SCILOGEX 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
- 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:**

<table>
<thead>
<tr>
<th>Cat No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>85010101</td>
<td>SCILOGEX 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</td>
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<tr>
<td>85010201</td>
<td>SCILOGEX 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</td>
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<tr>
<td>85010301</td>
<td>SCILOGEX D160 Homogenizer Drive Motor, 110V/60Hz</td>
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<tr>
<td>85010401</td>
<td>SCILOGEX H-370 Homogenizer Stand</td>
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**Accessories:**

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

- **85020101** SCILOGEX 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** SCILOGEX 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 10-5000ml and with H-600 stand 110V, 60Hz

- **85020301** SCILOGEX D500 Homogenizer Drive Motor, 110V/60Hz

- **85020401** SCILOGEX H-600 Homogenizer Stand

**Accessories:**

- **18900115** DS-500/1 20mm dia. generator, with S20C/SR20 flat head-open slot coarse generator, 215 mm 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 mm 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