



# ENERGY INDUSTRIES OF OHIO

Purchase Order Number:

S005242-F

Part Number:

SE141-103-1

Part Name:

MCWF C-1

MTM Work Order Number:

65707/1.0



*Major*

**Tool & Machine, Inc.**

**Customer: 8909 - ENERGY INDUSTRIES OF OHIO**  
**Customer P.O.: S005242-F**  
**Customer Part ID: SE141-116 - MCWF C-1**

Item#				Document Description / Material Description / File Name / Heat Lot
1				CERTIFICATE OF CONFORMANCE

**DS141-036 - STUD**

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
2	4	10	30	Material Certification: TEST REPORTS / DS141-036 - STUD - mc108260.tif / 8969595

**DS141-060 - NUT**

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
3	4	10	50	Material Certification: / DS141-060 - NUT - mc108258.tif / 8977349

**DS141-079 - FLAT WASHER**

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
4	4	10	60	Material Certification: / DS141-079 - FLAT WASHER - mc108259.tif / 8990135

**SE141-078 - POLOIDAL BREAK SHIM ASSEMBLY**

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
5	2	10	10	Material Certification: TEST REPORTS / SE141-078-02-CSM - CSM SHIM CASTING TYPE C - / CFM / put in later
6	2	30	20	Certificate of Conformance: C OF C / LOCTITE 411 - LOCKING COMPOUND - mc106141.tif / CERTIFIED

**SE141-078-03 - INSULATING SLEEVE**

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
7	3	10	10	Certificate of Conformance: / G11CR_1 - ROUND, BAR, 1.75 DIA - mc108545.tif / CERTIFIED

**SE141-103-1 - MOD COIL WINDING FORM ASSEMBLY TYPE-C**

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
8	0	10	40	Material Certification: Trace ID: 113690 / ER316MNNF_093_GTAW - WELD WIRE,GTAW .093 DIA - mc106164.tif / W020132 / WO20132
9	0	10	40	Material Certification: Trace ID: 116255 / ER316MNNF_093_GTAW - WELD WIRE,GTAW .093 DIA - mc106579.tif / W020132 / WO20132

**SE141-103-4 - INSULATING SHEET**

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
10	7	10	10	Certificate of Conformance: G11CR / G11CR_3 - SHEET, FLAT - mc107081.tif / CERTIFIED

**SE141-103-5 - INSULATING SLEEVE**

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
11	5	10	10	Certificate of Conformance: / G11CR_1 - ROUND, BAR, 1.75 DIA - Same as Item #7 / CERTIFIED

**SE141-116 - MODULAR COIL WINDING FORM C**

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
12	1	10	10	Material Certification: METALTEK QA DATA PACKAGE / SE141-116-CSM - CSM MCWF TYPE C CASTING - / put in later
13	1	90		Inspection Data Checklist: 2 steps
14	1	100		Nondestructive Liquid Penetrant Test Certification #13726 - LPI CERTIFICATION
15	1	120		Inspection Data Checklist: 137 steps



---

Customer: 8909 - ENERGY INDUSTRIES OF OHIO  
Customer P.O.: S005242-F  
Customer Part ID: SE141-116 - MCWF C-1

---

16      1      140      Inspection Data Checklist: 2 steps

EASTWOOD MANUFACTURING  
CERTIFICATION OF COMPLIANCE

CUSTOMER : MAJOR TOOL AND MACHINE  
ORDER # : P05-01160

DATE : 5-16-05  
OUR NUMBER 32984

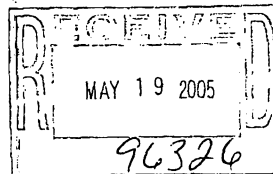
WE CERTIFY THAT THE MATERIALS SUPPLIED ON YOUR ORDER  
LISTED ABOVE COMPLIES WITH THE REQUIREMENTS OF YOUR ORDER  
AND OF THE SPECIFICATIONS LISTED BELOW

DESCRIPTION :

Lot No.:	Part :	Heat No.:	
32984-1	28 PIECES DS141-036	8969595	1 7/16 Round, machined to size
	ASTM A286		Heat Treat: 36891
	Silver plated		Silver plate: IMF 00132583
	Per AMS2410		Post plate bake: SEI 37905
			Tensile test: WH 05-0420-01

TENSILE KSI	YIELD KSI	ELONGATION	REDUCTION	HARDNESS
150	120	14	35	
PASS	PASS	PASS	PASS	PASS

DALE STARK  
EASTWOOD MANUFACTURING



1-4  
B-1

MTM 05  
5/19/05

studs



401 ROSE AVE S E  
MASSILLON, OH 44646

FAX 330-837-7017

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS

JANUARY 26, 2005  
PAGE: 1 OF 3

PURCHASE ORDER: 42904-3  
PART NUMBER : SH 47670  
ORDER NUMBER: 12-52585-06 821  
HEAT : 8969595  
CHARGE ADDRESS

PURCHASE ORDER DATE: 05/24/04  
ACCOUNT NUMBER : 27759001  
SCHEDULE : 58828

SHIP TO

5000000

FRY STEEL COMPANY  
BUNNIE ISAKA  
13325 MOLETTE ST  
SANTA FE SPRINGS CA 90670

FRY STEEL COMPANY  
BUNNIE ISAKA  
C/O CMI  
4201 W 36TH ST  
CHICAGO IL 60623

MATERIAL DESCRIPTION  
COLD FINISHED STEEL BARS ALLOY DOUGLAS SPEC DMS-1555H GRADE B DTD 07/02/91 EXC  
MARK & PARA 3.4 OIL TEMP E 3.5 BOEING SPEC BMS 7-280 ASTM A 331-95 ASTM A  
108-03 LEVEL 1 MIL S 5000E COND E-4 EXC MARK AMS 6415R EXC BHN AMS 6409B AMS  
2310E AMS 2301J AMS 2304A AMS 6484B AMS -S- 5000 ISB 3/99 COND E-4 EXC MARK &  
PARA 4.3 EF-AISI-E-4340 AIRCRAFT Q DEL TRANSV MBCH PROP COLD DRAWN NOR  
M & SUBCRITICAL ANN BEFORE CD REST CHEM

SIZE: RDS 1.4375 X 11 /13FT

LADLE CHEMISTRY

C	MN	P	S	SI	CU	NI	CR	MO	AL
0.42	00.75	.007	.002	0.22	0.10	01.70	00.84	0.21	00.028
V	N	CB	SN	SEMI-FINISH RESULTS					
0.005	.0064	0.002	.007	AUSTENITIC GRAIN SIZE					
				AUST GRAIN SZ 7.					

DEVELOPED TENS TRANS  
NORMALIZE  
DEG F  
1650.

ASTM E8  
AUSTENITIZE  
DEG F  
1550.

ASTM A370  
QUENCHANT  
OIL

TEMPER 1  
DEG F  
900.

TEMP 1 TIME  
HOURS  
2.0

PCER	H	T	TENSILE PSI
PCER	H	10102	185010.
PCER	H	10302	180280.
PCER	H	10503	183540.
PCER	H	30102	180570.
PCER	H	30302	193790.
PCER	T	30504	185240.

REDUCTION AREA PERCENT
45.5
55.6
55.7
51.4
53.0
46.3

DEVELOPED TRANS TENSILE  
NORMALIZE  
DEG F  
1650.

ASTM E8  
AUSTENITIZE  
DEG F  
1500.

ASTM A370  
QUENCHANT  
OIL

TEMPER 1  
DEG F  
475.

TEMPER 2/SR  
DEG F  
475.

TEMP 1 TIME  
HOURS  
2.0

TEMP 2 TIME  
HOURS  
2.0

PCER	H	T	TENSILE PSI
PCER	H	10102	262320.
PCER	H	10302	264250.
PCER	H	10503	262170.
PCER	H	30102	261840.
PCER	H	30302	261260.
PCER	T	30504	261050.

YIELD (.2%) PSI
223800.
222910.
225100.
218860.
222160.
225230.

REDUCTION AREA PERCENT	ELONGATION PERCENT
47.0	10.4
44.6	11.4
44.6	14.3
43.9	13.4
49.3	11.4
48.2	12.9

32984

171108

AMAN BHATIA  
GEN MGR COLD FINISH OPERATIONS

*Aman Bhatia*



5/19/05



401 ROSE AVE S E  
MASSILLON, OH 44646

FAX 330-837-7017

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS

JANUARY 26, 2005  
PAGE: 2 OF 3

PURCHASE ORDER: 42904-3  
PART NUMBER : SN 47670  
ORDER NUMBER : 12-52585-06 821  
HEAT : 8969595

PURCHASE ORDER DATE: 05/24/04  
ACCOUNT NUMBER : 27759001  
SCHEDULE : 58828-

SEMI-FINISH RESULTS (CONTINUED)

DEVELOPED TRANS TENSILE		ASTM E8	ASTM A370	TEMPER 1
NORMALIZE		AUSTENITIZE	QUENCHANT	DEG F
DEG F		DEG F	OIL	475.
1650.		1500.		
TEMPER 2/SR		TEMP 1 TIME	TEMP 2 TIME	
DEG F		HOURS	HOURS	
475.		2.0	12.0	
TENSILE		YIELD (.2%)	REDUCTION AREA	ELONGATION
PSI		PSI	PERCENT	PERCENT
PCE H	10102	256220.	218900.	35.8
PCE H	10302	260560.	223410.	46.3
PCE H	10503	254270.	220610.	14.6
PCE H	30102	263550.	222210.	35.4
PCE H	30302	261190.	223640.	46.8
PCE H	30504	258710.	221100.	44.3

JOMINY STD		SAE J406	ASTM A255																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32
58	58	57	57	57	57	56	56	56	56	56	56	55	55	55	55	54	53	52	51	51	50	49	49

MACROETCH SRC SURFACE 1. RANDOM 1. CENTER 1. ASTM E381 MIL STD 430

MAG PARTICLE 2301 AMS 2301  
AVG AVG FREQ 0.00 AVG SEV 0.00

MAG PARTICLE 2304 AMS 2304  
AVG AVG FREQ 0.00 AVG SEV 0.00

FINISH SIZE RESULTS SCHEDULE: 58828  
DECARBURIZATION TOTAL DEPTH SAE J419 ASTM E1077

PCE 01 INCHES .015

HBW SURFACE (LAB)	ASTM E10	ASTM A370
PCE 01 HBW 217.		
PCE 02 HBW 217.		
PCE 03 HBW 217.		
PCE 04 HBW 217.		
PCE 05 HBW 223.		

MATERIAL SOURCES RED. RATIO  
TO 1  
73.6

TENSILE HT TRTD ASTM E8 ASTM A370  
NORMALIZE  
PCE 01 DEG F 1625.

NOTES  
THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS: ASTM E415, ASTM E1019, AND ASTM E1065.

AMAN BHATIA  
GEN MGR COLD FINISH OPERATIONS

*Amn Bhatia*

MTM 05 5/19/05

*32084*



401 ROSE AVE S E  
MASSILLON, OH 44646

FAX 330-837-7017

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS

JANUARY 26, 2005  
PAGE: 3 OF 3

PURCHASE ORDER: 42904-3  
PART NUMBER : S# 47670  
ORDER NUMBER: 12-52585-06 821  
HEAT : 8969595

PURCHASE ORDER DATE: 05/24/04  
ACCOUNT NUMBER : 27759001  
SCHEDULE : 58828-

NOTES (CONTINUED)

NO WELDING OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENT OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUES TITLE 18 CHAPTER 47.

I HEREBY CERTIFY THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

WHEN EVALUATED, MACRO ETCHES WERE VISUALLY RATED ON SAMPLES ETCHED USING HYDROCHLORIC ACID AT A TEMPERATURE 170 DEGREES (F) (+/- 10 DEGREES F)

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

MFG IN THE U.S.A.

ALISON J. BLONDHEIM  
NOTARY PUBLIC, STATE OF OHIO  
MY COMMISSION EXPIRES MARCH 10, 2009

END OF DATA  
FAX SHIP TO 1 COPY ATTENTION BUNNIE ISAKA  
MAIL SOLD TO 1 COPY ATTENTION BUNNIE ISAKA  
FILE 1 COPY  
WITH SHIPMENT 1 COPY

END OF DATA  
562-802-7481

SHIPPING AREA:

32984

FRY STEEL CO. CERTIFIES THAT THIS IS  
A TRUE COPY OF THE ORIGINAL MILL TEST  
REPORT NOW ON FILE.  
RECEIVED AND INSPECTED

FEB 14 2005

Bunnie Isaka

AMAN BHATIA  
GEN MGR COLD FINISH OPERATIONS

Amn Bhatia

MTM 08 5/19/05

**Tensile Test Report**

Company: Eastwood Mfg. Date: 4/22/2005  
 Attention: Dale Stark Lab Report #: 05-0420-01  
 Identification: AISI 4340 P.O. #: 32984  
 Procedure: \_\_\_\_\_ 1-3/8" O.D.  
 Process: \_\_\_\_\_  
 Filler: \_\_\_\_\_ Heat#8989585  
 Qualification: \_\_\_\_\_  
 Welder: \_\_\_\_\_

**TENSILE TEST**

Lab ID	Dimensions	Area	Yield Lbs	Ultimate Load Lbs	Yield P.S.I.	Tensile P.S.I.
C	.504 round	.1995	31,880	34,700	159,700	174,000

Elongation	Reduction of Area	Fracture	Comments
18.2%	52.3%	Ductile	

Tests performed in accordance with ASTM A370, E8, and WH Laboratories, LLC Quality Assurance Manual.  
 2% Offset Yield - Gauge Length 2,000" for .800", and 1,400" for .392" tensile per ASTM A370.  
 Test specimens retained for one (1) week maximum; unused material is retained for one (1) month.

Approved by: Robert French  
 Robert French

MTM 09 5/19/05

32984

32984



MAY-13-2005 12:55 FROM:

TO: 2814470098

P: 2/2

### SEI HEAT TREAT

PO BOX 16339 HOUSTON, TX 77212  
PHONE (713) 699-3882 FAX (713) 694-0891

<b>CUSTOMER:</b> EASTWOOD MANUFACTURING	<b>CERTIFICATION DATE:</b> MAY 11, 2005
<b>CERTIFICATION/SO NUMBER:</b> 37905	<b>CUSTOMER ORDER NUMBER:</b> 32984

<b>MATERIAL:</b> 4340	<b>NUMBER OF PIECES:</b> 28
<b>DESCRIPTION:</b> 1-3/8" X 6" STUDS SILVER PLATED	<b>PART NUMBER(S):</b> N/A
<b>SPECIFICATION NUMBER:</b> EASTWOOD MANUFACTURING	<b>REFERENCE:</b> N/A

HEAT TREAT PROCESS	TIME AT HEAT	COOLANT
<i>BAKE</i>	<i>950°</i>	<i>AIR</i>

32984

32984

<b>HARDNESS TEST:</b>	<b>NUMBER OF PIECES TESTED:</b>
-----------------------	---------------------------------

<b>WE HEREBY CERTIFY THAT THE SERVICE FURNISHED ON THE ABOVE PURCHASE ORDER IS PROVIDED IN ACCORDANCE WITH OUR QUALITY CONTROL MANUAL, REVISION B, DATED JANUARY 21, 2001</b>	<b>QUALITY CONTROL:</b> <i>Sam</i>
---	---------------------------------------

MTM 09 5/19/05

Part Number (Detail / Sub-Asy / Assy)	Rev.	Page	of
DS141-036		1	1
Part Name (Detail / Sub-Asy / Assy)			
Stud, 1.375-6 2A x .9 Lg			
MATERIAL:		WORK ORDER #	Quantity
		329B4	126

INSPECTION DATA  
CHECK LIST  
FOR  
Major Tool & Machine Inc.

Eastwood Manufacturing  
8825 Breen Rd.  
Houston, Texas 77086  
(281) 447-0081 fax (281) 447-0088

P.O. P05-01160

SHT	ZONE	P.O. - DRAWING - SPECIFICATION DESCRIPTION		INSPECTION INSTRUCTIONS			INSPECTION RESULTS			INSPECTED BY		
		CHARACTERISTIC		GAGE/EQUIP.	BY	SAMPLE	DATA	CAR NO.	REMARKS	MFG	QA	DATE
		Length 9.00	+ .25 - .00	Caliper #201	ns	25	9.025	- 9.217		NS	5-5-05	
		4.50		Caliper #200	ns	25	4.50			NS	5-5-05	
		Pitch										
		Dia. 1.2643	- 1.2562	Mic 1-2	ns	24	1.261	- 1.257		NS	5-5-05	
		Body Dia. 1.375	+0.000 -0.002	#207 Mic 1-2	ns	25	1.3748	- 1.3749		NS	5-5-05	
		Thread		Gage #G017	ns	25		ok		NS	5-5-05	
		NOGO		Gage #G017N								

COMMENTS: RECORD ALL DIMENSIONS THAT CARRIES A TOLERANCE OF (.2) .25mm OR LESS

MTM 09 5/19/05

INDUSTRIAL METAL FINISHING

CERTIFICATE OF COMPLIANCE

TO: EASTWOOD MFG. 5/86  
P.O. BOX 41447  
HOUSTON, TX 77241

THIS IS TO CERTIFY THAT THE METAL FINISHING SERVICE RENDERED ON ITEM(S)

126 EA. - 1.375 X 9 DE STUDS  
252 EA. - 2.75 OD WASHERS  
252 EA. - 1.375 12PT NUTS

ON PURCHASE ORDER 32984 LISTED ON OUR INVOICE #00132583

MEETS OR EXCEEDS THE REQUIREMENTS OF SPECIFICATION NUMBER

CERT: SILVER PLATE PER AMS 2410  
NO BAKE REQUIRED

QUALITY PROGRAM DATED: 05/01/93 REVISION: 1 DATED: 04/01/94

Toni McPherson  
NAME:

QC Manager 5/10/05  
TITLE DATE

32984

MTM 09  
5/19/05

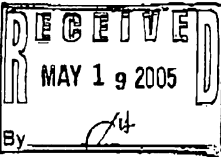
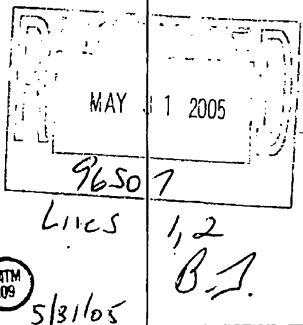


55 Nadeau Drive  
 Rochester, NH 03867  
 Ph: (603) 332-4555 Fax: (603) 332-5357  
 www.spauldingcom.com

Shipping List 072435  
 Customer No 101193  
 Sales Order Shipper

Sold to : STANDARD GRINDING & MFG CO  
 3721 W. CHASE AVENUE  
 SKOKIE, IL 60076  
 United States

Ship to : STANDARD GRINDING & MFG CO  
 3721 W. CHASE AVENUE  
 SKOKIE, IL 60076  
 United States

Ship Date	Customer PO	Sales Order	# of Boxes	Weight	Ship VIA	Bill of Lading	FOB
05/17/2005	80624	085171-00	1	0	YELLOW	072435	DE
Item	Part / Description / Details				Order Quantity	Ship Qty	
000001	39G1CNT73125NMWLF U/M SHT SO Item 4				1.00000		
	G-11-CR 48" +untrimmed X 36" +untrimmed Thickness: 3.125" +/- .110"  PLEASE NOTE THAT THERE IS NO NEMA STANDARD FOR G-11 CR SHEET  SPAULDING C OF C TO G-11 CR SHEET NO TESTING REQUIRED AT TIME OF ORDER  <i>Sheet len 3.550 TC</i>					1.00000	
							

**CERTIFICATE of CONFORMANCE**

WE HEREBY CERTIFY THAT THE MATERIAL SUPPLIED ON THIS ORDER WAS MADE IN ACCORDANCE WITH THE STANDARDS AND PROCESSES ESTABLISHED BY SPAULDING COMPOSITES COMPANY FOR THE REQUIREMENTS OF MATERIAL DESCRIBED ABOVE.

LOT # \_\_\_\_\_ DOM.  
 Authorized By: Mark L. Caudillo Date: 05/17/2005

Customer Copy

Page # 1

Form: SCSHIP Rev: 8/99



**Spaulding**  
COMPOSITES

55 Nadeau Drive  
Rochester, NH 03867  
Ph: (603) 332-0555 Fax: (603) 332-5357  
www.spauldingcom.com

**Shipping List 072434**

Customer No 101193  
Sales Order Shipper

Sold to : **STANDARD GRINDING & MFG CO**  
3721 W. CHASE AVENUE  
SKOKIE, IL 60076  
United States

Ship to : **STANDARD GRINDING & MFG CO**  
3721 W. CHASE AVENUE  
SKOKIE, IL 60076  
United States

Ship Date	Customer PO	Sales Order	# of Boxes	Weight	Ship VIA	Bill of Lading	FOB
05/17/2005	60624	065169-00	1	716	YELLOW	072434	DE
Item	Part / Description / Details				Order Quantity	Ship Qty	
000001	39G1CNT/1850NMWLF U/M SHT SO Item 5 G-11-CR 48" *UNTRIMMED X 36" *UNTRIMMED THK: 1.850" +/- .070"  PLEASE NOTE THAT THERE IS NO NEMA STANDARD FOR G-11 CR SHEET  SPAULDING C OF C TO G-11 CR SHEET NO TESTING REQUIRED AT TIME OF ORDER				1.00000	1.00000	

**RECEIVED**  
MAY 19 2005  
By: *[Signature]*

*S/31/05*  
MTM 05

**CERTIFICATE of CONFORMANCE**

WE HEREBY CERTIFY THAT THE MATERIAL SUPPLIED ON THIS ORDER WAS MADE IN ACCORDANCE WITH THE STANDARDS AND PROCESSES ESTABLISHED BY SPAULDING COMPOSITES COMPANY FOR THE REQUIREMENTS OF MATERIAL DESCRIBED ABOVE.

LOT # \_\_\_\_\_ DOM. \_\_\_\_\_  
Authorized By: *Mark Li Caudillo* Date: 05/17/2005

Customer Copy

Page # 1

Form: SCSHIP Rev: 8/99

00/003/003

ATLAS FIBRE CO.

847 874 1723

05/26/05 13:00

EASTWOOD MANUFACTURING  
CERTIFICATION OF COMPLIANCE

CUSTOMER : MAJOR TOOL AND MACHINE  
ORDER # : P05-0116

DATE : 5-16-05  
OUR NUMBER 32982

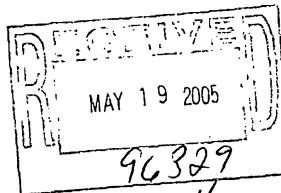
WE CERTIFY THAT THE MATERIALS SUPPLIED ON YOUR ORDER  
LISTED ABOVE COMPLIES WITH THE REQUIREMENTS OF YOUR ORDER  
AND OF THE SPECIFICATIONS LISTED BELOW

DESCRIPTION :

Lot No.:	Part :	Heat No.:	
32982-1	DS141-060	8977349	1 5/8 Round, forged and machined to size
56 PIECES	ASTM A286		Heat Treat: 36891
	Silver plated		Silver plate: IMF 00132663
	Per AMS2410		Post plate bake: none
			Tensile test: WH 05-0426-20

TENSILE KSI	YIELD KSI	ELONGATION	REDUCTION	HARDNESS
150	120	14	35	
PASS	PASS	PASS	PASS	PASS

DALE STARK  
EASTWOOD MANUFACTURING



1-4  
B. J



Washers NUTS



GARY COLD FINISHED BAR PLANTS  
PHONE: 219-886-8129 FAX: 219-886-8123

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS

SEPTEMBER 27, 2004  
PAGE: 1 OF 2

PURCHASE ORDER: 4271425  
PART NUMBER : SN 31250  
ORDER NUMBER: 12-51689-04 823  
HEAT : 8977349

PURCHASE ORDER DATE: 03/11/04  
ACCOUNT NUMBER : 27759001  
SCHEDULE : 54199

CHARGE ADDRESS

SHIP TO

*Handwritten:* 2011/10

FRY STEEL COMPANY  
BUNNIE ISAKA  
13325 MOLETTE ST  
SANTA FE SPRINGS CA 90670

FRY STEEL COMPANY  
BUNNIE ISAKA  
C/O CMI  
4201 W 36TH ST  
CHICAGO IL 60623

MATERIAL DESCRIPTION

COLD FINISHED STEEL BARS ALLOY ASTM A 331-95 ASTM A 108-03 LEVEL 2 MIL S 5626C  
& AMD 1 COND C-4 EXC MARK & PARA 4.3.1 & 4.12.1 WAIVED AMS 6382M AMS 2304A AMS  
6349C EXC THERMAL TREATMENT AMS 2301J AMS - S - 5626 ISS 12/98 EXC PARA 4.3.1 &  
4.12.1 EF-AISI-4140 AIRCRAFT Q TURNED & POLISHED ANN BEFORE TURN

SIZE: RDS 1.6250 X 11 7/16 FT

LADLE CHEMISTRY %

C	MN	P	S	SI	CU	NI	CR	MO	AL
0.42	00.90	.011	.020	0.24	0.18	00.16	00.97	0.21	00.027
V	N	CB	SN						
0.004	.0067	0.002	.009						

SEMI-FINISH RESULTS

AUSTENITIC GRAIN SIZE  
AUST GRAIN SZ 7

JOMINY STD				SAE J406				ASTM A255																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32	
58	57	57	56	56	56	55	55	53	52	50	48	47	45	44	43	40	39	38	38	38	38	37	38	37

MACROETCH SRC SURFACE : RANDOM 1. CENTER 1. ASTM E381 MIL STD 430

MAG PARTICLE 2301 AVG FREQ 0.00 AVG SEV 0.00 AMS 2301

MAG PARTICLE 2304 AVG FREQ 0.00 AVG SEV 0.00 AMS 2304

FINISH SIZE RESULTS

SCHEDULE: 54199  
ASTM E10 ASTM A370

BHN	HT	TRTD (LAB)	SURFACE	187
PCE 01			SURFACE	187
PCE 02			SURFACE	187
PCE 03			SURFACE	187
PCE 04			SURFACE	187
PCE 05			SURFACE	187

MATERIAL SOURCES  
RED. RATIO  
TC 1  
58.2

NOTES

DECARB NIL

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS:  
ASTM E 327 ASTM E 1086 ASTM E 415 ASTM E 1019 ASTM E 1085 ASTM E572.

NO WELDING OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL

AMAN BHATIA  
GEN MGR COLD FINISH OPERATIONS

*Handwritten signature:* Aman Bhatia

*Handwritten:* 5/15/05  
**MTM 05**



GARY COLD FINISHED BAR PLANTS  
PHONE: 219-886-8129 FAX: 219-886-8123

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS

SEPTEMBER 27, 2004  
PAGE: 2 OF 2

PURCHASE ORDER: 42714-5  
PART NUMBER : SN 51250  
ORDER NUMBER: 12-51689-04 823  
HEAT : 8977349

PURCHASE ORDER DATE: 03/11/04  
ACCOUNT NUMBER : 27759001  
SCHEDULE : 54199-

NOTES (CONTINUED)

I HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN INSPECTED AND TESTED IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATION.

MFG IN THE U.S.A.

EVELYN GREENE  
NOTARY PUBLIC, STATE OF INDIANA  
MY COMMISSION EXPIRES OCTOBER 10, 2009

----- END OF DATA ----- CC ----- END OF DATA -----  
FAX BY FAX PC 1 COPY ATTENTION BUNNIE ISAKA  
MAIL SOLD TO 1 COPY ATTENTION BUNNIE ISAKA  
FILE 1 COPY  
WITH SHIPMENT 1 COPY PRINTED AT SHIPPING AREA

562-802-7481

PRY & STEEL CO CERTIFIES THAT THIS IS  
A TRUE COPY OF THE ORIGINAL MILL TEST  
REPORT NOW ON FILE  
REASON FOR AWW INSPECTED

OCT 05 2004

*[Handwritten Signature]*  
BUNNIE K. ISAKA - CC

AMAN BHATIA  
GEN MGR COLD FINISH OPERATIONS

*[Handwritten Signature]*



5/18/05



**Tensile Test Report**

Company: Eastwood Mfg. Date: 4/27/2005  
 Attention: Dale Stark Lab Report #: 05-0428-20  
 Identification: AISI 4140 P.O. #: 32982  
 Procedure: \_\_\_\_\_ 1-5/8" Diameter Bar  
 Process: \_\_\_\_\_  
 Filler: \_\_\_\_\_  
 Qualification: \_\_\_\_\_  
 Welder: \_\_\_\_\_

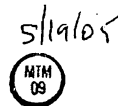
**TENSILE TEST**

Lab ID	Dimensions	Area	Yield Lbs	Ultimate Load Lbs	Yield P.S.I.	Tensile P.S.I.
E	.252 round	.0499	7,140	8,000	143,100	160,400

Elongation	Reduction of Area	Fracture	Comments
18.9%	61.2%	Ductile	

Tests performed in accordance with ASTM A370, E8, and WM Laboratories, LLC Quality Assurance Manual.  
 2% Offset Yield - Gage Length 2.000" for .500", and 1.400" for .350" tensile per ASTM A370.  
 Test specimens retained for one (1) week maximum; unused material is retained for one (1) month.

Approved by: Robert French  
 Robert French



**Eastwood Manufacturing**  
 9825 Breen Rd.  
 Houston, Texas 77086  
 (281) 447-0081 fax (281) 447-0098

**INSPECTION DATA**  
**CHECK-LIST**  
 FOR  
 Major Tool & Machine Inc.

P05-01161

Part Number (Detail / Sub-Assy / Assy)	Rev.	Page of
DS141-060		1 1
Part Name (Detail / Sub-Assy / Assy)		
Nut, 12 pt 1.375-6 UNC-2B		
MATERIAL:	WORK ORDER #	Quantity
	32982	252

P.O.	DRAWING - SPECIFICATION DESCRIPTION	INSPECTION INSTRUCTIONS			INSPECTION RESULTS	INSPECTED BY		
		CHARACTERISTIC	GAGE/EQUIP.	BY	SAMPLE	DATA, CAR NO., REMARKS	MFG	QA
	1.375 Maximum	Caliper #200	ns	25	1.375 - 1.370		NS	5-5-05
	2.216 Maximum	Caliper #200	ns	25	2.210 - 2.205		NS	5-5-05
	1.00	Caliper #200	ns	25	1.010 - 1.000		NS	5-5-05
	1.225 Minor Dia. 1.195	Caliper #200	ns	25	1.210 - 1.205		NS	5-5-05
	Thread GO - NOGO	gage 243 244	ns	25	ok		NS	5-5-05
	Across Flat 1.62	Caliper #200	ns	25	1.62		NS	5-5-05

COMMENT: RECORD ALL DIMENSIONS THAT CARRIES A TOLERANCE OF (+-.1.25mm OR LESS

MTM 09 5/11/05

From: Eastwood Manufacturing 281-447-0098 To: MAJOR TOOL & MACHINE Date: 5/17/2005 Time: 1:48:22 PM Page 13 of 22

mc108258.TIF (1684x2155x2.tif) [5]

INDUSTRIAL METAL FINISHING

CERTIFICATE OF COMPLIANCE

TO: EASTWOOD MFG. 5/86  
P.O. BOX 41447  
HOUSTON, TX 77241

THIS IS TO CERTIFY THAT THE METAL FINISHING SERVICE RENDERED ON ITEM(S)

- 126 EA. - 1.375 X 9 DE STUDS
- 252 EA. - 2.75 OD WASHERS
- 252 EA. - 1.375 12PT NUTS

ON PURCHASE ORDER 12984 LISTED ON OUR INVOICE #00132582

MEETS OR EXCEEDS THE REQUIREMENTS OF SPECIFICATION NUMBER

CERT: SILVER PLATE PER AMS 2410  
NO BAKE REQUIRED

QUALITY PROGRAM DATED: 05/01/93 REVISION: 1 DATED: 04/01/94

Tina McPhilly  
NAME:

QC Manager 5/10/05  
TITLE DATE

12984

5/19/05  
MTM  
09

EASTWOOD MANUFACTURING  
CERTIFICATION OF COMPLIANCE

CUSTOMER : MAJOR TOOL AND MACHINE  
ORDER # : P05-01162

DATE : 5-16-05  
OUR NUMBER 32983

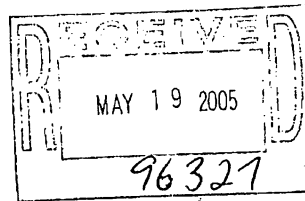
WE CERTIFY THAT THE MATERIALS SUPPLIED ON YOUR ORDER  
LISTED ABOVE COMPLIES WITH THE REQUIREMENTS OF YOUR ORDER  
AND OF THE SPECIFICATIONS LISTED BELOW

DESCRIPTION :

Lot No.:	Part :	Heat No.:	
32983-1	56 PIECES	DS141-079	8990135
		ASTM A286	2 3/4 Round, machined to size
		Silver plated	Heat Treat: 36891
		Per AMS2411	Silver plate: IMF 00132583
			Post plate bake: SEI 37904
			Tensile test: WH 05-0420-01

TENSILE KSI	YIELD KSI	ELONGATION	REDUCTION	HARDNESS
150	120	14	35	
PASS	PASS	PASS	PASS	PASS

DALE STARK  
EASTWOOD MANUFACTURING



1-4  
B.A

washers





401 ROSE AVE S E  
MASSILLON, OH 44646

FAX 330-837-7017

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS

FEBRUARY 14, 2005  
PAGE: 1 OF 3

-----  
PURCHASE ORDER: 43004-8 PURCHASE ORDER DATE: 07/13/04  
PART NUMBER : S# 48960 ACCOUNT NUMBER : 27759001  
ORDER NUMBER: 12-52806-08 821 SCHEDULE : 60703-  
HEAT : 8990135  
-----  
CHARGE ADDRESS ----- SHIP TO -----

5410065

FRY STEEL COMPANY  
BUNNIE ISAKA  
13325 MOLETTE ST  
SANTA FE SPRINGS CA 90670

FRY STEEL COMPANY  
BUNNIE ISAKA  
C/O CMI  
4201 W 36TH ST  
CHICAGO IL 60623

-----  
MATERIAL DESCRIPTION  
COLD FINISHED STEEL BARS ALLOY DOUGLAS SPEC DMS-1555H GRADE B DTD 07/02/91 EXC  
MARK & PARA 3 4 OIL TEMP & 3.5 BOEING SPEC BMS 7-280 LTV VUGHT AERO SPEC CVA  
1-5850 & AMD 1 EXC RED/AREA ASTM A 331-95 ASTM A 108-03 LEVEL 1 MIL 8 5000E  
COND E-3 EXC MARK AMS 6415R AMS 6409B AMS 2310E AMS 2301J AMS 2304A AMS 6484B  
AMS - S - 5000 ISSUE DTD 3/99 COND E3 EXC MARK EF-AISI-E-4340 AIRCR  
AFT O DBL TRANSV MECH PROP ROUGH TURNED NORM & SUBCRITICAL ANN BEFORE TURN S  
STRAIGHT REST CHEM FREE FROM DECARB  
-----

SIZE: RDS 2.7500/2.7734 X 11 /13FT  
LADLE CHEMISTRY %  
C MN P S SI CU NI CR MO AL  
0.42 00.73 .007 .004 0.26 0.15 01.74 00.86 0.20 00.034  
V N CB SN  
0.003 .0057 0.002 .010

-----  
SEMI-FINISH RESULTS  
AUSTENITIC GRAIN SIZE  
AUST GRAIN SZ 7.

DEVELOPED TENS TRANS      ASTM E8      ASTM A370  
NORMALIZE      AUSTENITIZE      QUENCHANT      TEMPER 1  
DEG F      DEG F      OIL      DEG F  
1650.      1550.      900.  
TEMP 1 TIME  
HOURS  
2.0

TENSILE      REDUCTION AREA  
PSI      PERCENT  
PCE H 20102 187750.      42.6  
PCE H 20302 190780.      50.8  
PCE T 20503 189630.      49.5  
PCE H 40102 190530.      49.0  
PCE H 40302 190020.      48.4  
PCE T 40503 187050.      51.2

32984

DEVELOPED TRANS TENSILE      ASTM E8      ASTM A370  
NORMALIZE      AUSTENITIZE      QUENCHANT      TEMPER 1  
DEG F      DEG F      OIL      DEG F  
1650.      1500.      475.  
TEMPER 2/SR      TEMP 1 TIME      TEMP 2 TIME  
DEG F      HOURS      HOURS  
475.      2.0      2.0

TENSILE      YIELD (.2%)      REDUCTION AREA      ELONGATION  
PSI      PSI      PERCENT      PERCENT  
PCE H 20102 269150.      229500.      33.4      8.7  
PCE H 20302 265160.      228430.      36.0      11.6  
PCE T 20503 264570.      227270.      39.5      10.6  
PCE H 40102 267580.      228000.      39.2      9.6  
PCE H 40302 268390.      228470.      42.0      11.4  
PCE T 40503 266130.      220000.      40.3      13.0

214

AMAN BHATIA  
GEN MGR COLD FINISH OPERATIONS

*Aman Bhatia*

5/19/05  
MTM  
09



401 ROSE AVE S E  
MASSILLON, OH 44646

FAX 330-837-7017

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS

FEBRUARY 14, 2005  
PAGE: 2 OF 3

-----  
PURCHASE ORDER: 43004-8 PURCHASE ORDER DATE: 07/13/04  
PART NUMBER : 9# 48960 ACCOUNT NUMBER : 27759001  
ORDER NUMBER: 12-52806-08 821 SCHEDULE : 60703-  
HEAT : 8990135

SEMI-FINISH RESULTS (CONTINUED)

DEVELOPED TRANS TENSILE		ASTM E8	ASTM A370	TEMPER 1
NORMALIZE		AUSTENITIZE	QUENCHANT	DEG F
DEG F		DEG F	OIL	DEG F
1650.		1500.		475.
TEMPER 2/SR		TEMP 1 TIME	TEMP 2 TIME	
DEG F		HOURS	HOURS	
475.		2.0	2.0	
TENSILE		YIELD (.2%)	REDUCTION AREA	ELONGATION
PSI		PSI	PERCENT	PERCENT
PCE H 20102	263440.	226720.	23.3	9.3
PCE H 20302	262050.	225300.	10.9	6.3
PCE T 20503	263070.	223390.	37.1	10.0
PCE H 40102	261610.	225430.	10.9	3.0
PCE H 40302	260030.	225620.	33.3	10.6
PCE T 40503	262820.	230000.	36.0	11.5

JOMINY STD SAE J406 ASTM A255  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32  
 59 59 58 58 58 57 57 57 57 57 57 56 56 56 56 56 55 55 54 54 53 52 52

MACROETCH SRC ASTM E381 MIL STD 430  
 AVG SURFACE 1. RANDOM 1. CENTER 1.

MAG PARTICLE 2301 AMS 2301  
 AVG AVG FREQ 0.00 AVG SEV 0.00

MAG PARTICLE 2304 AMS 2304  
 AVG AVG FREQ 0.00 AVG SEV 0.00

FINISH SIZE RESULTS SCHEDULE: 60703  
 HBW HT TRTD (LAB) ASTM E10 ASTM A370  
 PCE 01 SURFACE 197.  
 PCE 02 SURFACE 192.  
 PCE 03 SURFACE 192.  
 PCE 04 SURFACE 192.  
 PCE 05 SURFACE 197.

MATERIAL SOURCES  
 RED. RATIO  
 TO 1  
 20.9

TENSILE HT TRTD ASTM E8 ASTM A370  
 NORMALIZE  
 DEG F  
 PCE 01 1625.

52984

----- NOTES -----  
DECARB NIL

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS: ASTM E415, ASTM E1019, AND ASTM E1085.

NO WELDING OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENT OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUES TITLE 18 CHAPTER 47.

AMAN BHATIA  
GEN MGR, COLD FINISH OPERATIONS

*Aman Bhatia*

5/19/05  
MTM 09



401 ROSE AVE S E  
MASSILLON, OH 44646

FAX 330-837-7017

CERTIFICATE OF TESTS REPUBLIC ENGINEERED PRODUCTS

FEBRUARY 14, 2005  
PAGE: 3 OF 3

PURCHASE ORDER: 43004-8  
PART NUMBER : S# 48960  
ORDER NUMBER: 12-52806-08 821  
HEAT : 8990135

PURCHASE ORDER DATE: 07/13/04  
ACCOUNT NUMBER : 27759001  
SCHEDULE : 60703-

NOTES (CONTINUED)

I HEREBY CERTIFY THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

WHEN EVALUATED, MACRO ETCHES WERE VISUALLY RATED ON SAMPLES ETCHED USING HYDROCHLORIC ACID AT A TEMPERATURE 170 DEGREES (F) (+/- 10 DEGREES F)

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

MFG IN THE U.S.A.

ALISON J. BLONDHEIM  
NOTARY PUBLIC, STATE OF OHIO  
MY COMMISSION EXPIRES MARCH 10, 2009

END OF DATA	CC	END OF DATA
FAX SHIP TO 1 COPY	ATTENTION BUNNIE ISAKA	562-802-7481
MAIL SOLD TO 1 COPY	ATTENTION BUNNIE ISAKA	
FILE 1 COPY		
WITH SHIPMENT 1 COPY		

SHIPPING AREA:

32984

FRY STEEL CO. CERTIFIES THAT THIS IS  
A TRUE COPY OF THE ORIGINAL MILL TEST  
REPORT NOW ON FILE.  
RECEIVED AND INSPECTED

FEB 21 2005

BY *Bunnie Isaka*  
MATERIALS ENGINEER

AMAN BHATIA  
GEN MGR, COLD FINISH OPERATIONS

*Aman Bhatia*



04/22/2005 12:14

7138958986

WH LABORATORIES

PAGE 01

### Tensile Test Report

Company: Eastwood Mfg. Date: 4/22/2005  
 Lab Report #: 05-0420-01  
 Attention: Dale Stark P.O. #: 32984  
 Identification: AISI 4340  
 Procedure: 2-3/4" O.D. Washer  
 Process: \_\_\_\_\_  
 Filler: Heat#8990135  
 Qualification: \_\_\_\_\_  
 Welder: \_\_\_\_\_

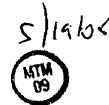
### TENSILE TEST

Lab ID	Dimensions	Area	Yield Lbs	Ultimate Load Lbs	Yield P.S.I.	Tensile P.S.I.
C	.245 round	.0471	7,860	8,770	186,700	186,000

Elongation	Reduction of Area	Fracture	Comments
14.0%	41.7%	Ductile	Transverse

Tests performed in accordance with ASTM A370, E8, and WH Laboratories, LLC Quality Assurance Manual.  
 2% Offset Yield - Gage Length 2.000" for .500", and 1.400" for .350" tensile per ASTM A370.  
 Test specimens retained for one (1) week maximum; unused material is retained for one (1) month.

Approved by: Robert French  
 Robert French



32984

32984



From: Eastwood Manufacturing 281-447-0098 To: MAJOR TOOL & MACHINE

Date: 5/17/2005 Time: 1:48:22 PM

MAY-13-2005 12:53 FROM:

TO: 2814470098

# SEI HEAT TREAT

PO BOX 16339 HOUSTON, TX 77222  
PHONE (713) 699-3892 FAX (713) 694-0891

<b>CUSTOMER:</b> EASTWOOD MANUFACTURING	<b>CERTIFICATION DATE:</b> MAY 11, 2005
<b>CERTIFICATION/SO NUMBER:</b> 37904	<b>CUSTOMER ORDER NUMBER:</b> 32983

<b>MATERIAL:</b> 4340	<b>NUMBER OF PIECES:</b> 52
<b>DESCRIPTION:</b> 2-3/4" WASHERS SILVER PLATED	<b>PART NUMBER(S):</b> N/A
<b>SPECIFICATION NUMBER:</b> EASTWOOD MANUFACTURING	<b>REFERENCE:</b> N/A

HEAT TREAT PROCESS	TIME AT HEAT	COOLANT
<i>BAKE</i>	<i>900°</i>	<i>45 MIN</i>
		<i>AIR</i>

<b>HARDNESS TEST:</b>	<b>NUMBER OF PIECES TESTED:</b>

<b>WE HEREBY CERTIFY THAT THE SERVICE FURNISHED ON THE ABOVE PURCHASE ORDER IS PROVIDED IN ACCORDANCE WITH OUR QUALITY CONTROL MANUAL, REVISION B, DATED JANUARY 21, 2001</b>	<b>QUALITY CONTROL:</b> <i>Joni</i>
---	--

37904

32983

5/19/05  
MTM  
09

Part Number (Detail / Sub-Asy/ Asy) DS141-079	Rev.	Page of 1 1
Part Name (Detail / Sub-Asy / Asy) Flat Washer	WORK ORDER # 32983	Quantity 252
MATERIAL:		

**INSPECTION DATA CHECK LIST**  
 FOR  
 Major Tool & Machine Inc.  
 P.O. P05-01162

**Eastwood Manufacturing**  
 6825 Braem Rd.  
 Houston, Texas 77086  
 (281) 447-0081 fax (281) 447-0098

P.O. - DRAWING - SPECIFICATION DESCRIPTION			INSPECTION INSTRUCTIONS			INSPECTION RESULTS			
SHT	ZONE	CHARACTERISTIC	GAGE/EQUIP.	BY	SAMPLE	DATA, CAR NO., REMARKS	MFG	QA	DATE
		O.D. 2.75 ±.05	Caliper #200	ns	25	2.745 - 2.740		NS	5-5-05
		I.D. 1.66 ±.010	Caliper #200	ns	25	1.660 - 1.655		NS	5-5-05
		TK .500 ±.010	Caliper #200	ns	25	.505 - .498		NS	5-5-05

COMMENTS: RECORD ALL DIMENSIONS THAT CARRIES A TOLERANCE OF (+/-) .25mm OR LESS

MTM  
 PG 5/15/05

From: Eastwood Manufacturing 281-447-0088 To: MAJOR TOOL & MACHINE

Date: 5/17/2005 Time: 1:48:22 PM

Page 21 of 22

MAY-17-2005 12:25 FROM:

TO: 2814470098

P: 1/1

## SEI HEAT TREAT

PO BOX 14329 HOUSTON, TX 77222  
PHONE (713) 699-3892 FAX (713) 694-0491

<b>CUSTOMER:</b> EASTWOOD MANUFACTURING	<b>CERTIFICATION DATE:</b> APRIL 13, 2005
<b>CERTIFICATION/SO NUMBER:</b> 38881	<b>CUSTOMER ORDER NUMBER:</b> 32984

<b>MATERIAL:</b> 4340	<b>NUMBER OF PIECES:</b> 378
<b>DESCRIPTION:</b> 128 PCS. 1-3/8" X 9" DE STUDS 252 PCS. 2.75" WASHERS	<b>PART NUMBER(S):</b> N/A
<b>SPECIFICATION NUMBER:</b> EASTWOOD MANUFACTURING	<b>REFERENCE:</b> N/A

HEAT TREAT PROCESS	TIME AT HEAT	COOLANT
<i>HARDEN</i>	<i>1575°</i>	<i>3hr</i>
<i>TEMPER</i>	<i>980°</i>	<i>Oil Q</i>
		<i>Air</i>

<b>HARDNESS TEST:</b> <i>37-38<sup>R</sup></i>	<b>NUMBER OF PIECES TESTED:</b> <i>10</i>
---	--

<b>WE HEREBY CERTIFY THAT THE SERVICE FURNISHED ON THE ABOVE PURCHASE ORDER IS PROVIDED IN ACCORDANCE WITH OUR QUALITY CONTROL MANUAL, REVISION B, DATED JANUARY 21, 2001</b>	<b>QUALITY CONTROL:</b> <i>Louis Lb</i>
---	--

INDUSTRIAL METAL FINISHING

CERTIFICATE OF COMPLIANCE

TO: EASTWOOD MFG. 5/86  
P.O. BOX 41447  
HOUSTON, TX 77241

THIS IS TO CERTIFY THAT THE METAL FINISHING SERVICE RENDERED ON ITEM(S)

126 EA. - 1.375 X 9 DE STUDS  
252 EA. - 2.75 OD WASHERS  
252 EA. - 1.375 12PT NUTS

ON PURCHASE ORDER 32984 LISTED ON OUR INVOICE #00132583

MEETS OR EXCEEDS THE REQUIREMENTS OF SPECIFICATION NUMBER

CERT: SILVER PLATE PER AMS 2410  
NO BAKE REQUIRED

QUALITY PROGRAM DATED: 05/01/93 REVISION: 1 DATED: 04/01/94

Toni McGuffey  
NAME:

QC Manager 5/10/05  
TITLE DATE

32984

5/19/05  
MTR  
DR

Quality Assurance Documentation for Part ID: SE141-116 - Item: 13

Workorder: 65707/1-0 Sub:1 Op:90

Part: SE141-116 - MODULAR COIL WINDING FORM TYPE-C - PRODUCTION MODULAR COIL WINDING FORM TYPE-C

Drawing ID: SE141-116 Rev: 6		INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY				
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		RECORD RANGE UPPER AND LOWER LIMITS OF MAG PERMEABILITY READI (Mu) FOR THE AS CAST SURFACES	MASTER GAGE	QA		J-1270	LESS THAN 1.01 ( LESS THAN RANGE OF GAGE )	212-J.LE 09-20-05			A
(10)											
*		RECORD RANGE UPPER AND LOWER LIMITS OF MAG PERMEABILITY READI (Mu) FOR THE MACHINED SURFACES	MASTER GAGE	QA		J-1270	LESS THAN 1.01 ( LESS THAN RANGE OF GAGE )	212-J.LE 09-20-05			A
(20)											



Major

Tool & Machine, Inc.

1458 E. 19th Street, Indianapolis, In 46218  
TEL:(317)636-6433 FAX:(317)634-9420

# Nondestructive Test Certification For Liquid Penetrant Examination

Quality Assurance Documentation for Part ID: SE141-116 - Item: 14

Date of Inspection:09/20/2005

Type of Material:CAST STAINLESS

NDT#:13726

<b>Stage of Inspection:</b> <input type="checkbox"/> Incoming Inspection <input type="checkbox"/> In-Process Inspection <input type="checkbox"/> After Repair <input checked="" type="checkbox"/> Final Inspection	<b>Manufacturing Process:</b> <input type="checkbox"/> Weldment <input type="checkbox"/> Bar Stock <input type="checkbox"/> Forging <input checked="" type="checkbox"/> Casting <input type="checkbox"/> Plate <input type="checkbox"/> Other	<b>Surface Condition:</b> <input checked="" type="checkbox"/> Machined <input type="checkbox"/> Rough <input checked="" type="checkbox"/> Other CLEANED & DEBURRED	<b>Test Being Run to:</b> <input checked="" type="checkbox"/> Router Instructions <input checked="" type="checkbox"/> Drawing <input type="checkbox"/> Test Plan <input type="checkbox"/> Technique Card SEE NOTES	<b>Heat Treated:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
--	---	--	---	--

<b>Part Information:</b> MTM Job Number: 65707/1.0 -Sub:1 -Op:100 Resource ID: 810-LIQUID PENETRANT INSPE Part ID: SE141-116 Part Name: MODULAR COIL WINDING FOR Serial Number: MCWF C-1 (SE141-103-1) Customer P.O.: S005242-F Customer Unit/Plant:	<b>Test Results:</b> Quantity Inspected: 1 Quantity Accepted: 1 Quantity Rejected: 0  Run Hours: 0.0
---	---

<b>Customer Inspection Plan:</b> SEE NOTES <b>Test Step:</b> <b>Revision:</b> <b>Material Test Number:</b>	<b>Inspection Criteria:</b> <b>Customer Specification:</b> ASTM A903/A903M <b>MTM Spec Number:</b> PS582 (REF NDT-WI-09) <b>Acceptance Standard:</b> ASTM A903 (SEE NOTES)
---	---

<b>Inspection Materials Used:</b> <b>Manufacturer:</b> SHERWIN <b>Type of Penetrant:</b> DP-51 <b>Batch Number:</b> 41-E47 <b>Developer:</b> D-100 <b>Batch Number:</b> 410-L6	<b>Penetrant Examination Processes:</b> <b>Type:</b> II (Visible) / Dwell Time: 15 Minutes <b>Method:</b> A (Water Wash) <b>Method of Drying:</b> Normal Evaporation <b>Form:</b> e (nonaqueous for Type II visible dye) / Dwell Time: 12 Min
---	---

<b>Inspection Requirements:</b>					
100 % of all accessible surfaces	<input type="checkbox"/> Joint Preps	<input type="checkbox"/> Root Pass	<input type="checkbox"/> Back Gouge	<input type="checkbox"/> Cover Pass	<input checked="" type="checkbox"/> Other
SEE NOTES					

**Notes:**  
PT 100% of the part as-cast surfaces as well as finished machine surfaces.  
See PS582 for processing instructions.  
During the inspection also perform a visual inspection of the casting surface per ASTM A802/A802M and accept per the same. Include reference to ASTM A802 on the certification.  
Specification: ASTM A903/A903M  
Method: ASTM E165-02  
Acceptance Criteria: ASTM A903/A903M Level II for as cast surfaces  
Acceptance Criteria: ASTM A903/A903M, Section 7, Table1, Level I for machined surfaces including the entire "T" section (high stress areas)  
Certification: MTM certification to include the information per Supplementary Requirements S1 of ASTM A903/A903M  
MTM NDT Cert: LPI CERTIFICATION  
  
Deionized water used to preclean and rinse part.

This is to certify that the pieces specified have been inspected in accordance with the specifications shown.

Inspector: 667-J.BANNISTER

Date: 09/21/2005

*John R. Bannister Level II*


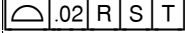






Quality Assurance Documentation for Part ID: SE141-116 - Item: 15

Workorder: 65707/1-0 Sub:1 Op:120

Part: SE141-116 - MODULAR COIL WINDING FORM TYPE-C - PRODUCTION MODULAR COIL WINDING FORM TYPE-C

Drawing ID: SE141-116 Rev: 6			INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY		
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT
1* (10)	E8	47.19 ± .03	CMM	QA		00064	47.17 - 47.18	339-E.R 09-29-05		A
1* (11)	G8	R17.00 +.25 -.00	CMM	QA		00064	17.09	339-E.R 09-29-05		A
1* (20)	B8	47.19 ± .03	CMM	QA		00064	47.18 - 47.19	339-E.R 09-29-05		A
1* (30)	D6	47.19 ± .03	CMM	QA		00064	47.18 - 47.19	339-E.R 09-29-05		A
1* (40)	C6	47.19 ± .03	CMM	QA		00064	47.20	339-E.R 09-29-05		A
1* (50)			CMM	QA		00064	.0109	339-E.R 09-29-05		A
1* (60)	B6		CMM	QA		00064	.0045	339-E.R 09-29-05		A
1* (70)	F3		CMM	QA		00064	REFERENCE IGES INF RMATION	339-E.R 09-29-05		A
2* (80)	H6	2X R.187 +.025 -.005	INDICATOR	QA		J-651	.185 - .187	339-E.R 09-29-05		A
2* (90)	G8	2X .03 X 45°		QA		VISUAL	NOT PRESENT	339-E.R 09-29-05		R
2* (100)	G8	.40 ± .010	CALIPER	QA		J-707	.39 - .41	339-E.R 09-29-05		A
2* (110)	G8	2X .030 X 45°		QA		VISUAL	NOT PRESENT	339-E.R 09-29-05		R
2* (120)	F7	2X .32	CALIPER	QA		J-707	.31 - .33	339-E.R 09-29-05		A
2* (130)	F7	2X R.11	RADIUS GAGE	QA		R-25	.12	339-E.R 09-29-05		A
2* (140)	G6	 P TO M	CMM	QA		00064	REFERENCE IGES INF RMATION	339-E.R 09-29-05		R
2*	G6	4.790 ± .005		QA		VISUAL	ACCEPT	339-E.R		A

INSPECTION DATA CHECKLIST

(150)								09-29-05		
2* (160)	G3	 Q TO N	CMM	QA	00064	REFERENCE IGES INF RMATION	339-E.R 09-29-05			R
2* (170)	G3	4.790 ± .005 RECORD NUMBER USED TO IDENTIFY POINT Q		QA	VISUAL	ACCEPT	339-E.R 09-29-05			A
2* (180)	F5	 M TO N	CMM	QA	00064	REFERENCE IGES INF RMATION	339-E.R 09-29-05			R
2* (190)	C5	 96X Ø.375-16 UNC .188 DEEP C'BORE Ø.625 AS SHOWN	CMM	QA	00064	.0043 - .1657 , .62 3 - .626	339-E.R 09-29-05			R
2* (200)	B4	2X .03 X 45°		QA	VISUAL	ACCEPT	339-E.R 09-29-05			A
3* (210)	G7	 8X Ø1-8 UNC THRU	CMM	QA	00064	.010 - .043	339-E.R 09-29-05			R
3* (220)	H4	.25 ± .01	CMM	QA	00064	SET	339-E.R 09-29-05			A
3* (230)	H3		CMM	QA	00064	.015	339-E.R 09-29-05			R
3* (240)	F3	.25 ± .01	CMM	QA	00064	SET	339-E.R 09-29-05			A
3* (250)	F3		CMM	QA	00064	.032	339-E.R 09-29-05			R
3* (260)	F5	R76.00	CMM	QA	00064	REFERENCE IGES INF RMATION	339-E.R 09-29-05			R
3* (270)	E5	R73.70	CMM	QA	00064	REFERENCE IGES INF RMATION	339-E.R 09-29-05			R
3* (280)	E4	 8X Ø1.13 THRU BACK SPOT FACE Ø2.38 MIN DEPTH FOR C'UP	CMM	QA	00064	.010 - .031	339-E.R 09-29-05			R
4* (290)	H8	 3X Ø1.88 THRU Ø3.00 BACK SPOTFACE	CMM	QA	00064	.0304 - .0442 , >3. 00 SPOT, 1.87 - 1.8 8 DIA.	339-E.R 09-29-05			R



### INSPECTION DATA CHECKLIST

(290)		MIN TO CLEANUP	SCALE			J-922		09-29-05	
4* (300)	H7	$\varnothing .01$ D A N 3X SPH R.75 TO .75 DEEP	CMM	QA		00064	.019 - .020 , R .7 4 - .745	339-E.R 09-29-05	R
4* (310)	H6	$\varnothing .01$ D A N 17X $\varnothing 1.88$ THRU $\varnothing 3.00$ BACK SPOTFACE MIN TO CLEANUP	CMM	QA		00064	.009 - .059, >3.00 SPOT, 1.87 - 1.88	339-E.R	R
4* (320)	H5	$\varnothing .01$ D A N 3X $\varnothing 1.13$ $\varnothing 2.38$ BACK SPOTFACE MIN TO CLEANUP	CMM	QA		00064	.047 - .054, 1.126 - 1.127	339-E.R	R
4* (340)	E6	$\varnothing .01$ D A N 3X $\varnothing 1.375-6$ UNC THRU	CMM	QA		00064	.022 - .039	339-E.R 09-29-05	R
4* (350)	E6	$\varnothing .01$ D A N 5X $\varnothing 1.88$ THRU $\varnothing 3.00$ BACK SPOTFACE MIN TO CLEANUP	CMM	QA		00064	.0019 - .0182, >3. 00 SPOT	339-E.R	R
4* (360)	D4	$\varnothing .01$ D A N $\varnothing 1.88$ THRU $\varnothing 3.00$ BACK SPOTFACE MIN TO CLEANUP	CMM	QA		00064	.018, >3.00 SPOT, 1.879 DIA.	339-E.R	R
4* (370)	B5	$\varnothing .01$ D A N 3X $\varnothing 1.13$ $\varnothing 2.38$ BACK SPOTFACE MIN TO CLEANUP	CMM	QA		00064	.001 - .007, >2.38 SPOT.	339-E.R	A
5* (380)	E8	$\varnothing .01$ E A J $\varnothing 1.88$ THRU $\varnothing 3.00$ BACK SPOTFACE MIN TO CLEANUP	CMM	QA		00064	0.77, >3.00 SPOT.	339-E.R	R
5* (400)	F6	3X $\varnothing 1.375-6$ UNC THRU	THREAD PLUG GA	QA		A-375	ACCEPT	339-E.R 09-29-05	A
5* (410)	F6	$\varnothing .01$ E A J 3X SPH R.75 TO .75 DEEP	CMM	QA		00064	.020 - .021	339-E.R 09-29-05	R
5* (420)	F7	7X .25-20 UNC -2B	THREAD PLUG GA	QA		A-67	ACCEPT	339-E.R 09-29-05	A
5*	E7	$\varnothing .01$ E A J 24X $\varnothing 1.88$ THRU $\varnothing 3.00$ BACK SPOTFACE	CMM	QA		00064	.008 - .040, >3.00 SPOT.	339-E.R	R

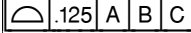
### INSPECTION DATA CHECKLIST

(430)		MIN TO CLEANUP	SCALE			J-922		09-29-05		
5*	E7	$\Phi$ .01 E A J 3X Ø1.5 TO 2.00 DEEP	CMM	QA		00064	.013 - .037	339-E.R		R
(440)		Ø3.00 TO 1.00 DEEP						09-29-05		
5*	D7	3X Ø1.88 THRU Ø3.00 BACK SPOTFACE MIN TO CLEANUP	CMM	QA		00064	1.87 - 1.88, >3.00	339-E.R		A
(450)			SCALE			J-922		09-29-05		
5*	G2	SPH R.75 TO .75 DEEP	CMM	QA		00064	.736 - .74	339-E.R		A
(460)								09-29-05		
6*	F2	$\square$ .02	05	QA						
(510)										
6*	F2	1.125 ± .010	05	QA						
(520)										
6*	F2	2.250 ± .010	05	QA						
(530)										
6*	E2	$\Phi$ .01 F P V 7X Ø1.625 THRU BOTH SIDES 14X Ø3.00 TO .500 BOTH SIDES	05	QA						
(540)										
7*	G2	R7.00	05	QA			REFERENCE IGES INF	339-E.R		R
(550)							RMATION	09-29-05		
7*	F2	2X R1.50	05	QA			REFERENCE IGES INF	339-E.R		R
(560)							RMATION	09-29-05		
7*	E2	2.52 ± .010	CMM	QA		00064	2.51	339-E.R		A
(570)								09-29-05		
7*	E2	90°	CMM	QA		00064	87.92	339-E.R		R
(580)								09-29-05		
7*	E1	2.0°	CMM	QA		00064	2.04	339-E.R		A
(590)								09-29-05		
7*	E2	2.64 ± .010	DEPTH MICROMET	QA		J-851	2.64	339-E.R		A
(600)								09-29-05		
7*	E2	6.50 ± .010	CMM	QA		00064	6.486	339-E.R		R
(610)								09-29-05		
7*	E2	3.06 ± .010	CMM	QA		00064	REFERENCE IGES INF	339-E.R		R
(620)							RMATION	09-29-05		

### INSPECTION DATA CHECKLIST

7* (630)	D2	R4.00 ± .010	CMM	QA		00064	REFERENCE IGES INFORMATION	339-E.R 09-29-05			R
7* (640)	D3	2.10 ± .010	CMM	QA		00064	REFERENCE IGES INFORMATION	339-E.R 09-29-05			R
8* (650)	G7	4.00 ± .010	CMM	QA		00064	3.98	339-E.R 09-29-05			R
8* (660)	G7	.25 ± .010	CMM	QA		00064	SET	339-E.R 09-29-05			A
8* (670)	G7	R4.00 ± .010	CMM	QA		00064	REFERENCE IGES INFORMATION	339-E.R 09-29-05			R
8* (680)	F7	2.00 ± .010	CMM	QA		00064	1.99	339-E.R 09-29-05			A
8* (690)	E3	9.38 ± .010	CMM	QA		00064	REFERENCE IGES INFORMATION	339-E.R 09-29-05			R
8* (700)	E2	6.0°	CMM	QA		00064	REFERENCE IGES INFORMATION	339-E.R 09-29-05			R
8* (710)	C2	Ø8.00 ± .010	CMM	QA		00064	REFERENCE IGES INFORMATION	339-E.R 09-29-05			R
8* (720)	B3	5.9°	CMM	QA		00064	REFERENCE IGES INFORMATION	339-E.R 09-29-05			R
8* (730)	B3	7.81 ± .010	CMM	QA		00064	REFERENCE IGES INFORMATION	339-E.R 09-29-05			R
8* (740)	C6	7.25 ± .010	CMM	QA		00064	REFERENCE IGES INFORMATION	339-E.R 09-29-05			R
8* (750)	D7	6X Ø.375-16 UNC TO .75 DEEP .03 X 45° CHAMFER	THREAD PLUG GA CALIPER	MFG		A-46 J-707	ACCEPT THREAD/CHAMFER, .53 - 1.32 DEPT H	339-E.R 09-29-05			R
8* (760)	D7	13.6 °	CMM	MFG		00064	13.16	339-E.R 09-29-05			A
8* (770)	D7	5.88 ± .010	CALIPER	QA		J-707	5.89	339-E.R 09-29-05			A
8* (780)	D7	2.19 ± .010	CMM	QA		00064	2.172 - 2.198	339-E.R 09-29-05			R
8* (790)	D7	2.19 ± .010	CMM	QA		00064	2.176 - 2.191	339-E.R 09-29-05			R
8* (800)	B7	4X R.50	RADIUS GAGE	QA		R-25	.50	339-E.R 09-29-05			A

### INSPECTION DATA CHECKLIST

8* (810)	B7	3.50 ± .010	CALIPER	QA		J-707	3.60	339-E.R 09-29-05		A
8* (820)	B7	1.75 ± .010	SCALE	QA		J-922	1.75	339-E.R 09-29-05		A
8* (830)	C8	2X 1.56 ± .010 THRU	CMM	QA		00064	1.) 1.56 2.) 1.79	339-E.R 09-29-05		R
8* (840)	C8	3.75 ± .010	CMM	QA		00064	3.90	339-E.R 09-29-05		R
8* (850)	C8	2X 7.50 ± .010 THRU	CMM	QA		00064	1.) 7.53 2.) 7.63	339-E.R 09-29-05		R
8* (860)	C8	8X R.25	RADIUS GAGE	QA		R-25	.25 - .28	339-E.R 09-29-05		R
8* (870)	C8	2X 2.52 ± .010	CMM	QA		00064	2.04 - 2.08 , 2.65 - 2.66	339-E.R 09-29-05		R
8* (880)	E2	Ø8.00 ± .010	CMM	QA		00064	7.992	339-E.R 09-29-05		A
9* (890)	F7	4X Ø.63 ± .010 THRU	PIN GAGE	QA		J-652	.62	339-E.R 09-29-05		A
9* (900)	E7	2.54 ± .010	CMM	QA		00064	REFERENCE IGES INF RMATION	339-E.R 09-29-05		R
9* (910)	E7	5.08 ± .010	CMM	QA		00064	REFERENCE IGES INF RMATION	339-E.R 09-29-05		R
9* (920)	F3	4X Ø.63 ± .010 THRU	PIN GAGE	QA		J-652	SEE #890	339-E.R 09-29-05		A
9* (930)	F3	2X Ø .50 ± .010 THRU	PIN GAGE	MFG		J-652	.498	339-E.R 09-29-05		A
9* (940)	E3	2.44 ± .010	CMM	QA		00064	REFERENCE IGES INF RMATION	339-E.R 09-29-05		R
9* (950)	E3	1.22 ± .010	CMM	QA		00064	REFERENCE IGES INF RMATION	339-E.R 09-29-05		R
9* (960)	C7	4X Ø.63 ± .010 THRU	PIN GAGE	QA		J-652	.622 - .624	339-E.R 09-29-05		A
9* (970)	C6	2X Ø.25 T.C. HOLE TO 2.5 DEEP	PIN GAGE	QA		J-652	.24	339-E.R 09-29-05		A
10* (980)	C8	 .125 A B C	CMM	QA		00064	REFERENCE IGES INF RMATION	339-E.R 09-29-05		R
10*	C8	 .5 A B C	CMM	QA		00064	REFERENCE IGES INF	339-E.R		R

INSPECTION DATA CHECKLIST

(990)							RMATION	09-29-05		
10* (1000)	C5		CMM	QA	00064	REFERENCE IGES INF	RMATION	339-E.R 09-29-05		R
10* (1010)	C4		CMM	QA	00064	REFERENCE IGES INF	RMATION	339-E.R 09-29-05		R
10* (1020)	G1		CMM	QA	00064	REFERENCE IGES INF	RMATION	339-E.R 09-29-05		R
10* (1030)	E1		CMM	QA	00064	REFERENCE IGES INF	RMATION	339-E.R 09-29-05		R
* (1040)		UOS ALL MACHINED SURFACES TO BE 250 RMS SURFACE FINISH RECORD RANGE	PROFILOMETER	QA	J-1152	31 - 500		339-E.R 09-29-05		R
1* (1050)		RECORD THE WEIGHT OF THE PART 6000LBS MAX		QA	SCALE	5080LBS		339-E.R 09-29-05		A
4* (1060)	H7	22.13 ± .010	CMM	QA	00064	TAP		339-E.R 09-29-05		R
4* (1070)	H7	47.79 ± .010	CMM	QA	00064	47.76		339-E.R 09-29-05		R
4* (1080)	H6	59.18 ± .010	CMM	QA	00064	59.16		339-E.R 09-29-05		R
4* (1090)	H6	73.27 ± .010	CMM	QA	00064	TAP		339-E.R 09-29-05		R
4* (1100)	H5	80.49	CMM	QA	00064	80.46		339-E.R 09-29-05		R
4* (1110)	H5	87.87 ± .010	CMM	QA	00064	87.84		339-E.R 09-29-05		R
4* (1120)	H5	89.64 ± .010	CMM	QA	00064	89.64		339-E.R 09-29-05		A
4* (1130)	G4	31.83 ± .010	CMM	QA	00064	TAP		339-E.R 09-29-05		R
4* (1140)	F4	24.10 ± .010	CMM	QA	00064	24.08		339-E.R 09-29-05		A
4* (1150)	F4	11.48 ± .010	CMM	QA	00064	11.46		339-E.R 09-29-05		R

**INSPECTION DATA CHECKLIST**

4* (1160)	E4	5.20 ± .010	CMM	QA		00064	5.19	339-E.R 09-29-05			A
4* (1170)	D4	18.31 ± .010	CMM	QA		00064	18.32	339-E.R 09-29-05			A
4* (1180)	D4	32.50 ± .010	CMM	QA		00064	32.50	339-E.R 09-29-05			A
4* (1190)	C5	77.13 ± .010	CMM	QA		00064	77.13	339-E.R 09-29-05			A
4* (1200)	C6	55.56 ± .010	CMM	QA		00064	55.55	339-E.R 09-29-05			A
4* (1210)	B7	23.74 ± .010	CMM	QA		00064	23.73	339-E.R 09-29-05			A
4* (1220)	C7	37.09 ± .010	CMM	QA		00064	37.08	339-E.R 09-29-05			A
4* (1230)	D8	17.22 ± .010	CMM	QA		00064	17.23	339-E.R 09-29-05			A
4* (1240)	F8	28.17 ± .010	CMM	QA		00064	TAP	339-E.R 09-29-05			R
4* (1250)	G8	12X .250-20 UNC-2B	THREAD PLUG GA	QA		A-517 VISUAL	ACCEPT	339-E.R 09-29-05			A
4* (1260)	G8	40.75 ± .010	CMM	QA		00064	40.74	339-E.R 09-29-05			A
4* (1270)	G8	43.42 ± .010	CMM	QA		00064	TAP	339-E.R 09-29-05			R
4* (1280)	D1	12X .25-20 UNC Ø.5 X 82° INCL. CHAMFER	THREAD PLUG GA	QA		A-517 VISUAL	ACCEPT	339-E.R 09-29-05			A
5* (1290)	H8	88.39 ± .010	CMM	QA		00064	88.39	339-E.R 09-29-05			A
5* (1300)	H7	86.42 ± .010	CMM	QA		00064	86.40	339-E.R 09-29-05			R
5* (1310)	H6	59.08 ± .010	CMM	QA		00064	59.06	339-E.R 09-29-05			A
5* (1320)	H5	28.71 ± .010	CMM	QA		00064	28.69	339-E.R 09-29-05			R
5* (1330)	G5	32.42 ± .010	CMM	QA		00064	32.41	339-E.R 09-29-05			A

**INSPECTION DATA CHECKLIST**

5* (1340)	D4	22.117 ± .005	CMM	QA		00064	22.118	339-E.R 09-29-05			A
5* (1350)	D4	38.14 ± .010	CMM	QA		00064	38.14	339-E.R 09-29-05			A
5* (1360)	D5	21.33 ± .010	CMM	QA		00064	21.32	339-E.R 09-29-05			A
5* (1370)	D7	87.62 ± .010	CMM	QA		00064	87.63	339-E.R 09-29-05			A
5* (1380)	E8	7.53 ± .010	CMM	QA		00064	7.53	339-E.R 09-29-05			A
5* (1390)	E8	4.91 ± .010	CMM	QA		00064	4.88	339-E.R 09-29-05			R
5* (1400)	G8	36.13 ± .010	CMM	QA		00064	36.12	339-E.R 09-29-05			A
7* (1410)	D4	2.1°	CMM	QA		00064	REFERENCE IGES INF RMATION	339-E.R 09-29-05			R
8* (1420)	D8	2.63 ± .010	CMM	QA		00064	2.63 - 2.65	339-E.R 09-29-05			R

Quality Assurance Documentation for Part ID: SE141-116 - Item: 16

Workorder: 65707/1-0 Sub:1 Op:140

Part: SE141-116 - MODULAR COIL WINDING FORM TYPE-C - PRODUCTION MODULAR COIL WINDING FORM TYPE-C

Drawing ID: SE141-103 Rev: 2		INSPECTION INSTRUCTIONS			RESULTS		INSPECTED BY				
SHEET	ZONE	CHARACTERISTIC	GAGE/EQUIP	BY	SAMPLE	SER#	DATA/REMARKS	INSP	VERFD	AUDIT	
*		INSPECT AND RECORD RESISTANCE ACROSS BOLT INSUL. VALUE TO BE >500 KOHM'S		QA			GREATER THAN 35,00 K-OHMS	840-G.M			A
(10)								09-29-05			
*		INSPECT AND RECORD RANGE OF RESISTANCE ACROSS POLOIDAL BREAK MIDPLANE AND BOLTS VALUE TO BE >500 KOHM'S		QA			GREATER THAN 100,0 0 K-OHMS	840-G.M			A
(20)								09-29-05			

Employees: 212-J.Lehr / 339-E.Root / 840-G.Masood