

High Density Paving Processes and Equipment (NYSERDA 4541-ERTER-TR- 98) –

Based on the work funded in this project, TransTech Systems was able to demonstrate the viability of the concept of high-density paving and the application of cyclic shear compaction techniques. The development and testing of the Notched Wedge Joint Maker™, already a successful product for making compacted, tapered asphalt joints using this high-density paving technique, is the first step in bringing high-density paving technology to the entire asphalt mat. The importance of this innovation is that it reduces the time required to roll the asphalt mat, it increases the density at the joint, thereby extending its life, it reduces the number of rollers needed to properly compact the asphalt mat, resulting in fuel/energy savings, and it shortens the time delay before traffic can use the highway by safely accommodating the transition of truck and automobile traffic via the compacted wedge.