

Series-E (Ø20-35mm)

Simple Structure | Easy to Disassemble | Easy to Clean



Modular Design

- Modular design, with a single dispersion shaft, allows for the arbitrary combination of various types of dispersion tools, saving costs

Simple Structure

- The structural design is simple, easy to disassemble and clean, and convenient for maintenance

Special Bushing

- Special Polyflon™ PTFE bushings, featuring excellent wear resistance and chemical stability

High-precision Craftsmanship

- The rigorous manufacturing process combines outstanding performance, highly consistent tolerances and reliable quality
- Made of sanitary-grade stainless steel 316L and treated with electrolytic passivation, it is endowed with excellent corrosion resistance
- The inner and outer surfaces have been subjected to physical and electrolytic composite polishing, resulting in high surface finish, easy cleaning and no residue of materials

Diversification

- Multiple types of dispersion tools are available (standard, sawtooth, fiber, emulsifying, turbulent, etc.) to meet the processing requirements of different samples
- Optional open-type shaft tubes are available, specifically designed for handling high-viscosity, large-volume or temperature-sensitive samples
- Multiple diameter dispersion tools are available (20–35mm), with processing capacities ranging from 10ml to 10L

Disinfection and Sterilization

- It can withstand chemical sterilization, moist heat sterilization and dry heat sterilization

Special geometric stator, paddle/double-toothed blade rotor, large vortex, uniform sample dispersion. Applicable to shearing, dispersing, dissolving, mixing and homogenizing most samples.

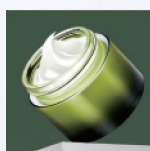
- Food homogenization and crushing, such as meat, vegetables, grains, etc
- Roots, stems, leaves or tobacco of plants, etc
- Dispersion shearing or component extraction of animal tissues
- Cosmetics preparation, emulsification of creams, ointments, oils and water
- Homogenize and crush hard and brittle tablets
- Tablet coating homogenization and pulverization
- Cell depolymerization and DNA analysis
- Dispersion and crushing of pigments, inks, coatings and energy slurries
- Dispersion of petroleum derivatives (such as asphalt)



Pharmaceuticals



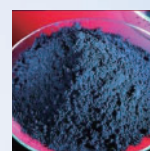
Food



Daily Chemicals



New Material



New Energy

Model	ET20/S20S	ET20/S25S	ET20/S30S	ET20/S35S
Order No.	232054	232530	233030	233530
Volume Range (H ₂ O)ml	10-2000	15-2500	30-5000	50-6000
Stator Diameter mm	Ø 20	Ø 25	Ø 30	Ø 35
Stator And Rotor Clearance mm	0.25	0.50	0.50	0.50
Particle Size of Suspension mm	10-50	15-50	20-70	25-70
Emulsion Particle Size mm	1-10	1-10	5-20	5-25
Maximum Rotational Speed rpm	25000	25000	25000	25000
Maximum Linear Velocity m/s	18.8	22.3	25.8	29.3
Immersion Depth ≥mm	40-170	40-170	40-165	40-165
Effective Length mm	190	190	190	190
Limit Temperature	180°C	180°C	180°C	180°C
PH Range	2-13	2-13	2-13	2-13

Dispersion Tools | Series-E Serrated Type W

Sawtooth and slotted stator, double-toothed blade rotor, high shear force. Applicable to shearing, dispersion, mixing and homogenization of most samples, especially animal and plant tissues and fine fiber samples.

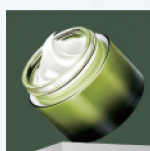
- Roots, stems, leaves or tobacco of plants, etc
- Dispersion shearing or component extraction of animal tissues
- Food homogenization, such as vegetables, fruits, grains, etc
- Cosmetics preparation, emulsification of creams, ointments, oils and water
- Tablet coating homogenization and pulverization
- Textile products, tissues, non-woven fabrics and other fibrous materials
- Preparation of pigments, inks, coatings and energy slurries



Pharmaceuticals



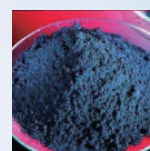
Food



Daily Chemicals



New Material



New Energy

Model	ET20/S20W	ET20/S25W	ET20/S30W	ET20/S35W
Order No.	232055	232531	233031	233531
Volume Range (H ₂ O)ml	10-2000	15-2500	30-5000	50-6000
Stator Diameter mm	Ø 20	Ø 25	Ø 30	Ø 35
Stator And Rotor Clearance mm	0.25	0.50	0.50	0.50
Particle Size of Suspension mm	10-50	10-50	25-75	25-75
Emulsion Particle Size mm	1-10	1-10	5-20	5-20
Maximum Rotational Speed rpm	25000	25000	25000	20000
Maximum Linear Velocity m/s	18.8	22.3	28.8	28.3
Immersion Depth ≥mm	30-170	30-170	30-170	30-170
Effective Length mm	190	190	190	190
Limit Temperature	180°C	180°C	180°C	180°C
PH Range	2-13	2-13	2-13	2-13

The stator adopts a serrated and strip-shaped hole design, and the double-tooth rotor protrudes, providing a large shear force. Applicable to crushing, shearing, mixing and component extraction of animal, plant, fiber and large particle samples with diameters larger than the rotor.

- Roots, stems, leaves or tobacco of plants, etc
- Dispersion shearing or component extraction of animal tissues
- Food homogenization, such as vegetables, fruits, grains, etc
- Homogenize and crush hard and brittle tablets
- Tablet coating homogenization and pulverization
- Textile products, tissues, non-woven fabrics and other fibrous materials



Pharmaceuticals



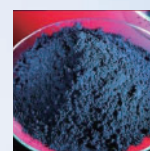
Food



Daily Chemicals



New Material

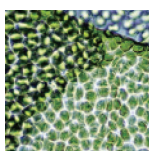


New Energy

Model	ET20/S20W+	ET20/S25W+	ET20/S30W+
Order No.	232033	232533	233033
Volume Range (H ₂ O)ml	10-2000	15-2500	30-5000
Stator Diameter mm	Ø 20	Ø 25	Ø 30
Stator And Rotor Clearance mm	0.25	0.50	0.50
Particle Size of Suspension mm	10-50	10-50	15-60
Emulsion Particle Size mm	1-10	1-10	3-15
Maximum Rotational Speed rpm	25000	25000	25000
Maximum Linear Velocity m/s	18.8	22.3	28.8
Immersion Depth ≥mm	30-170	30-170	30-170
Effective Length mm	195	195	195
Limit Temperature	180°C	180°C	180°C
PH Range	2-13	2-13	2-13

"V"-tooth stator prevents soft/filamentous fibers entangling in dispersion tools. Suits shearing/homogenizing high-fiber samples, stirring/mixing/dissolving high-viscosity ones.

- Pretreatment of animal and plant tissues
- Food homogenization, such as meat, root vegetables, etc
- Tissue paper and textile fiber processing
- Homogenization of tobacco leaves



Plant Tissues



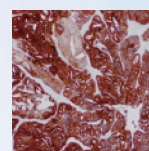
Food



Pharmaceuticals



New Material



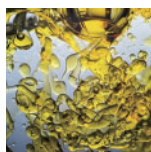
Animal Tissues

Model	ET20/S20F	ET20/S25F	ET20/S30F	ET20/S35F
Order No.	232056	232532	233032	233532
Volume Range (H ₂ O)ml	10–2000	15–2500	30–5000	50–6000
Stator Diameter mm	Ø 20	Ø 25	Ø 30	Ø 35
Stator And Rotor Clearance mm	0.25	0.50	0.50	0.50
Particle Size of Suspension mm	15–70	20–90	20–90	25–110
Emulsion Particle Size mm	5–20	10–30	10–30	15–45
Maximum Rotational Speed rpm	25000	25000	25000	25000
Maximum Linear Velocity m/s	18.8	22.3	25.8	29.3
Immersion Depth ≥mm	40–170	40–170	40–165	40–165
Effective Length mm	190	190	190	190
Limit Temperature	180°C	180°C	180°C	180°C
PH Range	2–13	2–13	2–13	2–13

Dispersion Tools | Series-E Emulsified E

Single/multi-row toothed stator & multi-tooth rotor: finer shear, smaller droplets. Fits low-viscosity fine-particle solutions—especially oil-water mixes—for dispersing/dissolving/mixing/emulsifying/homogenizing; uniform distribution, long stability.

- Preparation of cosmetics, microemulsions or essences
- Biopharmaceutical injection suspensions, vaccines, etc
- Preparation of soluble powders for beverages (tea, coffee, milk)
- Preparation of pigments, inks and paints
- Preparation of biodiesel



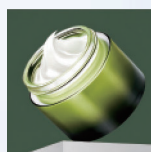
Oil-Water



Pharmaceuticals



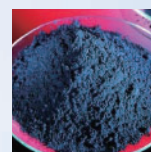
Milk



Daily Chemicals



New Material



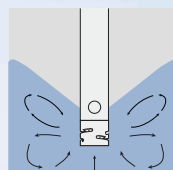
New Energy

Model	ET20/S20E	ET20/S25E	ET20/S30E	ET20/S35E
Order No.	232057	232535	233035	233535
Volume Range (H ₂ O)ml	10-2000	15-2500	30-5000	50-6000
Stator Diameter mm	Ø 20	Ø 25	Ø 30	Ø 35
Stator And Rotor Clearance mm	0.50	0.50	0.50	0.50
Particle Size of Suspension mm	5-25	5-25	5-25	5-25
Emulsion Particle Size mm	1-5	1-5	1-5	1-5
Maximum Rotational Speed rpm	25000	25000	25000	25000
Maximum Linear Velocity m/s	18.5	22.3	28.8	35.3
Immersion Depth ≥mm	40-170	40-170	40-165	40-165
Effective Length mm	190	190	190	190
Limit Temperature	180°C	180°C	180°C	180°C
PH Range	2-13	2-13	2-13	2-13

Dispersion Tool | Series-E Turbulent Type M

Hydrodynamics: stator slant holes & rotor blades make fine eddies—efficient heat transfer, low shear/heat. Removes foam/supernatant particles fast; suits mixing/dissolving medium/high-viscosity samples.

- Suspension treatment of soluble powders of flavorings
- Mixing and dissolving of cosmetic powder, cream and base cream
- Biopharmaceutical injection suspensions, vaccines, etc
- Preparation of pigments, inks and paints
- Preparation of gel and biodiesel
- Mix food paste, oyster sauce and xanthan gum



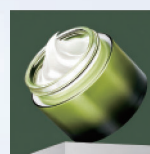
chemistry



Pharmaceuticals



Milk



Daily Chemicals



gel

Model	ET20/S20M	ET20/S25M	ET20/S30M	ET20/S35M
Order No.	232036	232536	233036	233536
Volume Range (H ₂ O)ml	10-3500	15-4500	30-8000	50-10000
Stator Diameter mm	∅ 20	∅ 25	∅ 30	∅ 35
Stator And Rotor Clearance mm	0.25	0.50	0.50	0.50
Particle Size of Suspension mm	20-80	20-100	20-100	30-120
Emulsion Particle Size mm	10-30	10-45	10-45	10-45
Maximum Rotational Speed rpm	25000	25000	25000	25000
Maximum Linear Velocity m/s	21.0	26.0	28.8	35.3
Immersion Depth ≥mm	40-170	40-170	40-165	40-165
Effective Length mm	190	190	190	190
Limit Temperature	180°C	180°C	180°C	180°C
PH Range	2-13	2-13	2-13	2-13