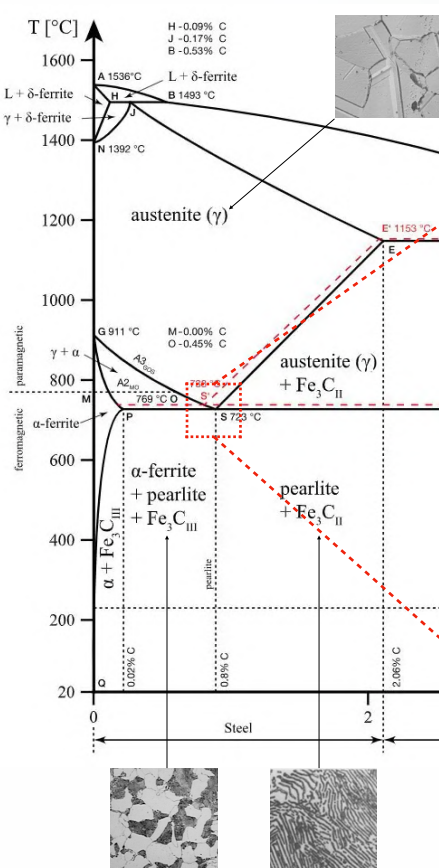




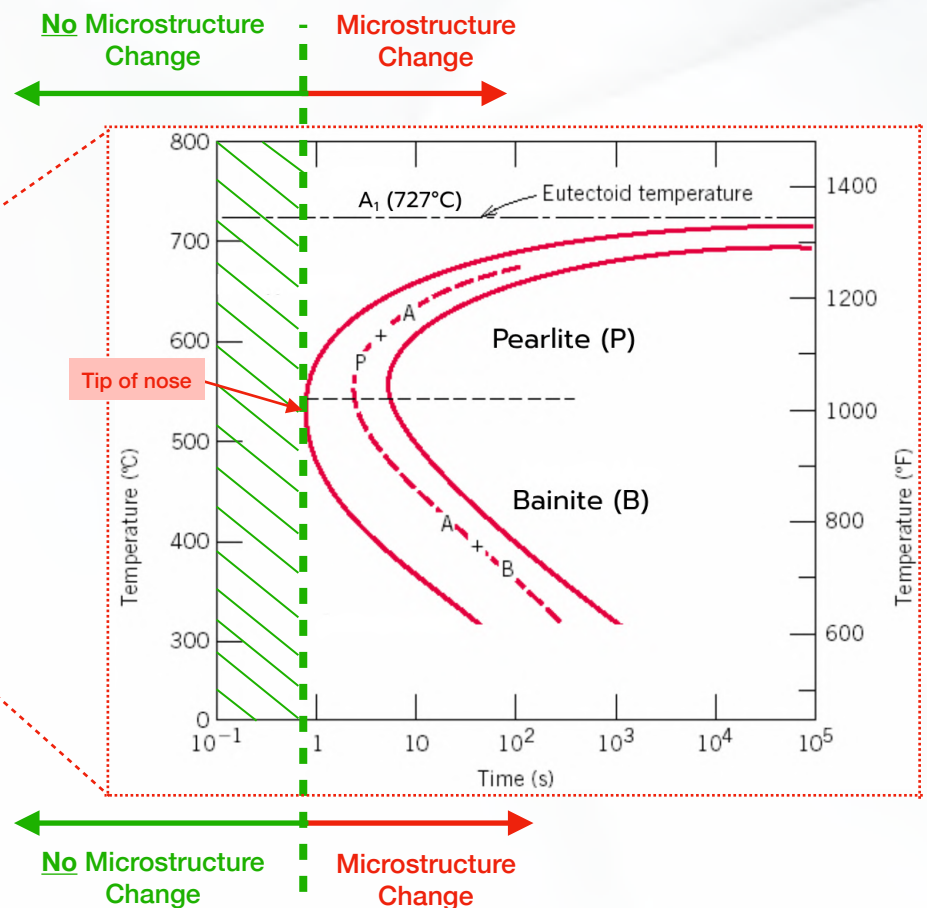
WHY Pulse Laser Welding can provide all unique advantages ?

Any metal material reacts to heat exposure - BUT only after about 1 second. Within the first second of applying heat, the metal does not react - for instance with microstructure changing or coarse grain formation.

Pulse Laser Welding is happen only within few milliseconds - within less than 1 second. Means : The metal doesn't feel that its getting welded - and therefore it does not react.



Phase diagram Fe-C



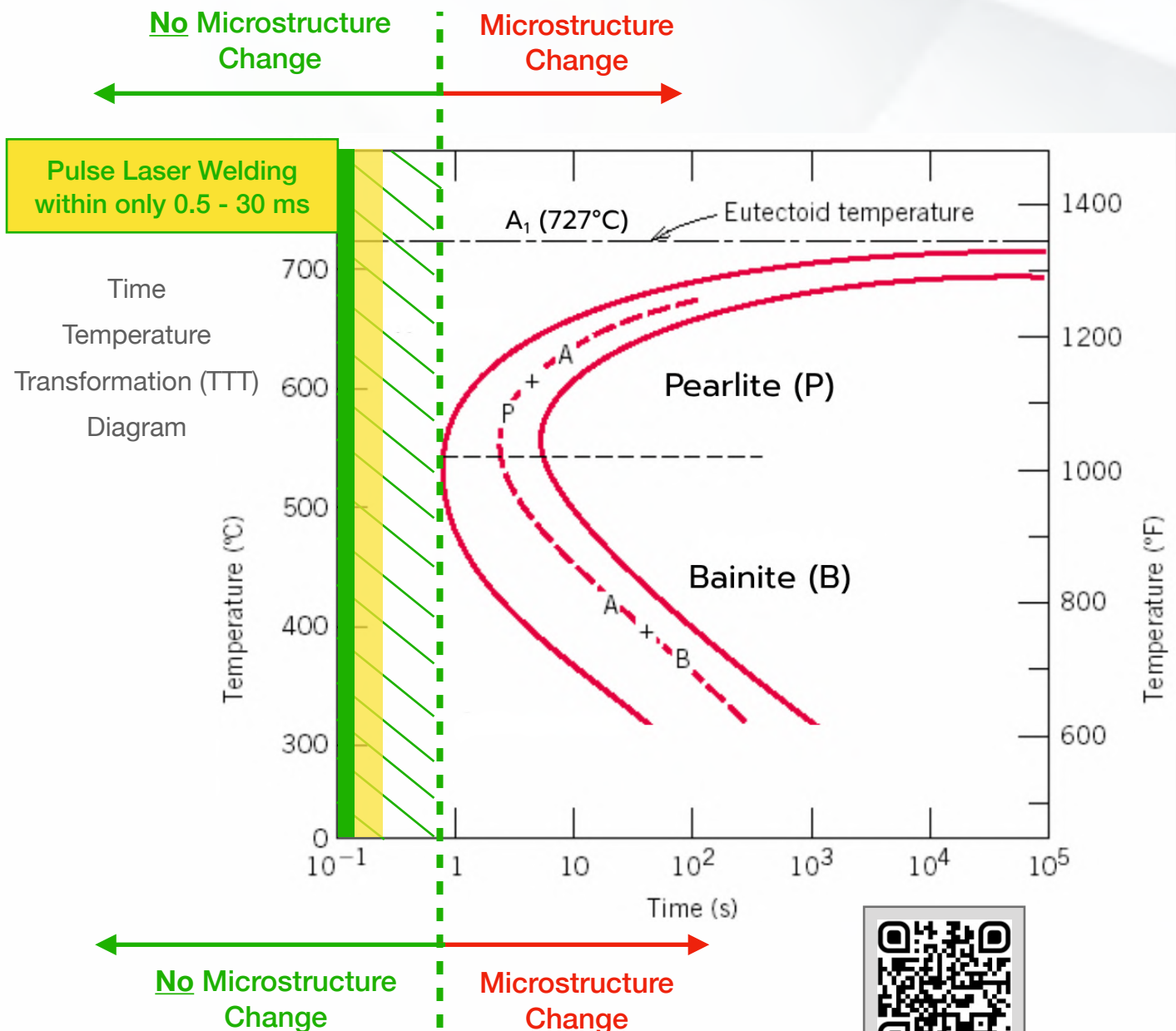
Time-Temperature-Transformation (TTT) Diagram



Pulse Laser Welding is UNIQUE !

Pulse Laser Welding has NONE competitive Technology !

Because only by *welding with pulsed light and its speed* all unique advantages can be earned - at the ***Tiny-giant Playground*** which is *unreachable for any other welding or cladding method*.



Pulse Laser Welding
Melting Pool
Video DSI-Dropbox