OVERFLOW TRANSFER SYSTEM

LOW TURBULENCE METAL TRANSFER SYSTEM

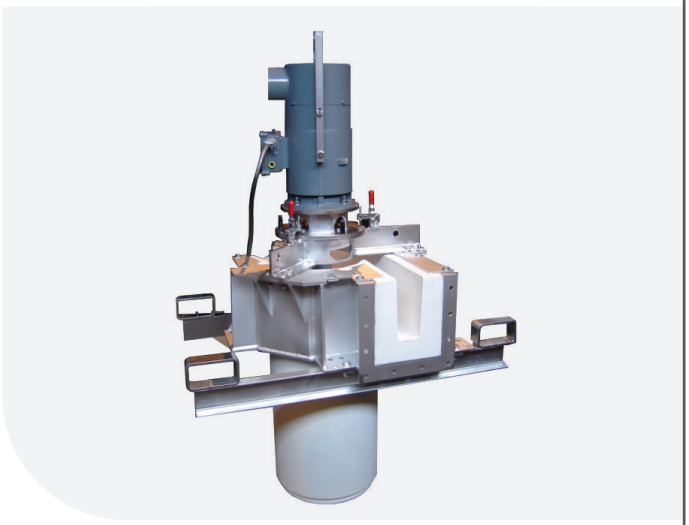
The Pyrotek overflow transfer system (OTS) is designed to transfer and deliver molten metal from a furnace (normally a melting furnace), to the downstream process locations where it is required. The OTS performs this service at significantly lower transfer costs than traditional transfer pumps and tapping-out processes.

OTS technology raises the metal by gently moving it from the bottom to the top of the transfer bowl, and an (optional) integrated lightweight reinforced fibreglass material (RFM®) trough can deliver the metal to the required end location.

Tests have shown that OTS generates half the dross of traditional transfer pumps, and metal quality tests have verified the system improves metal quality. OTS also requires low maintenance, as the graphite shaft assembly is the only consumable component. The graphite shaft is low-cost and has a clamped motor design that allows for straight-up motor and shaft removal, leaving the bowl undisturbed in the transfer well. The OTS also has no posts to monitor and rebuild, and no riser or transfer piping that can freeze, clog or generate other maintenance and expenses.

The system's bowl is a durable, long-life, single-piece refractory. The following bowl sizes are available for order with either air or electric drive systems. These options provide a workable design for most furnaces.

- 460 millimetres (18 inches) outside diameter with bowl lengths of 711, 864, 1016 or 1168 millimetres (28, 34, 40 or 46 inches)
- 292 millimetres (11.5 inches) outside diameter with bowl lengths of 559 or 711 millimetres (22 or 28 inches)



BENEFITS

- Reduces the metal turbulence associated with transferring or tapping-out
- No pump riser, pump posts or transfer pump piping
- Generates less dross than traditional pumps
- Design and small footprint simplifies installation and minimizes any furnace modifications
- Safe way to transfer molten metal
- Low consumable expenses
- Significantly decreases metal transfer time when compared to tapping-out
- Easy shaft assembly replacement
- Constant metal discharge flow rate
- Multiple bowl lengths for any application
- Integrated lightweight RFM launder (optional)
- Available with electric or air motor
- Metal volume is adjustable by changing the motor speed
- Metal flow is smooth, constant and steady

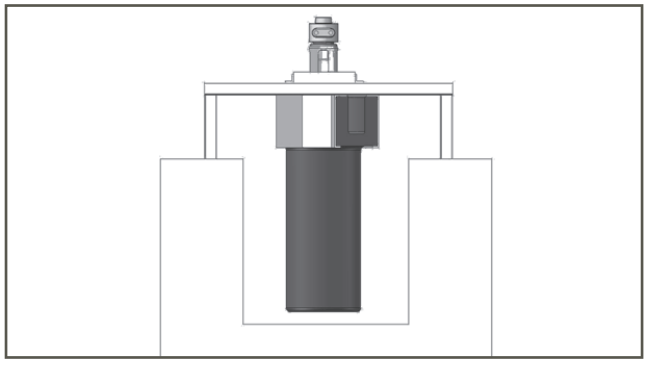


Diagram of suspended OTS

Pyrotek

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