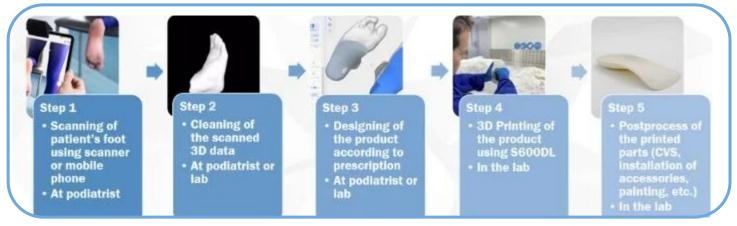
## 3D Printing Technologies: Melters

Melters use selective laser sintering (SLS), which is a high powered laser that fuses together layers of metal or plastic powder. This method is often used for parts or implant printing in manufacturing for many industries.



Resources:

3dnatives.com

**Presentation by:** Rathi Murugan



- Recently, the company Edser adopted the TPM3D dual laser SLS system to enable the fast and high-quantity production of custom orthotics (specifically insoles).
- The SLS process uses a bigger 600x600x800 mm build platform that allows the entire patient-tuned part to be printed in a single run.
- TPM3D uses PP Pro powder for SLS because it is lightweight, string, heat adjustable, and limits waste with its almost 100% reusability.
- SLS is also able to print lattice structures without clunky supports, so it makes for a more breathable and precise patient fit for insoles.