

安全 可靠 创新
Safety Reliability Innovation

Noozle[®]
TECHNOLOGY

Top level supplier of nano-micron technology

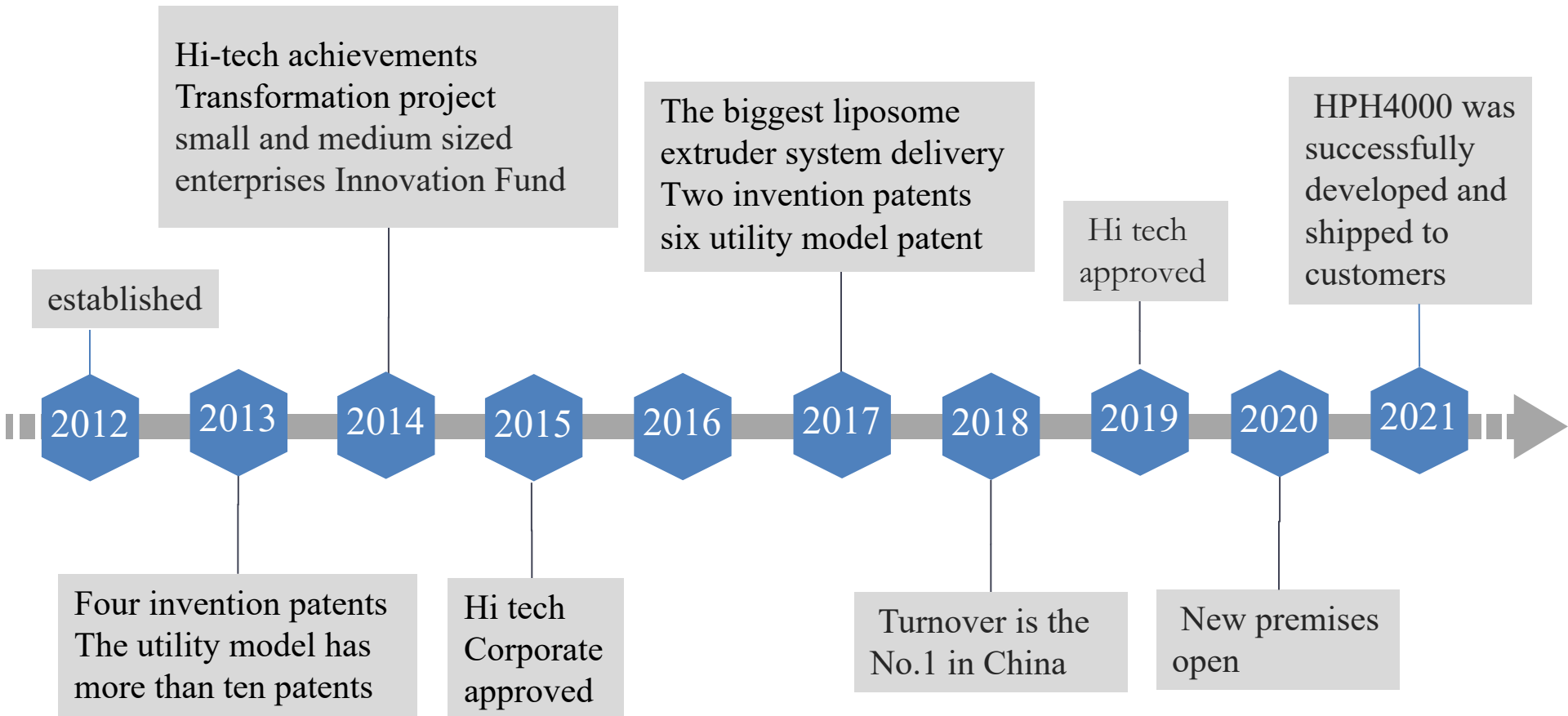
Noozle Fluid Technology (Shanghai) Co., Ltd

Introduction

- 2000m² office area, conference room,
- 210m² Preparation Engineering Center, to provide samples from the lab type to pilot scale production, and provide a microscope, particle size analyzer, dissolution and other analytical instruments.
- GMP standard purification workshop with 40m², use for pilot scale preparation.
- 2000 m² workshop,
- **ISO9001:2015 approved TUV, CE certificated TUV.**



Milestone



HORNOR



Noozle company innovation activities, get a variety of reward and recognition :

- Hi Tech enterprise
- 10 + patents.
- High pressure homogenizer, API fine powder Jet mill were

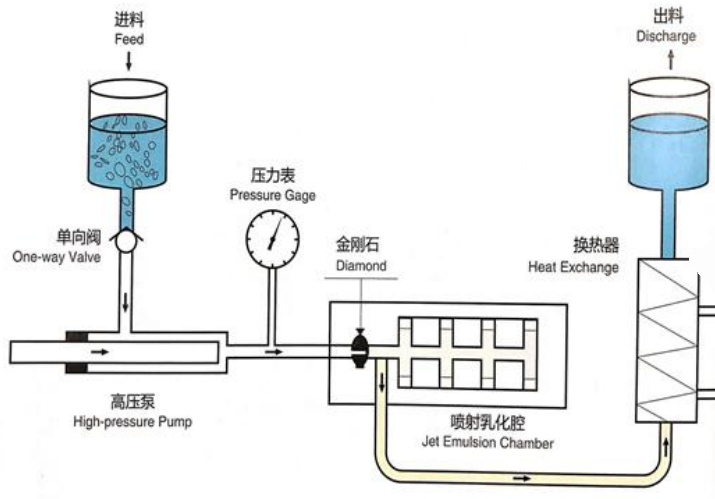
Identified as the Shanghai high technology transformation project

Product range:

- I. High pressure homogenizer (HPH)
- II. API fine powder Jet mill
- III. Nano Membrane liposome extruder
- IV. Nano targeting drug emulsion preparation system
- V. Isolating system

I. High pressure homogenizer (HPH)

Working principle



Product range



Nano-E -3L/Hr.



Mini -12L/Hr.



HPH2000 -220L/Hr



HPH4000 -450L/Hr

2000 –commercial type Homogenizer specifications

Model No.	HP(power)	Max pressure	Max capacity	note
NZ-2000-35	20	35000psi	75L/H	
NZ-2000-30	20	30000psi	180L/H	
NZ-2000-25	20	25000psi	220L/H	
NZ-4000-30	37	30000psi	450L/H	

- Note: these are 4 type of machine, not one machine in 4 pressure.

The **China's First 100% Independent Intellectual Property** Copyrights,
match FDA Rules , Aseptic Commercial Type Homogenizer for Nano
Particle Dispersing and Preparation



Project for **Tofflon 东富龙**

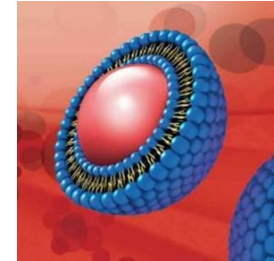


Application

Nano drugs (liposomes, fat emulsion, nano suspension)

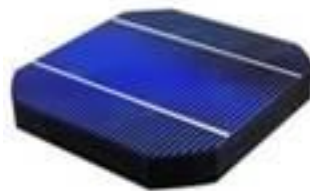
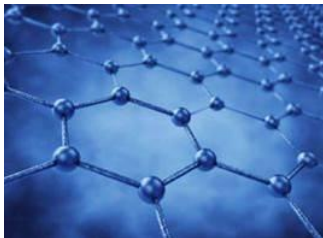


Personal care products
(lipid nanoparticles)



New energy products

(graphene battery conductive paste, solar paste)

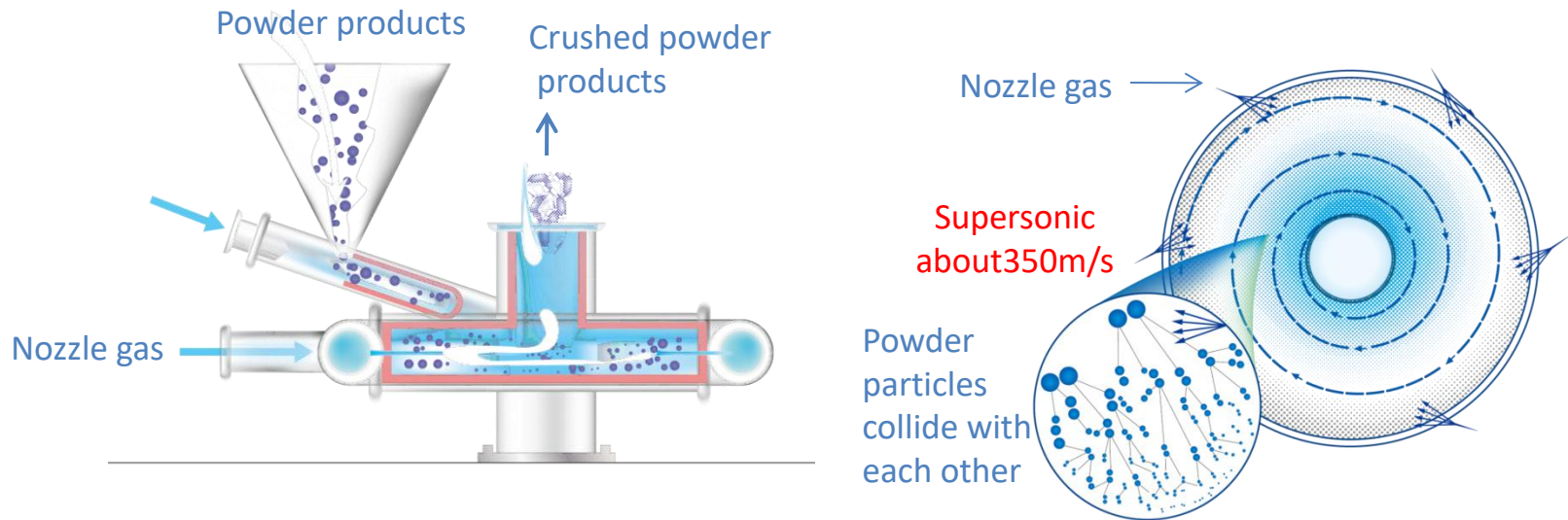


Cell disruption



II. API ultra fine powder jet mill

Working principle



Range



Micron Jet Mill Lab

- 5-50 g/hr
- working pressure: 0~12bar
- gas con: 0.10Nm³/Min@7bar
- gas con: 0.21Nm³/Min@12bar



Micron Jet Mill Pilot

- 5-500 g/hr
- Working pressure: 0~12bar
- Gas : 0.4Nm³/Min@7bar
- Gas : 0.8Nm³/Min@12bar



Micron Jet Mill 4

- 0.5 - 5Kg/hr
- Working pressure: 0~12bar
- Gas: 0.76Nm³/Min@7bar

Range



Micron Jet Mill 6

- 0.5-20 Kg/hr
- working pressure: 0~12bar
- Gas Consumption: 2.1 Nm³/Min@7bar



Micron Jet Mill 8

- 1- 30Kg/hr
- working pressure: 0~12bar
- Gas consumption: 4.56Nm³/Min@7bar

	Micron Jet Mill 12	Micron Jet Mill 16	Micron Jet Mill 20	Micron Jet Mill 24
处理量 Batch	10-50kg/h	30-80kg/h	50-125kg/h	80-200kg/h



Jetmill-6 with SIP



Jetmill-6 with isolator



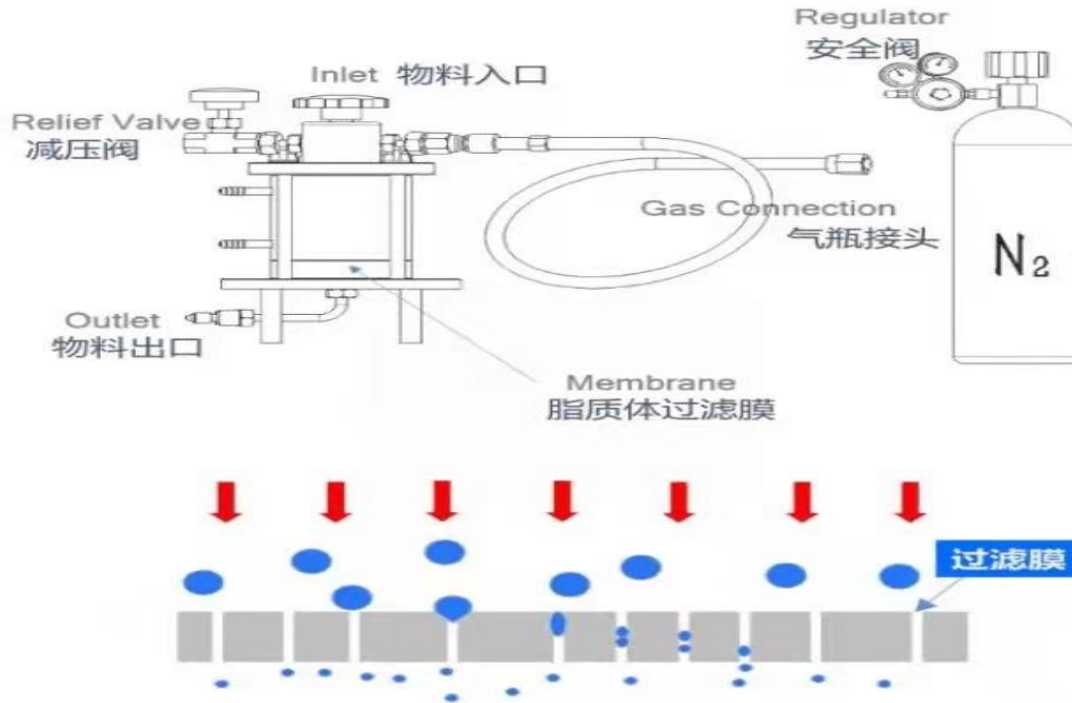
Low temperature jetmill



Jetmill-16



III. Nano Membrane liposome extruder



Filter membrane pore size:
50nm, 80nm, 100nm, 200nm
Membrane size: 90mm, 142mm, 293mm

Liposome extruder machine-01



10ml extruder



800ml extruder



3L 142mm extruding
unit



5L recycling extruding unit

Liposome extruder machine-02



30L/ 60L extruding system

Liposome extruder machine-specification

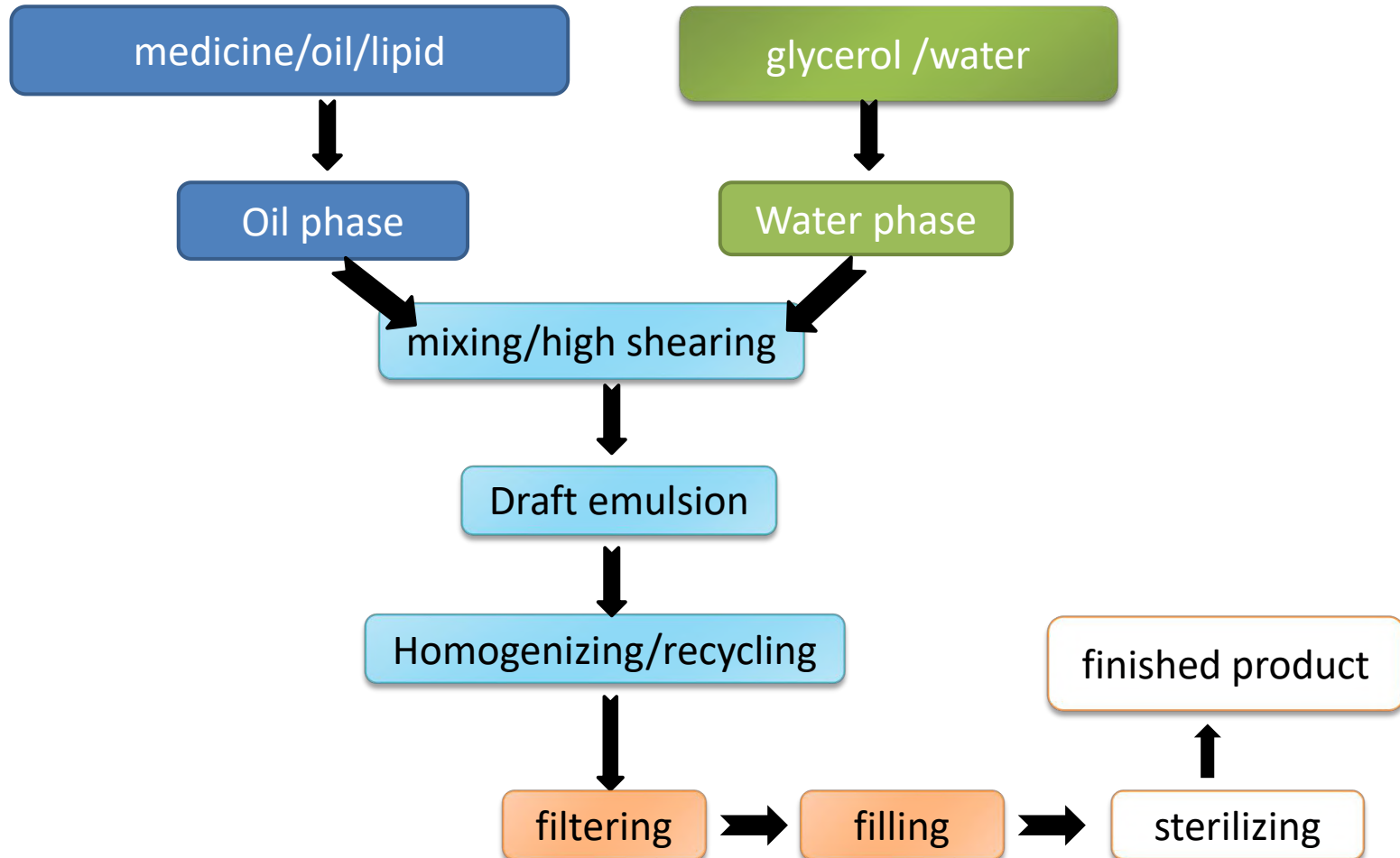
Model 型号	E-25	E-47	E-90	E-142 *	E-293 *
Max. Batch Volume	10 mL	100 mL	800 mL	30L**	80L**
Min. Batch Volume	1 mL	20 mL	100 mL	3L	10L
Max. Pressure	800psi	800psi	800psi	800~8000psi	800~8000psi
Max. Temperature	80	80	80	80	80
Filter Membrane size	25	47	90	142	293
Weight (kg)	3	13	19	/	/

* Production of customized models

** The batch size varies according to the number of extrusion chamber

IV. Nano targeting drug emulsion preparation system

flowchart



Nano targeting drug emulsion preparation system



Nano targeting drug emulsion preparation system



IV. Isolating system

jetmill4



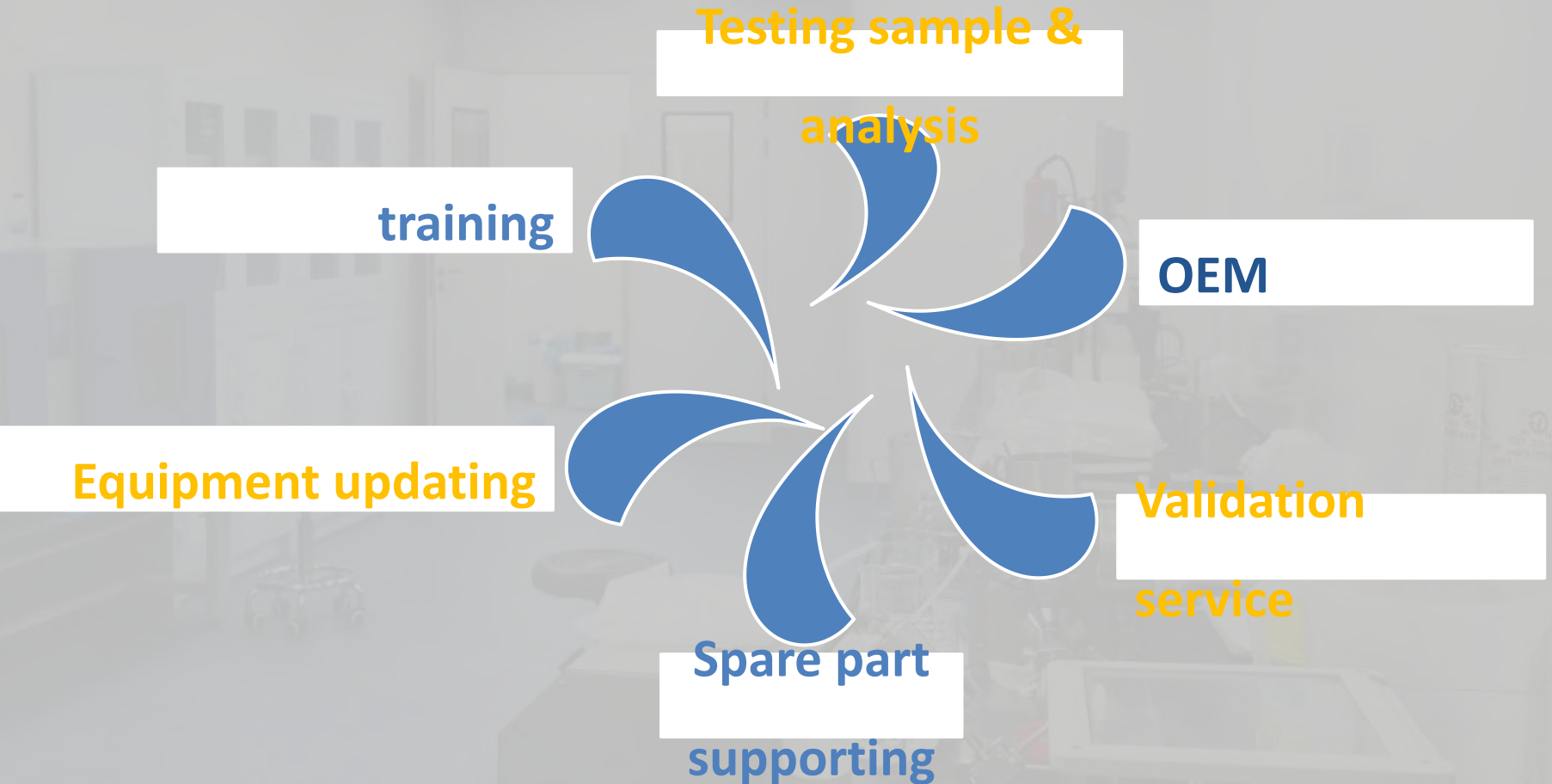
jetmill6



Reference list



Our service



Testing sample &
analysis

training

OEM

Equipment updating

Validation
service

Spare part
supporting

Thanks for watching



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Our factory is near Shanghai airport.
30-40minutes by driving.