



Tissue Grinders



Dounce, All-Glass

Designed primarily for cellular work where the nucleus remains intact after homogenization.

- All-glass construction
- Two pestles are supplied with each complete unit
- Large clearance pestle is used for the initial sample reduction
- Small clearance pestle is used to form the final homogenate
- Replacement components are available and completely interchangeable
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part #	Working Capacity (ml)	Pestle "A" Large Clearance (in.)	Pestle "B" Small Clearance (in.)	Tube Overall (mm)
885300-0000	0.5	.0025-.0055	.0005-.0025	37
885300-0001	1	.0025-.0055	.0005-.0025	88
885300-0002	2	.0030-.0050	.0005-.0025	60
885300-0007	7	.0025-.0047	.0008-.0022	125
885300-0015	15	.0035-.0065	.0010-.0030	157
885300-0040	40	.0030-.0060	.0010-.0030	215
885300-0100	100	.0020-.0100	.0005-.0055	232

DUALL, All-Glass

Combines both conical and cylindrical surfaces to effectively reduce tissue and produce a uniform homogenate. Grinding efficiency is greatly improved when this tube is used.

- This ground glass model is ideal for connective tissue such as muscle, heart and lung
- Construction is strong enough to allow the pestle to be motor-driven
- Pestles are designed to be used with 788000 stirrer adapters
- Replacement components are available and completely interchangeable
- Clearance between pestles and tubes is 0.004" to 0.006"
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part #	Size	Working Capacity (ml)	Pestle Length (mm)	Pestle Shaft OD (mm)	Tubes Length (mm)	Tube Reservoir OD (mm)
885450-0020	20	1	155	6	80	13
885450-0021	21	3	207	6	120	16
885450-0022	22	5	220	8	150	18
885450-0023	23	15	278	10	175	25
885450-0024	24	30	310	10	215	32
885450-0025	25	50	345	16	225	38

* For component parts please contact De-Groot office



DUALL, with Glass Pestles and Plastic-Coated Glass Tube

Similar to 885450 series but with plastic safety coating

- Plastic coating on tube will contain the homogenate if the tube breaks or cracks during motor-driven homogenization
- The coating is transparent, allowing an unobstructed view of the homogenate
- Replacement components are available and completely interchangeable
- Clearance between pestles and tubes is 0.004" to 0.006"
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part #	Size	Working Capacity (ml)	Pestle Length (mm)	Pestle Shaft OD (mm)	Tubes Length (mm)	Tube Reservoir OD (mm)
885460-0020	20	1	155	6	80	13
885460-0021	21	3	207	6	120	16
885460-0022	22	5	220	8	150	18
885460-0023	23	15	278	10	175	25
885460-0024	24	30	310	10	215	32
885460-0025	25	50	345	16	225	38

DUALL, with PTFE Pestle and Glass Tube

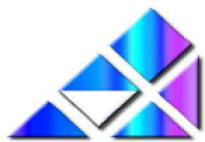
Combines both conical and cylindrical surfaces to effectively reduce tissue and produce a uniform homogenate.

- Grinding efficiency is greatly improved when this tube is used
- This PTFE pestle model is ideal for soft tissue such as brain or liver
- Construction is strong enough to allow the pestle to be motor-driven
- Pestles are designed to be used with 788000 stirrer adapters
- Replacement components are available and completely interchangeable
- Clearance between pestles and tubes is 0.004" to 0.006"
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part #	Size	Working Capacity (ml)	Pestle Length (mm)	Pestle Shaft OD (mm)	Tubes Length (mm)	Tube Reservoir OD (mm)
885480-0020	20	1	155	4.5	80	13
885480-0021	21	3	210	6	120	16
885480-0022	22	5	228	6	150	18
885480-0023	23	15	268	6	175	25
885480-0024	24	30	305	10	215	32
885480-0025	25	50	330	10	225	38

* For component parts please contact De-Groot office



Micro DUALL All Glass

Designed for dispersing small quantities of tissue in buffer solution.

- Working capacity is 200 microliters
- All-glass tube and pestle
- PTFE bearing prevents misalignment and avoids aerosol formation
- Packed in six matched sets per carton
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part #	Working Capacity (ml)	Pestle Length (mm)	Pestle Shaft OD (mm)	Tubes Length (mm)	Tube Reservoir OD (mm)
885470-0020	0.2	75	3	33	8

DUALL, All-Glass with Screw-Cap

An extremely efficient grinder, the DUALL® combines both conical and cylindrical surfaces on a single pestle and tube. These separate areas perform the dual functions of initial grinding in the conical section and final homogenization in the cylindrical section.

- Design innovation on our popular 885450 DUALL® tissue grinders
- PTFE/rubber-lined phenolic screw cap closure permits centrifugation or storage of homogenates without transfer
- Replacement components are available and completely interchangeable
- Clearance between pestles and tubes is 0.004" to 0.006"
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part #	Size	Working Capacity (ml)	GPI Finish	Pestle Length (mm)	Pestle Shaft OD (mm)
885350-0021	21	3	15-415	207	6
885350-0022	22	5	18-415	220	8
885350-0023	23	15	24-410	278	10

* For component parts please contact De-Groot office



DUALL, with PTFE Pestle and Glass Tube with Screw-Cap

An extremely efficient grinder, the DUALL combines both conical and cylindrical surfaces on a single pestle and tube. These separate areas perform the dual functions of initial grinding in the conical section and final homogenization in the cylindrical section.

- Pestle is made of solid PTFE and threaded to a stainless steel shaft
- PTFE-lined phenolic screw cap closure permits centrifugation or storage of homogenates without transfer
- Replacement components are available and completely interchangeable
- Clearance between pestles and tubes is 0.004" to 0.006"
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part #	Size	Working Capacity (ml)	GPI Finish	Pestle Length (mm)	Pestle Shaft OD (mm)
885380-0021	21	3	15-415	218	6
885380-0022	22	5	18-415	228	6
885380-0023	23	15	24-410	269	6

Micro DUALL, All Glass with Screw Cap

- Flat base allows tube to stand upright without support
- Heavy wall construction minimizes breakage
- Capacities shown are without the pestle inserted
- Supplied complete with pestle, tube, phenolic cap and PTFE liner
- Replacement components are available and completely interchangeable
- Clearance between pestles and tubes is 0.004" to 0.006"
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part #	Size	Working Capacity (ml)	GPI Finish	Pestle Length (mm)	Pestle Shaft OD (mm)
885490-0017	17	0.3	13-425	148	6
885490-0019	19	1	13-425	148	6
885490-0020	20	3	20-400	165	9
885490-0021	21	5	20-400	165	6

* For component parts please contact De-Groot office