

ERGO-TAMP



SOLUTIONS THAT LAST



ERGO-TAMP

MBW has tamed one of the industry's most disliked and physically abusive compaction tools. Pneumatic Tampers (also known as "Pole Tampers", "Pogo Sticks" and "Bouncing Betties") produce hand/arm vibration levels that rank among the highest in the industry. Periodic exposure to excessive vibration is known to be a contributing factor in the development of white finger, carpal tunnel syndrome, arthritis and other chronic ailments.



The ERGO-TAMP reduces hand/arm vibration up to 70%, allowing for some variation as conditions of compaction change. The vibration absorption system easily handles the range of amplitudes typical of pneumatic tampers and is cooled by a constant flow of compressed air through its working mechanism.

By rendering the pneumatic tamper tolerable from an operational point-of-view, users are less prone to terminate the compaction effort before reaching a satisfactory geo-technical result. An improved compaction effort results in a lower incidence of pavement failure. Reduced hand/arm vibration results in less wear and tear on the personnel who get the job done.

Optional trigger guard prevents accidental tool activation.



U.S. Patented. International Patents Pending

INCREASING USAGE OF PNEUMATIC TAMPERS

More and more utility companies and municipalities are taking steps to reduce the size of utility excavations associated with routine maintenance and repair. "Keyhole" operations reduce excavation size to 18 or 24 inch diameter holes. The savings in time and money associated with smaller pavement cuts are very significant. But as excavation size is reduced, familiar compactors such as vibratory plates and rammers become too large to use in the smaller excavation. The compactor of choice for such

excavations, of necessity, defaults to the Pneumatic Tamper.

Importantly, Pneumatic Tampers differ somewhat from plates and rammers in that their considerable compaction energy is concentrated on a very small surface area. This very high concentration of energy often results in soil displacement during the compaction process, and in that sense, compacting with a Pneumatic Tamper is usually a three steps forward, two steps backward process. As a result, compaction time/cubic foot of backfill material is often longer, sometimes substantially longer, for Pneumatic Tampers. When used properly, an ERGO-TAMP reduces hand/arm vibration during longer compaction times required of a pneumatic tamper.



MBW also recommends using the Soil Compaction Supervisor, or SCS2, a compaction process management instrument, to dramatically improve compaction performance in small excavations. The SCS2 monitors growth in P-wave amplitude as compaction activity is taking place. When the amplitude growth curve levels off, indicating that an optimal result has been achieved for conditions of compaction, the SCS2 instructs the tamper operator to terminate his compaction effort. In other words, the SCS2 removes the guesswork from the compaction process. The SCS2 records whether or not its instructions were followed, as well as compaction time/lift, number of lifts/hole and other information relevant to protocol conformance and process management.



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