

Railroad application

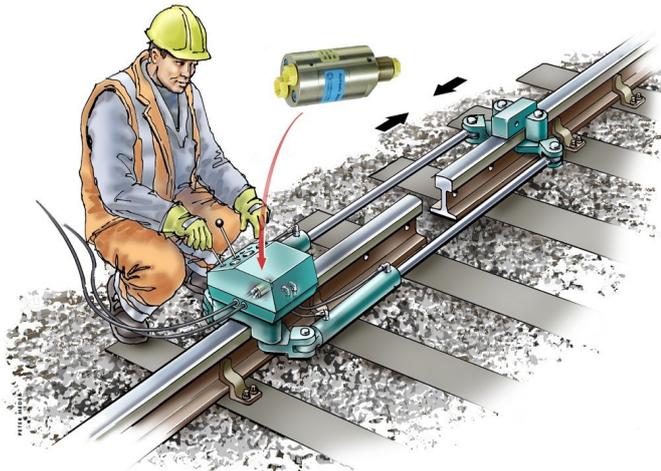
Working on the railroad takes tough tools

The characteristic “clickety-clack” sound from a rolling train is well known. The sound is made when the wheels are passing over the gaps between the rails. The gaps are necessary to allow for the rails to expand in hot weather. Without the gaps there is a risk that the tracks will distort too much in very hot weather, giving rise to a so-called “sun kink” or a buckling which can cause trains to derail.

The rail gaps have disappeared on most modern railroads. Nowadays, seamless continuous welded rails are used, allowing for much higher train speeds and better comfort. The rails will still expand in hot weather, but as the rails are stretched when laid, the expansion will be absorbed.

The miniBOOSTER is the right tool for stretching rails. In combination with a hydraulic rail stretcher, the miniBOOSTER delivers the massive power so that the stretching and welding job can be done fast and efficiently.

Most standard hydraulic pumps provide pressures of around 120-160 bar, which is not sufficient for use in portable hydraulic equipment for railroad repair and maintenance. The miniBOOSTER is a handy hydraulic power booster that increases the hydraulic pressure of up to 700 bar. The higher pressure makes it possible to use smaller tools more handy for maintenance work at hard-to-reach and remote places.



Highly specialized machinery is taken into action when working in the enormous amounts of pressure it takes to stretch rails.

Light and portable

When working with railroad maintenance it is not always possible to get close to the work site. Maybe the tracks are missing or damaged so even railroad-based maintenance vehicles

cannot get close to where the maintenance work must be carried out. In these situations, it is important that the maintenance tools and equipment are light-weight and portable enough to be carried to the site. Also, it is important that the equipment is as compact as possible and can be stored in a truck. The miniBOOSTERs small dimensions and light-weight construction make it highly portable, and ideal for railroad maintenance work.



A super efficient portable unit will intensify your low pressure up to 2000 bar allowing really heavy work to be done.

Crimping, cutting and bending

Maintenance work includes not only stretching and welding. Electric power lines must be spliced using hydraulic crimping tools. Rails must be cut with hydraulic angle cutters. The tracks must be raised with jack lifts and maybe bent for special purposes. The tools in use must be small and light-weight enough to be easily handled by the worker. Small tool dimensions and powerful output call for high hydraulic pressure. With the miniBOOSTER Portable Intensifier System this is exactly what you get. The hydraulic intensifiers make use of a unique patented system of valves and cylinders to boost the hydraulic work pressure of standard hydraulic pumps from around 200 bar and up to as much as 700 bar. With its light-weight design of only 10 kg, the Portable Intensifier System can easily be brought to a more or less inaccessible work area. In comparison, petrol-driven Power Packs weigh as much as 40-50 kg.

The miniBOOSTER can also be used in Power Packs where the hydraulic pump and the pressure intensifier are integrated into a single petrol-driven unit. Such Power Packs deliver the necessary 700 bar hydraulic pressure for most hand tools, and are easily built in or mounted on railroad-based maintenance vehicles.