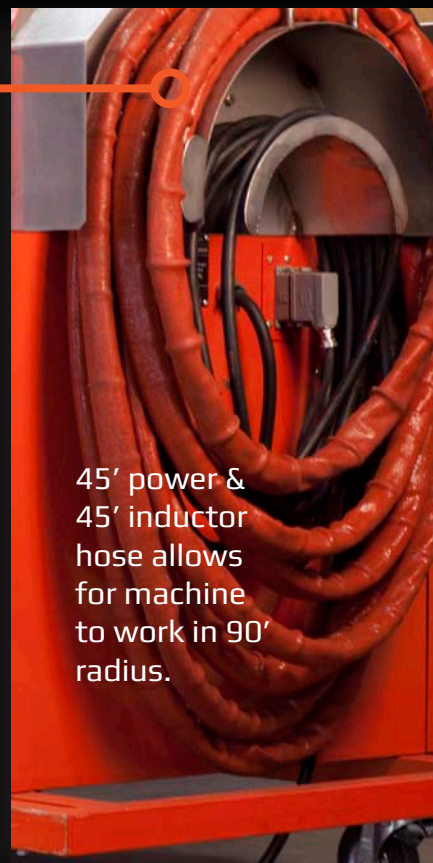


→ Tear along the perforated edge. Remove this worksheet to determine the best inductor size.

## INDUCTOR SIZE SELECTION WORKSHEET



Built-in air/water heat exchanger  
No water connection needed  
HF generator power=20KW  
Accepts any voltage from 250  
to 500 volts  
Worldwide operation without  
modification



45' power &  
45' inductor  
hose allows  
for machine  
to work in 90'  
radius.

Orientable heavy duty casters with  
brakes and protective bumper.



World class tools brought to you by your local distributor:

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**Rapid-Torc IBH**  
Induction Bolt Heating



# Rapid-Torc® IBH

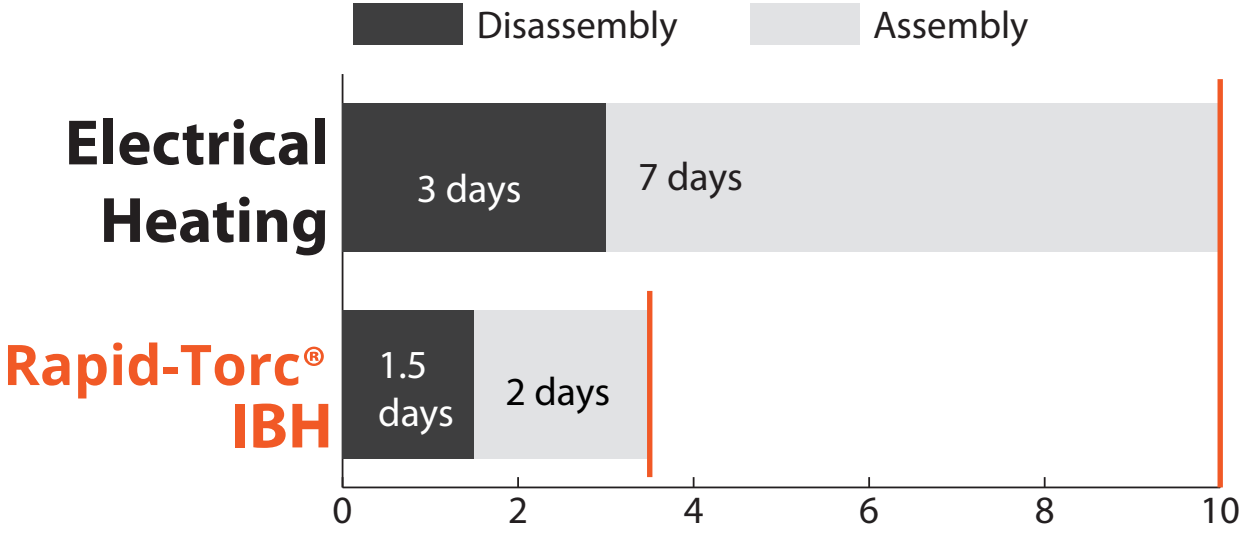
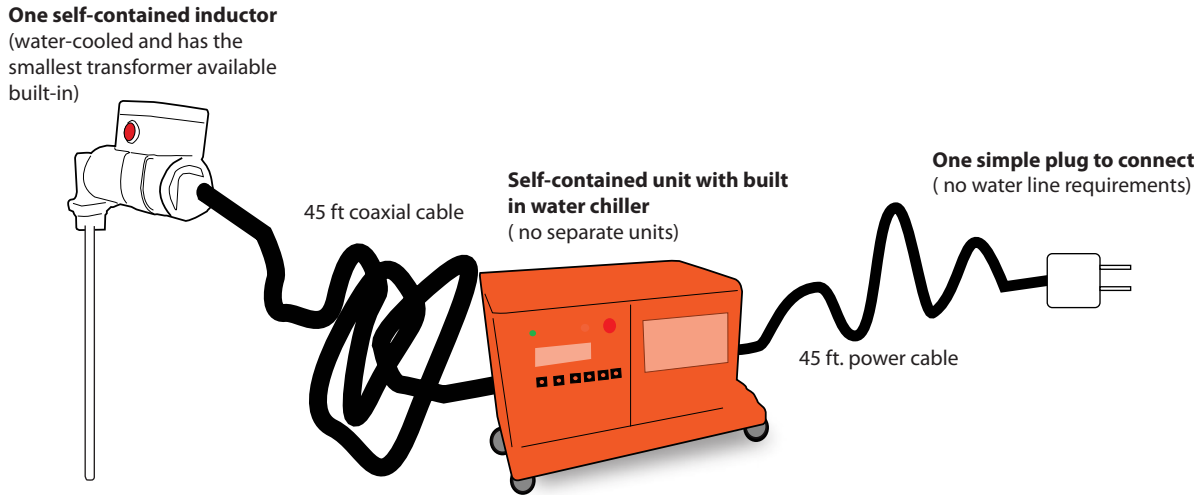
## INDUCTION BOLT HEATING

Advanced Bolt Heating  
Rapid-Torc engineers saw an opportunity to greatly reduce wasted downtime. With costs for downtime quickly escalating, there had to be a way to work fast, safe and efficiently. Rapid-Torc IBH is the answer.

Self-contained water chiller allows for easy one plug setup. External water level indicator shows water level.

Easy-to-use control panel.

**Rapid-Torc® IBH** does not generate heat, as the case with electric, gas and radiant heating technologies. It uses induction heating, causing the bolt to heat itself. Induction heating occurs when a material capable of conducting electrical current, not necessarily ferrous or magnetic, is placed in a varying magnetic field. The material becomes heated as a result of hysteresis and eddy current losses. Hysteresis occurs with magnetic materials and is produced by retardation of the magnetization effect caused by the friction of the molecules, when the material is magnetized in one direction, then reversed at a very high frequency.



IBH Inductors are truly amazing. Rapid-Torc can customize the inductor for any size stud, and are designed to be flexible in case small adjustments are needed. Truly amazing components; truly amazing system. Here's how we determine the best design.

1

Optimal heating length

Speedorange technicians choose the best inductor size for the bolt, and especially look for the optimal heating length to work as fast and safe as possible.

Rapid-Torc® has the widest range of inductor sizes available and will even build a custom size for the applica-

2

Proper inductor size is confirmed

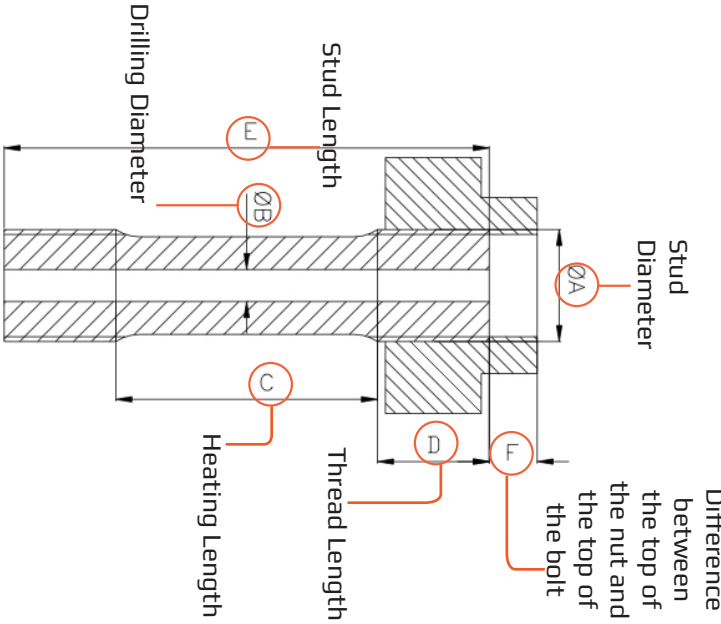
Once on the field, the technicians ensure the right inductor is chosen.

The ideal inductor will target the optimal heating length; this allows the electromagnetic field to work on the core of the stud and minimize heat transfer to other critical components.

3

Induction heating does the rest

Rapid-Torc® IBH controlled heating method heats only the center of stud and it minimizes heat transfer to the surrounding metal. In a short period of time, the stud is heated properly and assembly/disassembly can begin.



	Stud 1	Stud 2	Stud 3	Stud 4	Stud 5	Stud 6	Stud 7	Stud 8
Stud Diameter	ØA							
Drilling Diameter	ØB							
Heating Length	C							
Thread Length	D							
Stud Length	E							
Difference between the top of the nut and the top of the bolt	F							