

Series-C (Ø20-35mm)

Double-shaft sleeve design | Wear-resistant | Easy to maintain

Modular Design

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

Special Double-shaft Sleeve

- Compact structure, dual-shaft sleeve design, easy to maintain, and any component can be independently replaced
- Special Polyflon™ PTFE bushings, featuring excellent wear resistance and chemical stability
- Optional Sleeve-Alloy™ alloy bushings are available, which are maintenance-free and meet the requirements of high-speed operation

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	CT20/S20S	CT20/S25S	CT20/S30S	CT20/S35S
Order No.	232071	232571	233071	233571
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	0.30	0.30	0.30
Particle Size of Suspension mm	10-50	10-50	15-50	30-80
Emulsion Particle Size mm	1-10	1-10	5-20	5-25
Maximum Rotational Speed rpm	25000	25000	25000	20000
Maximum Linear Velocity m/s	18.8	22.3	28.8	28.3
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-C 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	CT20/S20W	CT20/S25W	CT20/S30W	CT20/S35W
Order No.	232073	232573	233073	233573
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	15-50	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

Dispersion Tools | Series-C Pre-cut Type W+

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.

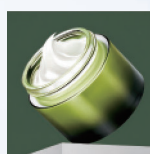
- Roots, stems, leaves or tobacco of plants, etc
- Dispersion shearing or component extraction of animal tissues
- Food homogenization, such as vegetables, fruits, grains, etc
- Homogenize and crush hard and brittle tablets
- Tablet coating homogenization and pulverization
- Textile products, tissues,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



Pharmaceuticals



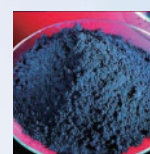
Food



Daily Chemicals



New Material

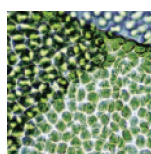


New Energy

Model	CT20/S20W+	CT20/S25W+	CT20/S30W+
Order No.	232074	232574	233074
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



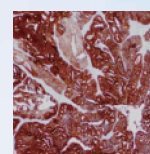
Food



Pharmaceuticals



New Material

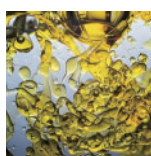


Animal Tissues

Model	CT20/S20F	CT20/S25F	CT20/S30F	CT20/S35F
Order No.	232075	232575	233075	233575
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

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



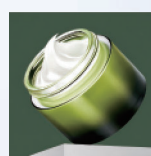
Oil-Water



Pharmaceuticals



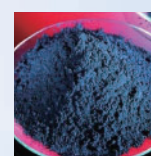
Milk



Daily Chemicals



New Material



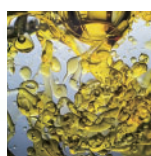
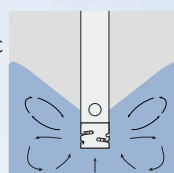
New Energy

Model	CT20/S20E	CT20/S25E	CT20/S30E	CT20/S35E
Order No.	232078	232578	233078	233578
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 Tools | Series-C 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



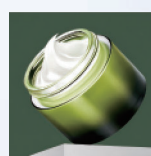
Oil-Water



Pharmaceuticals



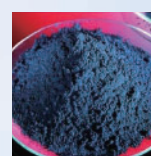
Milk



Daily Chemicals



New Material



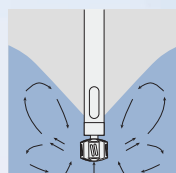
New Energy

Model	CT20/S20M	CT20/S25M	CT20/S30M	CT20/S35M
Order No.	232079	232579	233079	233579
Volume Range (H ₂ O)ml	10-3500	15-4500	30-8000	50-10000
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	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

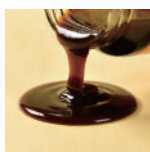
Dispersion Tools | Series-C Honeycomb Type H

It adopts a biomimetic honeycomb-shaped design, composed of multiple precise unit holes, which increases the dispersion area. It can generate a strong fluid effect, forming a dense shear zone, enabling the samples to reach a uniform dispersion state within a short period of time. It is suitable for the pre-treatment of most samples, and is particularly suitable for the dispersion treatment of samples with medium to high viscosity, agglomerated particles, and multiphase mixtures.

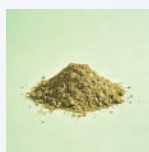
- Biopharmaceutical injection suspensions, vaccines, etc
- Mix food paste, oyster sauce and xanthan gum
- Preparation of soluble powders for beverages (tea, coffee, milk)
- Suspension and stable dispersion of fragrances and powders
- Emulsification and refinement processing of base creams and lotions
- Preparation of pigments, inks and paints
- Preparation of gel and biodiesel



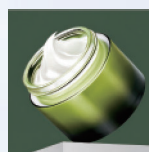
Pharmaceuticals



Food



Additive



Face Cream



Ink

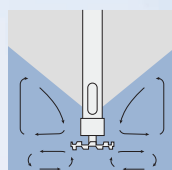
Model	CT20/S25H	CT20/S30H	CT20/S35H
Order No.	232592	233092	233592
Volume Range (H ₂ O)ml	400-5000	500-7000	700-10000
Rotor Diameter mm	Ø25	Ø30	Ø35
Particle Size of Suspension mm	50-80	50-80	50-80
Maximum Rotational Speed rpm	17000	17000	17000
Maximum Linear Velocity m/s	22.3	26.7	31.2
Immersion Depth ≥mm	60-200	60-200	60-200
Effective Length mm	220	220	220
Limit Temperature	180°C	180°C	180°C
PH Range	2-13	2-13	2-13

*The maximum rotational speed depends on the viscosity of the material.
The values in the table are based on water as the reference.

Dispersion Tools | Series-C Dissolved Type D

Flat-disc serrated rotor: rotating, edge turbulence; high-speed shear/impact/crushing/dispersion. Ideal for medium/high-viscosity materials—fast mixing/dissolving/dispersing/refining.

- Mixing and dissolving of beverages, fruit juices and dairy products
- Biopharmaceutical injection suspensions, vaccines, etc
- Preparation of pigments, inks and paints/varnishes, and biodiesel
- Mixing and dissolving of cosmetic lotions, powders and creams
- A mixture of food paste, oyster sauce, molasses and xanthan gum
- Medical gels and other pastes



Ink



Pesticide



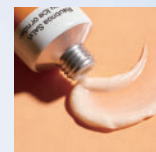
Battery Slurry



Chemistry



Milk



Pharmaceuticals

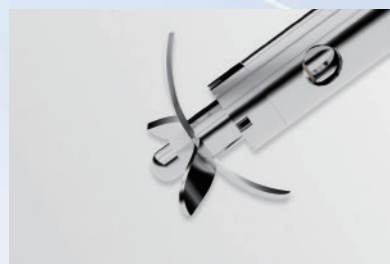
Model	CT20/S20D	CT20/S25D	CT20/S30D	CT20/S35D	CT20/S40D	CT20/S45D
Order No.	232091	232591	233091	233591	234091	234591
Volume Range (H ₂ O)ml	250–2000	350–4000	500–6000	600–8000	700–10000	800–15000
Rotor Diameter mm	Ø20	Ø25	Ø30	Ø35	Ø40	Ø45
Particle Size of Suspension mm	30–50	30–50	30–50	30–50	30–50	30–50
Emulsion Particle Size mm	10–40	10–40	10–40	10–40	10–40	10–40
Maximum Rotational Speed rpm	20000	20000	20000	20000	15000	15000
Maximum Linear Velocity m/s	20.9	26.2	31.4	36.7	31.4	36.3
Immersion Depth ≥mm	40–185	40–185	40–185	40–185	40–185	40–185
Effective Length mm	200	200	200	200	200	200
Limit Temperature	180°C	180°C	180°C	180°C	180°C	180°C
PH Range	2–13	2–13	2–13	2–13	2–13	2–13

*The volume range is based on low-viscosity samples. For rotor diameter selection, please refer to the "Selection Table for Dissolved Type".

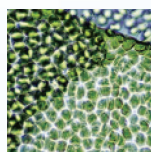
Dispersion Tools | Series-C Broken Type K

Four-edge cross design (2-up/2-down), sharp edges, high-speed cutting, crushing, stirring and mixing. Applicable to strong crushing and homogenization of block and large particle samples. And it can efficiently mix liquid-liquid, dissolve and destroy cells.

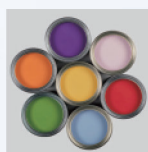
- Roots, stems, leaves or tobacco of plants, etc
- Dispersion shearing or component extraction of animal tissues
- Food homogenization, such as vegetables, fruits, grains, etc
- Homogenize and crush hard and brittle tablets
- Tablet coating homogenization and pulverization



Food



Plant Tissues



Chemical Industry



New Material



Pharmaceuticals

Model	CT20/S35K	CT20/S56K
Order No.	233590	235690
Volume Range (H ₂ O)ml	200-1000	200-2000
Stator Diameter mm	Ø35	Ø56
Particle Size of Suspension mm	100-250	100-250
Emulsion Particle Size mm	50-100	50-100
Maximum Rotational Speed rpm	25000	25000
Maximum Linear Velocity m/s	45.8	73.3
Immersion Depth ≥mm	65-195	65-195
Effective Length mm	215	215
Limit Temperature	180℃	180℃
PH Range	2-13	2-13