

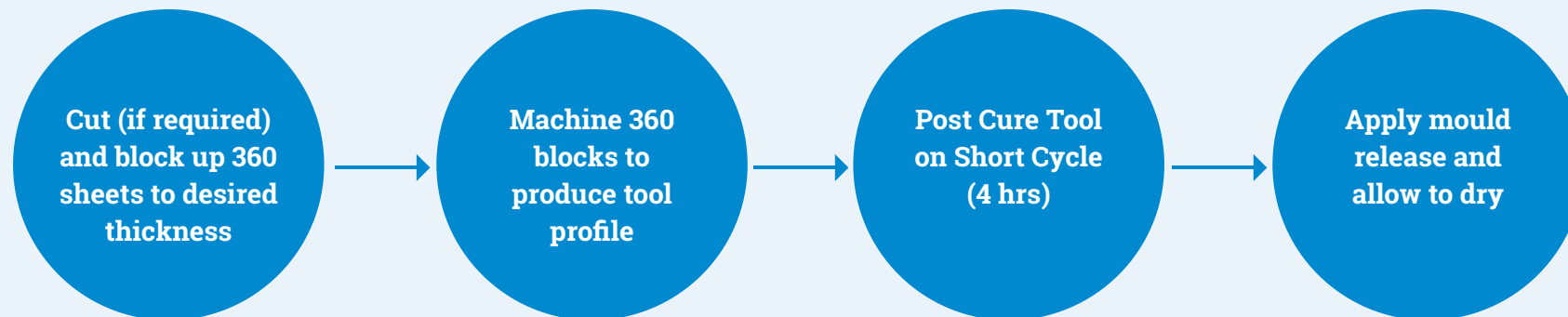
Conventional Epoxy Tooling Prepreg Process

14 COMPLICATED STEPS



360 Tooling Board Process

4 EASY STEPS



Benefits over Carbon Epoxy Tooling Prepreg

- Machinable
- Direct to part moulding
- No master model required
- No autoclave cure required
- Large labour savings
- Greatly reduced process time
- No shelf life or out life issues
- No Intermediate debulks required during layup
- No vacuum bagging consumables required
- Frozen storage of product not required
- No refrigerated transport required for shipping
- Re-machinable
- No potential irritation risk from resin
- 300°C capability
- No exotherm potential
- Short leadtime availability on boards

Benefits over INVAR and other Metallic Tooling

- Lightweight
- Low CTE
- No spring back or differential CTE compensation required
- Shorter heat up & cooling times
- Ability to mould close-tolerance components
- Tool production time greatly reduced
- Benefit of in-house tool machining and manufacture
- Enables creation of complex shapes and profiles
- No heavy backing support structure required
- Short leadtime availability on boards