



兰州林美克机械制造有限公司
LIMAC MACHINERY WORKS CORPORATION, LANZHOU, CHINA



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LIMAC SOAP MACHINERY



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PRODUCT OF LIMAC
VACUUM DRYING CHAMBER



Before installed into position
(Vertical after installation)

This photo shows the self-protected mechanical seal, and driving of the chamber

Vacuum drying chamber Type 8000ES-VSD-1700

8000 kg/h of toilet soap noodles or low TFM laundry soap noodles (water content of the soap noodles is around 28%) can be produced. All metallic parts in contact with soap are in stainless steel 304. Diameter of chamber: 1700 mm, max. ovalness is 1 mm. Diameter of main shaft: 110 mm. Motor Power: 7.5 kW. Shaft speed: 14 r/min. The speed reducers are supplied by Flender, Germany.

Technical features:

VSD vacuum dryer chamber can produce toilet soap noodles (Moisture of the soap noodles: from 11% to 28%). All metallic parts in contact with soap are in stainless steel 304 or stainless steel 316L. The sealing of soap feeding nozzle are realized by rotating seal.

Type	Cylinder diameter (mm)	Capacity (t/h)	Power (kW)
8000ES-VSD-1700	1700	6-10	7.5
3000ES-VSD-1500	1500	2-5	5.5
1000ES-VSD-1000	1000	1-1.5	4
500ES-VSD-1000	1000	0.5-0.8	3



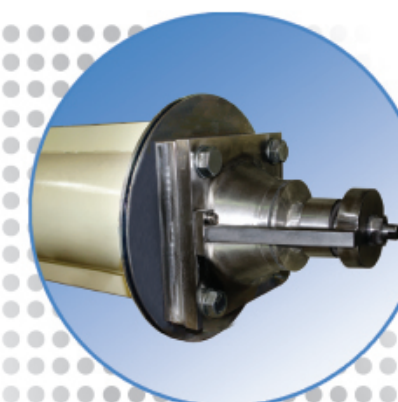
Scraper inside the chamber

PRODUCT OF LIMAC

SOAP POWDER EXTRUDER, CYCLONE SEPARATOR, CRUTCHER, SOAP POWDER COLLECTING BIN



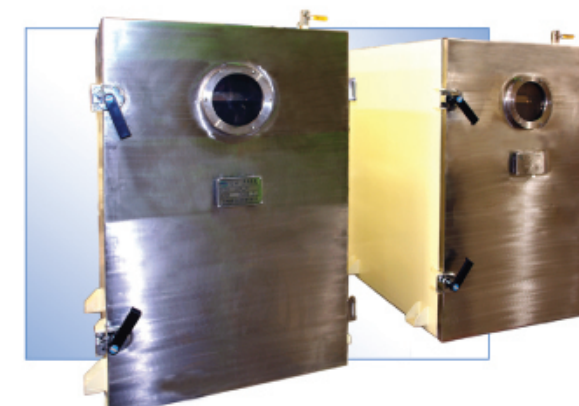
Soap powder extruder 8000ES-QE



Extruder's outlet which prevents soap powder from coming back to barrel

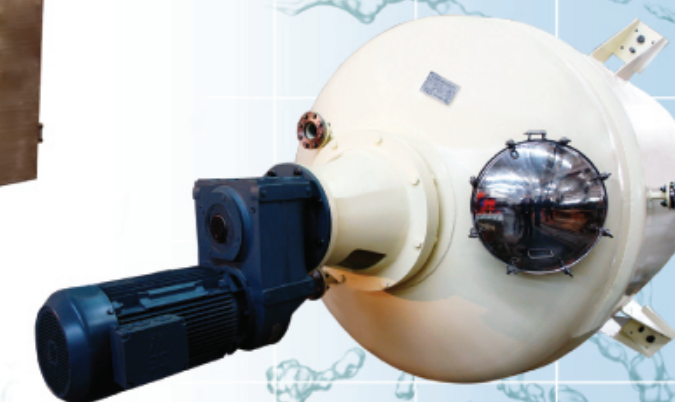


Cyclone separator 8000ES-XFQ

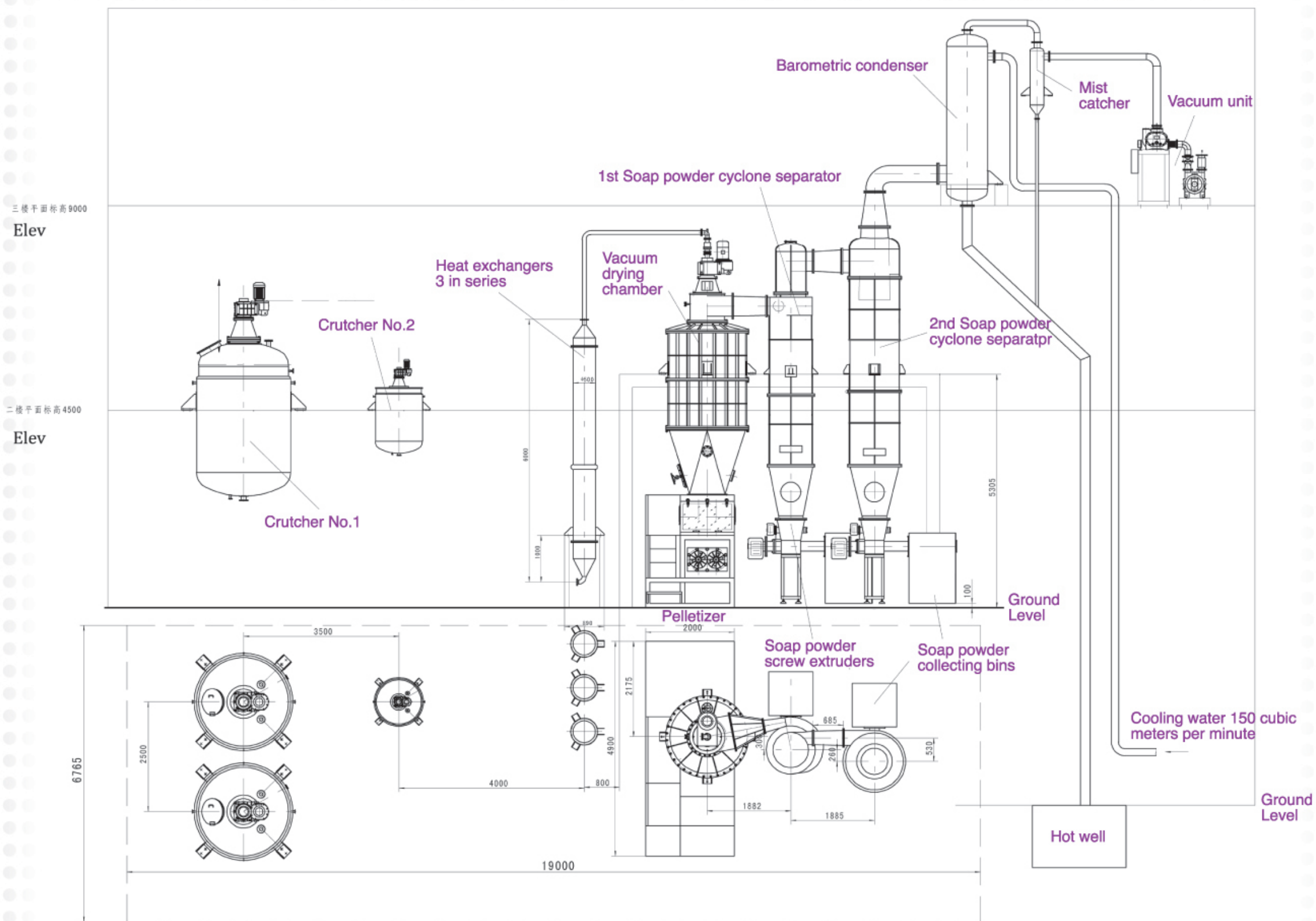


Crutcher 8000ES-LQT-8 before installation

Soap powder collecting bin 1.2 cub m in volume



8000kg/h TOILET/LAUNDRY SOAP VACUUM DRYER SYSTEM LAYOUT



PRODUCT OF LIMAC
DUPLEX TWIN-WORM PELLETIZER



8000ES-SL-400
Duplex Twin-worm Pelletizer

Specification:

Capacity :8000 kg/h of toilet soap noodles
Diameter of worms: 400mm
The worm is from Al-Mg alloy or stainless steel 304.
Gears with case-hardened and ground teeth are for gear reducers, supplied by SEW, Germany
Type 400 Pneumatic clutches are supplied by Eaton, USA.
Speed for upper and lower extruder: 5-19 r/min adjustable
Motor power: 2X75 kW
Pneumatic components are supplied by FESTO, Germany

Type	Capacity (kg/h)	Power (kW)	Worm diameter (mm)
8000ES-SL-400	8000	2 X 75	400
6000ES-SL-350	6000	2 X 55	350
4000ES-SL-300	4000	2 X 45	300



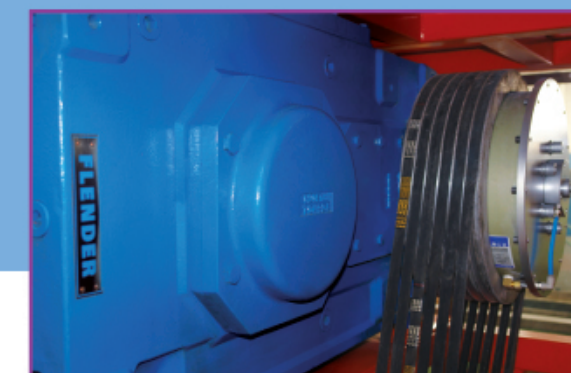
Driving system

Technical Specifications (for 8000ES-SL-400):

- Capacity: 8000 kg/h of toilet soap noodles
- Worm: 400 mm in diameter. The worm is whether welded from stainless steel 304 or casted Al-Mg alloy
- Worm speed: Upper and lower worms 5 to 19 r/min adjustable.
- Speed reducer: Gears with case-hardened and ground teeth are for gear reducers supplied by Flender, Germany.
- Pneumatic clutches Type 400 are supplied by Eaton, USA.
- Electric components by Schneider, France.
- Pneumatic components are supplied by Festo, Germany.



Stainless steel worms inside Duplex Twin-Worm Pelletizer Type 8000ES-SL-400

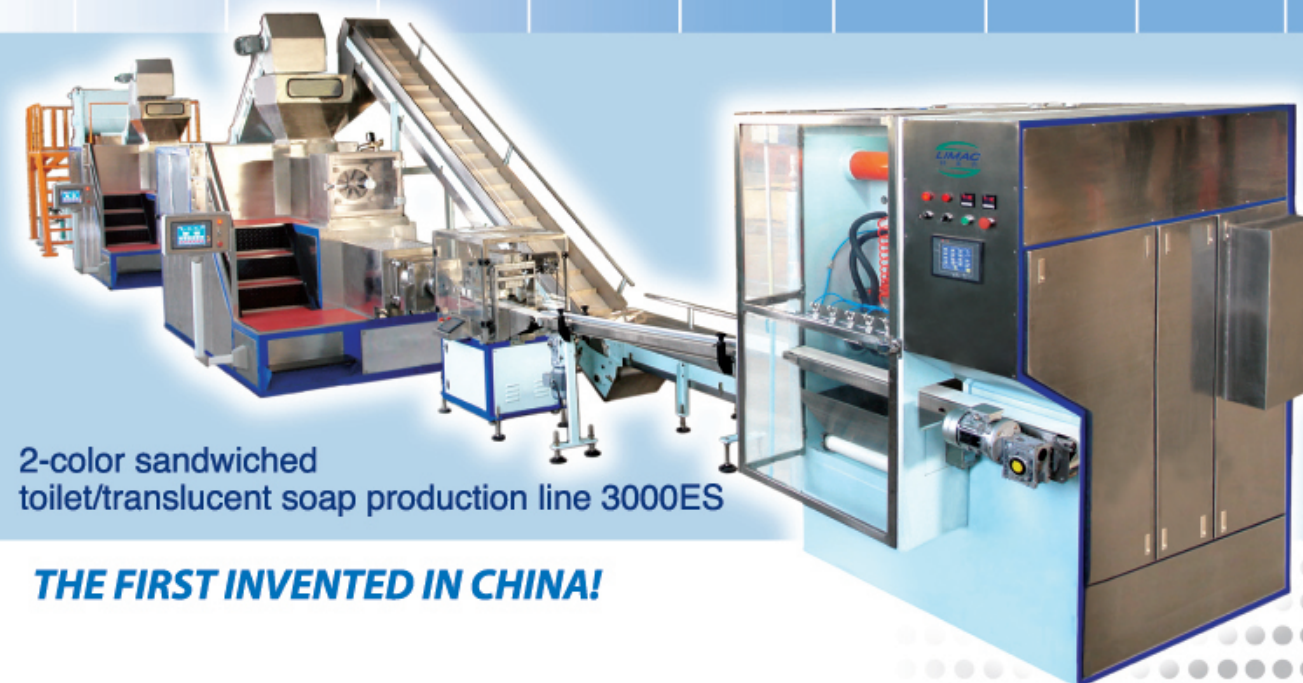


Pneumatic clutch is supplied by Eaton, USA.
Gear reducer is supplied by Flender, Germany.

TOILET/TRANSLUCENT SOAP FINISHING LINE IN SERIES ES

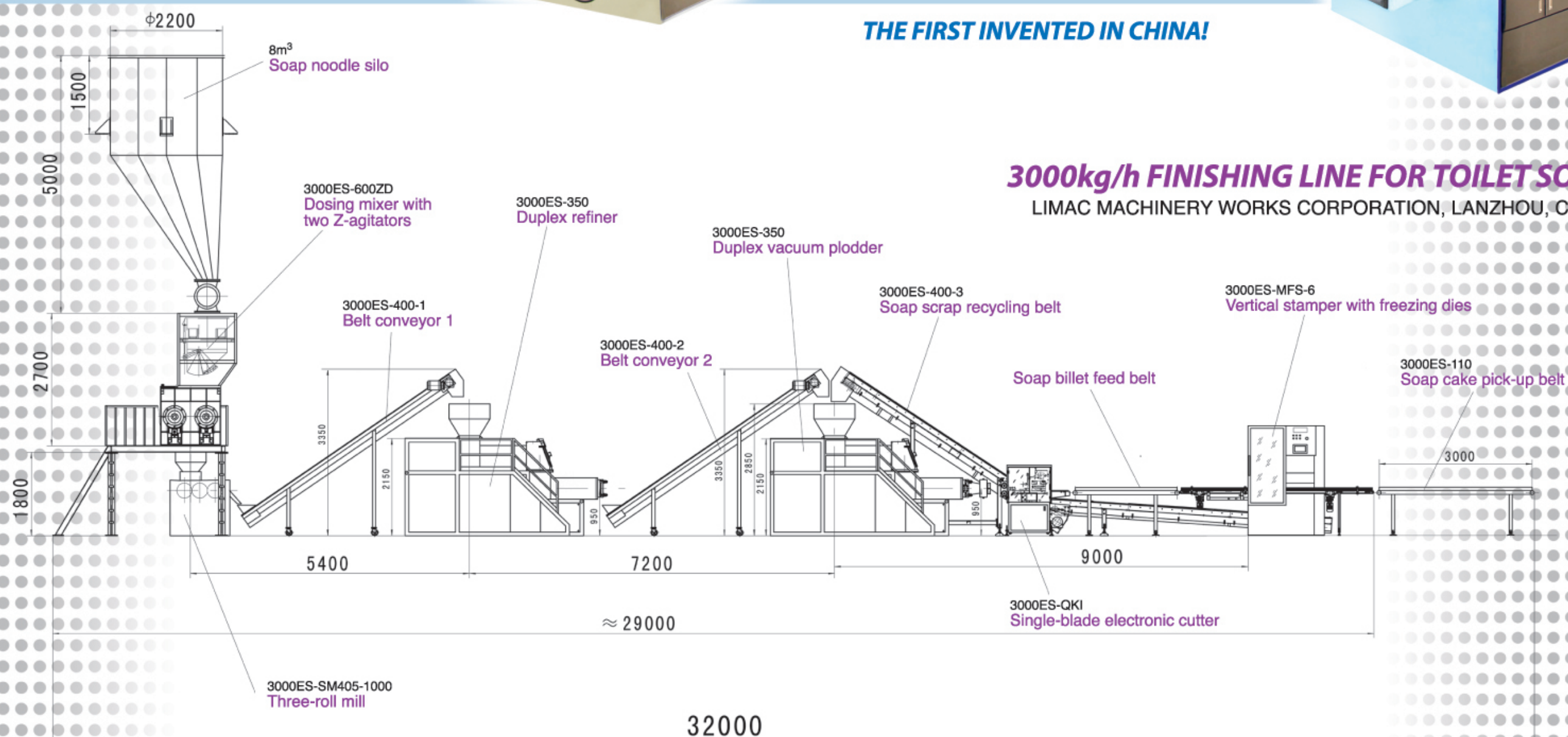


Toilet / translucent soap finishing line 2000ES



2-color sandwiched toilet/translucent soap production line 3000ES

THE FIRST INVENTED IN CHINA!



PRODUCT OF LIMAC REFINER



Duplex single-worm refiner
Type 3000ES-DR

Features:

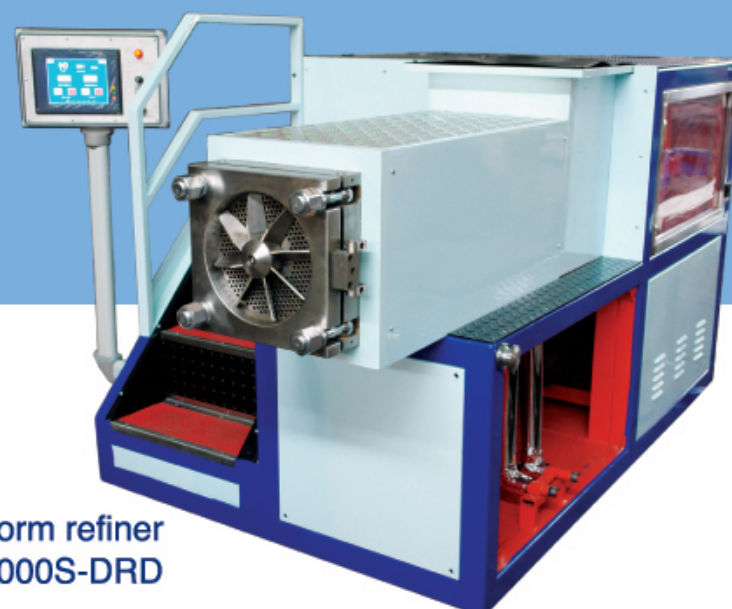
- Pneumatic clutches for upper and lower extruders are supplied by Eaton, USA.
- Level probe inside the vacuum chamber is to control the start/stop of the upper extruder.
- Switches and other electric components are supplied by Schneider, France.
- Frequency adjustable A.C. drive is supplied by Allen-Bradley, USA.
- Operation panel is supplied by Rittal, Germany.
- Touch screen by EM, Taiwan.
- PLC by Allen Bradley, USA.
- Level probe by E+H, Germany.



Duplex single-worm refiner Type 1000ES-DR



Gear reducer and pneumatic clutch



Simplex single-worm refiner
Type 2000S-DRD



A special duplex plodder with twin-worm 1st stage and single-worm 2nd stage.

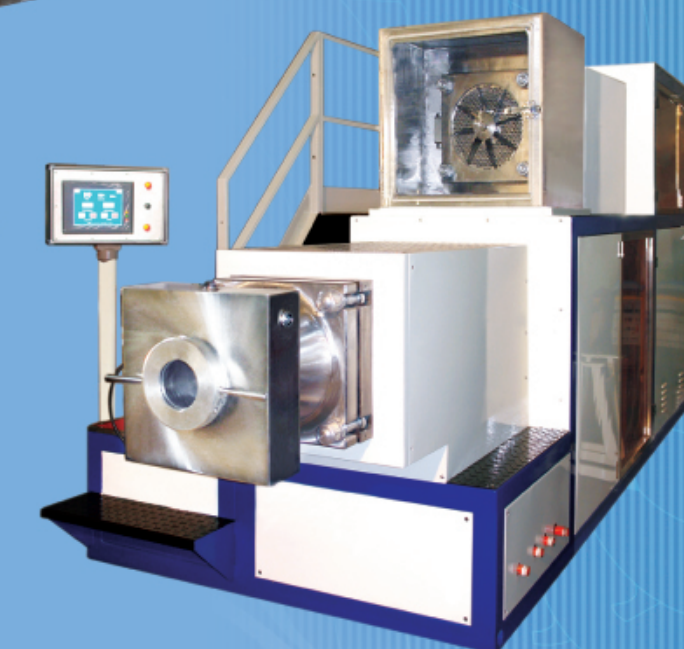
Features:

The refiners and plodders in our toilet/laundry soap finishing line have been further renovated following the world advanced standards from time to time, making the mechanical structure more reasonable, lower driving torque, lower energy consumption, convenient and easy to operate.

Specification for Duplex single-worm refiner

Type	Capacity (kg/h)	Worm diameter (mm)	Power (kW)
4000ES-DR	4000	400	45+45
3000ES-DR	3000	350	37+37
2000ES-DR	2000	300	30+30
1000ES-DR	1000	250	22+22
500ES-DR	500	200	11+11

PRODUCT OF LIMAC PLODDER



Duplex single-worm vacuum plodder
Type 2000ES-DRVP
with worm diameter 300mm.



A special duplex plodder with twin-worm 1st stage and two-outlets 2nd stage

PRODUCT OF LIMAC
SINGLE-BLADE ELECTRONIC CUTTER
WITH ENGRAVING ROLLERS

High-precision Single-Blade Electronic Cutter

- Power: 3 kW
- Cutting length: 60-999 mm
- Speed : 12-250 pieces/min
- Conveyor motor: 0.55 kW
- Cutting precision: $\pm 1.2g$, head face verticality $< 1^\circ$
- Frequency adjustable A.C. drive, servomotor, servo controller, and PLC by Allen-Bradley, USA



Single-blade electronic cutter
Type 2000ES-QKI placed in a finishing line.

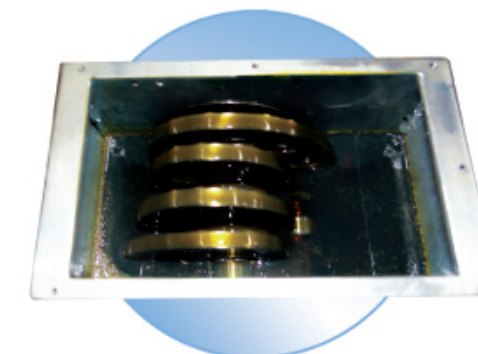
Brand-new updated design in 2012
High-precision, low driving torque ,No noisy, Zero fault point
More durable, 3-year fault-free guarantee, produced in batch .



Many technical improvements are made in these years on the design, machining precision, assembling of the Single-Blade Electronic Cutter Type 2000ES-QKI. Now the cams for the cutter are supplied by professional manufacturer, where the forming, shaping and heat treatment and assembling are followed by strictly professional high standard. That results in low driving torque, no overheating of servo-motor is observed since then, increasing the service life of the cutter.



Frequency adjustable AB drive and
PLC supplied by Allen-Bradley, USA.



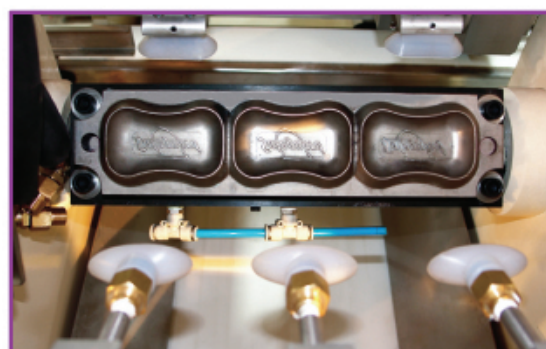
Cam working faces are accurately ground



PRODUCT OF LIMAC
AUTOMATIC VERTICAL STAMPER
WITH FREEZING DIES

Simple in mechanism, stable gearing system, high-efficiency

The stampers in this Series is most simple in mechanical design in the world. Best professional vendors are selected to supply critical parts. e.g. gear reducer by Rossi, Italy, coupling and fixing sleeve by KTR, Germany, and the proprietary divider is by Zhucheng Precision Cam Factory, China, and linear guide way by THK, Japan. etc. So the stamper is in high reliability, easy to operate and easy to replace the worn parts.

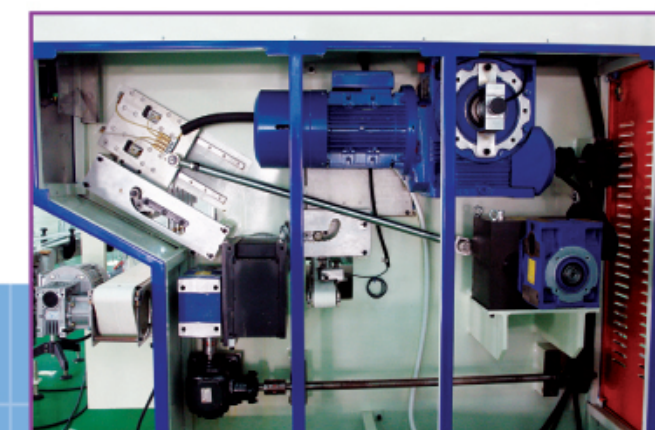


Type	Capacity (kg/h)	Number of soap cake per one stroke (Pieces)	Motor (kW)	Optimal speed (Stroke/min)
500ES-MFS-2	500	2	2.2+0.5+0.5+0.55	10-55
1000ES-MFS-3	1000	3	3.0+0.5+0.5+0.55	10-55
2000ES-MFS-6	2000	6	5.5+0.5+0.5+0.75	10-50
3000ES-MFS-8	3000	8	7.5+0.5+0.5+0.55	10-50

Fabricated according to 2012 technology
High quality, reasonable price and world-level
3-year fault-free guarantee, produced in batch.

PRODUCT OF LIMAC
SIMPLE DRIVING MECHANISM FOR
VERTICAL STAMPER WITH FREEZING DIES.

Speed reducer is supplied by Rossi, Italy.
Couplings and clamping sleeves are supplied KTR, Germany;
Electric components are supplied by Schneider, France.
Rolling straight guide way is supplied by THK, Japan;
Electric panels by Rittal, Germany.
Angular encoder by Nemicon, Japan;
Pneumatic components by Festo, Japan.



Driving mechanism of the vertical soap stamper with freezing dies is simple and clear-cut.

Pneumatic components by Festo, Germany, and stamping and soap billet feeding mechanisms.



The cam box for 60 degree rocking of stamping die mandrel for the vertical toilet soap stamper with frozen dies Series ES-MFS.



Cam boxes for soap bar infeding cups and soap cake take-out cups.

PRODUCT OF LIMAC

**PROFESSIONAL STAMPING DIES IN
DIFFERENT SHAPES**



High-precision emulation technology

Technical Features:

The working part of the stamping die is made from brass 94. Hard aluminum alloy LC9 is for base plate of the stamping die, in order to reduce weight of the die and thus to make it easy to assemble and disassemble the die set.

There is a high-tech coating on the die's working surface, to make the die more durable, abrasion-proof, and to prevent soap from sticking on the die surface.

*There are creation
every where,
talents create excellence.*



PRODUCT OF LIMAC Mixers



Mixer with two Z-shaped agitators



Fully automatic dosing mixer with two Z-shaped agitators

Features of the mixer:

It has functions of amalgamation, breaking, mixing and milling. Its performance is excellent.



Mixer with sigma agitators

Type	Name	Diameter of mixing blade (mm)	Speed (r/min)	Capacity (kg/batch)	Motor (kW)
3000ES-600Z	Mixer with two Z-shaped agitators	600	shaft A 36 shaft B 22	400	18.5+18.5
2000ES-600Z		540		300	15+15
1000ES-600Z		450		200	11+11
500ES-600Z		300		100	7.5+7.5

LATEST PRODUCTS THREE-ROLL MILL

Inclined Bottom Discharged 3-Roll Mill specially designed for soap production.



Inclined bottom discharged three-roll mill



No more dropping down of soap chips onto floor during operation.

Soap chips are discharged from bottom roll, so that:

- No dropping down of soap chips from the rolls to floor;
- No soap dust flying around the mill during operation;
- The productivity is 20% up compared with traditional 3-roll mill;
- The milled soap is more fine in texture, higher foaming capability, and more translucent;

Mechanical seals are used for water inlets/outlets.



Cooling water inlets/outlets

Specifications for horizontal three-roll mill

Type	Roll Diameter (mm)	Roll Length (mm)	Speed (r/min)	Motor (kW)
XSG-405-1000	405	1000	Slow roll 20, Medium roll 60, Fast roll 180	37
XSG-405-800	405	800		30
SG-260	260	675		11
SG-150	150	300		4

PRODUCT OF LIMAC
CHILLERS, BELT CONVEYORS, AIR COMPRESSORS



-25°C Glycol chiller 5HP

For chiller 5HP its compressor is made in Italy or USA
Chiller 15HP is used for supply -25°C freezing liquid to automatic toilet soap stamper



5°C Water Chiller

For chiller 15HP its compressor is made in Italy or USA
Chiller 20HP is used for supply chilled water of 5°C-15°C to refiner, plodder or 3-roll mill etc.



Screw air compressor with auto-controlled air dryer

Proving dry air for stamper, refiner and plodder



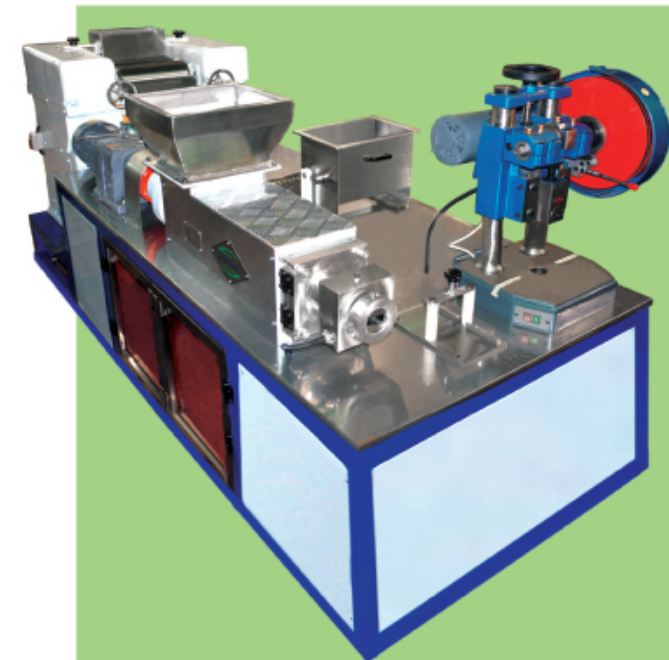
500kg/h to 4000kg/h belt conveyors

PRODUCT OF LIMAC
PILOT SOAP MACHINES



Pilot soap line with capacity of 200 kg/h

Type	Capacity (kg/h)	Worm diameter (mm)	Stamping force (kg)	Max. mass of toilet soap cake stamped (g)	Motor (kW)
100-XSY	100	100	1000	80	7
200-XSY	200	120	2000	100	9
300-XSY	300	150	3000	125	11



Pilot soap line 100 -XSY



Pilot soap machines of 300-XSY



LIMAC MACHINERY WORKS CORPORATION, LANZHOU, CHINA

THE PASSIONATE PURSUIT OF PERFECTION



BRIEF INTRODUCTION

LIMAC MACHINERY WORKS CORPORATION, LANZHOU, CHINA
In just six years, by effort of her designing and manufacturing team composed of more than 40 outstanding elites most of them have more than three decades of working experience. Besides, LIMAC integrated into her design many features from most up-to-date technical resources, both domestic and abroad. Working diligently and unnoticed, LIMAC has been producing world-level soap-making machines that are praised by world-famous soap producers. The total export contract value is more than three million U.S.dollars annually in average.

In this increasingly competitive soap machine manufacturing industry, many companies have fallen down; however, LIMAC is like a big mountain stands firmly there by her strong belief, sense of innovation, excellent techniques and outstanding product quality and all-round service.

LIMAC is:

- A quality supplier and loyal friends of all soap producers in the world
- The Pearl of the Orient among the soap machine manufacturers in the world
- A miracle in the house-hold chemical industry in China;
- An exotic flower blossom in northwest China.

LIMAC is not afraid of failure, or losses, because she believes: The glittering of a gold will be noticed after all by people passing-by.

www.gslimac.en.alibaba.com



WORLD BECOMES DIFFERENT BECAUSE OF LIMAC'S EXISTANCE

LIMAC is not afraid of failure, or losses, because she believes:
The glittering of a gold will be noticed after all by people passing-by.



WORLD BECOMES DIFFERENT BECAUSE OF LIMAC'S EXISTANCE

Limac's purpose:

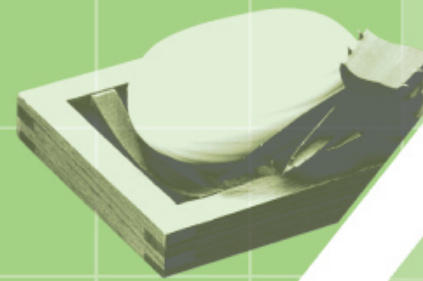
Making a breakthrough in soap producing technology
Making the soap come to higher quality level and more eco-friendly in producing it.

Features of Limac's soap machinery:

Simpler in structure of the machinery
Easier to operate
Fewer point of failure
Longer service life
Higher reliability since world-famous vendors are selected to supply their electronic, instrumental and mechanical parts for LIMAC's machinery



**Foreign customers have high opinion
of Limac soap machinery!**



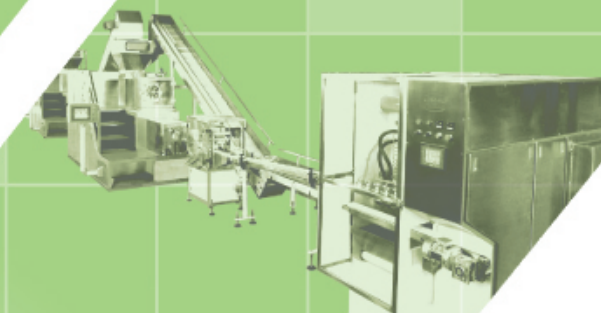
LIMAC CAN PROVIDE YOU WITH FOLLOWING MACHINERY AND EQUIPMENT

Fatty-acid neutralization unit with capacity up to 10t/h

Liquid soap vacuum drying unit to produce soap needles with capacity up to 10t/h

Toilet /Laundry soap finishing line with capacity up to 4t/h

Two-colored sandwich soap production line with capacity up to 3t/h

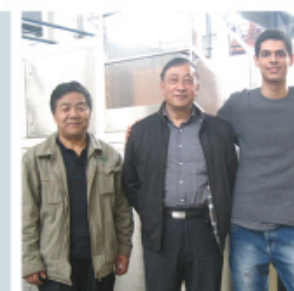


LIMAC'S CUSTOMERS ARE ALL OVER THE WORLD



Foreign customers have high opinion of Limac's soap machinery!

A Brazil soap maker
buys two toilet soap
finishing lines in one
contract!



Ghana customer is
satisfied with the high
performance of
Limac's soap machinery!

Polish customer
was making
a visit to Limac



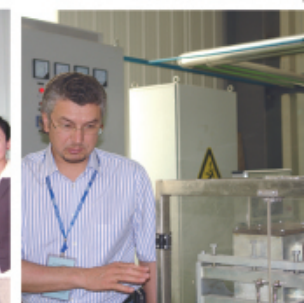
Two-colour sandwich
toilet soap production
line is being accepted
by a Syria soap maker.



A complete soap finishing
line in Russia!



The soap produced by
Limac's machinery
reaches world top
level, a big Indian soap
manufacturer
has chosen Limac's
machinery
finally for his factory.



A toilet soap finishing
line in Ethiopia

Two-color sandwich
soap production
line in Togo



Limac's customers are all over the world

Two companies in Yangon, Myanmar, three companies in Jakarta and Medan, Indonesia, two companies in Damascus, Syria, and other soap producers in Poland, Malaysia, Kyrgyzstan, Russia, United States, France, Portugal, Uganda, Dubai EAU, Brazil, Kuwait, Algeria, Benin, Sri Lanka, Togo, Canada and Ghana etc.

The two - colour sandwich soap manufactured by Limac machinery is the first invented in China!

90% of Lanzhou Limac soap machinery which is with top technology has been exported all over the world!

**Foreign customers have high opinion
of Limac's soap machinery!**



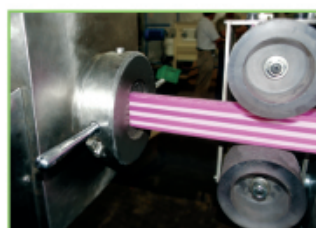
LATEST PRODUCTS OF LIMAC

TWO-COLORED SANDWICH SOAP PRODUCTION LINE



Two-colored sandwich soap

The two-colored sandwich soap becomes popular and popular in international soap market these days. To change the traditional single-color toilet /laundry soap into two-colored, Limac has successfully developed a complete set of machinery to make soap cake with two different colors (and with different formulation, if required). For example, darker part of the sandwich soap has high detergency and the white part of that sandwich soap is for skin care. One soap cake has two different functions in its different part. It not only gives new experience to customers, but also brings enjoyment to customers who use it.



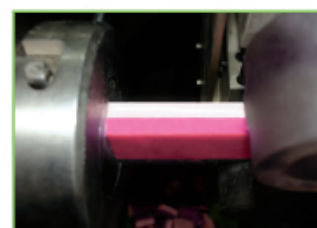
Two-colored sandwich soap



Two-colored striped sandwich soap, the spacing of color stripes is changeable



Diagonally patterned two-color sandwich soap.



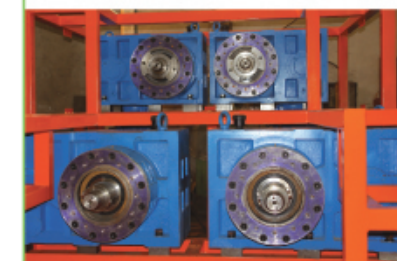
Two-colored sandwich soap with equally spaced stripes. However you can change the space, for example to ratio 1:2; 1:4; or 1:3

Make a breakthrough at technology,
make a Future for soap machinery!

Zero-slip driving mechanism is used in the duplex two-colored sandwich soap plodder Type 2000S-DRDP-A, to make it easy to control the pressure in the two worm barrels



Speed reducers for Duplex Plodder Type 2000S-DRDP-A for Two-Colored Sandwich Soap, the four speed reducers are controlled separately in order to adjust pressure in each worm barrel.



There are four inverters in the electric panel for Duplex Two-Colored Sandwich Soap Plodder Type 2000ES-DRDP-A, in order to control the speed of each worm separately.



LATEST PRODUCTS OF LIMAC

DUPLEX VACUUM PLODDER FOR TWO-COLORED SANDWICH SOAP



Duplex vacuum plodder Type 3000ES-DRDP-A for two colored sandwich soap

Refiner Type 2000ES-DRD-A for Two-Colored Sandwich Soap



Duplex vacuum plodder Type 2000S-DRDP-A for two-colored sandwich soap. Here shows a sandwiching device.

LATEST PRODUCTS OF LIMAC TWO –COLORED SANDWICH SOAP PRODUCTION LINE



Duplex plodder Type 2000ES-DRDP-A for two –colored sandwich soap.

Features:

Capacity: 2000 kg/h finished two-colored sandwich soap cake.

Worm: 250 mm in diameter, made from welded stainless steel 304 or Al-Mg alloy casting.

Motors: 4x18.5=74 kW

Electric heaters at the conical outlet head: 2 kW+1 kW

There are 8 speed reducers in the plodder. The gears of the reducers are with high precision Class 6 and the teeth are case-hardened and ground.

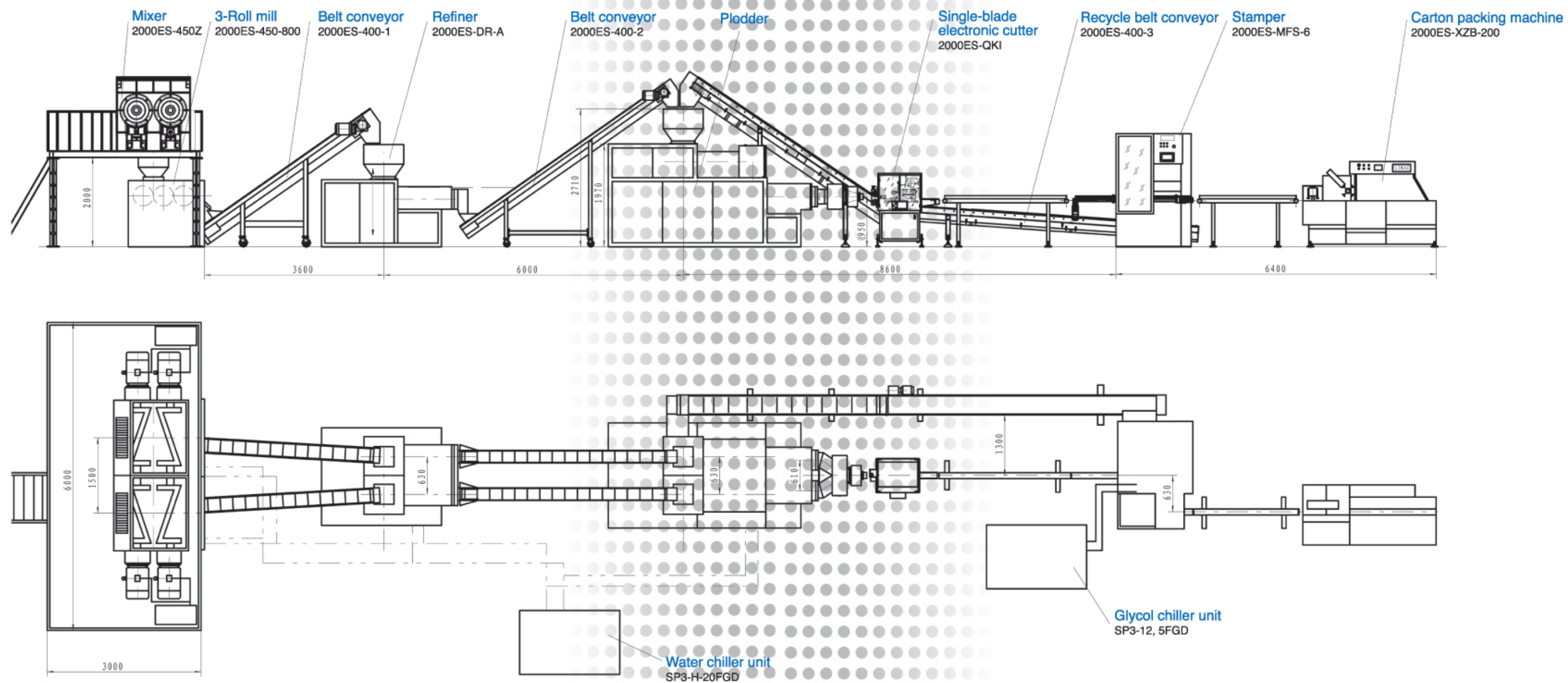
Specification of plidders in Series ES-DRDP for 2-colored sandwich soap production

Type	Worm diameter (mm)	Power (kW)	Capacity (kg/h)
1000ES-DRDP-A	200	4X5.5+1+0.5	1000
2000ES-DRDP-A	250	4X18.5+2+1	2000
3000ES-DRDP-A	300	44X22+2+1	3000

*Make a breakthrough
at technology,
make a Future for
soap machinery!*



2000kg/h TWO-COLORED SANDWICH SOAP PRODUCTION LINE



PRODUCT OF LIMAC CARTON PACKING MACHINE FOR TOILET SOAP



Carton Packing Machine Type LIMAC-ZH-XZB-200

Simple in structure, easy to operate,
no point of fault, low noise. The percent
of acceptable packing is over 99.99%.



Automatic hot-glue system Type LIMAC-ZH-XZB-250



Cam driving mechanism Type LIMAC-ZH-XZB-200

Technical specifications:

- Speed: 200 packs/min(LIMAC-ZH-XZB-200)
- Speed: 250 packs/min(LIMAC-ZH-XZB-250)
- Motor: 1.5 kW, electric heater: 3 kW
- All parts in contact with soap are in stainless steel 304
- PLC is supplied by Mitsubishi, Japan
- Pneumatic components by Festo, Germany
- Electric components by Schneider, France

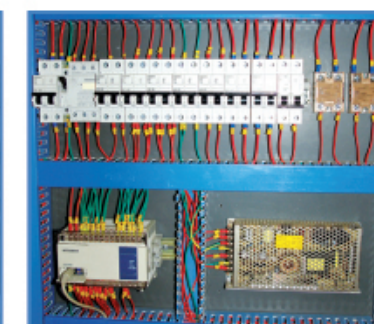


Product features:

The carton packing machine developed by LIMAC-ZH integrates good ideas in design of packing machines made in Germany and Italy. And to adapt itself to the Chinese market there are some stream lining in the original design. The machine is up to the world advanced technical level. The machine is simple in structure, easy to operate, no point of fault, low noise. The percent of acceptable packing is over 99.99%. There are two options of carton sealing forms: hot-glue or flap folding. The machine is selling well in world market.



The feeding of carton
Type LIMAC-ZH-XZB-200



Electric components of the carton
packing machine
Type LIMAC-ZH-XZB-200



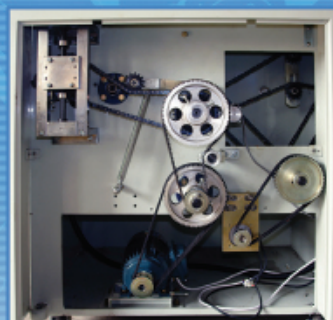
Soap cake turn-round by rotating cups
Type LIMAC-ZH-XZB-200

PRODUCTS OF LIMAC
FLOW-WRAPPING MACHINE FOR
TOILET OR LAUNDRY SOAP



Features:

- Up to 250 pack/min automatically
- Auto-feeding by 4-servo groups
- Simple in mechanism, easy to operate
- Reliable and durable
- Over 99.9% packs pass the quality control



Driving mechanism



Control system



Control system

PRODUCTS OF LIMAC
500-1000kg/h VACUUM
DRYER PELLETIZING SYSTEM



500kg/h vacuum dryer
pelletizing system



1000kg/h vacuum dryer pelletizing system