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TRIM[®] E925

TRIM[®] E925 New technology is central to Master Chemical's new **TRIM[®] E925** cutting and grinding fluid concentrate. It's a hybrid, based on a unique blend of mineral oil and vegetable ester-based additives. So its 'green' credentials are second to none but in a globally competitive manufacturing environment this has not been achieved at the expense of performance.

TRIM[®] E925 achieves exceptional component surface finish and tool life even when compared to traditional heavy duty emulsions containing high levels of chlorinated and sulphurised EP additives. Environmentally friendly vegetable ester technology gives **TRIM[®] E925** extremely high levels of lubrication and excellent cutting performance but without the use of traditional additives.

For those supplying the aerospace market, the absence of chlorinated additives is especially relevant. In this sector such fluids have not just been ruled out on environmental grounds they can also have a detrimental effect on the performance quality of the part.

Features and benefits

- TRIM[®] E925** environmentally friendly
- TRIM[®] E925** hard water tolerant
- TRIM[®] E925** low foam even at high pressures
- TRIM[®] E925** suitable for aerospace alloys
- TRIM[®] E925** high lubricity
- TRIM[®] E925** exceptional tool life
- TRIM[®] E925** excellent surface finish

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case studies

Automotive sub contractor

OBJECTIVE: Customer initiated a trial of **TRIM® E925** in an attempt to overcome short sump life problems with incumbent vegetable ester based emulsion.

OPERATION: The previous product had been the only product the customer had found that would give the required surface finish on an aluminium automobile component using PCD reamers.

OUTCOME: **TRIM® E925** gave the required surface finish on the reaming operation and doubled sump life from 4 months to 8 months.

Aerospace sub contractor

OBJECTIVE: The coolant previously used by the customer was acceptable for machining aluminium turbo impellers but when the customer started to produce titanium impellers, tool life was markedly decreased.

OPERATION: **TRIM® E925** was installed to carry out milling of titanium in 5 axis machining centres.

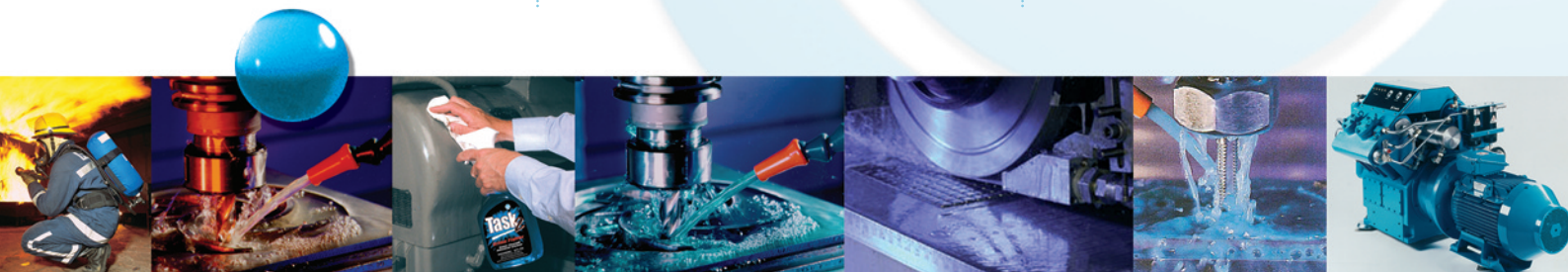
OUTCOME: **TRIM® E925** increased tool life by 20% compared to the high EP emulsions previously used. Customer was especially satisfied given **TRIM® E925**'s superior compatibility with Titanium due to it being chlorine free.

General sub contractor

OBJECTIVE: Short tool life and sump life when turning stainless steel and cast iron jobs were experienced by the customer when using competitor's high quality emulsion.

OPERATION: Turning of stainless steel, steel and cast iron components on 4 CNC lathes.

OUTCOME: **TRIM® E925** greatly improved tool life on the Stainless Steel jobs plus it was not deteriorated by the cast iron. Customer subsequently changed all their machines to run with **TRIM® E925**.



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