

Trim Castings, Trim Costs with GREENERD Hydraulic Trim Presses

Automate Your Finishing Room

Most foundries have already automated their melting and pouring processes. Yet, finishing – one of the simplest processes in the foundry – remains one of the most labor intensive. Using today's advanced technology, Greenerd produces trim press systems from a simple manually loaded press to complete fully automated systems for trimming, testing, inspecting, and SPC documenting.

Improve Product Quality

Greenerd trim presses and systems ensure consistent finishing, reduce variation in finished castings, and significantly reduce scrap due to grinding errors. The result is more acceptable castings and greater profitability.

Greenerd trim systems can be configured with automatic computer-assisted visual inspection and a wide range of systems for testing and documenting finished castings, for quality assurance and statistical process control. These systems can include ultrasonic, infrared, surface finish, and hardness testing as well as data logging and/or hard copy documentation.

A Case for Greenerd Hydraulic Trim Presses

The Foundry:

A nonferrous foundry in Michigan

Before Greenerd Trim Presses:

One year ago, the finishing room had 22 employees working on two 8- to 10- hour shifts. Each employee was hand grinding an average of 70 castings per hour. The grinding was inconsistent from operator to operator, and part to part, very often too deep and scarring the base metal.

After Greenerd Trim Presses:

The same employees now trim an average of 250 parts per hour with several Greenerd trim presses. Every part is trimmed to the same profile, reducing scrap not only at the trimming station, but also at the machine shop where additional machining is done. The machine shop manager states that the parts he receives have never been so consistent, and he has never had such a low scrap rate.

Increase Plant Throughput

Highly efficient melting and pouring processes can't increase profits if castings become stalled in a finishing room bottleneck.

Greenerd trim presses and systems can increase finishing room output by up to 10 times those of hand grinding. A press recently installed at a midwest foundry reduced the time required to trim a 10-pound casting from 45 seconds for hand grinding to 5 seconds.

In smaller foundries or foundries where job runs are short, presses can be used as a simple cell where an operator loads the nest and cycles the press. In larger foundries where parts are produced by the millions, a completely automated finishing line including rotary index tables, pick-and-place units, visual gauging, ultrasonic, or other testing, and SPC documentation. With these completely automated systems, parts that are cast in the morning can be out of the finishing room the same day.

Payback for trim presses and more elaborate systems is typically less than 1 year.

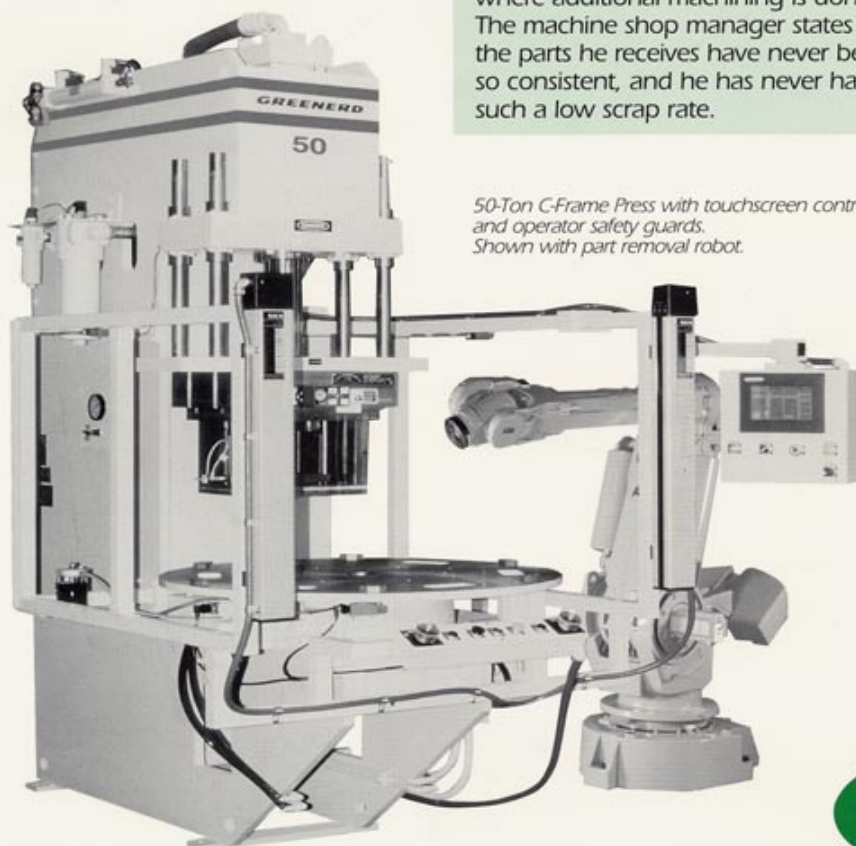
Enhance Safety

Hand grinding is not only time-consuming and costly, it can be dangerous. Accidents and lost time injuries are common. Greenerd trim presses relieve most of the physical demands of trimming and can virtually eliminate accidents.

With rotary tables for loading and unloading, the operator's hands are never in the die. Light curtains/ PSDI automatically stop the press if an operator breaks the light beam or leaves the machine unattended. Automated trimming also dramatically reduces airborne particles, improving the quality of plant air and increasing worker safety and comfort.

Reduce Employee Turnover

Hand finishing is among the highest turnover jobs in most foundries. By making the job of trimming easier, Greenerd trim presses and systems can reduce employee turnover, as well as hiring, training, and unemployment costs.



50-Ton C-Frame Press with touchscreen control and operator safety guards. Shown with part removal robot.

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The World's Finest Hydraulic Presses...

Equipped for the Hostile Environment of Foundries

Foundry environments are very hostile to machinery and equipment. Airborne particles can infiltrate and damage any machinery that is not protected.

Greenerd hydraulic trim presses are protected from the damaging effects of airborne particles. Extra filtering of hydraulic oil, flexible covers over moving parts, heavy-duty seals around rotating parts, totally enclosed fan-cooled (TEFC) motors, and other protective features ensure long life and years of trouble-free service in even the most hostile foundry environments.



15-Ton C-Frame Bench Press with rotary table and operator safety guards



75-Ton C-Frame Press with superior ram guiding and operator safety guards



200-Ton 4-Post Press with heavy ram guiding and operator safety guards

For additional information, applications assistance, or a quote, call today:



Since 1883

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