ALLEGHENY SCALE MODELS

1/4" Scale Detail Kits - Western Scale Model Descriptions
April 25, 2024

Western Scale Models

L-1	10-foot Band Saw	10-foot Sumner Iron Works band-saw The prototype saw stands over 25' tall, uses an 18" saw blade 60'6" long, and can handle logs up to 8' in diameter. It was built in 1929 for the Pope and Talbot Lumber Company mill at Port Gamble, Washington. In 1939, it was moved to St. Helens, Oregon, for the the McCormick Lumber Company and finally sold to Boise-Cascade Lumber Company where it was used until 1977. Today, the band-saw is on display at Camp 18, 60 miles west of Portland, Oregon. The kit includes 49 highly detailed white metal castings made from a high strength lead free pewter allow, brass wire, a 15" wide (5/16") photoetched stainless steel saw blade 16" long, and detailed instructions with AutoCAD drawings for easy assembly. Kit includes a fixture (jig) that allows easy assembly of the top wheel which has 36 spokes.
L-3	Twin Cylinder Steam Engine	This steam engine powers the headrig at the Hull Oakes Lumber Company sawmill in Monroe, Oregon. It was built in 1906, has two cylinders 16" in diameter with an 18" stroke. Its pulley is 8' in diameter. The engine is 13' long and 10'5" wide. The model features every detail of the Hull Oakes engine including the cement footing, complete lubrication system on the O scale model, steam and exhaust pipes, a Gardner fly-ball governor, and complete installation instructions.
L-3/Custom	Ames Single Cylinder Steam Engine/blank box	This is a specially produced kit for a single cylinder version of the L-3 Twin Cylinder Steam engine kit. It includes a hand written nore from Bill Gustafson who produced the Western Scale Model kits to the customer he prepared the kit for.
L-3L	Twin Cyinder Steam Engine Flat Car Load	This steam engine kit was specifically developed to be used on a flat car. The kit comes in major subassemblies with complete instructions for accurately loading the parts onto your flat car. The castings have been redesigned to be used as a flat car load with the correct bolts, blocks, tie downs, and crates for small parts, along with the piping and fittings that would be used to install the engine. The flat car is not included with the kit.
L-6	Vertical Steam Engine	A small vertical steam engine modeled after a New York Safety Steam Power Company steam engine which is in our Western Scale Models shop. The engine has a 4" bore and 6" stroke and stands almost 6 feet tall with governor. It is the type of steam engine found everywhere in the late 1800's and early 1900's before electricity became the main source of power. The vertical steam engine takes very little room and could power a small machine shop or industrial site. If you don't have an indoor site for the engine have one for sale on the loading dock of your local mercantile store.
L-9	Pacific Coast Log Carriage, with steam feed	A Pacific Coast 78", 3 rail, 8 axle, 4 knee log carriage to be used with our 10-foot band saw. The kit includes the steam drive cylinder (shot gun drive) with valves and control arms. The carriage is 28' (7") long with a 44' (11") long steam cylinder. The complete carriage assembly requires 22-24".

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M-1	Three Working Mine Ore Cars - Two Different Mine Figures	Kit includes three highly detailed mine ore cars. The O scale ore cars have an operating front gate. Includes unpainted 2 mine figures, one has a hard hat and carbide light and is in a position to push an ore car. The other miner is in position to empty an ore car.
M-5	Jamison Creek Power Station	The prototype Jamison Creek Power Station, located in the northern Sierra Nevada Mountains of California, is similar to many small plants built at the turn of the century in the mountainous regions of the western United States. This power plant used a 6' diameter Pelton waterwheel to drive a 550 kW Allis Chalmers dynamo to supply electric power to a 40 stamp gold mill and the surrounding community of Johnsville. Large openings at either end of the structure (for ventilation of equipment) allow easy viewing of the interior. The kit consists of four dozen highly detailed white metal castings include a Pelton waterwheel, 6' diameter "wood" pulley, complete dynamo with exciter, power panel, bearings, footings, etc. The building is assembled from basswood and has a removable corrugated metal roof. The 38-page instruction booklet includes 23 figures, full size instructions of machinery with exploded views, and a description of machine operation and a short
M-6	Allis Chalmers Dynamo	A dynamo is a machine for the production of electric current. The Wetsrern Scale Models kit is modeled after the 550 kW Allis Chalmers dynamo found in the Jamison Creek Power Station at Plumas-Eureka State Park in eastern California. It is a rotating-field alternating current dynamo with a small direct current motor or exciter to produce direct current to magnetize the dynamo field magnets. Kit includes 16 detailed white metal castings with complete instructions. Completed dynamo makes an excellent flat car load. The dynamo can also be used for traction layouts as they were used to generate electric power in traction substations.
M-14	Pelton Water Wheel	The Pelton waterwheel is an iron wheel with a series of buckets, each divided by a wedge in the center that divides a stream of water aimed at the buckets. Efficiencies as high as 90% can be obtained from such waterwheels. The Pelton waterwheel could be found driving machines throughout the western United States ranging in size from home sewing machines to the largest industrial machines. Kit has 7 white metal castings which include a 6' diameter waterwheel, bearings, wood frame, and water nozzle with gate valve and wheel. Since waterwheels varied in size from a few inches to 30 feet in diameter, these can be used in any scale depending on the size needed.
M-16	Blacksmith Shop	Our blacksmith shop is typical of those found in small industry, branch line service, mining, and logging operations. The kit interior includes forge/hearth with hood and chimney, bellows, anvil, slack tub, swage block, leg vise, post drill press, foot-treadle grindstone, mandrel, complete set of blacksmith tools, with tongs hammers, etc., working door hinges and a blacksmith figure working at the hearth. Kit has over 100 white metal castings, basswood strips, Grandt Line shingles, chain, simulated coal, a 12 volt grain of wheat light for hearth fire and much more.
M-18	Blacksmith Forge/Hearth Set	Forge/hearth with hood and chimney, bellows, anvil, and slack tub to enable you to put a blacksmith in any building.
M-20	Blacksmith Equipment	This kit includes 3 of the essential pieces of equipment needed by every blacksmith. Highly detailed white metal castings allow assembly of a leg vise, post drill press, and foot-treadle grindstone. This equipment could also be found in any machine shop, railroad yard, logging camp, or farm.

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M-22	Blacksmith Tools	Includes many of the tools necessary to setup a blacksmith shop. Kit contains an anvil, slack tub, swage block, mandrel, hammers, tongs, fire tools, trash can, buckets, and a blacksmith tool table. Includes a total of 29 separate items.
M-27	Two Ore Bin Gates with Plans for Ore Bin	Material to assemble two ore bin gates. Each gate includes 7 white metal castings and wire. One gate is required for each ore feeder for a bank of 5 stamps. Plans and templates are included for assembly of an ore bin to be used in a mill building. Wood for the ore bin is not included since the length of the ore bin will vary from mill to mill.
M-31	75 HP Electric Motor	Large electric motors began to be used in the 1890's. In mining they proved to be more efficient than Pelton waterwheels and had a greater pumping capacity and were easier to maintain than the old Cornish pumps. Consists of 8 white metal castings and comes with a switch panel.
M-49	Assortment of 100 Pulleys & Bearings	Miscellaneous assortment of pulleys, bearings, flat boxes, hangers, stands to use in mills, machine shops, sawmills, etc. Excellent for scratch building or to use as clutter. Can be used in multiple scales.
M-53	Radial Drill	The radial drill press was purchased second hand for the Sierra Railroad shop around 1900. The kit includes 36 detailed white metal castings including overhead drive pulleys, belt material, wire, and a 13 page instruction booklet with complete description of the drill press and how it works, detailed AutoCAD drawings, several pictures of the prototype drill including a color picture for paint reference.
M-54	McCabe Lathe	McCabe Heavy Duty Double Spindle Lathe The lathe was purchased second hand in 1911. It is 17 feet long, the bed is 30 inches wide, and the faceplate is 45 inches in diameter. The kit includes 47 white metal castings including overhead pulleys, belt material, and a 17 page instruction booklet with several AutoCAD drawings. The model needs a floor space of 1 1/2" x 4 3/4"
M-55	Car Wheel Borer	Belmont-Miles Car-Wheel Borer The car-wheel borer was purchased second hand for the Sierra Railroad shop in 1909. The kit consists of 34 detailed white metal castings including overhead drive pulleys, belt material, wire, and chain. The 12 page instruction booklet includes detailed AutoCAD drawings as well as a complete description of how the machine is used. A color photograph is included for paint reference. The models stands 2 1/8" high and needs a floor space of 2"x2 1/2". This machine would be found wherever freight or passenger car wheels were repaired.
M-56	Wheel Press	Prototype by Niles-Bement-Pond Tool Company This 48-inch, 200-ton hydraulic car wheel press was purchased in 1913. The model includes a swing post crane, differential chain hoist, and ceiling hardware. The kit includes 56 detailed white metal castings, belt material, wire, chain, and a 16 page instruction booklet with detailed AutoCAD drawings and a description of how the machine is used. The model stands 4 1/4" high but the post crane can be modified to reduce model height if necessary. A floor space of 2"x4 1/4" is required.
M-63	28" Engine Lathe	Niles Tool Works Lathe Made by the Niles Tool Works Co., Hamilton, Ohio, the lathe has a 12’ bed. This is one of the most common types of lathes made.

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M-66	Shop Heater Crane	Shop Heater and Double Beam Overhead Traveling Crane A shop heater with simulated fire and an overhead traveling crane with a differential chain hoist used over the large double spindle lathe. The crane takes a ceiling space of 3" X 4".
M-67	Planer	Powell Machine Co. Planer This is the largest machine in the Sierra Railroad machine shop. The bed of the planer is 20' long with an overall width of 7' and height of 10'. In O scale this is 5" X 1 3/4" X 2 1/2" high. As you can see from the picture, this is an extremely detailed model.
M-69	Grinder, Drill Press & Hacksaw	This kit reproduces three of the smaller machines in the Sierra Railroad machine shop. These are a pedestal grinder with two grinding wheels, a post drill with double back gears, and a power hack saw which is a "Marvel" Draw-Cut hack saw with a 6 3/4" stroke. All three are powered by an overhead belt drive. The pulleys and hangers for the overhead belt drive countershaft for each machine is included in the kit.
M-72	Machine Shop Small Tools and Accessories	This kit fills all of the space between your machines to make your machine shop an active place of business. It includes work benches, tables, shelves, small tools such as files, wrenches, drills, hammers, oil cans, vise, plus hardware, barrels, buckets, and cans. Over 45 pieces of shop work are cast in place on shelves and work benches. In addition, empty shelves and work benches are included if you want to add your own clutter. Forty separate castings of "clutter" are also included.
MSc-1	Machine Shop Mini-Scene	This kit comes as a complete scene with everything you need to finish a small machine shop. It includes plans for two types of shops, (1) a shop along a building wall using a 2" X 12" space or (2) a small building 5" X 6" in size. Complete plans and templates are given for the small building but you supply your own wood. We tell you what you need and how much to buy. The kit comes with 2 different lathes, a grinder, drill press, hacksaw, motor, ceiling overhead line shaft and countershafts with belt strikers, leg vise, shop heater, work benches, tables, cabinet, chain hoist on "I" beam, shelves, small tools including files, wrenches, drills, hammers, oil can, buckets, barrels, drums, and over 80 pieces of shop "clutter", some cast in place and as many separate castings.
SE-1	Stamp Gold Mill with Complete Interior Detail Kit	Our 10-stamp gold mill is typical of the hundreds of small stamp mills found in western mining districts. We have attempted to make the most complete mill kit possible in the smallest space so that more modelers will be able to incorporate this model into their mining scenes. The O scale mill is 9 1/2" wide by 14" deep. The small office is on the left side of the mill and is 4 1/2" X 3 3/4". The kit includes all of the equipment for a 10-stamp mill plus a horizontal brick boiler and a twin cylinder steam engine to power all of the mill equipment. The kit also includes ore cars, figures, pulleys, belting, and laser cut stairs. We have also included a small office for the foreman to supervise mill activities. It includes a roll top desk, chair, file cabinets, a safe to keep gold bullion or amalgam before treatment, pot-belly stove, books, coat rack wall clock, coffee pot, coffee cup, kerosene lantern, and