

## PENETRATION



K18190 Mechanical Grease Worker

### Ordering Information

#### Catalog No.

#### Mechanical Grease Workers

|               |                                  |
|---------------|----------------------------------|
| <b>K18100</b> | Single-Unit Model, 115V 60Hz     |
| <b>K18110</b> | Single-Unit Model, 220-240V 50Hz |
| <b>K18119</b> | Single-Unit Model, 220-240V 60Hz |
| <b>K18190</b> | Double-Unit Model, 115V 60Hz     |
| <b>K18191</b> | Double-Unit Model, 220-240V 50Hz |
| <b>K18192</b> | Double-Unit Model, 220-240V 60Hz |

#### Manually Operated Model

|               |                        |
|---------------|------------------------|
| <b>K18000</b> | Grease Working Machine |
|---------------|------------------------|

For Quarter-Scale and Half-Scale Grease Workers, refer to page 27.

#### Accessories

|               |                                                                                                                               |
|---------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>K18022</b> | Dial Thermometer<br>Inserts in petcock of steel grease worker.<br>Supplied with adapter.                                      |
| <b>K18021</b> | Overflow Ring<br>Collects displaced grease during<br>penetration measurements.                                                |
| <b>K18020</b> | Steel Grease Worker<br>Complete per ASTM specifications.<br>Consists of cup, cover, plunger and vent cock.                    |
| <b>K18030</b> | Steel Grease Worker<br>Similar to K18020 above, but with 270-hole plunger<br>plate per FTM 791-313 (AN-G-15) specifications.  |
| <b>K18028</b> | Cover Assembly<br>Replacement cover assembly for steel grease worker.<br>Includes vent cock, plunger plate, shaft and handle. |
| <b>K18029</b> | Grease Cup                                                                                                                    |
| <b>K18023</b> | Blank Lid, with seal<br>For ASTM Steel Grease Worker.<br>Use when heating samples prior to test.                              |

### Grease Workers

- Conform to ASTM D217 and related specifications
- Mechanical and manually operated types
- Single and double-unit models

**Mechanical Grease Workers**—For “worked penetration” and “prolonged worked penetration” tests to determine consistency of lubricating greases. Consists of single or dual steel ASTM grease workers mounted on a sturdy base and driven by a powerful gear reduction motor. Meets ASTM specifications for stroke length and rate. Equipped with a presetting electronic counter that automatically shuts off the drive motor after any desired number of strokes up to 99,999. Steel grease workers have threaded cup and cover, and steel plunger plate with shaft and handle that connects to eccentric cam on drive unit. Accessory dial thermometer inserts in plated vent cock. Spring loaded tightening clamps hold grease workers securely on base, and steel pins in base facilitate disassembly of grease workers after testing.

**Manually Operated Grease Worker**—Hand lever operated grease working machine designed for short duration “worked penetration” tests on lubricating greases. Consists of one steel ASTM grease worker with hand lever mechanism mounted on a sturdy steel base. Spring loaded tightening clamps hold grease worker securely on base, and steel pins in hand lever upright support facilitate disassembly of grease worker. Base plate is drilled at corners to allow for bolting to table top.

### Specifications

Conforms to the specifications of:

ASTM D217, D4950; IP 50; ISO 2137; DIN 51804; FTM 791-311, 791-313\*

\*Requires substitution of 270-hole grease worker (K18030)

Drive Motor: fan cooled gear reduction type, ¼hp (single-unit model)  
or ½ hp (dual-unit model)

Electrical Requirements: **C** **E**

Mechanical Grease Workers:

115V 60Hz, Single Phase, 3A

220-240V 50/60Hz, Single Phase, 1.5A

### Included Accessories

Mechanical ASTM Steel Grease Worker (1 or 2)

### Dimensions l×w×h,in.(cm)

Mechanical Grease Workers:

Single-Unit: 10×13½×14¼ (25×34×37)

Double-Unit: 14×13½×14¼ (36×34×37)

Manually Operated Grease Worker: 30×10×15½ (76×25×39)

Net Weight:

Mechanical Single-Unit: 106 lbs (48.1kg)

Mechanical Double-Unit: 139½ lbs (63.3kg)

Manual: 21 lbs (9.6kg)

### Shipping Information

Shipping Weight: Single-Unit: 141 lbs (64.0kg)

Mechanical Double-Unit: 171 lbs (77.6kg)

Manual: 28 lbs (12.7kg)

Dimensions: Mechanical: 4.2 Cu. ft.; Manual: 2.7 Cu. ft.