



# DAWSON

## INNOVATIVE PILING EQUIPMENT

HPH1200 Job Example – Timber bridge replacement with piles driven free hanging, some raking. Vale of Rheidol, Wales



The HPH1200 Hydraulic Hammer was used to build the new Rheidol river bridge on the Vale of Rheidol railway in Wales, with specially imported greenheart timber from Guyana. The 2ft gauge railway runs from Aberystwyth to Devils Bridge and was built early this century purely for tourism. The old bridge structure in pitchpine had deteriorated beyond repair. The new £110,000 bridge designed by C.D. Gray & Associates, has six spans.

Contractor, Lakesmere Marine, who built the new bridge, chose the HPH 1200 Hydraulic Hammer because of its compact size, weight and its high energy transfer from ram to pile. This enabled them to drive raking and vertical timber piles adjacent to one another using an NCK Pennine crane operating from alternate sides of the river.

Raking piles were driven free hanging by utilising a three legged steel wire rope sling, with the third 'odd' leg attached to the bottom of the hammer casing. The standard hammer leg inserts were replaced with simple boxed guides for this application.