



Infrared Die Oven

The Granco Clark infrared die oven provides the fastest die heating times available. It heats dies uniformly in less than 25 percent of the time required by traditional die ovens—while a typical die for a mid-size press takes about four hours to come to heat in a convection oven, the Granco Clark infrared oven brings the same die to heat in less than 60 minutes.

This fast heat-up increases production flexibility, making it easier to adjust scheduling if a die breaks or a rush order comes through. Dies can be placed in the oven much closer to when they're actually needed, minimizing the time they spend at high heat. This helps to extend die life and reduce the potential for oxidation.

Temperature Always Under Control

Granco Clark's infrared die oven uses dual thermocouples to ensure dies are evenly heated to the required temperature. A cradle thermocouple controls the heating elements until chamber temperature reaches a preset limit; an air thermocouple then holds the air temperature at that limit.

When the die reaches the desired temperature, a light on the control panel illuminates. Heating control reverts to the cradle thermocouple to hold the die at the set point, eliminating the potential for overheating.

This method of control provides far more reliable heating than ovens using pre-programmed

settings or a timer. With competitive die ovens, operator errors like entering the wrong die number can damage dies or cause process failures. But because Granco Clark's infrared oven actually measures the temperature of the die as it is heated, there's no risk of overheating or underheating the die by choosing the wrong setting.



Fastest Heating Available.
Precise Temperature Control. Production Flexibility.

Error-Proof Heating of Warm Dies

The infrared die oven's ability to measure the temperature of the die as it's heated also enhances production flexibility.

This feature allows the Granco Clark infrared die oven to also be used as a preheat oven or top-off oven in conjunction with traditional convection ovens. Since die temperature is measured, warm dies can be placed in the oven for final heating without any guesswork or risk of overheating.

Built to Last

The Granco Clark infrared die oven is designed to be simple to operate and maintain. A top-opening, hinged lid, operated by a standard hand valve or optional foot pedal, provides easy access to dies. The oven features a strong shell of 3/16" mild steel that is extremely resistant to the impact of dies hitting the outer walls.



The Granco Clark infrared oven measures the temperature of the die as it is heated, allowing it to be used as a top-off oven for warm dies.

The oven's two infrared heating elements provide an estimated 20,000 hours of operation. These long-life elements deliver operational reliability and minimize maintenance.

The Granco Clark infrared die oven comes with a comprehensive one-year warranty. The heating elements carry an 18-month warranty.

Representative Heating Times for Maximum Die Sizes

Oven	Typical Press	Maximum Die	Heating Time
Model 20	1,800 ton	14" diameter, 7" thick	Approximately 60 minutes
Model 30	2,750 ton	18" diameter, 10" thick	Approximately 75 minutes
Model 40	3,600 ton	22" diameter, 12" thick	Approximately 90 minutes

Custom die oven sizes are available to meet your operation's specific requirements.



Performance. Productivity. Peace of Mind.

For more information contact us by phone, e-mail, or visit our web site.

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