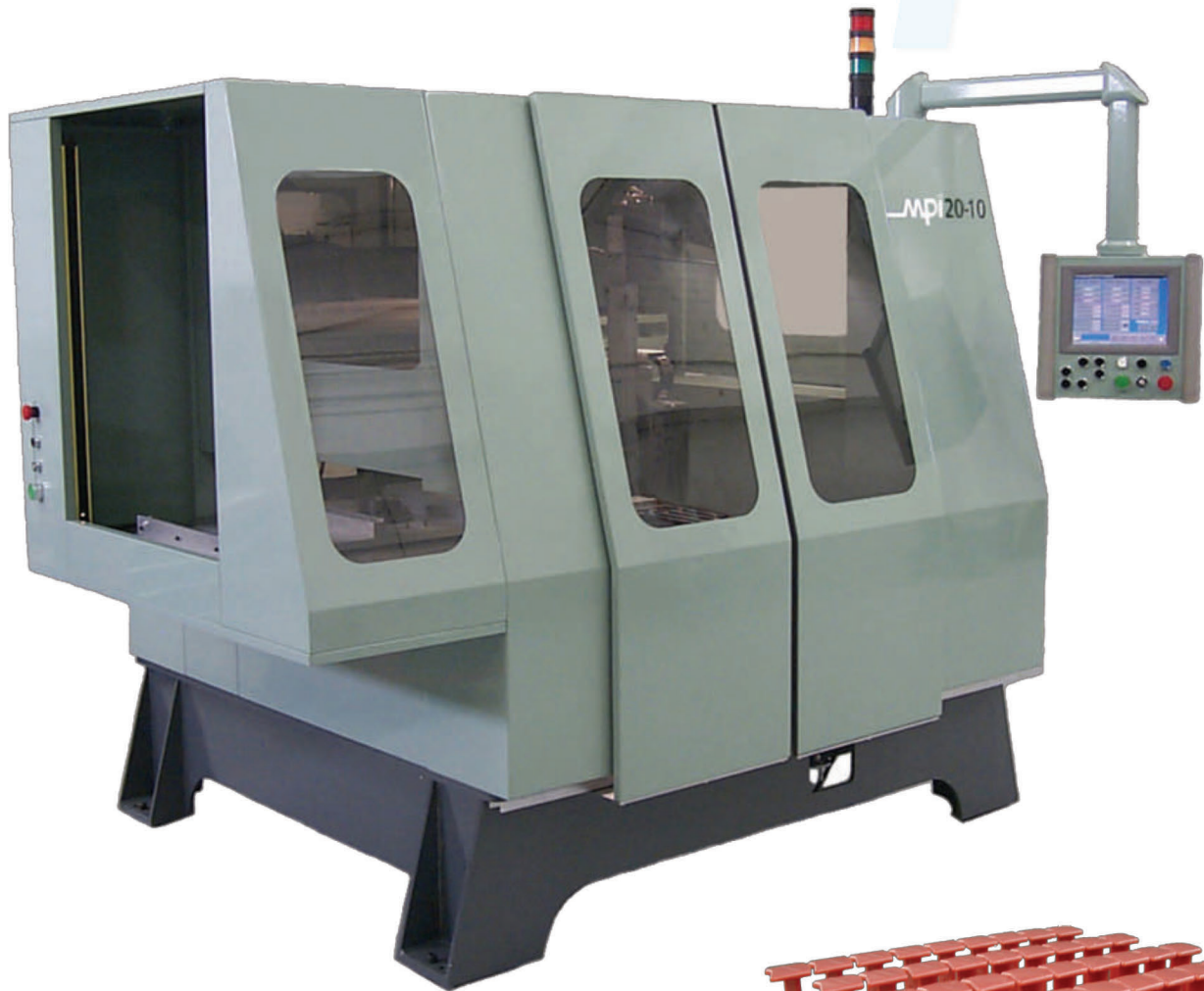


MPI

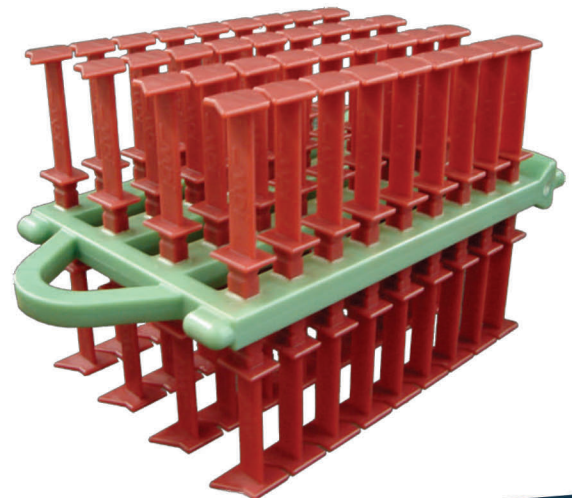
20-10

AUTOMATED PATTERN ASSEMBLY SYSTEM



Take the step toward total foundry automation

MPI's Model 20-10 Automated Pattern Assembly System "APAS" is the most innovative product available to the investment casting industry today. It's the missing link to total foundry automation.



FAST, ACCURATE, PROFITABLE... SMART!

THE LEADING MANUFACTURER OF WAX-ROOM EQUIPMENT WORLDWIDE



- Creates high quality welds that do not require rework 100% of the time.
- Cycle times are 5-10 times faster than manual assembly.
- APAS increases overall casting yields 10-30%.
- Quick change tooling, efficient changeovers from job to job in less than 5 minutes.
- Automatic laser measurement machine calibration.
- Simple user friendly operation, operators can be trained in one day.
- Achieve reproducible results time and time again.
- The only one step patented welding process.
- Highest density pattern to runner ratio.
- Highest castings to metal pour ratio.

Reduce Scrap, Improve Throughput, Increase Casting Yields, by eliminating assembly to assembly variation.

Wax Room Benefits

- Excellent fillet welds
- No wax dripping
- Uniform pattern alignment
- More patterns per tree
- More trees per day

Shell Room Benefits

- Strong wax welds reduces pattern drop off
- Uniform pattern placement produces uniform shell coverage
- Less trees needed per production run

Casting Benefits

- Reduce shell inclusions
- Uniform thermal gradient from part to part

Cut off and Finishing Benefits

- Runner locators allow automated cut off
- Eliminate rough cut off
- Reduce amount of gate removal
- Minimize post-cast time

Benefits to the Company

- Improved finished part productivity
- Improved uniformity of parts
- Reduced labor cost
- Reduced consumables cost
- Increased throughput
- Increased profits



Air Foil Weld