

## SCIOLOGEX D160/D500 Homogenizers



The Scilogex D160 Homogenizer can rapidly homogenize, disperse, and emulsify samples in 0.1 - 50 ml of liquid or 1-250ml depending on the generating probe. During operation, the suspended material is drawn into the core of the homogenizer by a rotor turning at up to 30,000 rpm. The material is repeatedly cycled through narrow slits in the probe where it is rapidly sheared and disintegrated by high shear. Complete homogenization of tissues (muscle, liver, breast tissue, etc.) is usually achieved in a few seconds. Little, if any, heat is produced during the process.

### Features:

- Use for mixing, emulsification, shredding, or chopping.
- Practical answer for small samples.
- Easy to hold and light weight for one hand operation.
- Generators are made of 316 L Stainless Steel with Teflon bushings.
- Autoclavable stainless steel shafts. Inert to aggressive solutions.
- All shafts are interchangeable shafts and are easily removed for cleanup.
- High speed motor. Speed control from 8,000 to 30,000 rpm.
- Suitable for solvents & abrasive substances.

### Specifications:

Working Volume (ml):	0.1 - 250ml
Operating Environment:	0-40°C, 95% rel. humidity
Motor type:	Universal motor, 130 Watt
Voltage / Frequency:	110V/60Hz
Certified standards:	89/336EEC,72/023/EEC, EMC acc. IEC/EN 61000-6-2 / 3, Safety acc. IEC/EN 61010-2-51
Speed range (rpm):	8,000 - 30,000
Warranty:	2 years
Speed control:	6 position control dial
Noise emission:	< 54 dB(A) at 30,000 rpm
pH Range:	2-13
Dimensions (mm):	250L x 250W x 400H
Weight (kg)	1.6
Fineness, (µm)	Suspensions & Emulsion 10-15 & 1-10

### Ordering Information:

Cat No.	Description
85010101	SCIOLOGEX D160 Homogenizer Package, DS-160/5 5mm dia. generator, flat head-open slot, 50mm immerse length, H-370 stand, for solid/liquid media, volumes 0.1-50ml, 110V, 60Hz
85010201	SCIOLOGEX D160 Homogenizer Package, DS-160/10 10mm dia. generator, flat head-open slot, 115mm immerse length, H-370 stand, for solid/liquid media, volumes 1- 250ml, 110V, 60Hz
85010301	SCIOLOGEX D160 Homogenizer Drive Motor, 110V/60Hz
85010401	SCIOLOGEX H-370 Homogenizer Stand

### Accessories:

18900113	DS-160/5 5mm dia. generator, flat head-open slot, 50mm immerse length for D-160, for solid/liquid media, volumes 0.1-50ml
18900114	DS-160/10 10mm dia. generator, flat head-open slot, 115mm immerse length for D-160, for solid/liquid media, volumes 1- 250ml



The Scilogex D500 Homogenizer has a maximum speed of 29,000 rpm rate, and reduces processing time significantly. Smooth motor drive makes working, very safe and comfortable. An overload protection feature increases the life span of the motor. Smooth acceleration also prevents unnecessary spills. Flexible configuration of different generators and rotors make the D500 highly adaptive to most applications. The generator shaft is constructed of quality 316L stainless steel. Reliable results are assured with extremely high precision and speed. Assembly and disassembly of rotors requires no special tools.

### Specifications:

Sample Volume Range:	1 to 50ml or 10 to 5000ml
Universal Motor:	110V/60 Hz, 500 watts
Variable Speed:	10,000 to 29,000 rpm, incremented by scale
Weight:	1.6 Kg (drive only)
Operating Environment:	0-40°C, 95% rel. humidity
Motor type:	Universal motor, 500 Watt
Voltage / Frequency:	110V/60Hz
Certified standards:	89/336EEC,72/023/EEC, EMC acc. IEC/EN 61000-6-2 / 3, Safety acc. IEC/EN 61010-2-51
Speed range (rpm):	10,000 - 29,000
Warranty:	2 years
Speed control:	6 position control dial
Noise emission:	< 72 dB(A) at 30,000 rpm
pH Range:	2-13
Dimensions (mm):	250L x 250W x 700H
Weight (kg)	9.0 Kg (with stand)
Fineness, (µm)	Suspensions & Emulsion 10-15 & 1-10



### Ordering Information:

Cat No.	Description
85020101	SCIOLOGEX D500 Homogenizer Package, DS-500/1 20mm dia. generator, with S20C/SR20 flat head-open slot coarse generator, 215mm immerse length, for solid/liquid media, volumes 10-5000ml and with H-600 stand, 110V, 60Hz
85020201	SCIOLOGEX D500 Homogenizer Package, DS-500/2 20mm dia. generator, with S20F/ER20 flat head-open slot fine generator, 215mm immerse length, for water in oil or oil in water emulsions, volumes 10- 50000ml and with H-600 stand 110V, 60Hz
85020301	SCIOLOGEX D500 Homogenizer Drive Motor, 110V/60Hz
85020401	SCIOLOGEX H-600 Homogenizer Stand

### Accessories:

18900115	DS-500/1 20mm dia. generator, with S20C/SR20 flat head-open slot coarse generator, 215 immerse length for solid/liquid media, volumes 10-5000ml
18900116	DS-500/2 20mm dia. generator, with S20F/ER20 flat head-open slot fine generator, 215 immerse length for Water in Oil or Oil in Water emulsions, volumes 10-5000ml
18900117	DS-500/5 generator 5mm dia. generator, flat head-open slot, 60mm immerse length for solid/liquid media, volumes 1-50ml
18900118	S20C 20mm open slotted coarse generator
18900119	S20F 20mm open slotted fine generator
18900120	S30C 30mm open slotted coarse generator
18900121	S30F 30mm open slotted fine generator
18900122	S40C 40mm open slotted coarse generator
18900123	SR20 20mm standard rotor
18900124	SR30 30mm standard rotor
18900125	CR20 20mm knife rotor
18900126	CR30 30mm knife rotor
18900127	MR20 20mm mixing rotor
18900128	MR30 30mm mixing rotor
18900129	ER20 20mm emulsifying rotor
18900130	ER30 20mm emulsifying rotor

Generators



18900113



18900114



18900115



18900116



18900117

Generators



18900118



18900119



18900120



18900121



18900122

Rotors



18900123



18900124



18900125



18900126



18900127

Rotors



18900128



18900129



18900130