



# THERMTECH

## TOOL STEEL WORK ORDER SHEET

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CUSTOMER SERVICE: csr@thermtech.net

SHIPPING: shipping@thermtech.net

QUOTES: sales@thermtech.net

REQUESTED DATE: \_\_\_\_\_

CUSTOMER NAME \_\_\_\_\_ CUSTOMER P.O. NUMBER \_\_\_\_\_

REQUESTED BY \_\_\_\_\_ PHONE # \_\_\_\_\_ DATE \_\_\_\_\_ THERM-TECH QUOTE # \_\_\_\_\_

**DO YOU WANT US TO CALL THE PROVIDED NUMBER UP UNTIL 6PM TO ENSURE THE JOB DOES NOT GO ON HOLD IN CASE OF MISSING INFORMATION? Y / N**

INSTRUCTIONS: PLEASE USE 1 SHEET PER ALLOY. IF USING THE SAME ALLOY BUT DIFFERENT HARDNESS REQUIREMENTS, THEN USE A SEPARATE SHEET FOR EACH.

**CONTAINER DESCRIPTION \_\_\_\_\_ NUMBER \_\_\_\_\_**

QTY	PART #	DESCRIPTION	HARDNESS	JOB NUMBER	UNIT WEIGHT	TOTAL WEIGHT

FINISHED - HANDLE WITH CARE!       WELDED - DOES NOT REQUIRE ANNEALING       WELDED - PLEASE ANNEAL FIRST

### TOOL STEELS

<input type="checkbox"/> A-2	<input type="checkbox"/> CALDIE	<input type="checkbox"/> Z-TUFF PM	<input type="checkbox"/> SKOVAR
<input type="checkbox"/> S-7	<input type="checkbox"/> DCMX	<input type="checkbox"/> 410	<input type="checkbox"/> FORMVAR
<input type="checkbox"/> D-2	<input type="checkbox"/> UNIMAX	<input type="checkbox"/> 416	<input type="checkbox"/> VANADIS 8
<input type="checkbox"/> H-13	<input type="checkbox"/> DC53	<input type="checkbox"/> 420	<input type="checkbox"/> VANADIS 4
<input type="checkbox"/> M-2	<input type="checkbox"/> CPM3V	<input type="checkbox"/> 440C	<input type="checkbox"/> ZMAX
<input type="checkbox"/> M-4	<input type="checkbox"/> CPM9V	<input type="checkbox"/> TYRAX ESR	<input type="checkbox"/> Z12 ULTRA PM
<input type="checkbox"/> M-4 PM	<input type="checkbox"/> CPM15V	<input type="checkbox"/> STAVAX ESR	<input type="checkbox"/> 5-STAR
<input type="checkbox"/> T-15	<input type="checkbox"/> A-11 PM (Z-10 PM)	<input type="checkbox"/> MIRRAX ESR	<input type="checkbox"/> _____
<input type="checkbox"/> T-15 PM	<input type="checkbox"/> ZWEAR PM	<input type="checkbox"/> 17-4	<input type="checkbox"/> _____
<input type="checkbox"/> OTHER	<input type="checkbox"/> 300-SS	<input type="checkbox"/> 15-5	<input type="checkbox"/> _____

### PROCESS

<input type="checkbox"/> STRESS RELIEVE	<input type="checkbox"/> STRAIGHTEN ONLY
<input type="checkbox"/> VACUUM HARDEN AND TEMPER	<input type="checkbox"/> BLAST ONLY
<input type="checkbox"/> VACUUM HARDEN AND DOUBLE TEMPER	<input type="checkbox"/> CRYO TREAT TO -120 OR -300F THEN TEMPER
<input type="checkbox"/> VACUUM HARDEN AND TRIPLE TEMPER	<input type="checkbox"/> AGE HARDEN TO CONDITION _____
<input type="checkbox"/> VACUUM ANNEAL	<input type="checkbox"/> AGE HARDEN TO CONDITION _____
<input type="checkbox"/> VACUUM SOLUTION ANNEAL	<input type="checkbox"/> (PER AMS STANDARD)
	<input type="checkbox"/> FINAL STRESS TEMPER @ _____ F

I HAVE ATTACHED A RECIPE WITH A SPECIFIC AUSTENITIZING TEMPERATURE RECOMMENDED TO ME BY MY STEEL SUPPLIER. PLEASE FOLLOW THE ATTACHED RECIPE. I ACCEPT EXTRA COSTS THAT MAY BE ACCRUED AS A RESULT.

**WILL PARTS BE:  EDM'D?  COATED AT \_\_\_\_\_ F**

THERM-TECH WILL ENSURE THAT PARTS RECEIVE AN ADEQUATE NUMBER OF TEMPER DEPENDING ON ALLOY TYPE AND SECTION SIZE. AS AN EXAMPLE, FOR SECTIONS UNDER 1" THIS WILL BE DOUBLE TEMPER FOR A-2 AND S-7 AND TRIPLE TEMPER FOR OTHER COLD WORK OR HIGH SPEED STEELS.

CHECK ONLY PROVIDED TEST PART       CHECK ONLY INDICATED LOCATION  
**(MARK YOUR PART ACCORDINGLY)**

### ADDITIONAL PROCESSING

DO NOT MAKE ANY SPECIAL (\$) EFFORT TO PRESERVE FLATNESS OR STRAIGHTNESS

STRAIGHTEN TO \_\_\_\_\_

\*THERM-TECH POLICY IS THAT WE CAN STRAIGHTEN TO A TOLERANCE OF .001" PER INCH OF LENGTH, IF REQUIRED. CALL US IF YOU NEED ANYTHING CLOSER.

SHOT BLAST

RUST INHIBIT

HAND BLAST

ALUMINUM OXIDE HAND BLAST

GRIT BLAST

### QUALITY CONTROL REQUIREMENTS

100% HARDNESS INSPECTION REQUIRED       CERTIFICATION OF HEAT TREATMENT       CERTIFICATION OF HEAT TREATMENT AND CHARTS

CUSTOMER PICK UP

THERM-TECH TRUCK

UPS

CALL

### COMMENTS/SPECIAL INSTRUCTIONS OR SHIP TO ADDRESS:

RECEIVED BY: \_\_\_\_\_

## **STATEMENT OF LIABILITY**

ALL WORK IS ACCEPTED SUBJECT TO THE FOLLOWING CONDITIONS:

(Adopted by the Metal Treating Institute)

It is generally recognized that even after employing all the science known to us and capable men with years of training, there still remain hazards in heat treating. Therefore, our liability to our customers shall not exceed twice the amount of our charges for the work done on any material, (first to reimburse for the charges and second to compensate in the amount of the charges), except by written agreement. Warranty will be assumed by us only when made in writing and signed by both you and us. In such event a higher charge will be made for our services. No claims for shortage in weight or count will be entertained unless presented within five (5) working days after receipt of materials by customer. No claim will be allowed for shrinkage, expansion, deformity, or rupture of material in treating or straightening, except by written agreement, as above, nor in any case for rupture caused by subsequent grinding. Whenever we are given material with detailed instructions as to treatment, our responsibility shall end with the carrying out of those instructions. Failure by a customer to indicate plainly and correctly the kind of materials (i.e. make, brand, and grade of steel) to be treated, shall cause an extra charge to be made to cover any additional expense incurred as a result thereof. It shall be the duty of the customer to inspect the merchandise immediately upon its return, and in any event claims must be reported prior to the time that any further processing, assembling, or any other work has been done on said material. No agent or representative is authorized to alter these rules and conditions, except by writing duly approved by us.