**Characterisation of the scrap density**

**Project ID:** 7210-PR/205  
**Funded under:** ECSC-STEEL C

**Characterisation of the scrap density**

**From** 2000-07-01 **to** 2003-06-30

### Project details

<table>
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<th><strong>Total cost:</strong></th>
<th><strong>Topic(s):</strong></th>
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<tr>
<td>EUR 1 026 454</td>
<td>C1 - Primary steelmaking</td>
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<td><strong>EU contribution:</strong></td>
<td><strong>Funding scheme:</strong></td>
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<td>EUR 615 872</td>
<td>CSC - Cost-sharing contracts</td>
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<td><strong>Coordinated in:</strong></td>
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<td>Belgium</td>
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### Objective

The objective of the project is to develop a technique for assessing the scrap density charged in the EAF. Parameters will be put in relationship with the scrap behaviour in the furnace in order to optimise the charging practice. The work will be performed at the scrap yard directly at the basket-charging stand in the steel-shop. To estimate the scrap density it is necessary to measure the evolution of the scrap volume inside the basket during the charging operation. For this purpose a level measurement technique based on an optical sensor will be developed. A digital camera and computer-based system will record images of every charged layer of the scrap in order to collect continuous information about scrap composition and size distribution.

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