

## Operation of the First HIs melt Plant in China

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### INTRODUCTION

After more than thirty years of research, and expenditure of more than one billion dollars, the HIs melt technology was successfully transferred from Australia to China. The HIs melt plant is located near Shouguang Port in Shandong Province, and is owned and operated by Molong Petroleum Machinery Limited, a private steel company.

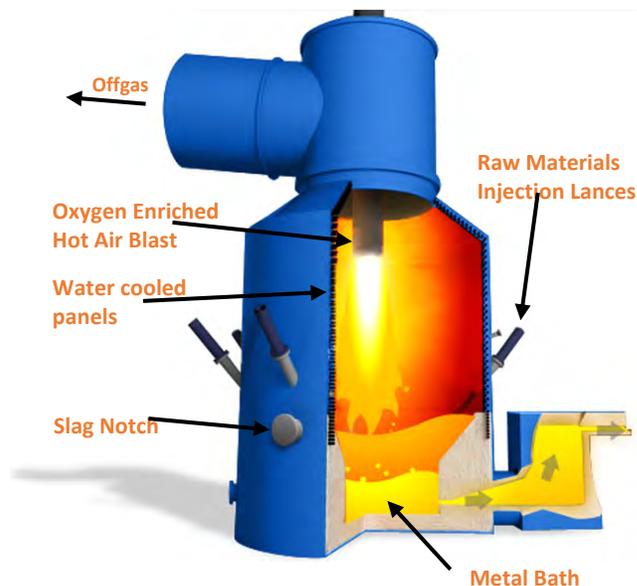
The Molong HIs melt plant started up in 2016 and has produced approximately 1,000,000 tonnes of hot metal at a cost lower than the blast furnaces previously used by Molong. The hot metal ladles from the HIs melt plant are delivered via road trucks to the Molong basic oxygen steelmaking plant located 40km south of the HIs melt plant.

In 2017, Molong purchased the HIs melt intellectual property from Rio Tinto, and will license the technology to other users in China and overseas.

### DISCUSSION

#### Process Description of the HIs melt Technology

The heart of the HIs melt technology is the Smelt Reduction Vessel (SRV), see below:



**Smelt Reduction Vessel (SRV)**