



H-4185

Horizontal Sample Ejector— H-4185

Horizontal Sample Ejector, 220V 50/60Hz— H-4185.4F

Hydraulically driven horizontal sample ejector designed for rapid ejection of 3" (76.2mm) samples from 30" (762mm) and 36" (914mm) long, thin-wall sample tubes. Comes with (1) sample "V" trough to support ejected samples. Overall dimensions w/o sample trough are: 84" (2134mm) L x 23" (584mm) W x 18" (457mm) H. Shipping wt. 340 lbs (154kg)

"V"-shaped Sample Trough— H-4185.VT

Round Sample Trough for Soft Soils— H-4185.RT

Conversion Kit for 2" Sample Tube— H-4185.2

Conversion Kit for 2-1/2" Sample Tube— H-4185.3

Harvard Miniature Compaction Apparatus— H-4165

Used for moisture density tests using small samples, its compaction action duplicates the kneading action of a sheepfoot roller. Mold is 1-5/16" (33mm) ID by 2.816" (71mm) H. Unit is designed so collar remover and specimen ejector are consolidated into one piece.

Set includes specimen ejector, collar remover with spacer plate, mold holder, 1/454 cu. ft. (129m³) volume mold and collar, compaction tamper with 20 lb. (9.07kg), 37.5 lb. (17kg), and 40 lb. (18.2kg) spring and operating instructions. Mold is machined from seamless tubing. Unit weight in pounds per cu. ft. m³ and the net weight of a compacted specimen in grams are figuratively equal. Shipping wt. 28 lbs. (12.6kg).



H-4165

Individual Components

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| Mold assembly | H-4165.15 |
| Tamper assembly | H-4165.16 |
| 20 lb. spring | H-4165.20 |
| 37.5 lb. spring | H-4165.375 |
| 40 lb. spring | H-4165.40 |

Relative Density of Cohesionless Soils Apparatus—

230V 60Hz, 12 amps 1ph AC— H-3750.2F

230V 50Hz, 12 amps 1ph AC— H-3750.5F

Apparatus determines the relative density of cohesionless, free-draining soils and provides well-defined results on soils that do not respond well to conventional moisture-density impact compaction testing. Soils for which this method is appropriate may contain up to 12 percent of soil particles passing a No. 200 (75µm) sieve, depending on the distribution of particle sizes, which causes them to have free-draining characteristics. Relative density of cohesionless soils uses vibratory compaction to obtain maximum density and pouring to obtain minimum density. Complete set includes: Vibrating table H-3756.2F, relative density mold sets H-3757 and H-3758 and relative density gauge set H-3759. Meets ASTM D4253, D4254. Shipping wt. 925 lbs. (420kg)

Pouring Funnel Set— H-3750FS

Used for filling loose 3/8" (9.5mm) or finer soils into relative density mold. Includes two 6" (152mm) dia. x 12" (305mm) long metal cylinders, each with a funnel.

H-3750.2F
H-3750.5F



Individual Components

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| Vibrating Table, 230V 60Hz 12 amps 1ph | H-3756.2F |
| Vibrating Table, 230V 50Hz 12 amps 1ph | H-3756.5F |
| 0.1 cu. ft., Relative Density Mold Set | H-3757 |
| 0.5 cu. ft., Relative Density Mold Set | H-3758 |
| Relative Density Gauge Set | H-3759 |

Vibration Indicator, Tachometer Type— H-3753

Precision tachometer is pen size to allow accurate readings even on hard-to-reach equipment. Scale gives readings from 2,000 to 21,000.



H-3753