

OVERFLOW TRANSFER SYSTEM

CHANGING THE WAY METAL IS TRANSFERRED



Metallics Overflow Transfer System

The Overflow Transfer System (OTS) from Pyrotek Metallics Division is designed for transfer and delivery of molten metal from a melting furnace. OTS technology raises the metal by gently moving it from the bottom to the top of the transfer bowl. An integrated lightweight RFM® launder delivers this flowing metal for use by the downstream process.

Customers report that the OTS generates half the dross compared to traditional transfer pumps, with metal quality tests verifying improved metal quality. Additional customer advantages center on the low maintenance design of the system, with the graphite shaft assembly being the only consumable component. The system has no transfer pump posts to monitor and rebuild, no pump riser or transfer piping with their associated challenges of freezing, clogging, and ongoing maintenance and expense.

The system's bowl is a durable, long-life single-piece refractory. The system's graphite shaft assembly is an easily replaced low-cost consumable with the clamped motor design allowing for straight up motor and shaft removal, leaving the bowl undisturbed in the transfer well.

System options include four bowl lengths (28, 34, 40, 46 inches) and two bowl diameters (11.5, 18 inches) to provide a workable design for practically any furnace. With its small footprint, the OTS can be placed into almost any transfer well without the need for furnace modifications. For increased metal quality, optional BPF® filter caps can be fit to the pump base. Bowl strainers are also an option for the straining of metal entering the bowl.

SYSTEM HIGHLIGHTS

- Small footprint makes drop-in simple
- Available with electric or air motor
- Includes integrated lightweight RFM® launder
- Has no riser, posts, or piping associated with transfer pumps
- Constant metal discharge flow rate with variable volume
- Low consumable expenses
- Easy shaft assembly replacement
- Optional BPF® filter cap or bowl strainer
- Custom design can fit any application

