



BRASS EXTRUSION



Frank Cartledge
CERRO EXTRUDED METALS LTD

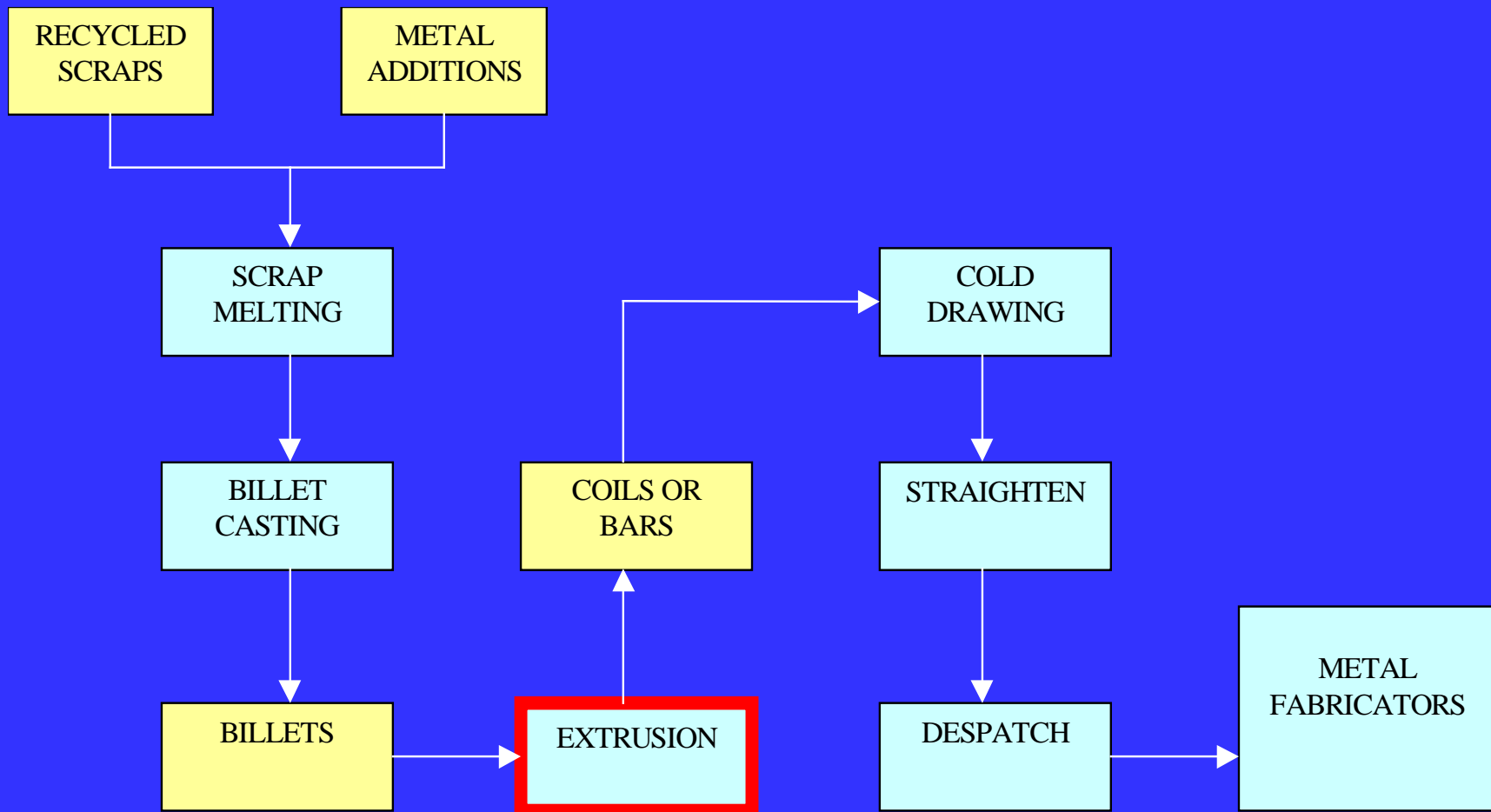


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CERRO PRODUCTS



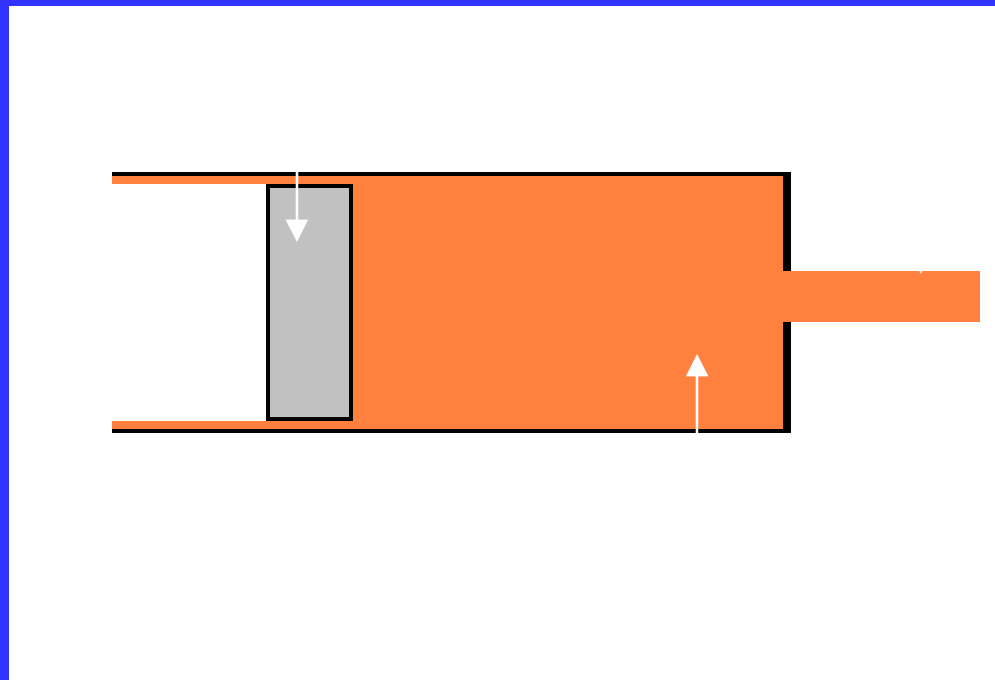
The role of extrusion



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The extrusion process

Container + Die + Temperature + Pressure



container

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A 2000 tonne extrusion press



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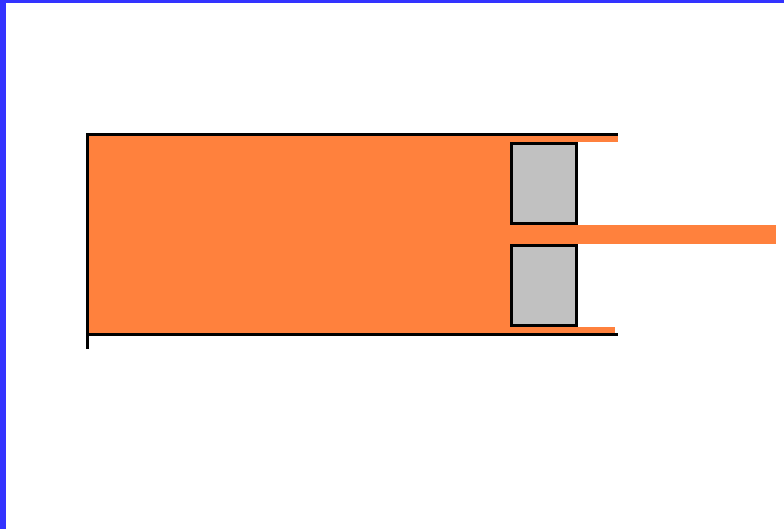
What does extrusion offer ?

- **Near net shape.**
- **Good dimensional consistency.**
- **Flexibility/Fast change process.**
- **Homogeneity.**
- **Internal soundness**

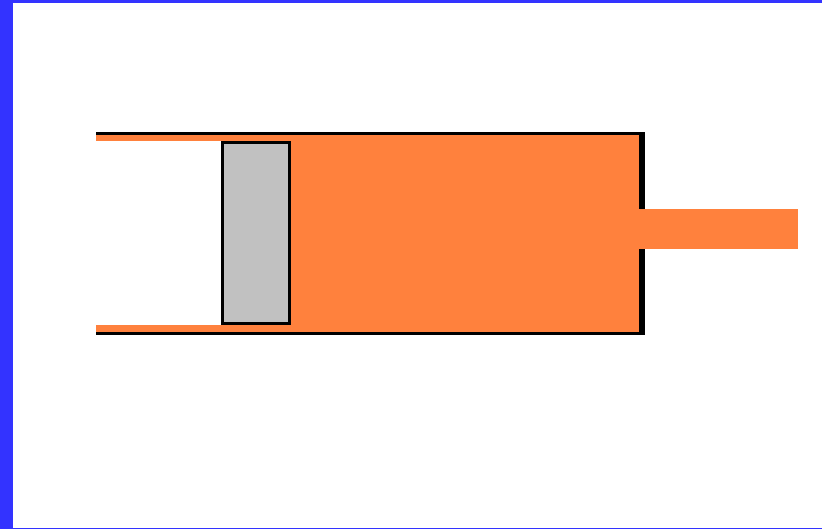
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The two basic extrusion modes

Indirect Extrusion

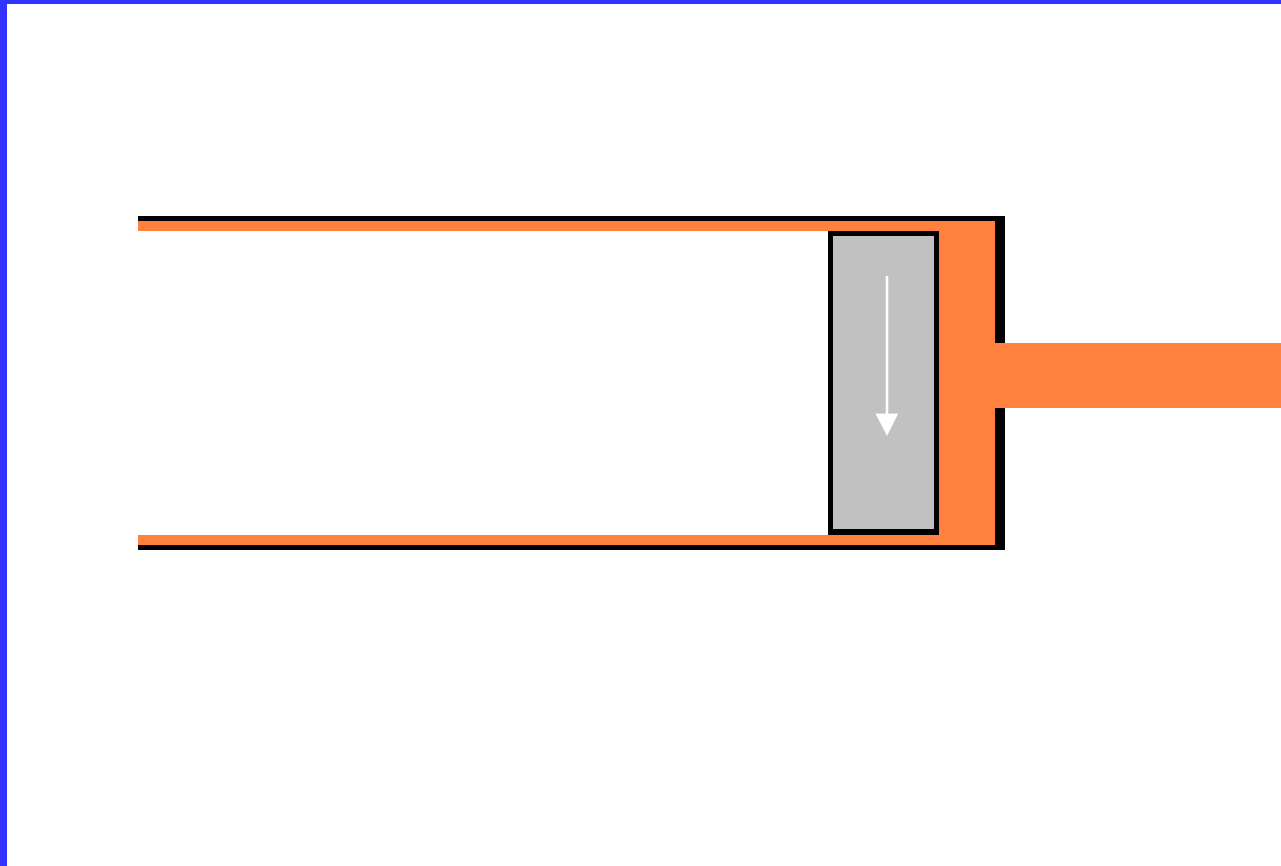


Direct Extrusion



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The key to internal soundness



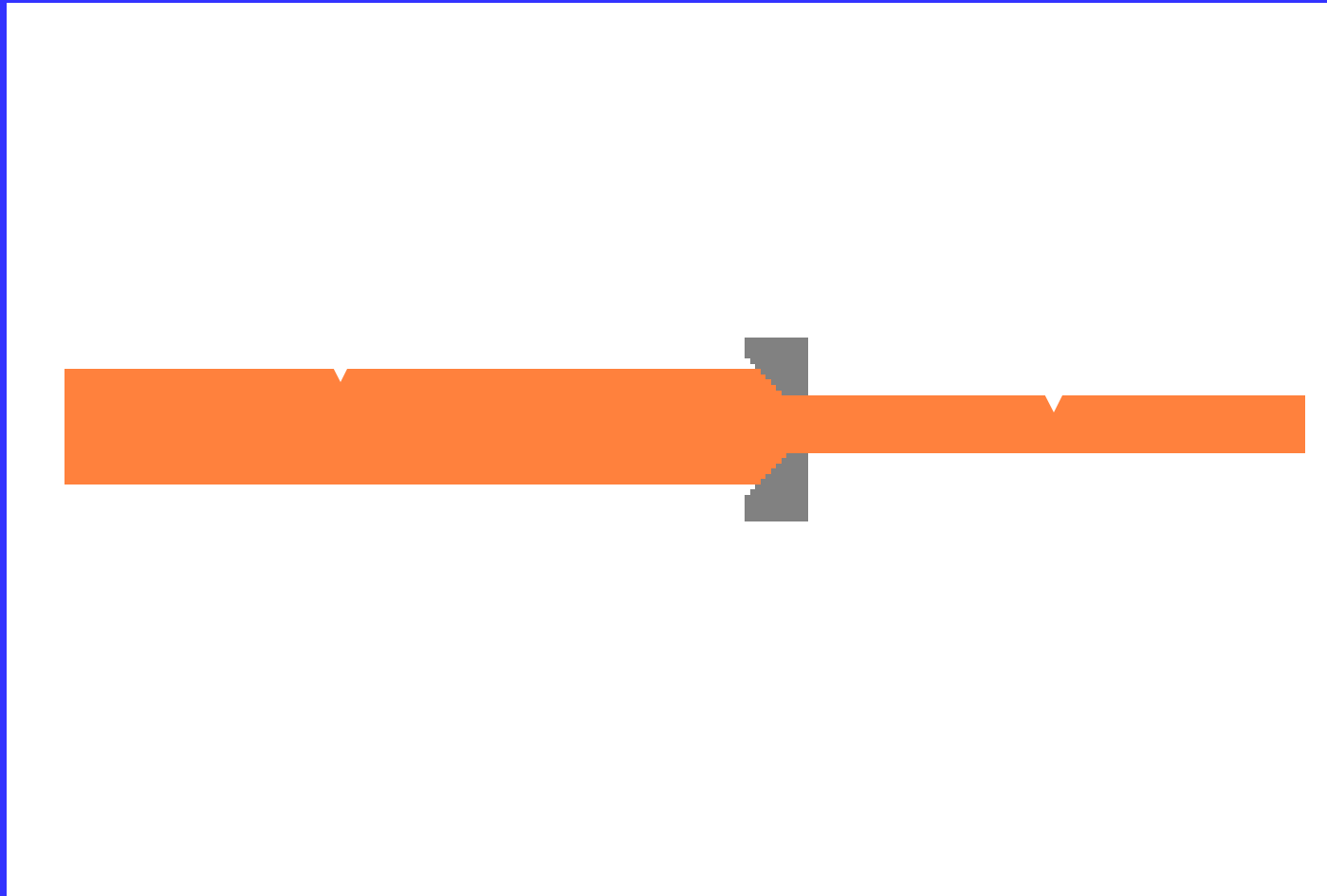
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Process controls give consistency

- **Billet temperature.**
- **Container and tooling temperature.**
- **Extrusion speed.**
- **Die size and condition.**
- **Die lubrication.**
- **Take-up speed**

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Cold drawing



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Product refinement by drawing

- **Improved dimensional control.**
- **Improved surface finish.**
- **Adjust mechanical properties.**
- **Straighter bars.**

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The cost effective solution

- **Re-cycled materials.**
- **Massive metal deformation.**
- **Near net shape.**
- **Quality characteristics adjusted to suit the application.**
- **Consistent quality and performance.**

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Range of profiles

