
- Automatic vacuum transfer
- CIP (Clean-in-Place) system
- Touchscreen HMI
- Automated batch reporting

TYPICAL PROCESS FLOW



CAPACITY RANGE

50 Litres	100 Litres	200 Litres	300 Litres	500 Litres	1000 Litres	1500 Litres	2000 Litres	2500 Litres
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 Custom capacities available upon request.

SYRUP

MANUFACTURING PLANT

Complete Solution for Oral Liquid & Syrup Manufacturing

PRODUCT OVERVIEW

The **AARNEX** Syrup Manufacturing Plant is a fully integrated processing system designed for the hygienic production of pharmaceutical oral liquids, syrups, suspensions, and food-grade liquid formulations. Built to **cGMP** standards, the plant combines precision mixing, heating, cooling, filtration, homogenization, storage, and automated transfer into a single efficient manufacturing solution. Its enclosed design ensures consistent product quality, reduced contamination risk, and simplified operation with high production efficiency.



APPLICATIONS



Pharmaceutical Oral Liquids



Medicinal Syrups



Nutraceutical Syrups



Herbal Syrups



Food Syrups



Flavoured Solutions



Liquid Suspensions

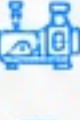
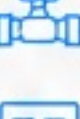


Veterinary Oral Liquids

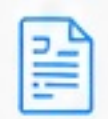
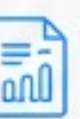
KEY FEATURES

- ✓ Closed-loop hygienic manufacturing process
- ✓ cGMP-compliant pharmaceutical design
- ✓ SS316 product contact parts
- ✓ Steam or electric heating options
- ✓ Jacketed vessels for heating and cooling
- ✓ Top & bottom entry agitators
- ✓ High-shear inline homogenization
- ✓ Uniform mixing and suspension preparation
- ✓ Integrated filtration system
- ✓ Automatic product transfer
- ✓ Centralized operator control panel
- ✓ Low maintenance and easy cleaning

STANDARD PLANT CONFIGURATION

-  Sugar Syrup Preparation Vessel
-  Manufacturing Vessel
-  Storage Vessel
-  High-Speed Mixing System
-  Inline Homogenizer
-  Basket Filter
-  Zero Hold-Up Filter Press
-  Transfer Pumps
-  Product Distribution Piping
-  Integrated Electrical Control Panel

OPTIONAL AUTOMATION

-  PLC-based automation
-  Touchscreen HMI
-  SCADA integration
-  Recipe management
-  Automatic temperature control
-  Load-cell weighing system
-  CIP (Clean-in-Place)
-  Batch reporting & data logging

TYPICAL PROCESS FLOW



CAPACITY RANGE

100 Litres	200 Litres	300 Litres	500 Litres	1000 Litres	2000 Litres	5000 Litres	10000 Litres	20000 Litres
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 Custom capacities available on request.

 **GMP-COMPLIANT DESIGN**
Built for Safety & Quality

 **PRECISION ENGINEERED**
For Consistent Performance

 **CUSTOMIZED SOLUTIONS**
Tailored to Your Needs

 **RELIABLE AFTER-SALES SUPPORT**
Always With You

AUTOMATIC SINGLE HEAD TUBE FILLING & SEALING MACHINE

(PLASTIC & LAMINATED TUBES)

Fully Automatic Tube Filling & Sealing Machine
for Pharmaceutical, Cosmetic & Personal Care Products

UP TO
60
TUBES/MINUTE

cGMP
HYGIENIC
DESIGN

PRECISE FILLING
& RELIABLE
SEALING



OVERVIEW

The AARNEX TFS-S60 is a fully automatic tube filling and sealing machine designed for precise filling and hygienic sealing of laminated and plastic tubes. Built in accordance with cGMP principles, it combines reliable automation, accurate volumetric piston filling and hot-air tube sealing to deliver consistent product quality with minimal wastage.

The machine performs automatic tube feeding, orientation, filling, hot air sealing, batch coding and tail trimming in one continuous operation, making it ideal for medium-scale pharmaceutical and cosmetic manufacturing.

STANDARD FEATURES

- Automatic Tube Feeding
- Automatic Tube Orientation
- Volumetric Piston Filling
- Hot Air Tube Sealing
- Batch Number Coding
- Tail Trimming
- PLC Based Automation
- Touch Screen HMI
- No Tube – No Fill System
- Stainless Steel Construction
- Adjustable Filling Volume
- Safety Guards & Interlocks
- Centralized Lubrication

KEY BENEFITS

- Fully Automatic Operation
- High Filling Accuracy
- Up to 60 Tubes per Minute
- cGMP Hygienic Design
- Easy Cleaning & Maintenance
- Low Product Wastage
- Reliable Tube Sealing
- Compact Footprint
- User Friendly PLC Control
- Quick Product Changeover

APPLICATIONS

- Ointments
- Cosmetic Creams
- Face Wash
- Toothpaste
- Gels
- Moisturizers
- Herbal Products
- Adhesives
- Pastes
- Balm

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION	PARAMETER	SPECIFICATION
Model	AARNEX TFS-S60	Product Contact Parts	SS316 Stainless Steel
Machine Type	Automatic Single Head Tube Filling & Sealing Machine	Machine Body	SS304 Stainless Steel
Tube Type	Plastic & Laminated Tubes	Control System	PLC with Touch Screen HMI
Output Capacity	Up to 60 Tubes/Minute*	Filling Principle	Volumetric Piston Filling
Filling Range	10 – 250 g	Sealing Method	Hot Air Sealing
Tube Diameter	13 – 40 mm	Utilities	Electrical Supply & Compressed Air
Tube Length	75 – 200 mm	Machine Construction	cGMP Design
Filling Accuracy	±0.5 – 1% (Depending on Product)		

*Performance may vary depending upon product viscosity, tube size and operating conditions.

PRECISION
ENGINEERING

GMP
COMPLIANT DESIGN

CUSTOMIZED
SOLUTIONS

RELIABLE
SUPPORT

AUTOMATIC DOUBLE HEAD TUBE FILLING & SEALING MACHINE

(PLASTIC & LAMINATED TUBES)

High-throughput double head tube filling and sealing machine delivering up to 120 tubes per minute for continuous production.



UP TO

120

TUBES/MINUTE



cGMP

HYGIENIC

DESIGN



PRECISE FILLING

& RELIABLE

SEALING



i OVERVIEW

The AARNEX TFS-D120 is a high-performance automatic double-head tube filling and sealing machine designed for manufacturers requiring higher production throughput without compromising filling accuracy or sealing quality. The dual-head design enables faster production while maintaining consistent product quality across pharmaceutical, cosmetic, personal care and food applications.

The machine integrates automatic tube feeding, orientation, precision filling, sealing, coding and tail trimming into a single automated process, making it suitable for continuous production environments.

⚙️ STANDARD FEATURES

- ✓ Dual Filling Heads
- ✓ Automatic Tube Feeding
- ✓ Automatic Tube Orientation
- ✓ Precision Volumetric Filling
- ✓ Hot Air Tube Sealing
- ✓ Batch Coding
- ✓ Tail Trimming
- ✓ PLC & Touch Screen HMI
- ✓ No Tube – No Fill
- ✓ Stainless Steel Construction
- ✓ Safety Guards
- ✓ Centralized Lubrication

★ KEY BENEFITS

- ✓ High Production Capacity
- ✓ Dual Filling Heads
- ✓ Consistent Filling Accuracy
- ✓ Reliable Tube Orientation
- ✓ Excellent Sealing Quality
- ✓ Reducert Downtime
- ✓ Easy Changeover
- ✓ PLC Controlled Automation
- ✓ cGMP Construction
- ✓ Suitable for Continuous Production

📦 APPLICATIONS

 Ointments	 Cosmetic Creams
 Face Wash	 Toothpaste
 Gels	 Moisturizers
 Herbal Products	 Adhesives
 Pastes	 Balm

📋 TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION	PARAMETER	SPECIFICATION
Model	AARNEX TFS-D120	Product Contact Parts	SS316 Stainless Steel
Machine Type	Automatic Double Head Tube Filling & Sealing Machine	Machine Body	SS304 Stainless Steel
Tube Type	Plastic & Laminated Tubes	Control System	PLC with Touch Screen HMI
Output Capacity	Up to 120 Tubes/Minute*	Filling Principle	Volumetric Piston Filling
Filling Range	10 – 250 g	Sealing Method	Hot Air Sealing
Tube Diameter	13 – 40 mm	Utilities	Electrical Supply & Compressed Air
Total Length	75 – 200 mm	Machine Construction	cGMP Design
Filling Accuracy	±0.5 – 1% (Depending on Product)		

*Performance may vary depending upon product viscosity, tube size and operating conditions.



PRECISION
ENGINEERING



GMP
COMPLIANT DESIGN



CUSTOMIZED
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RELIABLE
SUPPORT

AUTOMATIC SINGLE HEAD TUBE FILLING & SEALING MACHINE

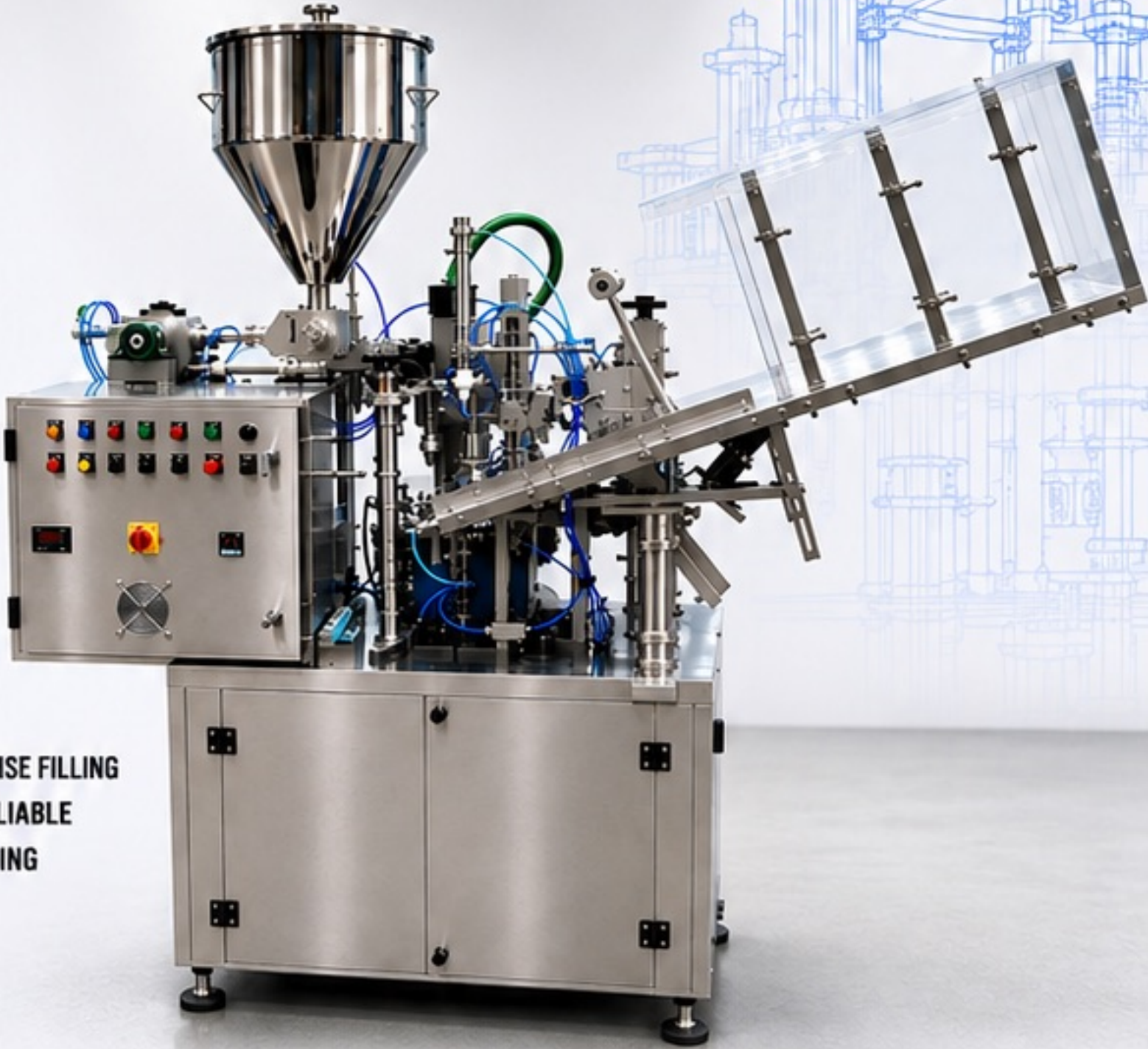
(PLASTIC & LAMINATED TUBES)

Fully Automatic Tube Filling & Sealing Machine
for Pharmaceutical, Cosmetic & Personal Care Products

UP TO
40
TUBES/MINUTE

cGMP
HYGIENIC
DESIGN

PRECISE FILLING
& RELIABLE
SEALING



i OVERVIEW

The AARNEX TFS-S40 is an automatic single head tube filling and sealing machine engineered for efficient and reliable packaging of creams, ointments, gels and pastes. Designed with advanced automation and user-friendly controls, it delivers consistent performance, accurate filling and high-quality sealing with minimal operator intervention. Its compact footprint makes it an ideal solution for small to medium-scale pharmaceutical and cosmetic manufacturers.

STANDARD FEATURES

- Automatic Tube Feeding
- Automatic Tube Orientation
- Volumetric Piston Filling
- Hot Air Tube Sealing
- Batch Number Coding
- Tail Trimming
- No Tube – No Fill System
- Stainless Steel Construction
- Adjustable Filling Volume
- Safety Guards & Interlocks
- Centralized Lubrication

KEY BENEFITS

- Fully Automatic Operation
- High Filling Accuracy
- Up to 40 Tubes per Minute
- cGMP Hygienic Design
- Easy Cleaning & Maintenance
- Low Product Wastage
- Reliable Tube Sealing
- Compact Footprint
- User Friendly PLC Control
- Quick Product Changeover

APPLICATIONS

- Ointments
- Cosmetic Creams
- Face Wash
- Toothpaste
- Gels
- Moisturizers
- Herbal Products
- Adhesives
- Pastes
- Balm

TECHNICAL SPECIFICATIONS

Parameter	Specification
Machine Type	Automatic Single Head Tube Filling & Sealing Machine
Model	AARNEX TFS-S40
Configuration	Single Head
Tube Size	Tube Dia 13mm – 40mm, Length 75mm – 200mm
Sealing System	Hot Air Sealing Unit
Tube Compatibility	LAMI / Plastic Tubes
Tube Loading	Automatic
Tube Trimming	Pneumatic
Machine Model / Standard	Rotary with Geneva Indexer & 12 Pockets
Machine Version	New Version
Design Speed	40 Tubes per Minute
Actual Speed	Depends on product / material viscosity

*Performance may vary depending on product viscosity, tube size and operating conditions.



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PRODUCT CATALOGUE 2026 | 0

WHY CHOOSE AARNEX MACHTECH

At AARNEX MACHTECH, we combine engineering excellence with a customer-first approach to deliver reliable, efficient and future-ready solutions.

**YOUR VISION. OUR ENGINEERING.
SHARED SUCCESS.**



01

STAINLESS STEEL CONSTRUCTION

Built with premium quality SS 304 / SS 316 stainless steel for superior durability, corrosion resistance and long service life. All product contact parts are finished to high hygienic standards.



02

GMP DESIGN

Our equipment is designed and manufactured as per cGMP guidelines ensuring maximum product safety, hygiene, and compliance with pharmaceutical and industrial standards.



03

PLC AUTOMATION

Advanced PLC-based automation ensures precise control, real-time monitoring, data logging and repeatable performance with minimum manual intervention and maximum efficiency.



04

CUSTOMIZED ENGINEERING

Every project is unique. We offer tailor-made solutions designed around your specific process requirements, space constraints and production goals.



05

QUALITY ASSURANCE

Rigorous quality control at every stage — from raw material inspection to final testing — ensures consistent quality and reliable performance you can trust.



06

FACTORY ACCEPTANCE TEST (FAT)

All equipment undergoes thorough FAT at our state-of-the-art facility to ensure functionality, safety and performance before delivery.



07

INSTALLATION & COMMISSIONING

Our experienced team ensures smooth installation and commissioning at your site with minimal downtime and optimal performance.



08

TECHNICAL SUPPORT

We stand with you beyond delivery. Our responsive after-sales support, preventive maintenance and quick service ensure your plant runs at peak efficiency.



ENGINEERED FOR EXCELLENCE. BUILT FOR YOU.

From concept to commissioning and beyond, AARNEX MACHTECH delivers engineering solutions that drive productivity, ensure compliance and create long-term value for your business.



RELIABLE



EFFICIENT



INNOVATIVE



TRUSTED



GMP COMPLIANT DESIGN



PRECISION ENGINEERED



CUSTOMIZED SOLUTIONS



RELIABLE AFTER-SALES SUPPORT



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LET'S BUILD THE FUTURE TOGETHER

Thank you for exploring our product range.
We look forward to partnering with you
to deliver innovative, reliable and efficient
engineering solutions that drive your success.



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YEMEN



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SUPPORT