B-Class 28Ton Shay - 2011 Edition

The most widely used geared locomotive the "Shay locomotive" was invented by a logger Ephraim Shay who wanted to find a way to facilitate logging operations. Instead of using horse drawn skids or river floats he developed a flat car powered by a vertical two cylinder steam engine, running on rails. In 1884 he consulted with a machinery builder, Lima Machine Works in Ohio which designed the first 3 cylinder B-type Shay locomotive named in his honor. The concept gained tremendous popularity and subsequently 2,770 Shay locomotive were produced by the company known as Lima Locomotive Works.

The operation of Shay locomotives was not limited to any region. In fact many Lima Shays were exported for use around the World. In the early 1890's the Alishan Forestry Railway in Taiwan was constructed by the Japanese Colonial Government to facilitate logging of the local forestry resources. The Railway acquired 20 Shay locomotives, eight 18 ton-, and twelve 28 ton versions. Today several of them are preserved in running and static condition. Aster Hobby Co. Inc. released the first model of a 28 ton Alishan Shay in 1978. The redesigned 2011 model features improved detail and machining, butane firing and a axle driven feed water pump. The Alishan Shay was available as a kit and currently one (1) factory built remains in our inventory.

Specifications

Scale/Gauge	1/22.5 "G gauge"
Weight	3.5kg / 7.7 lbs
Length	435mm / 17.1 inches
Width	97mm / 3.8 inches
Height	145mm / 5.7 inches
Wheel Arrangement	BB(0-4+0-4)
Driving Wheel	cast iron dia 30mm
Axle Driven Pump	fitted （Bore 3.8mm × Ram Stroke 6mm)
Cylinder	Bore 9mm × Stroke 10mm (PB)
Valve Gear	Stephenson's valve gear
Boiler Type	Center flue type with super heater
Water Capacity	150cc
Boiler Fittings	2 X SAFETY VALVES, PRESSURE GAUGE, WATER GAUGE, REGULATOR VALVES, BY-PASS VALVE
Lubricator	ROSCOE DISPLACEMENT TYPE
Tender	HAND OPERATION PUMP (BORE 11 mm X STROKE 12 mm)

Water Tank Capacity	400cc
Fuel	Butane
Capacity	37cc
Minimum Radius	1.5m / 5 feet

Extra Gas inlet

Option knucklecoupler