



METAL SHRINKING SERVICE

MCL offer a 24 hour Metal Shrinking service. Our technicians will shrink components to be fitted by our customer using liquid nitrogen immersion.

Benefits

- Fast and predictable. May take only minutes
- Can provide a precision fit
- Components reach ambient temperature more quickly than if heated
- Will not cause damage to most ferrous and non ferrous metals
- No metal discolouration which may be produced by heating
- Heating is slow, may take hours, and may cause distortion and damage
- Metal Shrinking may eliminate the need for machined keyways
- Shrinking may be used to dismantle assemblies
- Shrinking is precise

| Metal | Shrinkage* |
|--|------------|
| Aluminium | 3.8 |
| Brass | 3.4 |
| Steel | 1.9 |
| Cast Iron | 1.8 |
| Copper | 3.0 |
| Magnesium | 4.5 |
| Nickel | 2.1 |
| Zinc | 5.4 |
| Cooling from ambient to -196°C Liquid nitrogen Metal Shrinking can accommodate the majority of interferences found in engineering assemblies *Thousands of an inch per inch or microns per mm diameter | |



We welcome evaluating your application and advising on the most suitable process for pipework isolation.

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