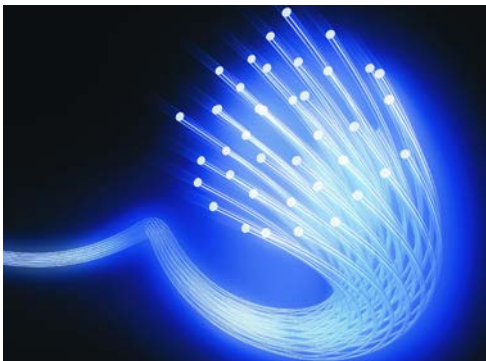
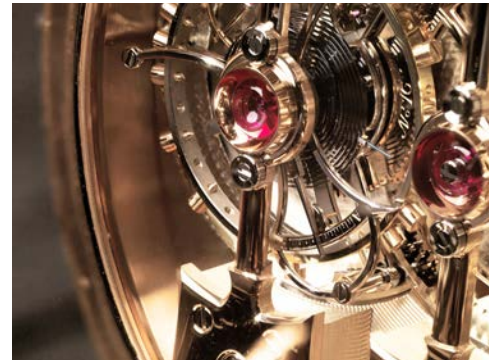


# Grease Testing

Laboratory Instruments for quality control,  
analysis and calibration



## Seta-Shell 4-Ball Lubricant Testers

ASTM D2596, ASTM D2783, ASTM D2266, D4172, CEC L-45-T-93, EN ISO 20623, IP 239, ISO CD 11008, ISO 26422, DIN 51350-6

- Applied loads range up to 800kgF
- Drive speed from 1200 to 1760rpm
- Digital timer and display with selectable range 0.1s to 9999hr
- Digital displays and microprocessor control of Applied Load and Torque (19900-3)
- Automatic Torque limiting and cut-off
- Interlocked guards for maximum safety
- Optional heating pad and controller

The Seta-Shell 4-Ball Lubricant Tester determines the friction properties of extreme pressure oils and greases. Used in tribology research laboratories and in the routine quality control of finished lubrication products.

Visit: [www.stanhope-seta.co.uk/4-ball-lubricant-test-grease-ASTM-D2596.html](http://www.stanhope-seta.co.uk/4-ball-lubricant-test-grease-ASTM-D2596.html)

Seta Part No.	19900-3	19800-7
Speed Range	1200 to 1760rpm	1200 to 1760rpm
Load Range	40 to 800kgF	0 to 800kgF
Timing	0.1s to 9999hr	0.1s to 9999hr
Voltage	220/240V 50/60Hz	220/240V 50/60Hz
Power	2.6kW	2.6kW
Size (HxWxD)/ Weight	169 x 63 x 62cm/150kg	169 x 82 x 62cm/161kg



> 19900-3

## Water Washout Tester (19610-4)

ASTM D1264, IP 215, ISO 11009

- New case design with large access panels for test hub and pump
- Recirculating bypass valve for pre-heating
- Rapid warm up time
- Fully removable pump for servicing
- Integral bath drain
- Separate electronics compartment
- Easy to calibrate

Visit: [www.stanhope-seta.co.uk/3479/Seta-Water-Washout-Tester](http://www.stanhope-seta.co.uk/3479/Seta-Water-Washout-Tester)



> 19610-4

## Dual Water Washout Tester (19650-0)

ASTM D1264; IP 215; DIN 51807-2; ISO 11009

- Twin bearing and housings for duplicate or independent testing
- Two separate water tanks and jets
- All parameters are independently adjustable
- Magnetic bearing drive for easy disassembly and removal
- PLC for an automatic test procedure and display of test parameters
- Spacious and easy to clean water tank
- All water wet parts are resilient to salt water

Visit: [www.stanhope-seta.co.uk/4863/Dual-Water-Washout-Test](http://www.stanhope-seta.co.uk/4863/Dual-Water-Washout-Test)



> 19650-0

Seta Part No	19650-0	19610-4
Rotational speed	600 and 3780rpm (variable options available)	600 ±30rpm
Temperature range	Ambient to 80°C	Ambient to 80°C
Voltage	220/240V, 50Hz	110/120V, 50/60Hz or 220/240V, 50/60Hz (switchable)
Size (HxWxD)/ Weight	60 x 85 x 52cm / 55kg	30 x 40 x 40cm/24kg

## Stanomatic Dual Grease Worker (17790-2 & 17792-2)

ASTM D217, ASTM D7342, IP 50, ISO 2137

- Quick release heavy duty brass or stainless steel worker cups
- Works two grease cups simultaneously
- Auto-stop at up to 99,999 strokes
- 60 ±10 strokes per minute
- Cover and plunger assemblies with 51 x ¼ inch hole perforated plates
- Safety screen with auto shut off
- Large bore cock for thermometer insertion

Two grease working assemblies comprising a heavy duty grease pot with screw lid are mounted on a cast aluminium base by dowel pins and quick release cams. A plunger passes through the lid and is attached to a perforated metal Worker Plate. A large bore grease-cock allows excess air/grease to escape during assembly and insertion of a thermometer.

### Grease Worker with Brass Cups (17790-2)

Visit: [www.stanhope-seta.co.uk/4097](http://www.stanhope-seta.co.uk/4097)

### Grease Worker with Stainless Steel Cups (17792-2)

Visit: [www.stanhope-seta.co.uk/4699](http://www.stanhope-seta.co.uk/4699)



> 17790-2

## Roll Stability Testers

ASTM D1831; MIL-G-10924

- 165rpm
- 100 to 200rpm variable speed control option
- Air bath temperature ranges up to 200°C
- Integral timer
- Four test cylinder capacity
- Polished Stainless steel or Mild Steel cylinder/roller options
- Optional venting hood for ambient tests

Seta offer a range of three roll stability instruments which are ruggedly designed for extended periods of use.

The 19400-5 and 19450-0 instruments allow extended temperature testing up to 200°C with variable speed control available as an option on the 19450-0 model.

The 19400-3 model is suitable for testing up to 100°C.

### High Temperature Roll Stability Tester (19400-5)

Visit: [www.stanhope-seta.co.uk/4875](http://www.stanhope-seta.co.uk/4875)

### High Temperature Roll Stability Tester & Speed Control (19450-0)

Visit: [www.stanhope-seta.co.uk/4887](http://www.stanhope-seta.co.uk/4887)

### Roll Stability Tester (19400-3)

Visit: [www.stanhope-seta.co.uk/1026](http://www.stanhope-seta.co.uk/1026)



> 19400-5

## Seta-FTIR

Comparison of new and used greases supporting the analysis of base fluid characteristics, thickener types and concentration, additives and additive degradation products, oxidation, water, and grease mixtures.

- Small and lightweight
- Designed for field or laboratory use
- Internal 4 hour battery, lab version also available
- Available with general purpose and specific methods
- USB connection to any computer, if necessary

Custom models can be built, please contact Seta for information.



> Seta FTIR Series

## CORROSION

### EMCOR Test Machine (19300-0)

ASTM D6138, DIN 51802, IP 220, ISO 11007

- 8 test positions
- 8 pieces specially treated 1306K/236725 double row self-aligning ball bearings
- 80 rpm  $\pm$ 5
- Digital Control Unit & Timer
- Optional Safety Cover
- Optional Washout Pump & Tubes



> 19300-0

## DROP POINT

### Seta Grease Drop Point Oven (11730-3)

ASTM D2265, ISO 6299

- Aluminium solid block oven
- Six test apertures
- Temperature range 120 to 345°C
- Illuminated chambers



> 11730-3

## PENETRATION

### Setamatic Penetrometer (17500-0)

ASTM D1403, ASTM D1831, ASTM D217, ASTM D7342, ASTM D937, BS 2499 Part 3, IP 179, IP 310, IP 50, ISO 2137

- Microprocessor controlled automatic penetrometer
- Penetration range 0 to 630 Pen (63mm)
- Timer range 1 to 9999 seconds
- Automatic plunger release and retention
- Flexi light & inbuilt spirit level
- RS232C interface

### Semi-Automatic Universal Penetrometer (17190-3)

- Penetration range 0 to 640 Pen (64mm)
- 5, 8, 10, 12, 30 and 60 second timer settings
- Solid state timer
- Automatic plunger release and retention
- Flexi light & inbuilt spirit level



> 17500-0

> 17190-3

### Seta ASTM-IP Cone (18000-0)

ASTM D1403-IP 310, ASTM D217-IP 50, ASTM D937-IP 179

- Brass (hollow) conical body
- 3.17mm (1/8 inch) stem diameter
- 102.5g  $\pm$ 0.05g mass



> 18000-0

## SEPARATION

### Seta Pressure Bleeding Test Cell Type B (20990-0)

ASTM D1742, FTM 791 322

Comprises a tightly fitting cap and cover which contains a 75 $\mu$ m (No. 200) sieve strainer, a funnel for collecting separated oil and a 25ml beaker for retaining the oil.



> 20990-0

> 20900-0

### Seta Grease Separation Apparatus (20900-0)

BS 2000 Part 121, DEF 222A CS 3107, DIN 51 817, IP 121

Comprises a stainless steel separation cup with metal gauze cone, 100g stainless steel weight and an oil cup.