Metalex Manufacturing Inc.

Metalex

Certified ISO 9001 Quality Management
Veteran Owned Business 30 Plus Years

#1-- INSIDE Pkg - Cust Copy

Packing List# 39518 **Rel#** 1 **PAGE** 1
Metalex Job# 2006-5730

Ship To: STANFORD UNIVERSITY-SLAC
BUILDING 081, ROOM 118
2575 SAND HILL ROAD
MENLO PARK CA 94025

Date: 12/19/06
Ship Via:
PTA# _____ (prepaid shipments only)
BOL/Air Bill#
Prepaid: XXXXXXX **Collect:**
Weight: **Ctns:** **Zone:**
Dimensions:

Attn: BEN POLING 408-250-6877
Customer PO: 5A10359

P.O. Item No.	Qty Ordered	Qty Shipped	Qty Back Ordered	Description
004	15	1	3	LCLS UNDULATOR MAIN ASSY

ANL PART/REVISION NUMBER: L143-112000-05
SLAC PART NUMBER: SA-381-001-35
ASSEMBLY SERIAL NUMBER: 5A10359-26
STRONGBACK SERIAL NUMBER: 5A0699-26

THE FOLLOWING BOM ITEMS ARE LOOSE PARTS PACKAGED WITHIN THIS CRATE, BUT NOT ASSEMBLED TO THE MAIN STRUCTURE:

ITEM# 12	L143-110109	BRACKET 1	QTY-10
ITEM# 13	L143-110110	BRACKET 2	QTY-10
ITEM# 14	L143-110111	SCREW	QTY-40
ITEM# 17	91292A122	SHCS M4X0.7X25MM LG	QTY-20
ITEM# 18	91292A135	SHCS M6X1.0X16MM LG	QTY-20
ITEM# 24	L143-110703	PEAK FIELD SHIM	QTY-20

PLEASE ENSURE THESE ITEMS ARE ACCOUNTED FOR WHEN MAIN STRUCTURE IS REMOVED FROM CRATE.

-CERTIFICATE OF CONFORMANCE, INSPECTION DATA, AND CERTIFICATIONS ENCLOSED.

ANL SOURCE:

SIGNATURE: [signature] DATE: 12/20/06

PRINT: Glen Lawrence STAMP:

John Schultz 12/20/06
Manufacturer 2006 Dec 20
[signature] 12/20/06

Received By:

Printed Name _____ Signature _____ Date _____

MX3006 (10/02)

Total Customer Satisfaction
Veteran Owned Business 30 Plus Years

www.metalexmfg.com
sales@metalexmfg.com

5750 Cornell Road Cincinnati, Oh 45242-2083
Phone (513) 489-0507 Fax (513) 489-1020

Metalex Manufacturing Inc.
5750 Cornell Road • Cincinnati, OH 45242
Phone (513) 489-0507 • Fax (513) 489-1020
EMAIL: metalex@metalexmfg.com

Metalex
Customized Machinery and Parts
ISO 9001:2000 and AS9100 Certified
Veteran Owned Business 30 Plus Years

CERTIFICATE OF CONFORMANCE

Date: 12/19/2006
Customer: Argonne National Laboratory
9700 S. Cass
Argonne, IL 60439

Attention: Michael Oprondek

Metalex Job# 2006-5730
Purchase Order # 5A10359
MX Packing List # 39518

Metalex certifies that all material, processes, procedures, and dimensions are as called for on the purchase order, drawings, and/or amendments supplied by you.
All information concerning this part or parts, units and/or assemblies are on file at Metalex Manufacturing, Inc.

ITEM	QTY	PART NUMBER	REV	PART NAME	ID # *
004	1	L143-112000	05	LCLS Undulator Main Assembly	5A10359-26

*IDENTIFICATION NUMBER INCLUDES SERIAL #, HEAT #, AND/OR LOT #.

COMMENTS: "First Article" submitted on Metalex Shipper #37728 dated 3/31/06 (Job#05-4718).

SLAC Part Number: SA-381-001-35.

Assembly Serial Number: 5A10359-26.

Todd Caudill QE — Metalex Representative Signature
TODD CAUDILL MTX QC 12 — Print Name
12/19/2006 — Date

MX1011 (05/05)

Metalex Manufacturing
L143-112000 BOM/ASSY Undulator
Purchase Order No. 5A10359

LCLS Undulator L143-00076 Assembly Procedure

Assembly:

ANL Part/Revision Number: L143-112000-05
SLAC Part Number: SA-381-001-35
Assembly Serial Number: 5A10359-26

Dimensional Inspection Requirements:

20. *Dimensionally inspect overall height of the magnet assemblies to verify they are within specification before installation into the strongback.*

Dimension: 78mm (3.071")

L143-110800 Upper Left Magnet Structure Assembly	Actual: 77.98-78.00
L143-111000 Upper Middle Magnet Structure Assembly	Actual: 77.99-78.00
L143-111200 Upper Right Magnet Structure Assembly	Actual: 77.98-78.00
L143-110900 Lower Left Magnet Structure Assembly	Actual: 77.97-78.00
L143-111100 Lower Middle Magnet Structure Assembly	Actual: 77.99-78.00
L143-111300 Lower Right Magnet Structure Assembly	Actual: 77.99-78.00

Temperature at start of inspection: 22 Deg.C

Temperature at end of inspection: 22 Deg. C

Verification of completion of assembly procedure:

Completed By: Thomas A Becker **Date:** 12-12-06

5750 Cornell Road • Blue Ash Industrial Park • Cincinnati, OH 45242
Phone (513) 489-0507 • Fax (513) 489-1020

Metalex Manufacturing
L143-112000 BOM/ASSY Undulator
Purchase Order No. 5A10359

LCLS Undulator Training Record

L143-00066 Statement of Work for LCLS Undulator Main Assembly

Section 4.1.3.2 Training of Assembly Personal

Requirements:

1.) Review and understand L143-00066 Statement of Work

2.) Review and understand L143-112000 Drawing Package

3.) Review and understand L143-00076 Assembly Procedure

4.) Review and understand Magnet Installation Procedure ANL video

5.) Review and understand Magnet Structure Installation ANL video

Completed By: Thomas P. Becker **Date:** 2.27.06
Thomas P. Becker

5750 Cornell Road • Blue Ash Industrial Park • Cincinnati, OH 45242
Phone (513) 489-0507 • Fax (513) 489-1020

Metalex Manufacturing
L143-112000 BOM/ASSY Undulator
Purchase Order No. 5A10359

LCLS Undulator Training Record

L143-00066 Statement of Work for LCLS Undulator Main Assembly

Section 4.1.3.2 Training of Assembly Personal

Requirements:

1.) Review and understand L143-00066 Statement of Work

2.) Review and understand L143-112000 Drawing Package

3.) Review and understand L143-00076 Assembly Procedure

4.) Review and understand Magnet Installation Procedure ANL video

5.) Review and understand Magnet Structure Installation ANL video

Completed By: Rob Schuerman **Date:** 02/27/06
ROB SCHUERMANN

Metalex Manufacturing
L143-112000 BOM/ASSY Undulator
Purchase Order No. 5A10359

Assembly:

ANL Part/Revision Number: L143-112000-05
SLAC Part Number: SA-381-001-35
Assembly Serial Number: 5A10359-26

LCLS Undulator photographs per L143-00066 Sect. 4.1.3.3

L143-110800-02 Upper Left Magnet Structure Assembly

L143-110900-02 Lower Left Magnet Structure Assembly

L143-111000-102 Upper Middle Magnet Structure Assembly

L143-111000-202 Upper Middle Magnet Structure Assembly

L143-111000-302 Upper Middle Magnet Structure Assembly

L143-111100-102 Lower Middle Magnet Structure Assembly

L143-111100-202 Lower Middle Magnet Structure Assembly

L143-111100-302 Lower Middle Magnet Structure Assembly

L143-111200-02 Upper Right Magnet Structure Assembly

L143-111300-02 Lower Right Magnet Structure Assembly

Rob Schuermann Date: 12/18/06

Rob Schuermann

5750 Cornell Road • Blue Ash Industrial Park • Cincinnati, OH 45242
Phone (513) 489-0507 • Fax (513) 489-1020

12421 Ω
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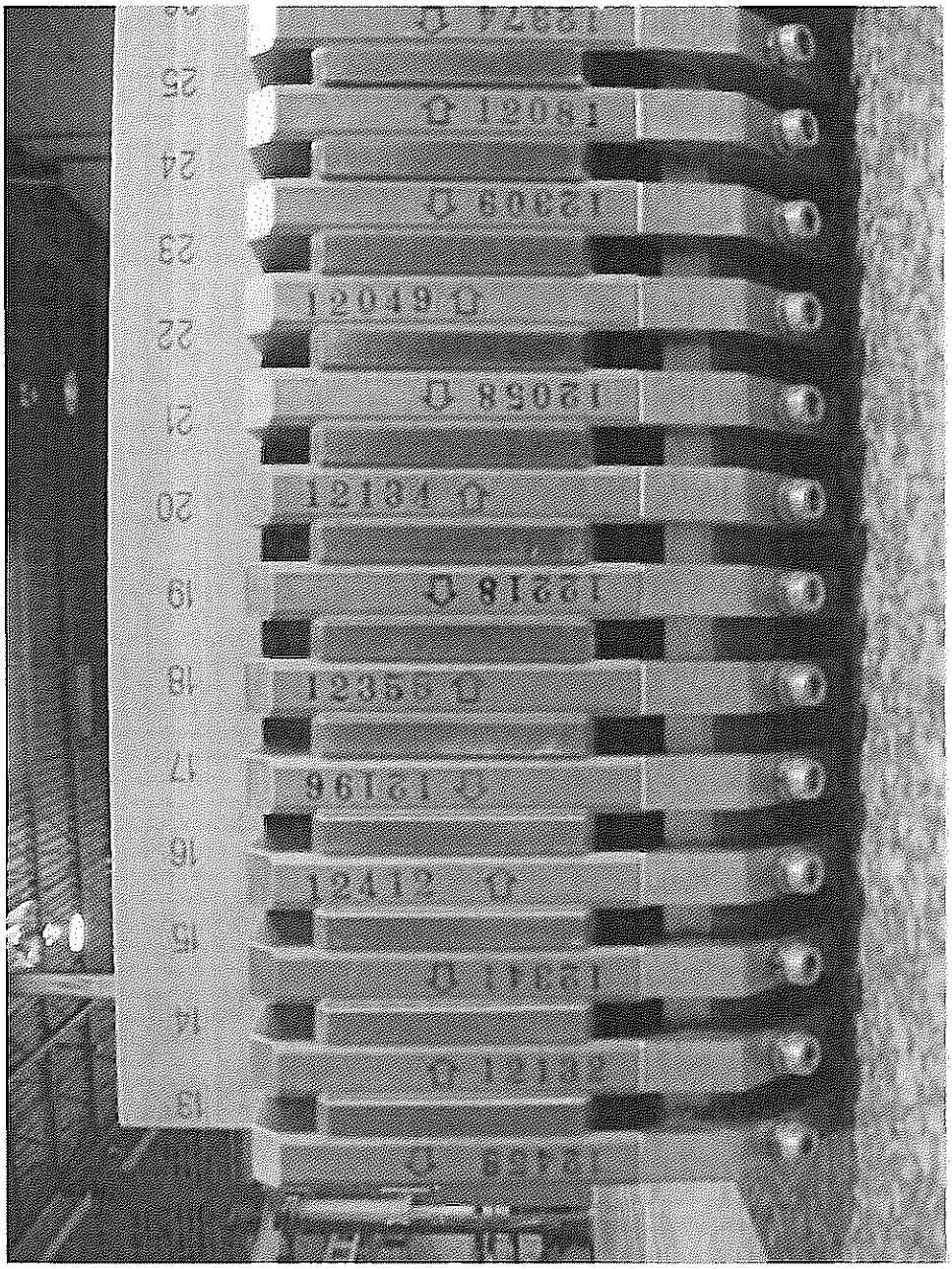

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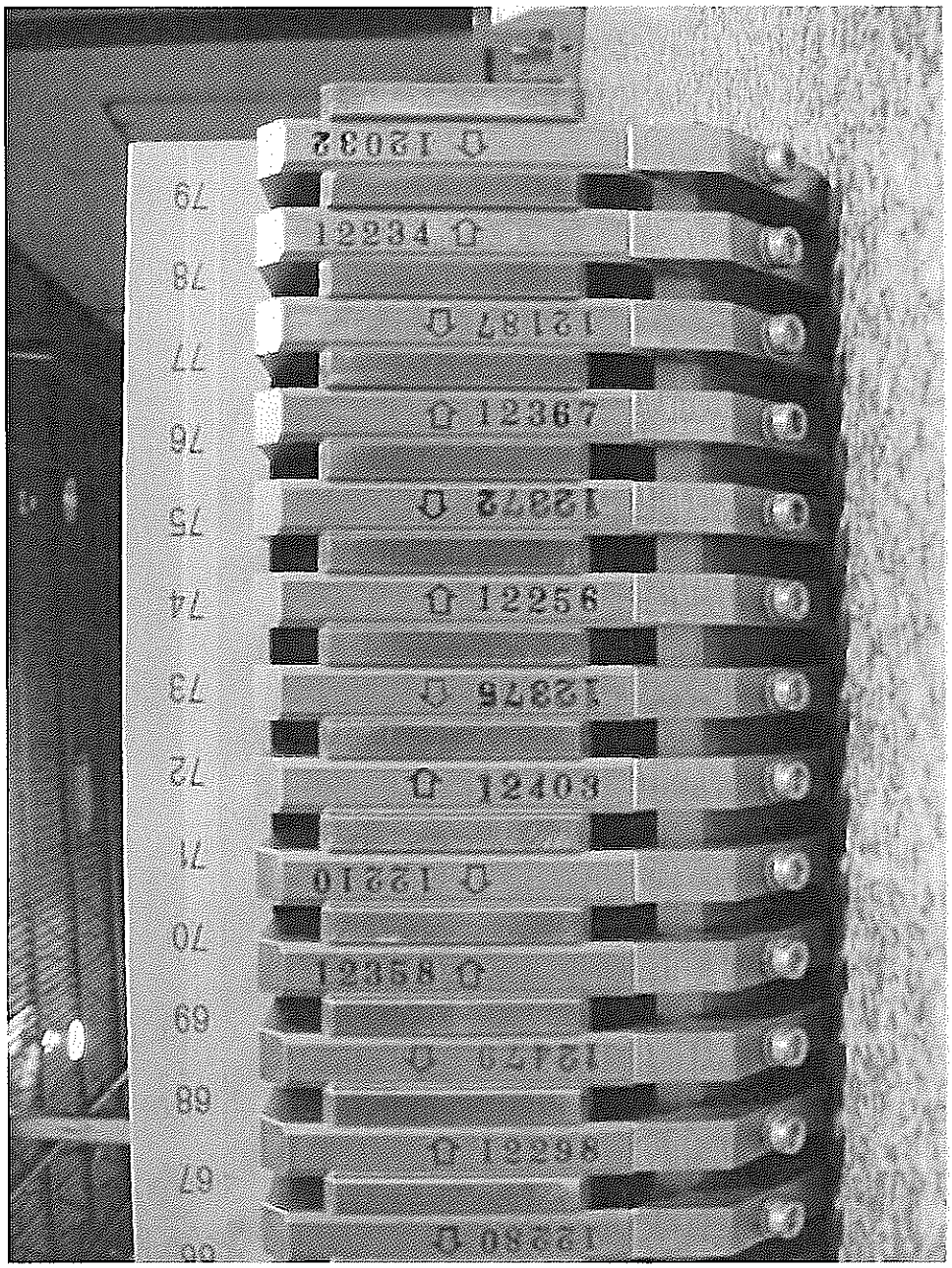

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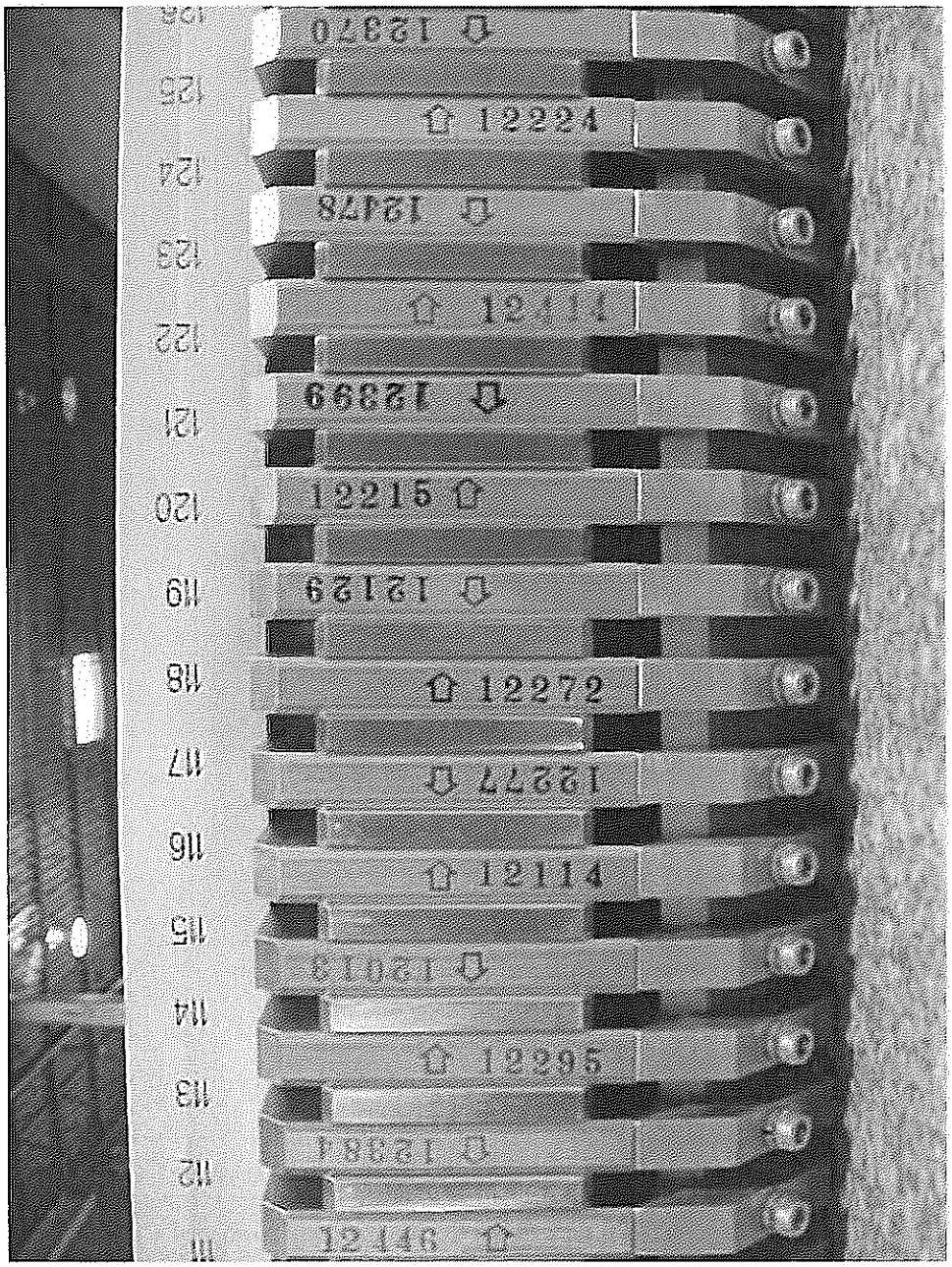
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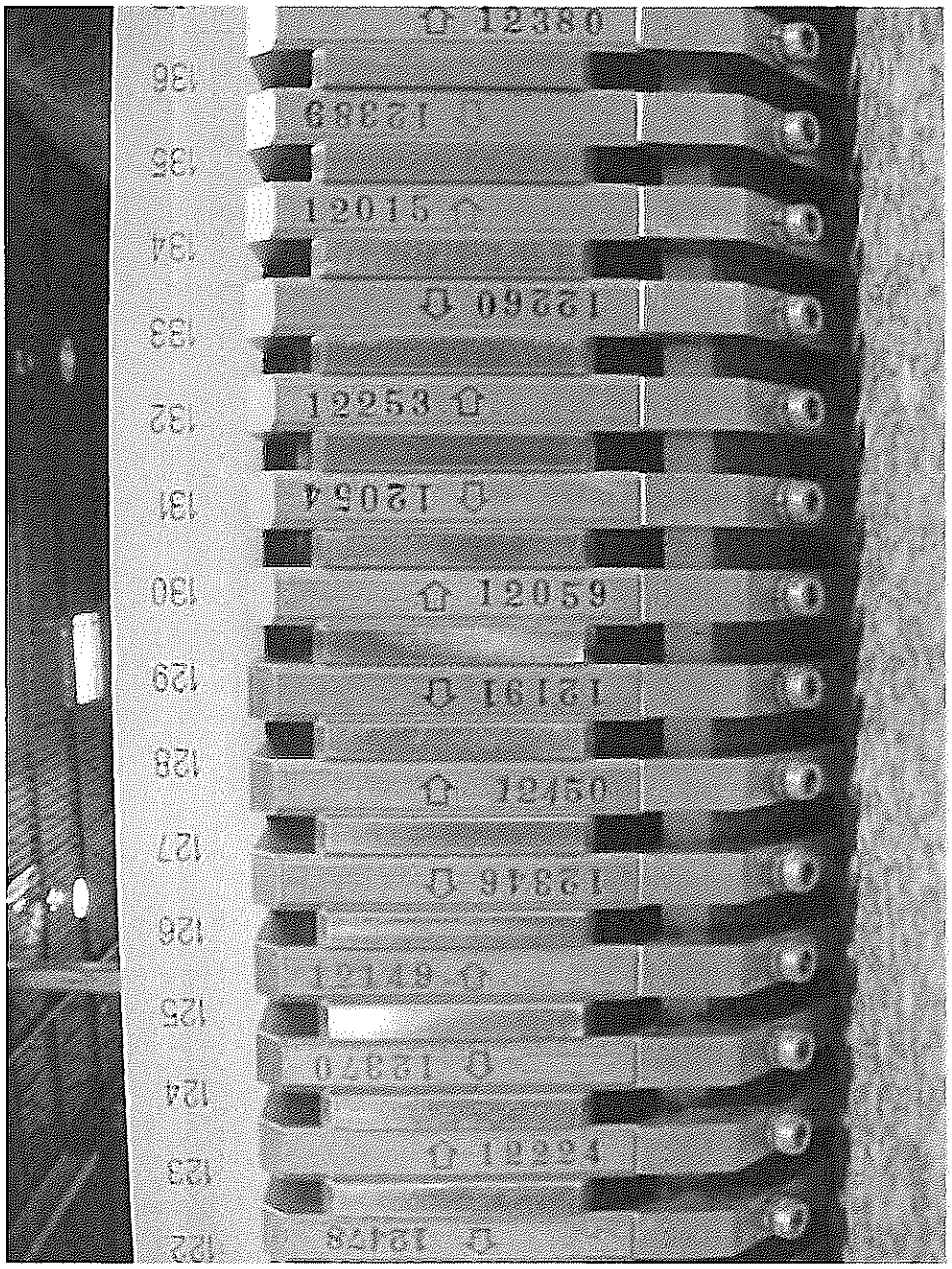
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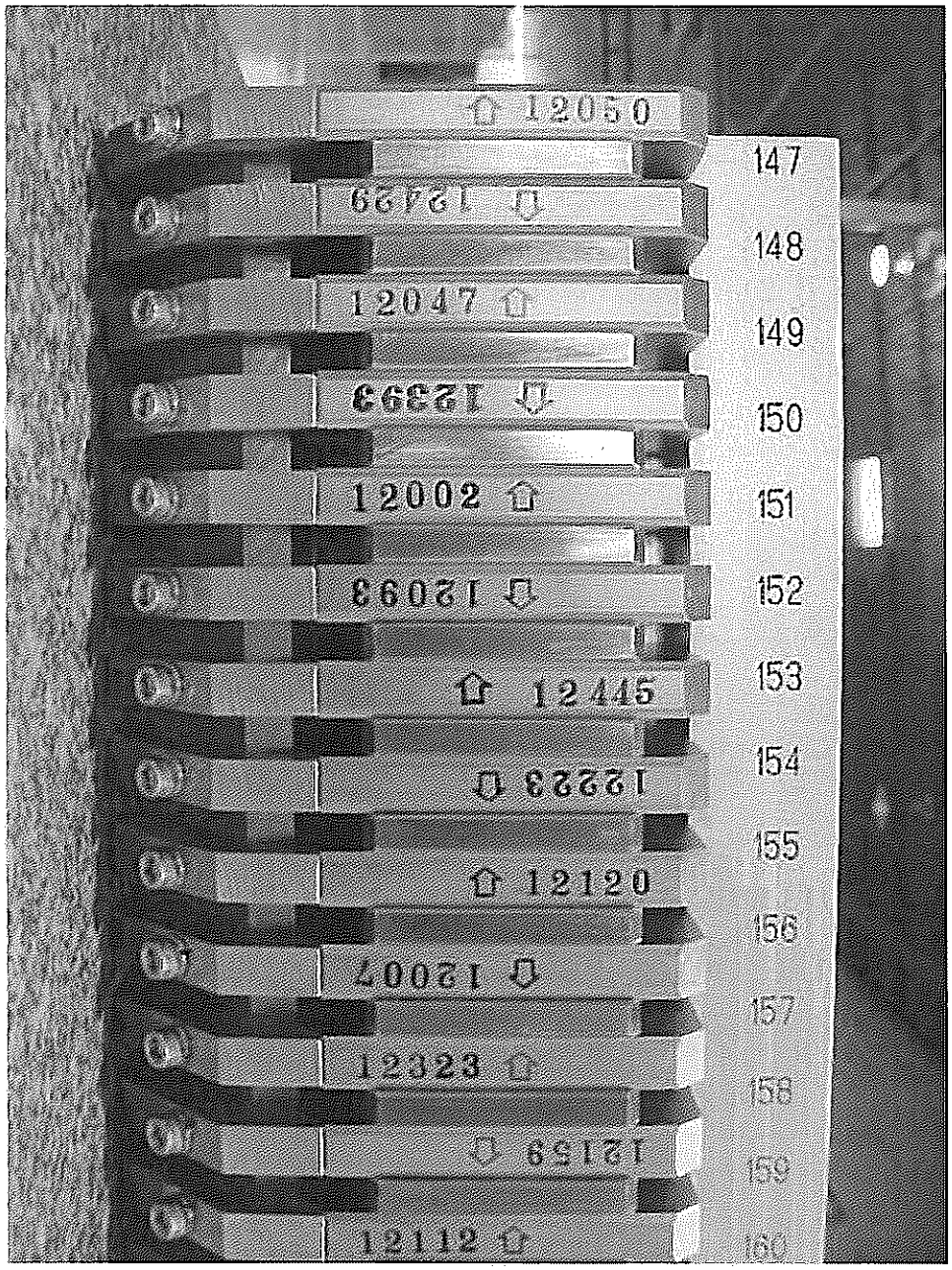
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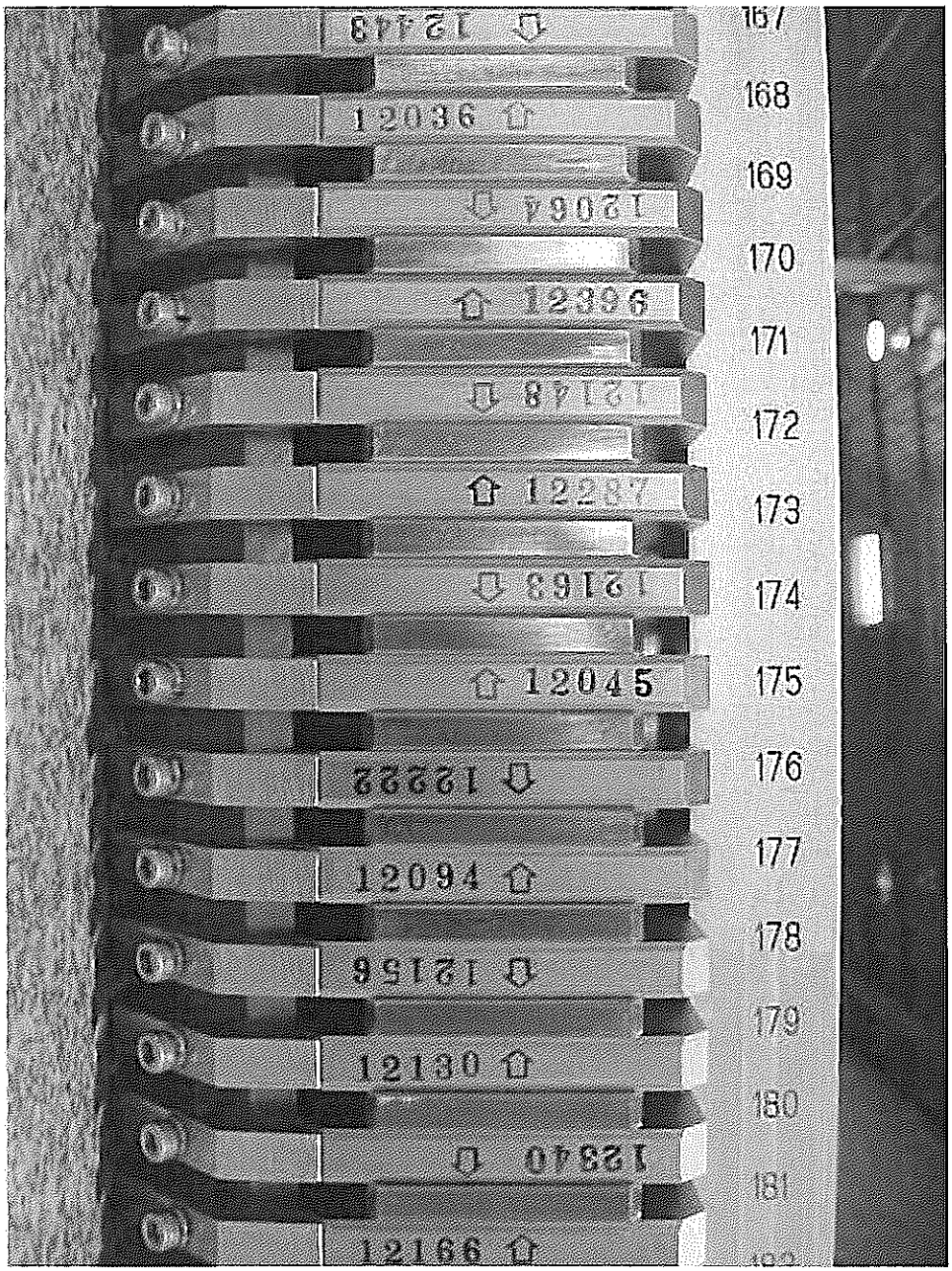
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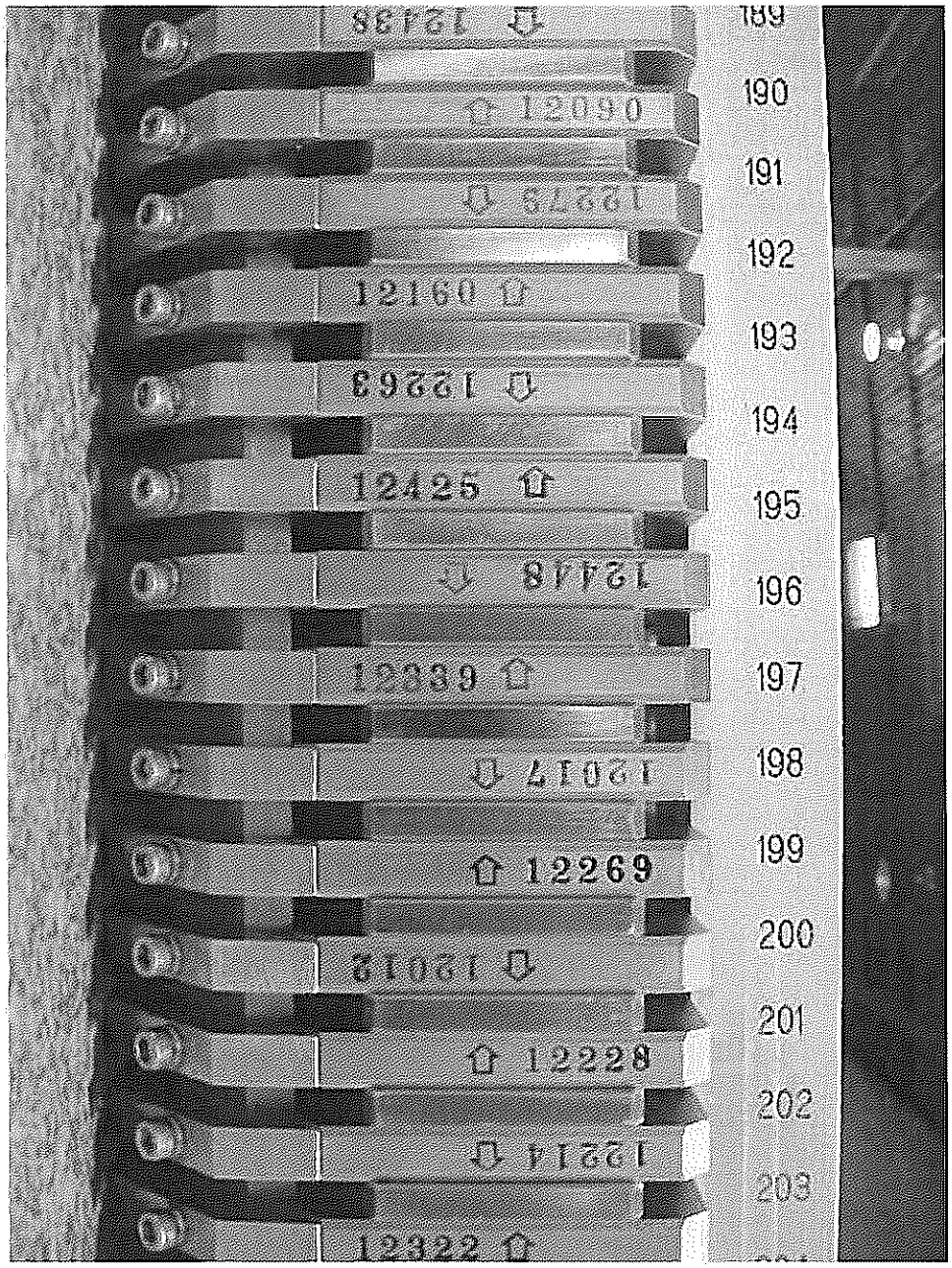
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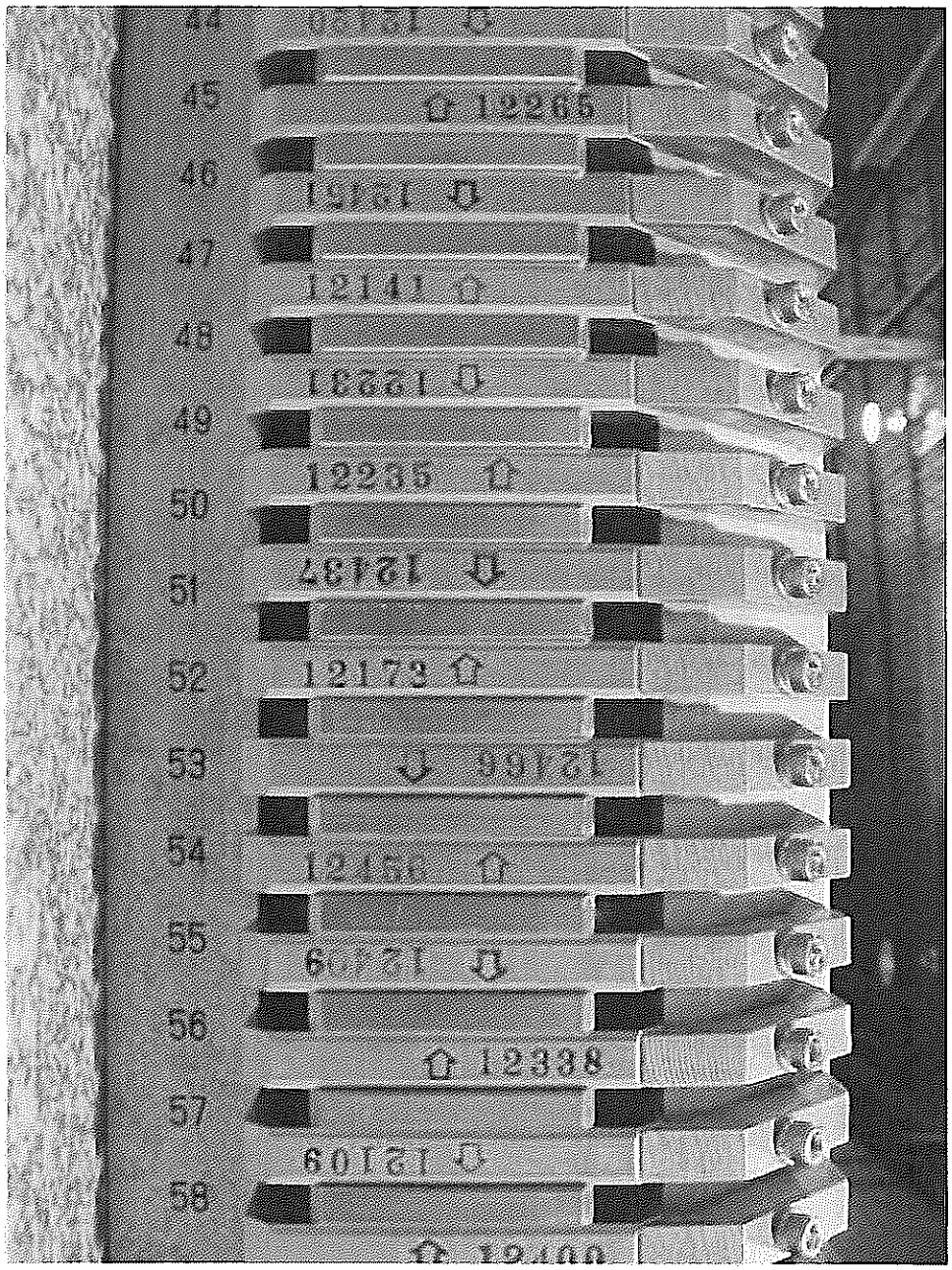
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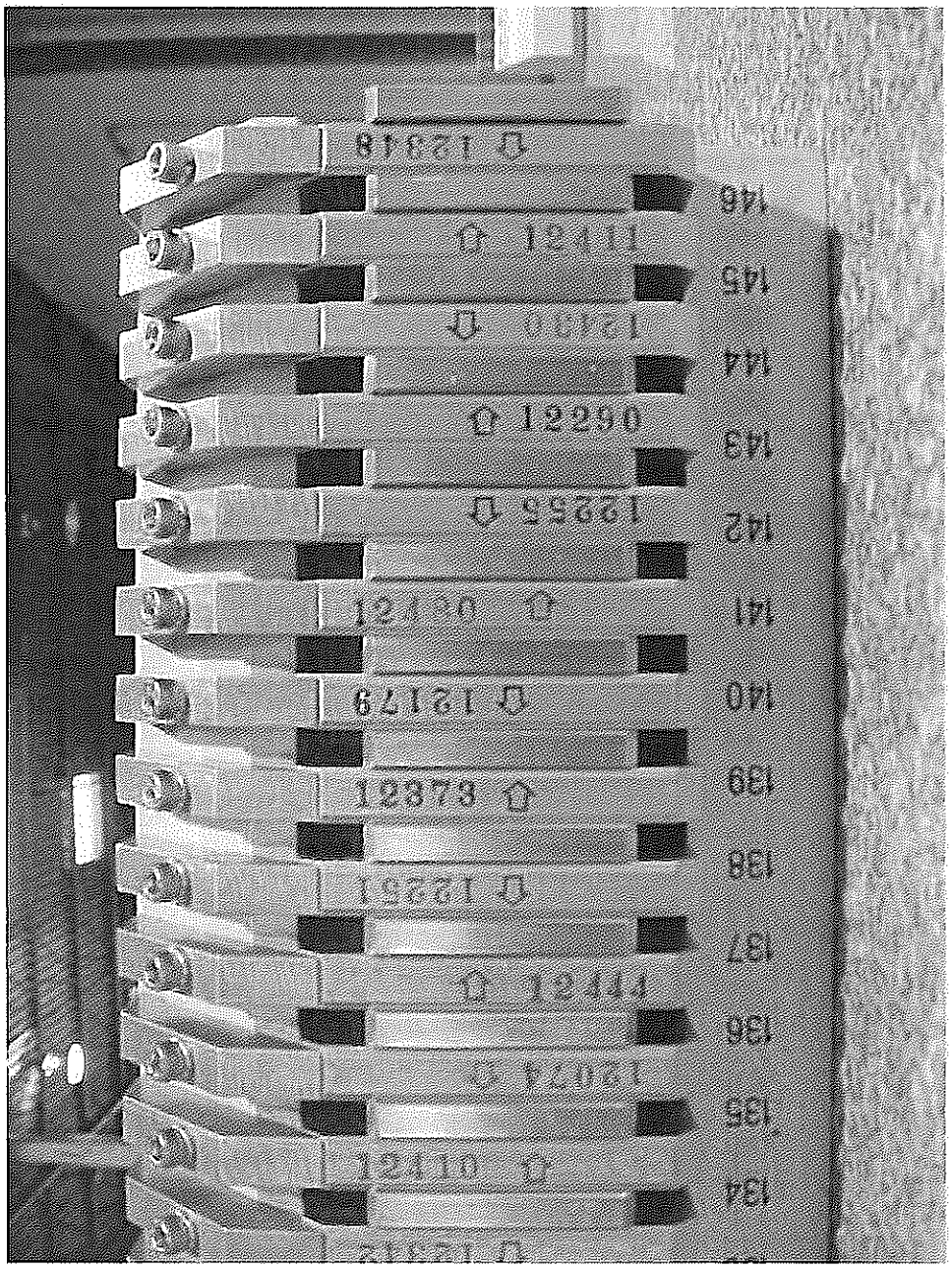
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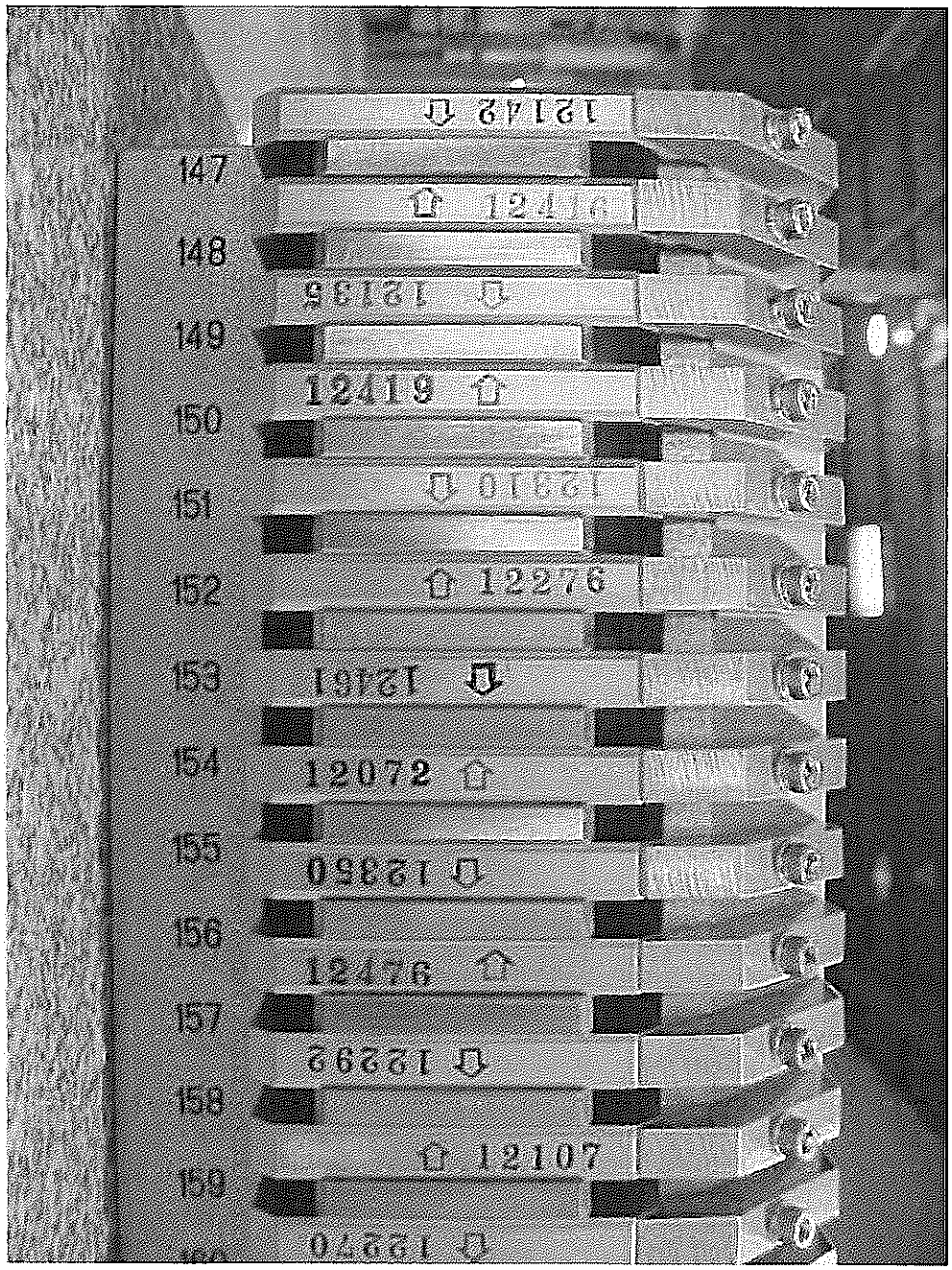

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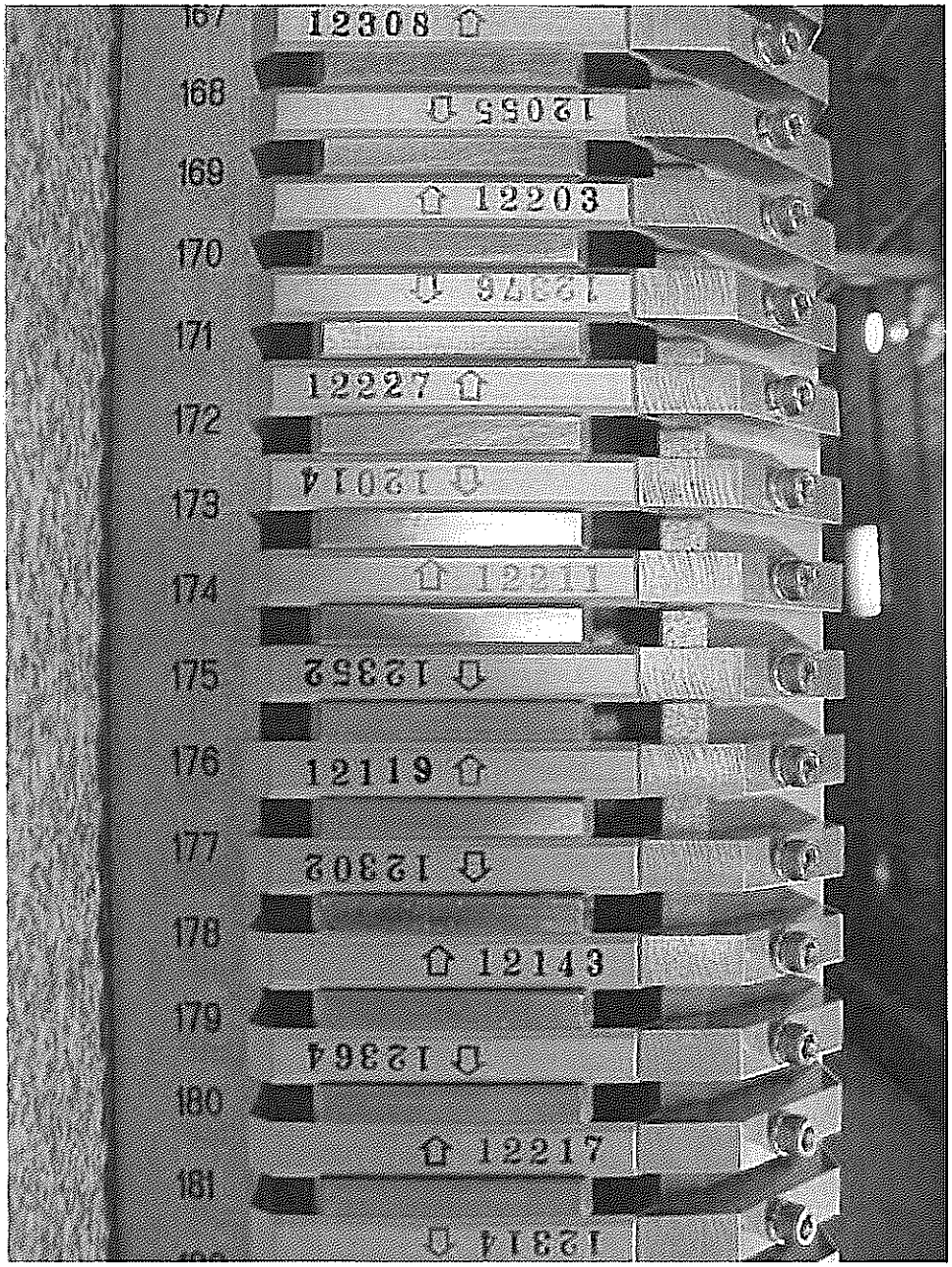
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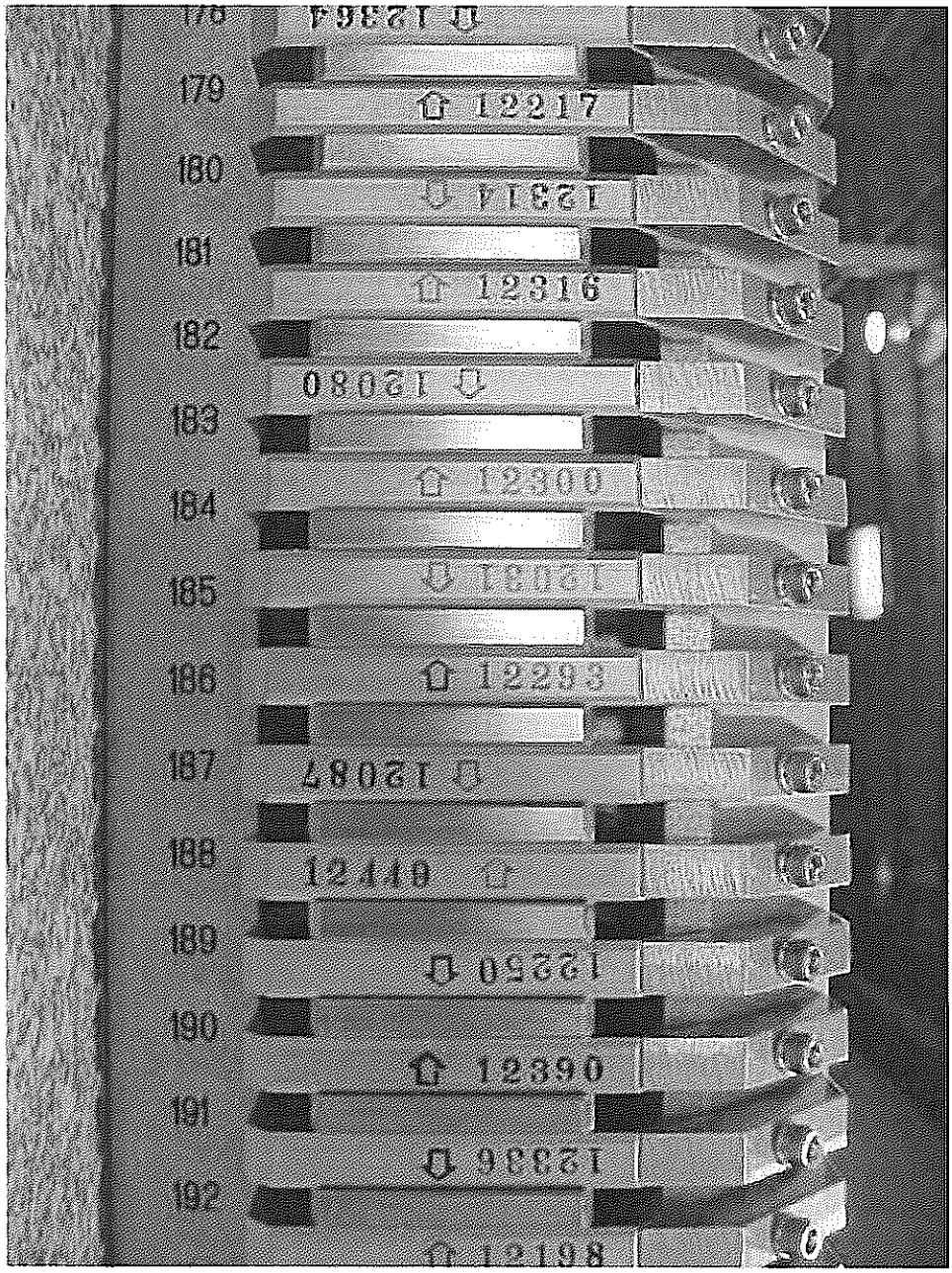
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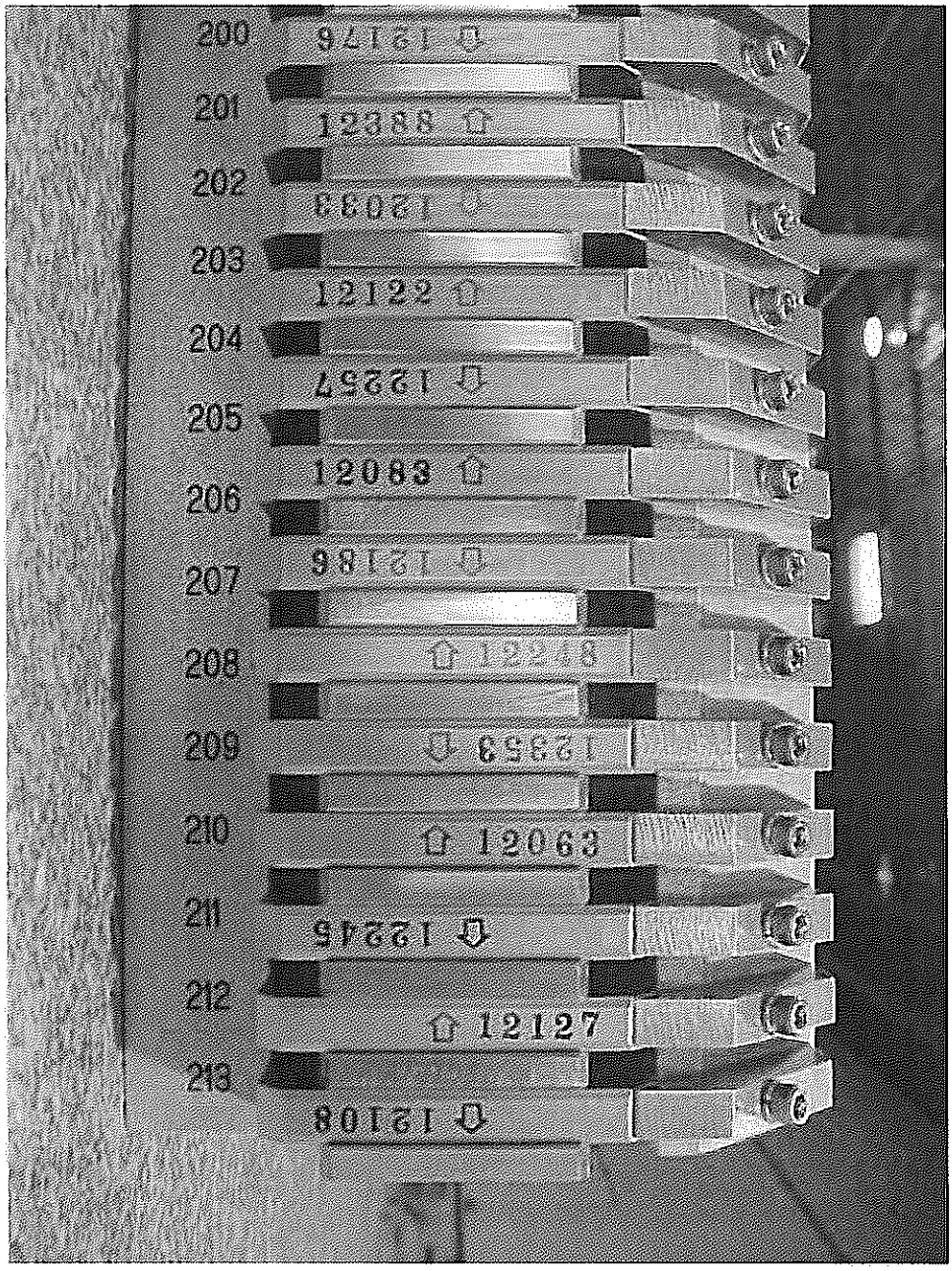
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1. DISTRIBUTION: LCLS Undulator Ass'y Contractors, Tom Barsz, and Glen Lawrence.

ARGONNE NATIONAL LABORATORY

ACCEPTANCE CRITERIA LISTING

2. PAGE ONE OF 1 3. ACL NO. E5-020020

4. ORIGINATOR'S NAME & DIVISION Glen Lawrence/XFD 5. PHONE 2-9298 6. DATE 1/20/2005

7. PART NO. & NAME L143-110700 LCLS Undulator Strongback 8. QUANTITY 40

9. FOR INSPECTION, DELIVER TO BLDG. NO. N/A DIVISION ATTN:

10. AFTER INSPECTION, DELIVER TO BLDG. NO. N/A DIVISION ATTN:

11. REFERENCES AND/OR REMARKS: Strongbacks are to be delivered to undulator assembly contractor by machining contractor Undulator assembly contractor shall inspect strongback prior to acceptance, Argonne National Laboratory shall review all certification and machining vendor 's reported and optionally shall do on-site inspections..

12 STEP NO.	13 INSPECTION/TEST REQUIREMENT	14 INSPECTION TEST LOCATION	18 ACCEPTED BY OR NONCONFORMANCE REPORT NO.	19 DATE
1	Visual inspection of part for shipping damage. A) Were critical surfaces protected per SOW L143-00030 Section 4.1.4? B) Is there any visible damage?	Undulator Ass'y Contractor	Thomas P Becker	12-12-06
2	Check Strongback is marked with serial number & part no.'s (ANL & SLAC) per SOW Section 4.1.3	Undulator Ass'y Contractor	Thomas P Becker	12-12-06
3	Check all accompanying Certifications have correct part Serial number.	Undulator Ass'y Contractor	TODD CAUDILL MTX QC 12	12-19-06
4	Check Material Certification for compliance with ASTM B381-03, Grade F2	Undulator Ass'y Contractor & ANL	TODD CAUDILL MTX QC 12	12-19-06
5	Check Forging Annealing Certification for annealing conformance to AMS-H-81200A, Table V, commercial Pure, Bars & Forgings, including. Note 8	Undulator Ass'y Contractor & ANL	TODD CAUDILL MTX QC 12	12-19-06
6	Check Rough Machining Anneal Certification for annealing conformance to AMS 2801B section3.2.9	Undulator Ass'y Contractor & ANL	TODD CAUDILL MTX QC 12	12-19-06
7	Check the strongback contractor's reported dimensional measurements against the part drawing.	ANL		
8	Verify the strongback critical dimensions as listed in the SOW section 4.5.2 are in compliance with the print.	Undulator Ass'y Contractor	Thomas P Becker	12-12-06
	L143-112000-05			
	SA-381-001-35			
	5A10359-26			

15. ORIGINATOR OF PLAN Glen Lawrence DATE 01/20/2005

16. PLAN REVIEWED/APPROVED BY DATE

17. QAR CONCURRENCE WITH PLAN DATE

Metalex
Manufacturing
Inc.

Metalex
Certified ISO 9001 Quality Management
Veteran Owned Business 30 Plus Years

#1-- INSIDE Pkg - Cust Copy

Ship To: ARGONNE NATIONAL
LABORATORY
BLDG 201, OCF-PRO
9700 S CASS AVE.
ARGONNE IL 60439

Packing List# 38130 Rel# 1 PAGE 1
Metalex Job# 2005-3813

Date: 5/31/06
Ship Via: REMAIN @ METALEX
PTA#
(prepaid shipments only)
BOL/Air Bill#
Prepaid: Collect:
Weight: Ctns: Zone:
Dimensions:

Attn: MICHAEL OPRONDEK
Customer PO: 5A06990

P.O. Item No.	Qty Ordered	Qty Shipped	Qty Back Ordered	Description
002	19	1	7	L143-110700 REV. 07 STRONGBACK S/N: 5A06990-26 -CERTIFICATE OF CONFORMANCE, INSPECTION DATA, AND CERTIFICATIONS ENCLOSED. REF: SDR'S #3801-001, #3801-004, #3801-006 TESTING SURVEILLANCE BY ANL HAS BEEN WAIVED PER MEETING BETWEEN TOM BARAZ (ANL QUALITY) & ROB SCHUERMANN (MX PROJECT ENGINEER)

Received By:

Printed Name _____ Signature _____ Date _____

MX3006 (10/02)

www.metalexmfg.com
sales@metalexmfg.com

5750 Cornell Road Cincinnati, Oh 45242-2083
Phone (513) 489-0507 Fax (513) 489-1020

Metalex Manufacturing Inc.
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Phone (513) 489-0507 • Fax (513) 489-1020
EMAIL: metalex@metalexmfg.com

Metalex
Customized Machinery and Parts
ISO 9001:2000 and AS9100 Certified
Veteran Owned Business 30 Plus Years

CERTIFICATE OF CONFORMANCE

Date: 06/05/2006

Customer: Argonne National Laboratory
Bldg. 201, OCF-PRO
9700 S Cass Ave.
Argonne, Illinois 60439

Attention: Michael Oprondek

Metalex Job# 2005-3813
Purchase Order # 5A06990
MX Packing List # 38130

Metalex certifies that all material, processes, procedures, and dimensions are as called for on the purchase order, drawings, and/or amendments supplied by you.
All information concerning this part or parts, units and/or assemblies are on file at Metalex Manufacturing, Inc.

ITEM	QTY	PART NUMBER	REV	PART NAME	ID # *
0002	1	L143-110700	07	Strongback	5A06990-26

*IDENTIFICATION NUMBER INCLUDES SERIAL #, HEAT #, AND/OR LOT #.

COMMENTS: "First Article" submitted on Metalex Shipper #36794 dated 10/17/05 (Job#05-3801).
Metalex is in compliance with Statement of Workscope Document No. L143-110700, Revision 5, dated 09/05/05 and Strongback was successfully Vibration Stress Relieved per the Procedure in Appendix A.
Material from Heat Lot #G80J.
Reference SDR# 3801-001 (Material Substitution), SDR# 3801-004 (Modification), & SDR# 3801-006 (Modification).
Testing Surveillance by ANL has been wavied per meeting between Tom Barsz (ANL Quality) & Rob Schuermann (MX Project Engineer).

QE — Metalex Representative Signature

TODD CAUDILL — Print Name

MTX QC 12

6/5/2006 — Date

MX1011 (05/05)

To: METALEX MANUFACTURING INC
Address: 5750 CORNELL ROAD
CINCINNATI, OH 45242
Attention Of: PURCHASING AGENT

ATI Wah Chang
Allegheny Technologies
P.O. Box 460
Albany, Oregon 97321-0135
(541) 928-4211 FAX (541) 967-5948

PRODUCT CERTIFICATION

IN REGARD TO YOUR

Vendor Identification:	Wah Chang
Purchase Order No.:	58095-BL
Sales Order No.:	127418
Item No.:	1
Description:	Titanium Grade 2 Billet
Dimensions:	12.020-12.060" Dia. x 134.50-134.75" L
Specifications:	ASTM B381-05, AMS H 81200A and P.O.
Date:	February 1, 2006
Heat No.:	G80J
Alloy:	TI-2
SFC No.:	1313155
Quantity Shipped (pcs.):	4
Weight Shipped (lbs.):	10008
Part No.:	5A06990-26,28,30,32

METALEX QA DEPT. ACCEPTED DATE 3/13/06 BY TR

THE TEST REPORT FOLLOWS:
Material Condition: Forged, conditioned, annealed and machined.

INGOT CHEMISTRY IN PERCENT

Element	Alpha Spec.	Spec. Max.	TOP	MIDDLE	BOTTOM
C		0.08	0.01	0.01	0.01
Fe		0.30	0.06	0.06	0.06
H		0.015	0.001	0.001	0.0007
N		0.03	0.005	0.005	0.005
O		0.25	0.14	0.15	0.16
OTHERS_EACH		0.10	<0.10	<0.10	<0.10
OTHERS_TOTAL		0.30	<0.30	<0.30	<0.30
TI	BALANCE				

CERTIFICATE OF CONFORMITY

This is to hereby certify that the listed material has been processed, annealed and tested in accordance with the specifications noted in the Purchase Order.

Certified By: R Louie, QA Supervisor \es 02/01/06

"Wah Chang Is A Registered/Certified ISO 9001:2000 and AS9100 Company."

JOB #3813-3816
PART# L143-1107

Purchase Order No.: 58095-BL
Sales Order No.: 127418
Item No.: 1
Heat No.: G80J
SFC No.: 1313155

ATI Wah Chang
Allegheny Technologies
P.O. Box 460
Albany, Oregon 97321-0136
(541) 926-4211 FAX (541) 967-6948

ROOM TEMPERATURE TENSILES (FOR INFO ONLY)

Test	Method	Offset	Gage	Units	Spec. Min.	Trans.
Tensile Strength:	ASTM E8			Ksi	50	70.0
Yield Strength:	ASTM E8	0.2%		Ksi	40	53.2
Elongation:	ASTM E8		1"	Pct	20	33
Reduction In Area:	ASTM E8			Pct	30	52

METALLURGICAL
QA DEPT.
ACCEPTED
DATE 3/13/06
BY T

ATTN: Jack

ATI Wah Chang

ATTACHMENT No. 2
Wah Chang / Kach Machine Works P.O. 180122 Rev 4
CERTIFICATE OF CONFORMANCE
SFC / 313155

Kach Machine Works hereby certifies that all conversion processing for the above Purchase Order conforms to material and/or manufacturing requirements indicated in the drawing or specifications, as applicable. Inspection and/or test reports substantiating conformity are attached.

METALEX
QA DEPT.
ACCEPTED
DATE 3/13/06
BY TC

Any exceptions, deviations, or non-conformances are listed below. (Attach additional sheets if necessary.)

All 4 BARS ARE STRAIGTH
WITH NO TAPER

Part # SA06990 - 26, 28, 30 & 32

Name

Foreman
Title

KACH MACHINE WORKS, Inc.

Job #3813

3838 N BALLAST ST SWAN ISLAND PORTLAND, OREGON 97217

QUALITY CONTROL DIMENSION INSPECTION REPORT

CUSTOMER: WAH CHANG

DATE: 1-26-06

PART NAME: 12" DIA x 134 3/4" long BAR

PART NO.: 5A06990-26 SFC 1313155

P.O.NO.: 180122 ATI

NO. PCS.: 1

I.D. NO.: A1

MATERIAL: TITANIUM

HEAT NO.: G80J

DRAWING NO.:

REVISION:

DIM. NO.	Given	Actual			
1	OD 12.060"/12.020"	12.051"			
2	LENGTH 134.75"/134.50"	134.720"			
3	Finish 125 Ra	91 Ra			
4					
5	BAR IS	STRAIGTH	WITH ND	TAPPER	
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

METALEX QA DEPT. ACCEPTED DATE 3/13/06 BY TC

INSPECTOR

HEAT TREAT PROCESS CERTIFICATION FORM

S. O. #: N/A

Heat #: G80J

MOT # 43728H

Date: 12-22-05

Start Time: 10:34

Finish Time: 21:05

Material ID's: A, B, C, D

Was the Lot Split? (yes) (no) (Circle one)

Furnace #: 9

Size: 13" (Rnd) (RCS) (Plate) (Rect.)

Heat Treated to Specification: AMS-H-81200, Latest Revision

HEAT TREATING PROCEDURE:

Anneal	Temp. 1250 °F	Time at Temp. 8 Hrs. ___ mins.	To	8 Hrs. +/- 15 min mins.
Beat Soln. Treat	Temp. ___ °F	Time at Temp. ___ Hrs. ___ mins.	To	___ Hrs. ___ mins.
Solution Treat	Temp. ___ °F	Time at Temp. ___ Hrs. ___ mins.	To	___ Hrs. ___ mins.
Duplex Anneal	Temp. ___ °F	Time at Temp. ___ Hrs. ___ mins.	To	___ Hrs. ___ mins.

Quench Media: (Furnace Cool) (Air Cool) (Fan Cool) (Water Quench)
(Circle One)

Heat Treatment Performed By: Jake Jeppsen

Date Operator Trained:

Supervisor Review:

Quality Assurance Review:

METALEX QA DEPT. RTX DC 12 ACCEPTED DATE 3/13/06 BY TR

HEAT TREAT CHARTS IN JOB# 05-3813 FOLDER

HEAT TREAT PROCESS CERTIFICATION FORM

S. O. #: N/A

Heat #: G 80J

MOT # 437 28H

Date: 12-28-05

Start Time: 07:45

Finish Time: 15:45

Material ID's: A, B, C, D

Was the Lot Split? (yes) (no) (Circle one)

Furnace #: 9

Size: 13" (Rnd.) (RCS) (Plate) (Rect.)

Heat Treated to Specification: AMS-H-81200, Latest Revision

HEAT TREATING PROCEDURE:

Stress Relieve Anneal	Temp. 1100 °F	Time at Temp. 8 Hrs. +/- 15 mins.	To 8 Hrs. +/- 15 mins.	
Beat Soln. Treat	Temp. ____ °F	Time at Temp. ____ Hrs. ____ mins.	To ____ Hrs. ____ mins.	
Solution Treat	Temp. ____ °F	Time at Temp. ____ Hrs. ____ mins.	To ____ Hrs. ____ mins.	
Duplex Anneal	Temp. ____ °F	Time at Temp. ____ Hrs. ____ mins.	To ____ Hrs. ____ mins.	

Quench Media: (Circle One) (Furnace Cool) (Air Cool) (Fan Cool) (Water Quench)

Heat Treatment Performed By: Jake Jeppsen

Date Operator Trained:

Supervisor Review:

Quality Assurance Review:

METALEX QA DEPT. ACCEPTED DATE 3/27/06 BY R

HEAT TREAT CHARTS IN JOB # 05-3613 FOLDER

Job#3813

PART# L143-110700

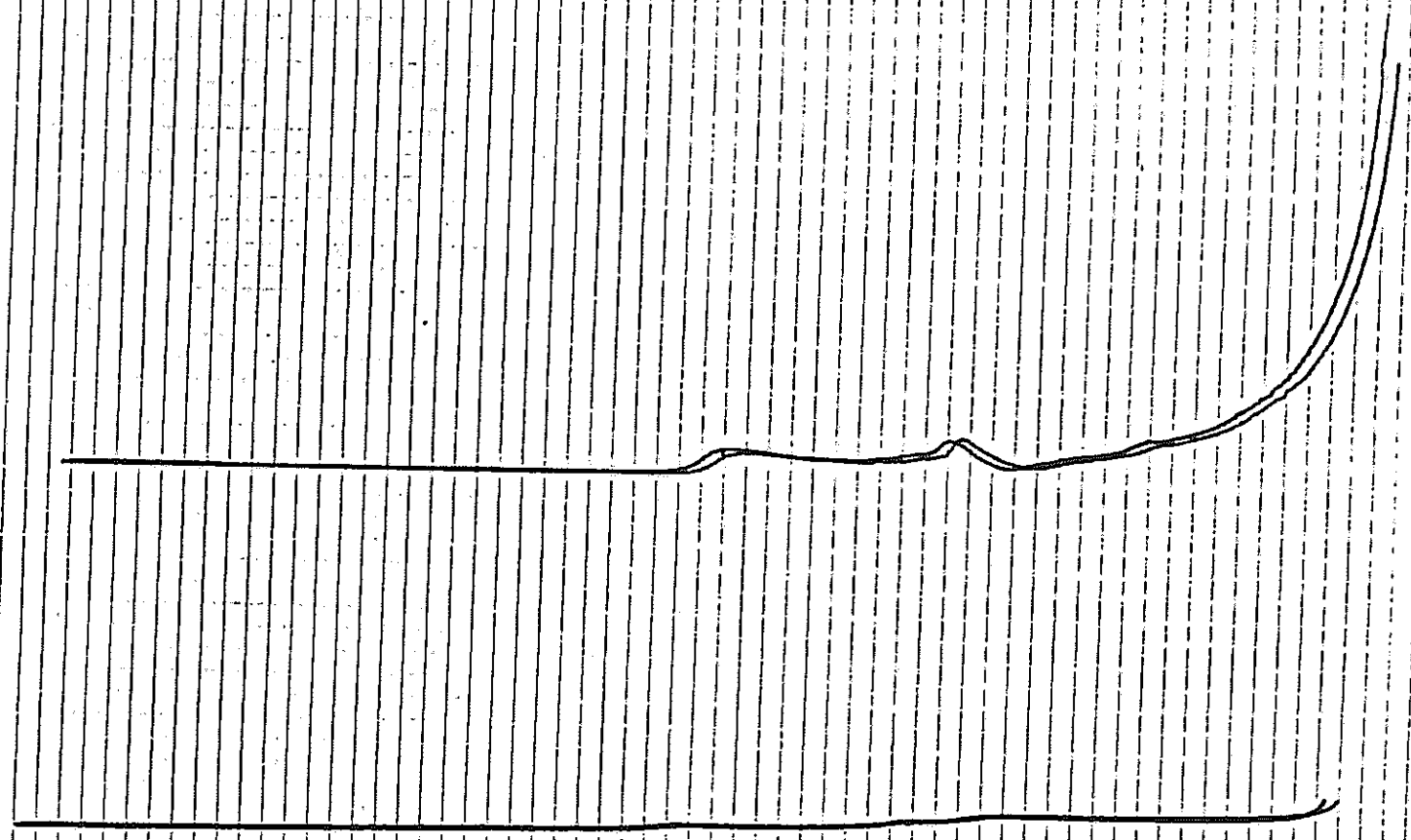
Opp# 20

S/N 5A06990-26

Steve WALLACE

3-23-06

TC 3/24/06



PART# L143-110700

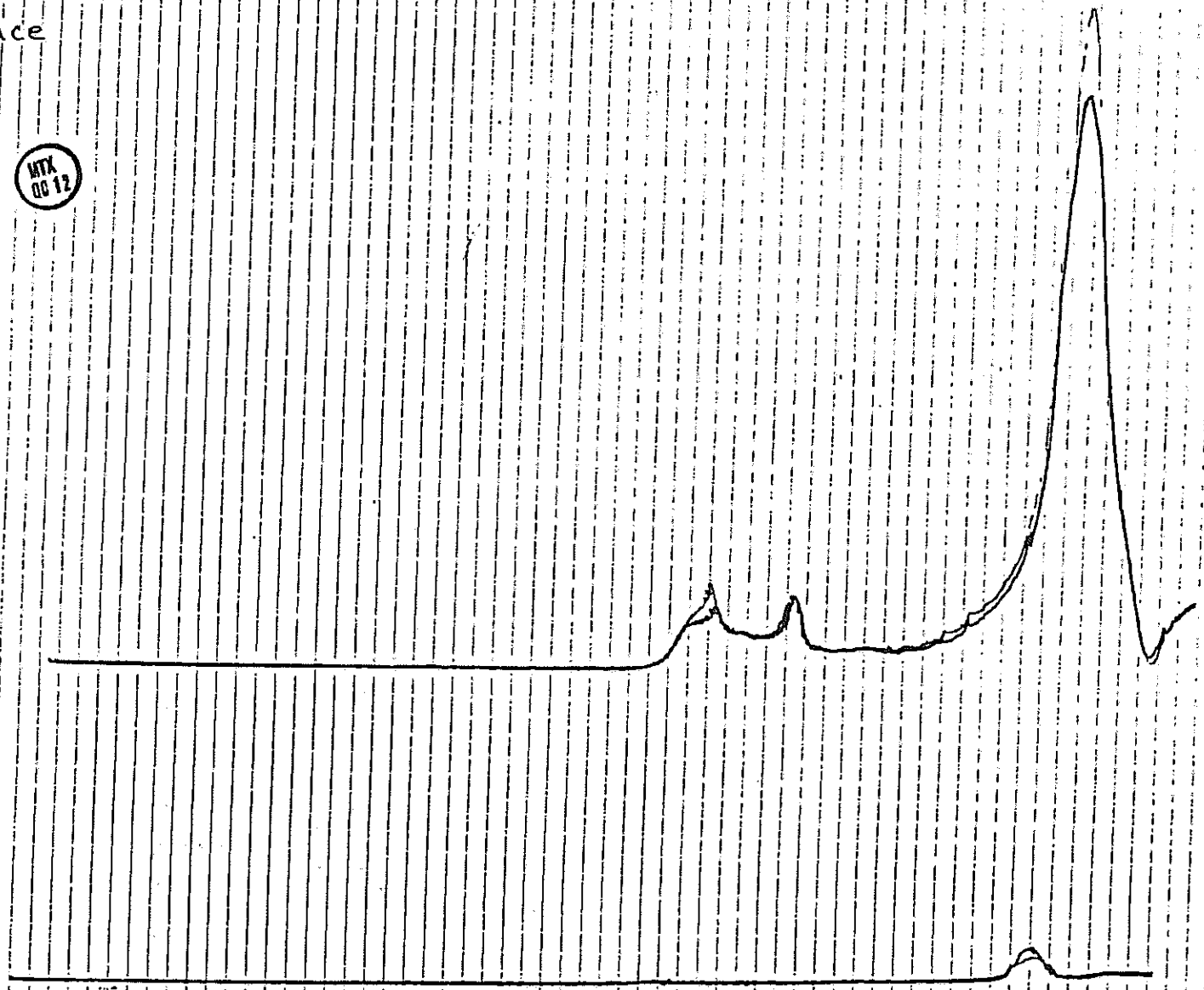
OPA# 50

S/N - 5A06990-26

Steve WALLACE

4-12-06

TC 4/7/06



JOB # 3813

SUPPLIER DISPOSITION REQUEST (SDR)

(Form ANL-311 includes instructions and continuation sheet)

(CHECK ONE)

☑ 1A. Deviation Request

☐ 1B. Nonconformance Action Request

Page 1 of 1

2. SDR No. 3801-001

3. SDR Date 06/23/2005

4. Supplier Name, Address, Telephone, Fax

Metalex Manufacturing Inc.
5750 Cornell Road
Cincinnati, Ohio 45242
513-489-0507
513-489-1020

5. Purchase Order No. 5A06990

6. Related Documents

6.1 Document No. L143-00030 Date

7. Qty.	8. Describe Nonconforming Condition	9. Identify Requirement	10. Cause & Corrective Action
	1.) Document No. L143-00030 Section 4.1.1 has the forging being made per ASTM B 381-03. The current revision level of this specification is ASTM B 381-05. Metalex supplier, ATI Wah Chang would like to work to the latest revision.	Metalex request direction from ANL on what revision applies to this contract. Metalex supplier, ATI Wah Chang needs this clear direction as soon as possible to continue with acceptance of the order.	

SUPPLIER'S COMMENTS (IF YES, EXPLAIN)

11. Affects Form, Fit or Function
☐ Yes ☑ No

12. Affects Price
☐ Yes ☑ No

Rob Schuermann - Director, Tech. Business Unit - 06/23/05

06/23/05

13. SUPPLIER REPRESENTATIVE – TITLE – DATE

13. Affects Delivery
☑ Yes ☐ No This will hold up material supplier.

14. Recommended Disposition and Comments:

10. ANL REPRESENTATIVE – DATE

17. ANL Disposition and Remarks: Accept ASTM B381-05 as equivalent to ASTM B381-03 for purposes in this procurement

18. Approved

7/1/05

TECHNICAL REPRESENTATIVE – DATE

7/1/05

QUALITY ASSURANCE REPRESENTATIVE – DATE

PROCUREMENT REPRESENTATIVE – DATE

JOB #3813

SUPPLIER DISPOSITION REQUEST (SDR)

(Form ANL-31 includes instructions and continuation sheet)

(CHECK ONE)

Page 1 of 1

✓ 1A. Deviation Request

__ 1B. Nonconformance Action Request

2. SDR No. 3801-004

3. SDR Date 08/17/2005

4. Supplier Name, Address, Telephone, Fax

Metalex Manufacturing Inc.
5750 Cornell Road
Cincinnati, Ohio 45242
(513) 489-0507 phone
(513) 489-1020 fax

5. Purchase Order No. 5A06990

6. Related Documents

6.1 ANL drawing L143-110700 Rev.4 Date

7. Qty.	8. Describe Nonconforming Condition	9. Identify Requirement	10. Cause & Corrective Action
	1) Along with this form, Metalex has attached a sketch named SDR 3801-004, pages 1 and 2. This sketch outlines some additional "for manufacturing process only" holes that Metalex is requesting permission to add to the Strongback details. On each end of each part, (4) 5/8-11 tapped holes and (2) .6250" diameter dowel pin holes are requested to be added for internal use at Metalex.	Metalex requests direction from ANL on this item.	

SUPPLIER'S COMMENTS
IF YES EXPLAIN:

11. Affects Form, Fit or Function
__ Yes ✓ No

12. Affects Price
__ Yes ✓ No

13. Affects Delivery
__ Yes ✓ No Only if this is unresolved when raw material is arrives

14. Recommended Disposition and Comments:

Rob Schuermann - Director, Tech. Business Unit - 08/17/05

15. SUPPLIER REPRESENTATIVE - TITLE - DATE

16. ANL REPRESENTATIVE - DATE

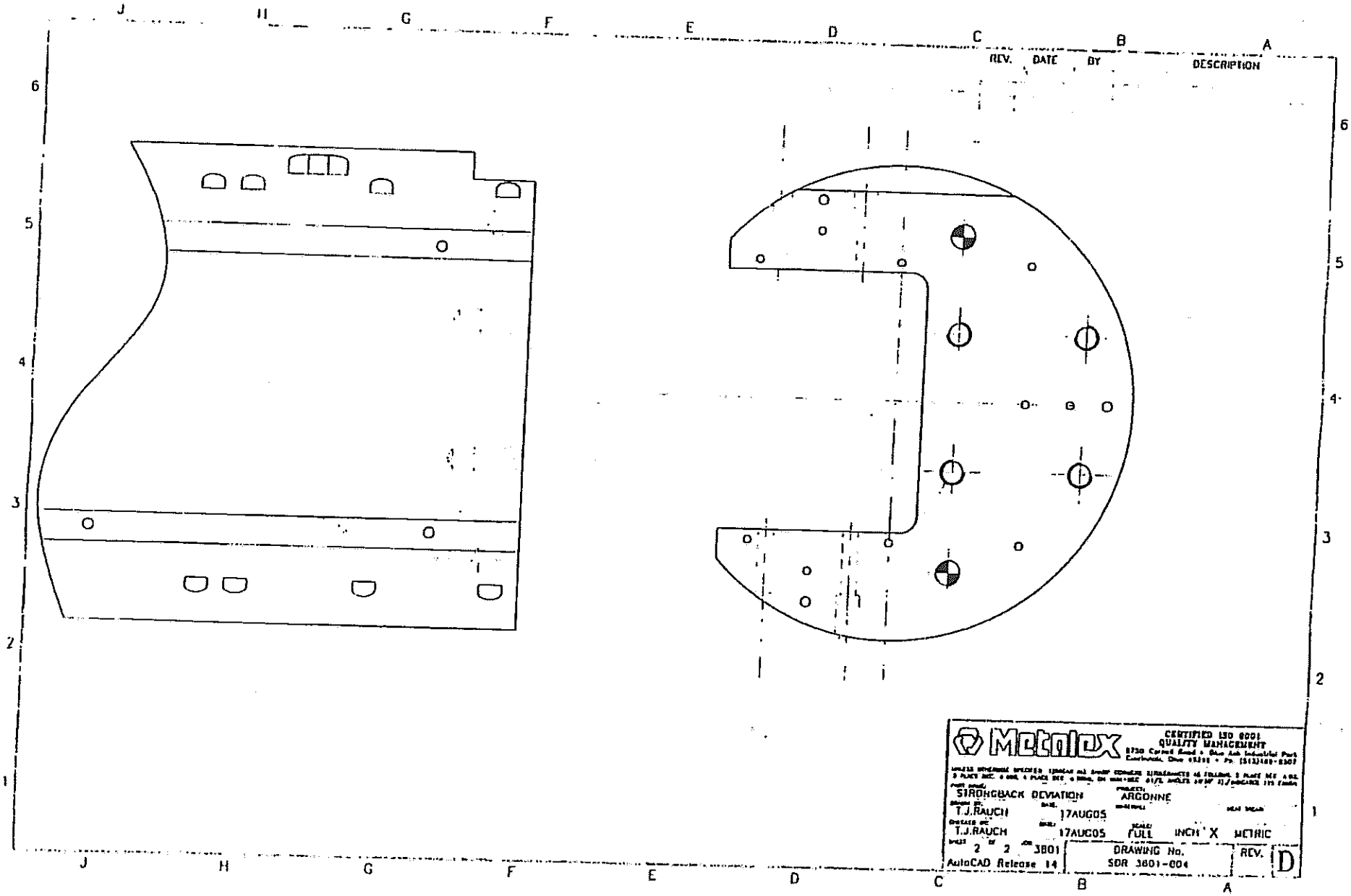
17. ANL Disposition and Remarks: The requested modifications for internal Metalex use are allowed.

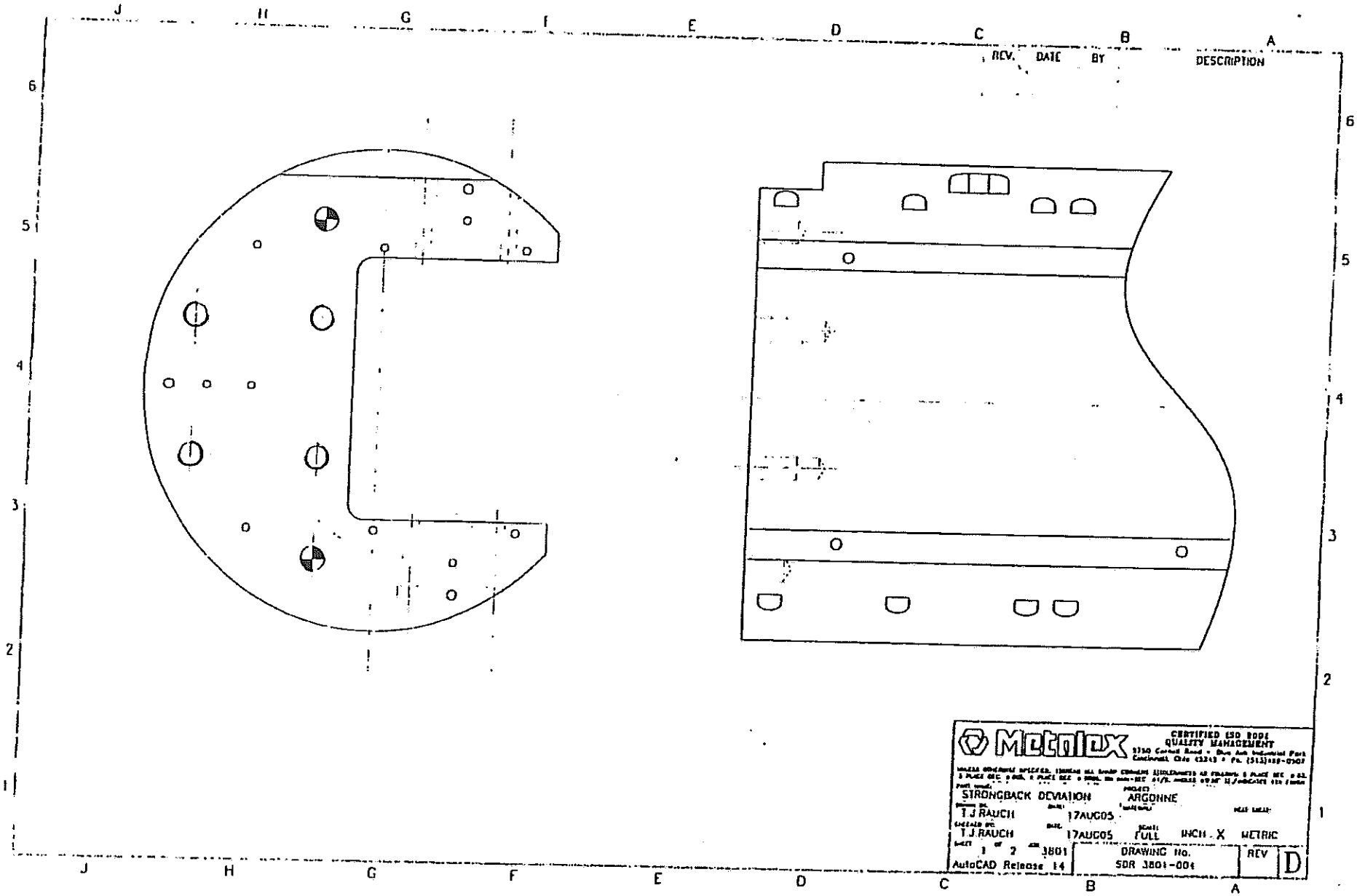
18. Approved

TECHNICAL REPRESENTATIVE - DATE 08-23-05

QUALITY ASSURANCE REPRESENTATIVE - DATE 8/25/05

PROCUREMENT REPRESENTATIVE - DATE 8/26/05


REV. DATE BY DESCRIPTION
Metalex
CERTIFIED ISO 9001
QUALITY MANAGEMENT
STRONGBACK DEVIATION
ARGONNE
T.J.RAUCH
17AUG05
T.J.RAUCH
17AUG05
FULL
INCH X METRIC
2 2 3801
AutoCAD Release 14
DRAWING No.
SDR 3801-004
REV.
D


REV. DATE BY DESCRIPTION
Metalex
CERTIFIED ISO 9001 QUALITY MANAGEMENT
STRONGBACK DEVIATION
ARGONNE
T.J.RAUCH
17AUG05
T.J.RAUCH
17AUG05
FULL
INCH X METRIC
1 OF 2
3801
AutoCAD Release 14
DRAWING No.
SDR 3801-004
REV
D

SUPPLIER DISPOSITION REQUEST (SDR)

(Form ANL-311 includes instructions and continuation sheet.)

(CHECK ONE)

Page 1 of 1

☑ 1A. Deviation Request

☐ 1B. Nonconformance Action Request

2. SDR No. 3801-006

3. SDR Date 11/03/2005

4. Supplier Name, Address, Telephone, Fax

Metalex Manufacturing Inc.
5750 Cornell Road
(513) 489-0507 phone
(513) 489-1020 fax

5. Purchase Order No. 5A06990

6. Related Documents

6.1 ANL drawing L143-110700 Rev.7 Date

7. Qty.	8. Describe Nonconforming Condition	9. Identify Requirement	10. Cause & Corrective Action
	1) Along with this form, Metalex has attached a sketch named MXPL143-110700-03. This sketch outlines some additional "for manufacturing process only" holes that Metalex is requesting permission to add to the production Stongback details. These three (3) .2500" diameter tooling holes located as shown will allow ease of manufacturing and inspection of the critical overall length of this detail.	Metalex requests direction and approval from ANL on this item.	

SUPPLIER'S COMMENTS
(IF YES, EXPLAIN):

11. Affects Form, Fit or Function
☐ Yes ☑ No

12. Affects Price
☐ Yes ☑ No

13. Affects Delivery
☐ Yes ☑ No

14. Recommended Disposition and Comments:

Recommend acceptance.

Rob Schuermann - Director, Tech. Business Unit -11/03/05

Rob Schuermann 11/05/05

15. SUPPLIER REPRESENTATIVE – TITLE – DATE

16. ANL REPRESENTATIVE – DATE

17. ANL Disposition and Remarks: Acceptable.

18. Approved

11/03/05

TECHNICAL REPRESENTATIVE – DATE

11/03/05

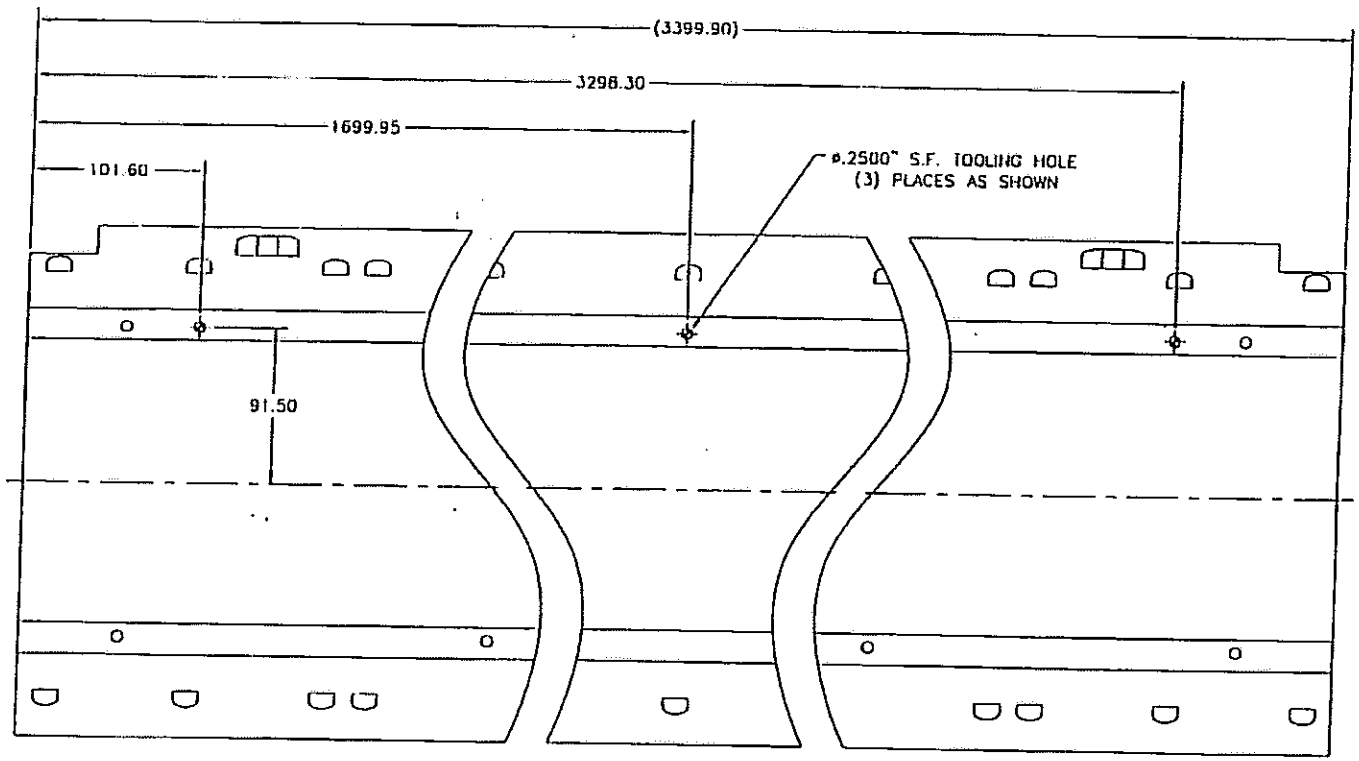
QUALITY ASSURANCE REPRESENTATIVE – DATE

11/3/5

PROCUREMENT REPRESENTATIVE – DATE

ANL-311 (9-94)

REV.	DATE	BY	DESCRIPTION



These three (3) 2500" diameter tooling holes located as shown will allow ease of manufacturing and inspection of the critical overall length of this detail.

Metalex
CERTIFIED ISO 9001 QUALITY MANAGEMENT

PART NAME: STRONGBACK PROCESS		PROJECT: ARCOINC	
DRAWN BY: R SCHUERMANN	DATE: 03NOV05	MATERIAL:	WEIGHT:
CHECKED BY: R.SCHUERMANN	DATE: 03NOV05	SCALE: FULL	INCH X METRIC
SHEET 1 OF 2	SIZE: 3801	DRAWING No. MXPL143-110700-03	REV D
AutoCAD Release 14			

Schuermann, Rob

From: Oprondek, Michael T. [moprondek@anl.gov]
Sent: Thursday, November 03, 2005 5:36 PM
To: Schuermann, Rob
Cc: Lawrence, Glen; Barsz, Thomas R.
Subject: metalex SDR 006
Attachments: metalex.pdf

<<metalex.pdf>>

Michael Oprondek, Procurement Department,
Argonne National Laboratory; operated for the
U. S. Department of Energy by the University of Chicago
phone 630 252 7069 fax 630 252 4517

Metalex Customized Machinery and Parts (Certified ISO 9001 Quality Management)	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2005-3813	Qty 1

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-110700	REV 07	P.O. Number 5A06990
	Date Rec'd N/A	P.O. No. N/A	Part Name STRONGBACK		
At Oper. 150	Serial Numbers: S/N: 5A06990-26 PRODUCTION		Customer Name ARGONNE NATIONAL LABORATORY		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
**** ALL DIMENSIONS TO BE RECORDED IN MILLIMETERS ****					
ALL DIMENSIONS APPLY AT A TEMPERATURE OF 20 DEGREES CELSIUS. PART MUST BE IN THERMAL EQUILIBRIUM DURING MEASUREMENTS AND AT THE SAME TEMPERATURE AT THE BEGINNING AND CONCLUSION OF THE MEASUREMENTS WITHIN +/-0.3 DEG. CELSIUS. **** THE PART TEMPERATURE BEFORE, DURING, AND AFTER DIMENSIONAL MEASUREMENT SHALL BE RECORDED BELOW****					
PART TEMPERATURE *BEFORE* INSPECTION	SOW 4.5.1	CONTACT THERMOMETER MX1794	20.5	MTX QC 16	
PART TEMPERATURE *DURING* INSPECTION	SOW 4.5.1	CONTACT THERMOMETER MX1794	20.4	MTX QC 16	
PART TEMPERATURE *AFTER* INSPECTION	SOW 4.5.1	CONTACT THERMOMETER MX1794	20.7	MTX QC 16	
DRAWING L143-110700					
MATERIAL DESCRIPTION: ASTM B381 F2 TITANIUM GRADE 2	A2	CERT# 1313155	CONFORMS	MTX QC 16	
ALL DIMENSIONS ARE IN MILLIMETERS, SURFACE FINISH IN MICRONS.	NOTE #1		INFORMATION ONLY	MTX QC 16	
REMOVE ALL BURRS AND BREAK SHARP EDGES 0.3mm MAX.	NOTE #2	VISUAL & RADIUS GAGE MX837 & MX838	CONFORMS .3 MAX	MTX QC 16	
UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 6.4 MICRONS.	NOTE #3	PROFILOMETER MX1304	CONFORMS	MTX QC 16	
⌖ .05 A B	D7	CMM MX1269	.023	MTX QC 16	
⌖ .05 A B	D2	CMM MX1269	.023	MTX QC 16	
1.6	D2	PROFILOMETER MX1304	1.6 OR BETTER	MTX QC 16	
167.00 +.05 / -.00	C2	CMM MX1269	167.00 -167.050	MTX QC 16	

STAMP	INSPECTED BY	DATE	PAGE 1 OF 2	QTY ACC	QTY REJ
MTX QC 16	[signature]	5/26/06		1	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts
CERTIFIED ISO 9001 QUALITY MANAGEMENT

INSPECTION PLANNING & REPORT FORM

Metalex Mfg.
5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507

Job No.	Qty
2005-3813	1

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name: N/A		Part No.: L143-110700	REV: 07	P.O. Number: 5A06990
	Date Rec'd: N/A	P.O. No.: N/A	Part Name: STRONGBACK		
At Oper.: 150	Serial Numbers: S/N: 5A06990-26 PRODUCTION		Customer Name: ARGONNE NATIONAL LABORATORY		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
83.50 ±.08	C2	CMM MX1269	83.484 – 83.515	MTX QC 15	
1.6	C2	PROFILOMETER MX1304	1.6 OR BETTER	MTX QC 15	
⌭ | .05	C2	CMM MX1269	w/in .023	MTX QC 15	
⌭ | .05	C2	CMM MX1269	w/in .02	MTX QC 15	
⌭ | .05	D1	CMM MX1269	w/in .05	MTX QC 15	
⊥ | .1 A	D1	CMM MX1269	w/in .023	MTX QC 15	
// | .05 A	E8	CMM MX1269	w/in .023	MTX QC 15	
ALL OTHER FEATURES ARE ACCEPTED PER METALEX OPERATOR ACCEPTANCE PROGRAM (OAP) MXWI17001 & OPERATOR SIGNOFF OF ROUTER OPERATIONS FOR COMPLIANCE TO ALL DRAWING FEATURES GENERATED WITHIN THAT DEFINED OPERATION.		ROUTER SIGNOFF MX5009	CONFORMS	MTX QC 15	

STAMP	INSPECTED BY	DATE	PAGE 2 OF 2	QTY ACC	QTY REJ
MTX QC 15	[signature]	5/26/06		1	Ø

MX1010 (7/98)

Thomas H Becker
12-12-06

ANL Part/Revision Number: L143-112000-05
SLAC Part Number: SA-381-001-35
Assembly Serial Number: 5A10359-26
LOT26 magnets Serial # 12001-12480

Bottom Jaw

Slot Number	Serial No.	Main filed Orientation	x-axis orientation
1	12417	Upstream	Left
2	12369	Downstream	Right
3	12386	Upstream	Right
4	12319	Downstream	Left
5	12201	Upstream	Left
6	12297	Downstream	Left
7	12115	Upstream	Right
8	12095	Downstream	Left
9	12468	Upstream	Left
10	12009	Downstream	Right
11	12379	Upstream	Left
12	12434	Downstream	Right
13	12381	Upstream	Right
14	12153	Downstream	Left
15	12027	Upstream	Left
16	12043	Downstream	Right
17	12018	Upstream	Right
18	12259	Downstream	Right
19	12118	Upstream	Left
20	12190	Downstream	Left
21	12024	Upstream	Left
22	12363	Downstream	Left
23	12005	Upstream	Right
24	12402	Downstream	Right
25	12351	Upstream	Left
26	12067	Downstream	Right
27	12057	Upstream	Left
28	12212	Downstream	Right
29	12288	Upstream	Right
30	12016	Downstream	Right
31	12271	Upstream	Left
32	12004	Downstream	Right
33	12062	Upstream	Right
34	12226	Downstream	Left
35	12365	Upstream	Right
36	12219	Downstream	Right
37	12427	Upstream	Right
38	12178	Downstream	Right
39	12136	Upstream	Left
40	12266	Downstream	Left
41	12158	Upstream	Right
42	12140	Downstream	Right
43	12267	Upstream	Left
44	12091	Downstream	Left
45	12420	Upstream	Right
46	12265	Downstream	Right

Top Jaw

Slot Number	Serial No.	Main filed Orientation	x-axis orientation
1	12236	Downstream	Right
2	12312	Upstream	Left
3	12157	Downstream	Left
4	12147	Upstream	Left
5	12078	Downstream	Right
6	12243	Upstream	Left
7	12368	Downstream	Right
8	12168	Upstream	Left
9	12383	Downstream	Left
10	12216	Upstream	Right
11	12349	Downstream	Right
12	12421	Upstream	Left
13	12458	Downstream	Left
14	12132	Upstream	Right
15	12341	Downstream	Left
16	12412	Upstream	Left
17	12196	Downstream	Right
18	12355	Upstream	Left
19	12218	Downstream	Left
20	12134	Upstream	Left
21	12058	Downstream	Left
22	12049	Upstream	Left
23	12309	Downstream	Left
24	12081	Upstream	Right
25	12374	Downstream	Left
26	12394	Upstream	Right
27	12155	Downstream	Left
28	12354	Upstream	Right
29	12001	Downstream	Right
30	12357	Upstream	Left
31	12307	Downstream	Left
32	12273	Upstream	Left
33	12020	Downstream	Right
34	12240	Upstream	Left
35	12258	Downstream	Left
36	12175	Upstream	Left
37	12102	Downstream	Left
38	12104	Upstream	Right
39	12206	Downstream	Right
40	12247	Upstream	Left
41	12103	Downstream	Right
42	12457	Upstream	Left
43	12315	Downstream	Left
44	12281	Upstream	Left
45	12123	Downstream	Left
46	12455	Upstream	Left

47	12451	Upstream	Right
48	12141	Downstream	Left
49	12231	Upstream	Right
50	12235	Downstream	Left
51	12437	Upstream	Right
52	12173	Downstream	Left
53	12466	Upstream	Left
54	12456	Downstream	Left
55	12409	Upstream	Right
56	12338	Downstream	Right
57	12109	Upstream	Right
58	12400	Downstream	Right
59	12435	Upstream	Right
60	12264	Downstream	Left
61	12397	Upstream	Right
62	12073	Downstream	Right
63	12189	Upstream	Right
64	12422	Downstream	Left
65	12432	Upstream	Right
66	12244	Downstream	Left
67	12035	Upstream	Right
68	12177	Downstream	Right
69	12075	Upstream	Right
70	12291	Downstream	Right
71	12060	Upstream	Left
72	12424	Downstream	Left
73	12026	Upstream	Right
74	12362	Downstream	Left
75	12133	Upstream	Left
76	12101	Downstream	Left
77	12285	Upstream	Left
78	12404	Downstream	Right
79	12278	Upstream	Right
80	12233	Downstream	Left
81	12366	Upstream	Right
82	12092	Downstream	Left
83	12453	Upstream	Right
84	12184	Downstream	Left
85	12221	Upstream	Right
86	12405	Downstream	Left
87	12241	Upstream	Left
88	12343	Downstream	Right
89	12079	Upstream	Right
90	12037	Downstream	Left
91	12039	Upstream	Left
92	12076	Downstream	Left
93	12051	Upstream	Right
94	12344	Downstream	Left
95	12473	Upstream	Right
96	12099	Downstream	Right
97	12202	Upstream	Right
98	12321	Downstream	Right
99	12413	Upstream	Left
100	12225	Downstream	Left
101	12029	Upstream	Right

47	12146	Downstream	Right
48	12089	Upstream	Left
49	12084	Downstream	Left
50	12415	Upstream	Right
51	12463	Downstream	Left
52	12283	Upstream	Right
53	12474	Downstream	Left
54	12469	Upstream	Right
55	12431	Downstream	Right
56	12023	Upstream	Left
57	12150	Downstream	Left
58	12465	Upstream	Left
59	12447	Downstream	Left
60	12021	Upstream	Right
61	12289	Downstream	Right
62	12170	Upstream	Left
63	12069	Downstream	Right
64	12337	Upstream	Right
65	12268	Downstream	Right
66	12111	Upstream	Left
67	12280	Downstream	Left
68	12298	Upstream	Right
69	12479	Downstream	Left
70	12358	Upstream	Left
71	12210	Downstream	Right
72	12403	Upstream	Right
73	12375	Downstream	Left
74	12256	Upstream	Right
75	12372	Downstream	Left
76	12367	Upstream	Right
77	12187	Downstream	Left
78	12234	Upstream	Left
79	12032	Downstream	Right
80	12320	Upstream	Right
81	12252	Downstream	Left
82	12475	Upstream	Left
83	12145	Downstream	Right
84	12028	Upstream	Right
85	12239	Downstream	Left
86	12471	Upstream	Right
87	12454	Downstream	Left
88	12124	Upstream	Right
89	12194	Downstream	Left
90	12441	Upstream	Right
91	12418	Downstream	Right
92	12019	Upstream	Right
93	12467	Downstream	Right
94	12398	Upstream	Left
95	12464	Downstream	Right
96	12041	Upstream	Right
97	12085	Downstream	Right
98	12361	Upstream	Right
99	12392	Downstream	Left
100	12065	Upstream	Right
101	12183	Downstream	Left

102	12208	Downstream	Left
103	12220	Upstream	Left
104	12116	Downstream	Right
105	12282	Upstream	Right
106	12237	Downstream	Left
107	12335	Upstream	Right
108	12138	Downstream	Left
109	12165	Upstream	Right
110	12096	Downstream	Right
111	12436	Upstream	Right
112	12040	Downstream	Right
113	12459	Upstream	Right
114	12131	Downstream	Left
115	12144	Upstream	Left
116	12200	Downstream	Left
117	12462	Upstream	Right
118	12193	Downstream	Right
119	12161	Upstream	Right
120	12318	Downstream	Left
121	12377	Upstream	Left
122	12331	Downstream	Left
123	12077	Upstream	Right
124	12242	Downstream	Left
125	12117	Upstream	Left
126	12230	Downstream	Right
127	12305	Upstream	Right
128	12391	Downstream	Right
129	12038	Upstream	Right
130	12378	Downstream	Right
131	12181	Upstream	Left
132	12121	Downstream	Right
133	12296	Upstream	Left
134	12342	Downstream	Right
135	12410	Upstream	Left
136	12074	Downstream	Left
137	12444	Upstream	Right
138	12251	Downstream	Right
139	12373	Upstream	Left
140	12179	Downstream	Right
141	12480	Upstream	Left
142	12255	Downstream	Left
143	12290	Upstream	Right
144	12430	Downstream	Left
145	12411	Upstream	Right
146	12348	Downstream	Right
147	12142	Upstream	Left
148	12416	Downstream	Right
149	12135	Upstream	Right
150	12419	Downstream	Left
151	12310	Upstream	Left
152	12276	Downstream	Right
153	12461	Upstream	Right
154	12072	Downstream	Left
155	12350	Upstream	Right
156	12476	Downstream	Left

102	12061	Upstream	Left
103	12192	Downstream	Left
104	12174	Upstream	Right
105	12097	Downstream	Left
106	12401	Upstream	Left
107	12169	Downstream	Left
108	12042	Upstream	Right
109	12048	Downstream	Right
110	12209	Upstream	Left
111	12406	Downstream	Right
112	12446	Upstream	Left
113	12384	Downstream	Right
114	12295	Upstream	Right
115	12013	Downstream	Right
116	12114	Upstream	Right
117	12277	Downstream	Left
118	12272	Upstream	Right
119	12129	Downstream	Right
120	12215	Upstream	Left
121	12399	Downstream	Right
122	12414	Upstream	Right
123	12478	Downstream	Right
124	12224	Upstream	Right
125	12370	Downstream	Right
126	12149	Upstream	Left
127	12346	Downstream	Left
128	12450	Upstream	Right
129	12191	Downstream	Left
130	12059	Upstream	Right
131	12054	Downstream	Right
132	12253	Upstream	Left
133	12260	Downstream	Left
134	12015	Upstream	Left
135	12389	Downstream	Right
136	12380	Upstream	Right
137	12332	Downstream	Left
138	12330	Upstream	Left
139	12428	Downstream	Right
140	12066	Upstream	Left
141	12470	Downstream	Right
142	12137	Upstream	Left
143	12088	Downstream	Left
144	12303	Upstream	Right
145	12327	Downstream	Right
146	12329	Upstream	Left
147	12050	Downstream	Right
148	12429	Upstream	Right
149	12047	Downstream	Left
150	12393	Upstream	Right
151	12002	Downstream	Left
152	12093	Upstream	Right
153	12445	Downstream	Right
154	12223	Upstream	Left
155	12120	Downstream	Right
156	12007	Upstream	Right

157	12292	Upstream	Right
158	12107	Downstream	Right
159	12270	Upstream	Right
160	12286	Downstream	Right
161	12106	Upstream	Right
162	12199	Downstream	Right
163	12334	Upstream	Left
164	12356	Downstream	Right
165	12152	Upstream	Left
166	12440	Downstream	Right
167	12100	Upstream	Right
168	12308	Downstream	Left
169	12055	Upstream	Left
170	12203	Downstream	Right
171	12376	Upstream	Left
172	12227	Downstream	Left
173	12014	Upstream	Right
174	12211	Downstream	Right
175	12352	Upstream	Right
176	12119	Downstream	Left
177	12302	Upstream	Right
178	12143	Downstream	Right
179	12364	Upstream	Right
180	12217	Downstream	Right
181	12314	Upstream	Left
182	12316	Downstream	Right
183	12080	Upstream	Right
184	12300	Downstream	Right
185	12031	Upstream	Left
186	12293	Downstream	Right
187	12087	Upstream	Right
188	12449	Downstream	Left
189	12250	Upstream	Left
190	12390	Downstream	Right
191	12336	Upstream	Left
192	12198	Downstream	Right
193	12311	Upstream	Left
194	12407	Downstream	Right
195	12452	Upstream	Left
196	12423	Downstream	Left
197	12229	Upstream	Right
198	12275	Downstream	Right
199	12086	Upstream	Right
200	12306	Downstream	Right
201	12176	Upstream	Right
202	12388	Downstream	Left
203	12033	Upstream	Right
204	12122	Downstream	Left
205	12257	Upstream	Right
206	12083	Downstream	Left
207	12186	Upstream	Right
208	12248	Downstream	Right
209	12353	Upstream	Left
210	12063	Downstream	Right
211	12245	Upstream	Right

157	12323	Downstream	Left
158	12159	Upstream	Left
159	12112	Downstream	Left
160	12162	Upstream	Left
161	12056	Downstream	Left
162	12172	Upstream	Left
163	12022	Downstream	Right
164	12477	Upstream	Right
165	12011	Downstream	Left
166	12360	Upstream	Right
167	12126	Downstream	Right
168	12443	Upstream	Right
169	12036	Downstream	Left
170	12064	Upstream	Left
171	12396	Downstream	Right
172	12148	Upstream	Left
173	12287	Downstream	Right
174	12163	Upstream	Left
175	12045	Downstream	Right
176	12222	Upstream	Right
177	12094	Downstream	Left
178	12156	Upstream	Right
179	12130	Downstream	Left
180	12340	Upstream	Left
181	12166	Downstream	Left
182	12034	Upstream	Left
183	12195	Downstream	Right
184	12262	Upstream	Right
185	12249	Downstream	Left
186	12151	Upstream	Left
187	12185	Downstream	Right
188	12442	Upstream	Left
189	12238	Downstream	Left
190	12438	Upstream	Right
191	12090	Downstream	Right
192	12279	Upstream	Left
193	12160	Downstream	Left
194	12263	Upstream	Right
195	12425	Downstream	Left
196	12448	Upstream	Left
197	12339	Downstream	Left
198	12017	Upstream	Left
199	12269	Downstream	Right
200	12012	Upstream	Right
201	12228	Downstream	Right
202	12214	Upstream	Left
203	12322	Downstream	Left
204	12345	Upstream	Right
205	12359	Downstream	Right
206	12188	Upstream	Right
207	12113	Downstream	Right
208	12426	Upstream	Left
209	12299	Downstream	Left
210	12010	Upstream	Left
211	12082	Downstream	Left

212	12127	Downstream	Right
213	12108	Upstream	Right
214	12261	Downstream	Right
215	12254	Upstream	Right
216	12070	Downstream	Left
217	12439	Upstream	Right
218	12025	Downstream	Left
219	12371	Upstream	Right
220	12164	Downstream	Right
221	12284	Upstream	Left
222	12333	Downstream	Left
223	12433	Upstream	Right
224	12003	Downstream	Right
225	12395	Upstream	Left

212	12128	Upstream	Right
213	12207	Downstream	Right
214	12347	Upstream	Right
215	12098	Downstream	Left
216	12274	Upstream	Left
217	12472	Downstream	Right
218	12328	Upstream	Left
219	12294	Downstream	Left
220	12008	Upstream	Right
221	12246	Downstream	Right
222	12044	Upstream	Right
223	12071	Downstream	Right
224	12301	Upstream	Left
225	12180	Downstream	Right

For "X-Axis Orientation" column
"Right" stands for right-numbered surface should face to the undulator axis.
"Left" stands for left-numbered surface should face to the undulator axis.
This "Right", "Left" procedure applies for both Top and Bottom Jaw

For "Main-Field Orientation" column **(see Assembly Procedure Document)**
"Downstream" side corresponts to the direction of lower-numbered slot.
Arrow should point toward the lower numbered slots.
"Upstream" side corresponds to the direction of higher-numbered slot.
Arrow should point toward the higher numbered slots.

Spare magnets

serial No.	Reduced Magnetization
12213	33%
12139	80%
12232	
12110	
12167	
12313	
12408	
12068	
12171	
12105	
12182	
12006	
12197	
12046	
12326	
12324	
12382	
12052	
12205	
12053	
12460	
12125	
12325	

Sample magnets

serial No.	
12030	
12154	
12204	
12317	
12385	

12304
12387

1. DISTRIBUTION: LCLS Undulator Ass'y Contractors, Tom Barsz, and Glen Lawrence

ARGONNE NATIONAL LABORATORY

ACCEPTANCE CRITERIA LISTING

2. PAGE ONE OF 1 3. ACL NO. E5-026046

4. ORIGINATOR'S NAME & DIVISION Glen Lawrence XFD 5. PHONE 2-9298 6. DATE 1-24-05

7. PART NO. & NAME L143-110107 Magnet Structure last Pole / L143-110105 Magnet Structure Pole 8. QUANTITY 170 / 19030

9. FOR INSPECTION, DELIVER TO BLDG. NO. N/A DIVISION _____ ATTN: _____

10. AFTER INSPECTION, DELIVER TO BLDG. NO. N/A DIVISION _____ ATTN: _____

11. REFERENCES AND/OR REMARKS: The Magnet Poles are to be delivered to the Undulator Asembly Contractors by the Machining Contractor . Undulator Assembly Contractor shall inspect the Magnet Poles prior to acceptance. ANL shall review all Certifications and Machining Contractor's reported measurements & optionally perform on-site inspections.

12 STEP NO.	13 INSPECTION/TEST REQUIREMENT	14 INSPECTION TEST LOCATION	18 ACCEPTED BY OR NONCONFORMANCE REPORT NO.	19 DATE
1	Visual inspection of parts for shipping damage.	Undulator Ass'y Contractor	Thomas P Becker	12-12-06
2	Check that parts were "bagged and Tagged" with serial no.'s and part no.'s (ANL & SLAC) per SOW L143-00031,	Undulator Ass'y Contractor	Thomas P Becker	12-12-06
	Section 4.1.3.			
3	Check that parts were marked with serial numbers per SOW section 4.1.3.	Undulator Ass'y Contractor	Thomas P Becker	12-12-06
4	Check that accompanying Certifications have correct part serial numbers.	Undulator Ass'y Contractor	Todd Caudill MTX QC 12	12-19-06
5.	Check the material certification for compliance with ASTM A801, Type 1.	Undulator Ass'y Contractor & ANL	Todd Caudill MTX QC 12	12-19-06
6	Check the anneal certification for compliance with AMS-A801, or a specified material supplier's annealing schedule.	Undulator Ass'y Contractor & ANL	Todd Caudill MTX QC 12	12-19-06
7	Check that the machining Contractor's certified dimensional measurements are in compliance with the drawing.	ANL		
8	Verify the critical dimensions as listed in the SOW, Section 4.5.2 are in compliance with the drawing	Undulator Ass'y Contractor	Thomas P Becker	12-12-06
	L143-112000-05			
	SA-381-001-35			
	5A10359-26			

15. ORIGINATOR OF PLAN Glen Lawrence DATE 1-24-05

16. PLAN REVIEWED/APPROVED BY _____ DATE _____

17. QAR CONCURRENCE WITH PLAN _____ DATE _____

Metalex Manufacturing
L143-112000 BOM/ASSY Undulator
Purchase Order No. 5A10359

LCLS Undulator poles inspection per L143-00076 Assembly Procedure:

Inspection - Poles / Magnets / Magnet Structure Bases

1. *Obtain the QA inspection reports for the* ***poles (drawing L143-110105)*** *and magnets (drawing L143-110106 - See appendix A for blank inspection reports). Randomly select 10% of the delivered poles and magnets and inspect them to a minimum precision of .0025mm to verify that they meet the critical drawing specifications.*

Assembly:

ANL Part/Revision Number: L143-112000-05
SLAC Part Number: SA-381-001-35
Assembly Serial Number: 5A10359-26

Inspection/Acceptance report or components for as-built drawings:

Part: L143-110105 Poles

Completed By: Thomas P Becker **Date:** 12-12-06

5750 Cornell Road • Blue Ash Industrial Park • Cincinnati, OH 45242
Phone (513) 489-0507 • Fax (513) 489-1020

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12478

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.92	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12875

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.94	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 11519

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.96	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 8190

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.94	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.96	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12579

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.95	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 11540

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.96	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX1452, 587F, MX0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12909

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.93	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 08314

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.95	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.96	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 11406

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.93	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12447

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.95	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 2400

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.98	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12871

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.94	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX1452, 587F, MX0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12596

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.98	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 11202

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.96	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	</= .01	N/A	<.01	Accept/Reject
Flatness of base	</= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12495

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.94	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12477

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.95	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 2338

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.96	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12838

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.92	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 7992

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.97	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.96	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 2226

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.96	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.96	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 11226

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.92	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 6164

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.93	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 1632

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.98	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.96	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12886

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.97	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 9356

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.98	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.96	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12624

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.97	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12576

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.94	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 10866

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.95	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12489

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.96	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 9359

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.96	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.96	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 11281

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.90	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12633

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.95	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12548

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.99	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12486

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.97	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12920

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.95	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 11498

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.97	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 2381

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.92	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.96	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 14441

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.94	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.96	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 8128

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.97	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.95	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12880

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.99	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 4003

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.90	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12809

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.92	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 6967

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.99	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.98	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12591

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.95	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12629

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.95	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12842

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.99	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12611

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.94	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12897

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.93	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.97	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 12916

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.99	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.96	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR AS-BUILT DRAWINGS

VENDOR: HI-Teck

PART NAME: LCLS Magnet Structure Pole

DRAWING #: L143-110105

SERIAL #: 2312

P.O. #: 5A-05150

DATE: 10.19.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Pole height	48.0	+0 / -.01	47.99	Accept/Reject
Pole Width	44.0	+0 / ~~-.01~~ -.1	43.99	Accept/Reject
Pole Thickness	6.00	+0 / -.05	5.96	Accept/Reject
Perpendicularity to A (both sides)	<= .01	N/A	<.01	Accept/Reject
Flatness of base	<= .01	N/A	<.01	Accept/Reject

INSPECTOR: Thomas P. Becker QA Supervisor:

TEST EQUIPMENT USED: MX 111, MX 1452, 587F, MX 0256, 587B

COMMENTS:

Pole width print dim = $44^{+0}_{-.1}$

1. DISTRIBUTION: LCLS Undulator Ass'y Contractors, Tom Barsz, and Glen Lawrence

ARGONNE NATIONAL LABORATORY

ACCEPTANCE CRITERIA LISTING

2. PAGE ONE OF 1 3. ACL NO. E5-069069

4. ORIGINATOR'S NAME & DIVISION Glen Lawrence XFD 5. PHONE 2-9298 6. DATE 1-31-05

7. PART NO. & NAME L143-110106 Magnet Structure Magnet 8. QUANTITY 19200

9. FOR INSPECTION, DELIVER TO BLDG. NO. 401 DIVISION XFD ATTN: Glen Lawrence

10. AFTER INSPECTION, DELIVER TO BLDG. NO. 401 DIVISION XFD ATTN: Glen Lawrence

11. REFERENCES AND/OR REMARKS: Most of the magnets wil be drop shipped directly to the Undulator Assembly Contractor, who will only perform limited physical inspection of the parts as they are highly magnetized. A sampling from Each lot will be sent to ANL for verification of the magnetic field properties.

12 STEP NO.	13 INSPECTION/TEST REQUIREMENT	14 INSPECTION TEST LOCATION	18 ACCEPTED BY OR NONCONFORMANCE REPORT NO.	19 DATE
1	Visual inspection of parts for shipping damage..	Undulator Ass'y Contractor	Thomas J. Becker	12-12-06
2	Visual inspection of parts for surface chips and pits.	Undulator Ass'y Contractor	Thomas J. Becker	12-12-06
3	Dimensional check of part for conformance to the drawing.	Undulator Ass'y Contractor	Thomas J. Becker	12-12-06
4	Review vendor certified test data agrees with SOW requirements	APS Bldg 401		
5	Review Vendor sort list for agreement with sort procedure.	APS Bldg 401		
6	On random sampling, inspect magnetic field with magnetic visualization film for magnetic defects.	APS Magnet Group		
7	On random sampling, confirm Magnetic Moment magnitude And vector components agree with vendor reports	APS Magnet Group		
8	On random sampling, verify the magnet's demagnetization and thermal stability	APS Magnet Group		
	L143-112000-05			
	SA-381-001-35			
	5A10359-26			

15. ORIGINATOR OF PLAN Glen Lawrence DATE 02-07-05

16. PLAN REVIEWED/APPROVED BY _____ DATE _____

17. QAR CONCURRENCE WITH PLAN _____ DATE _____

Metalex Manufacturing
L143-112000 BOM/ASSY Undulator
Purchase Order No. 5A10359

LCLS Undulator magnets inspection per L143-00076 Assembly Procedure:

Inspection - Poles / Magnets / Magnet Structure Bases

1. *Obtain the QA inspection reports for the poles (drawing L143-110105)* ***and magnets (drawing L143-110106 - See appendix A for blank inspection reports).*** *Randomly select 10% of the delivered poles and magnets and inspect them to a minimum precision of .0025mm to verify that they meet the critical drawing specifications.*

Assembly:

ANL Part/Revision Number: L143-112000-05
SLAC Part Number: SA-381-001-35
Assembly Serial Number: 5A10359-26

Inspection/Acceptance report or components for as-built drawings:

Part: L143-110106 Magnet

Completed By: Thomas Becker **Date:** 12-12-06

5750 Cornell Road • Blue Ash Industrial Park • Cincinnati, OH 45242
Phone (513) 489-0507 • Fax (513) 489-1020

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12202

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12321

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	65.988	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12413

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.012	Accept/Reject
Magnet Width	66.00	+/- .25	65.988	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12225

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12029

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	65.975	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.93	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12208

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	56.988	Accept/Reject
Magnet Width	66.00	+/- .25	65.988	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12220

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.97	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135 MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12116

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	65.975	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 537K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12282

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	56.988	Accept/Reject
Magnet Width	66.00	+/- .25	65.988	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12237

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	65.975	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.92	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12335

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	65.98	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12138

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	56.988	Accept/Reject
Magnet Width	66.00	+/- .25	65.975	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12165

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	65.988	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12096

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.80	Accept/Reject
Magnet Width	66.00	+/- .25	65.988	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX136
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12436

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.96	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12040

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.012	Accept/Reject
Magnet Width	66.00	+/- .25	65.988	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.93	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135 MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12459

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.012	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.97	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX136
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12131

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.012	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX136
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12200

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	56.988	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12144

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.025	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12462

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.012	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12193

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.012	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12161

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12318

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	65.988	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.96	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135 MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12085

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.012	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.96	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135 MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12361

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.012	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.96	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12392

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12065

P.O. #: 5A-06868

DATE: 10-18-06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12183

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	56.988	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX139 MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12061

P.O. #: 5A-06868

DATE: 10-18-06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	65.988	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.98	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135 MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12192

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.025	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX13
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12174

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.012	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12097

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	65.988	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX138
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12401

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12169

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	56.988	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX139
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12042

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.93	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX136
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12048

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.96	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12209

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.93	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX138
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12406

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.012	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.94	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12446

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.012	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.93	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12384

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.012	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12295

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	65.998	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.96	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX136
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12013

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	56.988	Accept/Reject
Magnet Width	66.00	+/- .25	65.988	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.93	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12277

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.97	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX136
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12114

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	56.988	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.93	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX139 MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12272

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.00	Accept/Reject
Magnet Width	66.00	+/- .25	66.012	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.96	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 537K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12129

P.O. #: 5A-06868

DATE: 10.18.06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	57.012	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.95	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

INSPECTION / ACCEPTANCE REPORT OF COMPONENTS FOR LCLS MAGNET ASSEMBLIES

VENDOR: Shin-Etsu

PART NAME: LCLS Magnet

DRAWING #: L143-110106

SERIAL #: 12215

P.O. #: 5A-06868

DATE: 10·18·06

ACCEPTANCE CRITERIA

1. Visually inspect for shipping damage.	Accept/Reject

CRITICAL DIMENSIONS (mm)

FEATURE	TARGET	TOLERANCE	MEASURED VALUE	
Magnet height	57.00	+/- .05	56.988	Accept/Reject
Magnet Width	66.00	+/- .25	66.00	Accept/Reject
Magnet thickness	9.00	+0 / -.10	8.93	Accept/Reject

INSPECTOR: Thomas P. Becker
Thomas P. Becker

QA Supervisor:

TEST EQUIPMENT USED: 587K, MX1462, MX111, MX1452, MX851, MX135
MX2

COMMENTS:

CUSTOMER	SHIP DATE	GROSS WEIGHT	QUOTE		PACKING LIST
55230	06/16/06 SHP	3	05-1229282-	2 OF 6	
BILL TO		WORK ORDER	ORDER DATE		
METALEX MFG INC		**	06/15/06 ORD		

DELIVERY DATE	SHIP BRANCH	SELL BRANCH	WORK ORDER
06/19/06 DEL	02-GRR	05-DAY	2P3469

SHIP TO

METALEX MFG INC 01
5750 CORNELL
CINCINNATI OH 45242

1310 SCRIBNER NW, GRAND RAPIDS MI 49504-3287
Copper and Brass Sales
A ThyssenKrupp Materials NA company
ThyssenKrupp

CUSTOMER P.O. NUMBER	TERRITORY	ENTRY ID
64970-BL-5725	03	05BMK

BUYER	INSIDE SALES
BRIAN LAWSON, P.A.	BRIAN M. KARWOWSKI
BUYER TELEPHONE	INSIDE SALES TELEPHONE
(513)489-0539	(937)415-2620 52625

CUSTOMER SIGNATURE: DATE:

QUANTITY	ORDERED	SHIPPED
INVENTORY	0.72 LB	1.00
BILLING	1.00 PC	1.00
WAREHOUSE		1.00 PC

SHIP VIA / SHIPPING STATUS

INTERNAL	COMPLETE	PARTIAL	CANCEL
POOL-TO 05-DAY	X		

TO CUSTOMER: OUR TRUCK/OUR DEL-D1
FOB: ORIG
PACKED WITH OTHER GOODS:
BILL OF LADING:
FREIGHT STATUS: PPD
FINISHED GOODS LOCATION: WARN LABEL:1012

PART DESCRIPTION 209591-7

RD SM DIA HH BRASS ROD C36000, 1/4 (+-.0015)
NO PROCESSING - 48" ML, actual certs must be signed

Item 3

METALEX QA. DEPT ACCEPTED DATE 7/13/06 BY KKB

SPECIAL INSTRUCTIONS

FULL	SCRAP	FILLED BY	PACKED BY	QA AUDIT
		KS		

CUSTOMER RECEIVING HOURS	MAX SKID WEIGHT	LOADING INSTRUCTIONS	MAXIMUM BUNDLE WEIGHT
6:00 am - 12:00 pm	15000	CRANE, FORK	30000

BOXES	BARS	CASES	CUSHP	PKGS	SKIDS	BDLS	TUBES	CTNS	FLAT	COILS
				1						

INSPECTION RECORD

CERTIFICATE OF COMPLIANCE
We hereby certify that mercury or any of its compounds are not used in the processing and distribution of our products. The products we distribute are not hazardous in their received state. For MSDS sheets go to www.copperandbrass.com/msds or call 248-233-5682. We hereby certify that the material above complies with the following specifications:
ASTM-B16

P.P.D

ACTUAL CHEMICAL NOM PHYSICAL ROHS EXEMPT

TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS	TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS
M75585 01	1.00	LB	CHICAGO	OCJ4847	54097								

Job#5725
Part# L143-110113
P.O# 64970-BL

DeL 6/20

RECEIVED
JUN 19 2006
METALEX MFG.
BY S.

STEVEN J. FARACI - General Manager: GRAND RAPIDS PRINTED 06/15/06 03:58 PM CONTROL NO 00090

COPPER AND BRASS SALES IS A DIVISION OF THYSSENKRUPP MATERIALS, INC

Chicago Extruded Metals Company
1601 South 54th Ave.
Cicero, Illinois 60804-1898

METALLIX
QA. DEPT.
ACCEPTED
DATE 7/13/06
BY KKB

Certificate of Compliance

Customer: COPPER & BRASS SALES
1310 SCRIBNER NW
GRAND RAPIDS MI 49504

Date: 3/27/06

Customer Order No: CJ4847

CXM Order No: 3044122 Rel# 000

Alloy: 3600

Date Shipped: 03-27-06

Temper: H02

Weight Shipped: 4408

Size: 0.2500 ROUND

Specification: ASTM B-16-00

CXM Item No: 54097

Customer Item No: 209591-7

Chemical Composition:

Copper %	61.62
Lead	2.920
Iron	.150
Tin	.170
Zinc	Remainder

Mechanical Properties:

Tensile Str. ksi	62.3
Yield Str. ksi	36.7
Elong 4D%	12.2
Rockwell - B	

SOLD TO _____
DATE _____
CUSTOMER P.O. _____
CUSTOMER P/N _____
SHIPPER NO. _____
QUANTITY _____
BY _____
COPPER and BRASS SALES INC.

EU Directive 2002/95/EC/RoHS Compliant

Samples taken from the subject material have been tested with results above and found to conform to the specification requirements.

CHICAGO EXTRUDED METALS CO

Quality Control

CUSTOMER	SHIP DATE	GROSS WEIGHT	QUOTE	PACKING LIST
55230	06/19/06 SHP	36	05-1229282-	1 OF 6 TEST RESULTS
BILL TO: METALEX MFG INC	WORK ORDER **		ORDER DATE: 06/15/06 ORD	

DELIVERY DATE	SHIP BRANCH	SELL BRANCH	WORK ORDER
06/19/06 DEL	05-DAY	05-DAY	5R4099

SHIP TO

METALEX MFG INC 01
5750 CORNELL
CINCINNATI OH 45242

6700 POE AVENUE, DAYTON OH 45414-2590

Copper and Brass Sales
A ThyssenKrupp Materials NA company
ThyssenKrupp

CUSTOMER P.O. NUMBER	TERRITORY	ENTRY ID
64970-BL-5725	03	05BMK

BUYER	INSIDE SALES
BRIAN LAWSON, P.A.	BRIAN M. KARWOWSKI

BUYER TELEPHONE	INSIDE SALES TELEPHONE
(513)489-0539	(937)415-2620 52625

CUSTOMER SIGNATURE: DATE:

QUANTITY	ORDERED	SHIPPED
INVENTORY	35.28 LB	36.00
BILLING	1.00 PC	1.00
WAREHOUSE		1.00 PC

SHIP VIA	SHIPPING STATUS		
AFTERNAT	COMPLETE X	PARTIAL	CANCEL

TO CUSTOMER	FOB	PACKED WITH OTHER GOODS
OUR TRUCK/OUR DEL-D1	ORIG	

BILL OF LADING	FREIGHT STATUS	FINISHED GOODS LOCATION
	PPD	WARN LABEL:1001

PART DESCRIPTION 020354-7

RECT 6061-T6511 EXTR ALUMINUM BAR, 1-1/4 (+/-.012) X 2 (+/.024) X 12 FT ML
NO PROCESSING - 144" ML, actual certs must be signed

METALEX QA. DEPT ACCEPTED DATE 6/22/06 BY KKB MTX QC 18

Item 2

SPECIAL INSTRUCTIONS

P/N L143-110109
L143-110110

FILE	SCRAP	FILLED BY	PACKED BY	Q/A AUDIT
		KT		

CUSTOMER RECEIVING HOURS	MAX SKID WEIGHT	LOADING INSTRUCTIONS	MAXIMUM BUNDLE WEIGHT
6:00 am - 12:00 pm	15000	CRANE, FORK	30000

BUYER	BARS	CASES	CUSHP	PKGS	SKIDS	BDLS	TUBES	CTNS	FLAT	COILS
	1									

INSPECTION RECORD

TEST RESULTS -----

CERTIFICATE OF COMPLIANCE
We hereby certify that mercury or any of its compounds are not used in the processing and distribution of our products. The products we distribute are not hazardous in their received state. For MSDS sheets go to www.copperandbrass.com/msds or call 248-233-5682. We hereby certify that the material above complies with the following specifications:
ASTM-B221 AMS-QQ-A-200/8

ROHS COMPLIANT

TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS	TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS
[illegible]	1.00	PC	KAISER	0CL2973	686 204	1							

Del

RECEIVED
JUN 19 2006
METALEX MFG.
BY S.W.

6/20

SCOTT T. MARLIN - General Manager: DAYTON PRINTED 06/15/06 07:01 PM CONTROL NO 00108
COPPER AND BRASS SALES IS A DIVISION OF THYSSENKRUPP MATERIALS, INC.

KAISER ALUMINUM
MATERIAL CERTIFICATION
COPPER & BRASS SALES (PICK UP)
CUSTOMER PICK-UP - TULSA
6700 POE AVE
DAYTON, OH 45414

KAISER ALUMINUM
4111 S 74 E Ave

Tulsa, OK 74145

COPPER & BRASS SALES
SOUTHFIELD MI 48086 CL2973 06/08/06
SOLD TO PURCHASE ORDER DATE PRINTED

SOLD TO PURCHASE ORDER DATE PRINTED

020354-7/ 1.250 X 2.000 SC RECT BAR
CUSTOMER PART NUMBER DESCRIPTION

804454-001	686 204	6061-T6511
RELEASE-ITEM	LOT	ALLOY/TEMPER

==========

MECHANICAL PROPERTY RESULTS

REFERENCE	SAMPLE#	UTS(KSI)	YTS(KSI)	%Elong in 2"	HARDNESS	CONDUCT.	BEND
686 204	0001 0001	55.4	51.7	12.7		N/A	N/A

CHEMICAL COMPOSITION (WT%), ALUMINUM REMAINDER

6061 LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Others Ea	Others Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00

Item#2

METALEX
QA. DEPT.
ACCEPTED
DATE 6/22/06
BY KKB

==========

APPLICABLE REQUIREMENTS:

ASTM-B221-02-STENCILED
ASME-SB221 1998 SECT II
AMS-QQ-A-200/8
UNS#96061

Kaiser Aluminum & Chemical Corp. ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file, subject to examination.

Job# 5725
Part# L143-110109
L143-110110
PO# 64970-BL

PRECISION BRAND
ISO 9001:2000 Certified Company

PRECISION BRAND PRODUCTS, INC.
2250 CURTISS STREET
DOWNERS GROVE, IL 60515 USA
PHONE: (630) 969-7200 FAX: (630) 969-0310

PO# 65853-BL
J+L Industrial
Michelle Lafferty

Wednesday, 07/26/2006

This is to certify that to the best of our knowledge and belief, all values shown below are correct and true and the material complies with the specifications shown.

J&L Part Number
PBP-44505M
BL 7-26-06
Job#5681/5725

METALEX
QA. DEPT
ACCEPTED
DATE 8/9/06
BY KKB

COLOR CODED SHIM

.0005 - .005 POLYESTER
.0075 - .060 POLYVINYL CHLORIDE (PVC)

	.0005 - .005	.0075 - .030	.040 - .060
TENSILE STRENGTH	30,000 PSI	6,600 PSI	14,000 PSI
ULTIMATE ELONGATION	90%	180%	180%
FOLDING ENDURANCE (MIT)	>100,000	37,000	37,000
TEAR STRENGTH (ELMENDORF)	20 g/mil	--	--
MOISTURE ABSORPTION	0.8%	0.15%	0.15%
THICKNESS TOLERANCE	+/- 5%	+/- 5%	+/- 5%
COMPRESSION @ 5,000 PSI	1.0%	0.7%	0.7%
SERVICE TEMPERATURE	-90ΘF - 300ΘF	-10ΘF - 155ΘF	-10ΘF - 155ΘF
MEETS SPECIFICATION:	L-P-377	L-P-535	L-P-535

P/N L143-110704

CUSTOMER	SHIP DATE	GROSS WEIGHT	QUOTE		PACKING LIST
55230	06/16/06 SHP	190	05-1229282-	4 OF 6	
BILL TO		WORK ORDER **	ORDER DATE 06/15/06 ORD		

DELIVERY DATE	SHIP BRANCH	SELL BRANCH	WORK ORDER
06/19/06 DEL	31-ELK	05-DAY	VM4419

BILL TO: METALEX MFG INC

SHIP TO:
METALEX MFG INC 01
5750 CORNELL
CINCINNATI OH 45242

58144 CHARLOTTE AVE, ELKHART IN 46517
Copper and Brass Sales
A ThyssenKrupp Materials NA company
ThyssenKrupp

CUSTOMER P O NUMBER	TERRITORY	ENTRY ID
64970-BL-5725	03	05BMK

BUYER	INSIDE SALES
BRIAN LAWSON, P.A.	BRIAN M. KARWOWSKI
BUYER TELEPHONE	INSIDE SALES TELEPHONE
(513)489-0539	(937)415-2620 52625

CUSTOMER SIGNATURE: DATE:

QUANTITY	ORDERED	SHIPPED
INVENTORY	170.05 LB	170.00
BILLING	16.00 PC	16.00
WAREHOUSE		16.00 PC

SHIP VIA	SHIPPING STATUS		
INTERNAL	COMPLETE	PARTIAL	CANCEL
POOL-TO 05-DAY	X		

TO CUSTOMER: OUR TRUCK/OUR DEL-D1
FOB: ORIG
BILL OF LADING
FREIGHT STATUS: PPD
PACKED WITH OTHER GOODS
FINISHED GOODS LOCATION

PART DESCRIPTION 088407-2

CAST ALUMINUM TOOLING PLATE, 2.500 (+-.005)
SAW 5.25" (+.064,-0) X 7.937" (+.064,-0), actual certs must be signed

Item 5

METALEX MTX
QA. DEPT. QC 18
ACCEPTED
DATE 6/22/06
BY KKB

SPECIAL INSTRUCTIONS

FULL	SCRAP	FILLED BY	PACKED BY	QA AUDIT
		DW		

CUSTOMER RECEIVING HOURS	MAX SKID WEIGHT	LOADING INSTRUCTIONS	MAXIMUM BUNDLE WEIGHT
6:00 am - 12:00 pm	15000	CRANE, FORK	30000

BOXES	BARS	CASES	CUSHP	PKGS	SKIDS	BDLS	TUBES	CTNS	FLAT	COILS
					1					

INSPECTION RECORD

CERTIFICATE OF COMPLIANCE
We hereby certify that mercury or any of its compounds are not used in the processing and distribution of our products. The products we distribute are not hazardous in their received state. For MSDS sheets go to www.copperandbrass.com/msds or call 248-233-5682. We hereby certify that the material above complies with the following specifications:

ROHS COMPLIANT

TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS	TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS
G99025 22	5.00	PC	ALCOA M	0CE0551	9217		G71753 08	4.00	PC	ALCOA M	0CC8549	9182	
G71753 09	4.00	PC	ALCOA M	0CC8549	9182		N43922 11	3.00	PC	ALCOA M	0CK5444	9283	

Del

Job# 5725
PART# L143-110801
&
L143-110901
P.O# 64970-BL

6/20

RECEIVED
JUN 19 2006
METALEX MFG.
BY S.

STEVEN J. FARACI - General Manager: ELKHART PRINTED 06/15/06 03:[illegible] CONTROL NO 00115

COPPER AND BRASS SALES IS A DIVISION OF THYSSENKRUPP MATERIALS, INC

PACKING LIST

CUSTOMER	SHIP DATE	GROSS WEIGHT	QUOTE	
55230	06/20/06 SHF	2600	05-1229283-	6 OF 6

BILL TO: METALEX MFG INC

WORK ORDER

ORDER DATE: 06/15/06 ORD

DELIVERY DATE: 06/21/06 DEL | SHIP BRANCH: 31-ELK | SELL BRANCH: 05-DAY | WORK ORDER: VM4421

SHIP TO:
METALEX MFG INC
5750 CORNELL
CINCINNATI OH 45242

ThyssenKrupp Materials NA
Copper and Brass Sales Division
ThyssenKrupp
Copper and Brass Sales is a division of ThyssenKrupp Materials NA, Inc.

CUSTOMER'S NUMBER	TERRITORY	ENTRY ID
64970-BL-5725	03	05BMK

BUYER: BRIAN LAWSON, P | INSIDE SALES: BRIAN M. KARWOWSKI

BUYER TELEPHONE: (513)489-0539 | INSIDE SALES TELEPHONE: (937)415-2620 32625

SHIP VIA: INTERNAL POOL-TO 05-DAY | SHIPPING STATUS: COMPLETE X | PARTIAL | CANCEL

TO CUSTOMER: OUR TRUCK/OUR DELIVERY | FOB: ORIG

BILL OF LADING | FREIGHT STATUS: PPD

CUSTOMER SIGNATURE: | DATE:

	QUANTITY ORDERED		QUANTITY SHIPPED
INVENTORY	2550.73	LB	2552.00
BILLING	48.00	PC	46.00
			48.00 PC

WAREHOUSE

PACKED WITH OTHER GOODS

FINISHED GOODS LOCATION

PART DESCRIPTION: 088407-2

CAST ALUMINUM TOOLING PLATE, 2.500 (+-.005)
SAW 5.25" (+.064,-0) X 39.812", (+.064,-0)
actual certs must be signed

Attn: Brian Lawson

SPECIAL INSTRUCTIONS

FULL	SCRAP	FILLED BY	PACKED BY	Q/A AUDIT
		DWQ		

CUSTOMER RECEIVING HOURS	MAX SKID WEIGHT	LOADING INSTRUCTIONS	MAXIMUM BUNDLE WEIGHT
6:00 am - 12:00 pm	15000	CRANE, FORK	30000

SCRAP	BARS	CASES	CUSHP	PKGS	SKIDS	BDLS	TUBES	CTNS	FLNT	COILS
					1					

INSPECTION RECORD

CERTIFICATE OF COMPLIANCE
We hereby certify that mercury or any of its compounds are not used in the processing and distribution of our products.
The products we distribute are not hazardous in their received state. For MSDS sheets go to www.copperandbrass.com/msds or call 248-233-5682. We hereby certify that the material above complies with the following specifications:

SOHS COMPLIANT

TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS	TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS
021824 00	38.00	PC	ALCOA M	0CL0711	9322		1 021826 00	12.00	PC	ALCOA M	0CL0111	9322	

Arne Juggs - Vice President of Quality Copper and Brass Sales

PRINTED 06/15/06 01:47 PM CONTROL NO 00117

Job#5725

PART# L143-111001
-111101

P.O.# 64970-BL

PACKING LIST

CUSTOMER	SHIP DATE	GROSS WEIGHT	QUOTE	
55230	06/16/06 SHP	165	05-1229282-	5 OF 6

BILL TO	WORK ORDER	ORDER DATE
METALEX MFG INC	**	06/15/06 ORD

DELIVERY DATE	SHIP BRANCH	SELL BRANCH	WORK ORDER
06/19/06 DEL	31-ELK	05-DAY	VM4420

SHIP TO

METALEX MFG INC 01
5750 CORNELL
CINCINNATI OH 45242

58144 CHARLOTTE AVE, ELKHART IN 46517
Copper and Brass Sales
A ThyssenKrupp Materials NA company
ThyssenKrupp

CUSTOMER P.O. NUMBER	TERRITORY	ENTRY ID
64970-BL-5725	03	05BMK

BUYER	INSIDE SALES
BRIAN LAWSON, P.A.	BRIAN M. KARWOWSKI
BUYER TELEPHONE	INSIDE SALES TELEPHONE
(513)489-0539	(937)415-2620 52625

CUSTOMER SIGNATURE: DATE:

QUANTITY	ORDERED	SHIPPED
INVENTORY	154.42 LB	~~154.00~~
BILLING	15.00 PC	15.00
WAREHOUSE		

SHIP VIA

INTERNAL	TO CUSTOMER	FOB
POOL-TO 05-DAY	OUR TRUCK/OUR DEL-DI	ORIG

SHIPPING STATUS

COMPLETE	PARTIAL	CANCEL
X		

PACKED WITH OTHER GOODS:

BILL OF LADING:

FREIGHT STATUS: PPD

FINISHED GOODS LOCATION:

PART DESCRIPTION 088407-2

CAST ALUMINUM TOOLING PLATE, 2.500 (+-.005)
SAW 5.25" (+.064,-0) X 7.687" (+.064,-0), actual certs must be signed

Item 6

METALEX MTX QC 18
QA. DEPT.
ACCEPTED
DATE 6/26/06
BY KKB

SPECIAL INSTRUCTIONS

FULL	SCRAP	FILLED BY	PACKED BY	Q/A AUDIT
		GLD		

CUSTOMER RECEIVING HOURS	MAX SKID WEIGHT	LOADING INSTRUCTIONS	MAXIMUM BUNDLE WEIGHT
6:00 am - 12:00 pm	15000	CRANE, FORK	30000

BOXES	BARS	CASES	CUSHP	PKGS	SKIDS	BDLS	TUBES	CTNS	FLAT	COILS
					1					

INSPECTION RECORD

CERTIFICATE OF COMPLIANCE
We hereby certify that mercury or any of its compounds are not used in the processing and distribution of our products. The products we distribute are not hazardous in their received state. For MSDS sheets go to www.copperandbrass.com/msds or call 248-233-5682. We hereby certify that the material above complies with the following specifications:

ROHS COMPLIANT

TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS	TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS
N55627 03	6.00	PC	ALCOA M	0CK7268	9283		N55627 04	6.00	PC	ALCOA M	0CK7268	9283	
N43922 10	3.00	PC	ALCOA M	0CK5444	9283								

Del

Job# 5725
Part# L143-111201
& L143-111301
P.O# 64970-BL

RECEIVED
JUN 19 2006
METALEX MFG.
BY S.W.

KW 6/20

STEVEN J. FARACI - General Manager: ELKHART PRINTED 06/15/06 03:45 PM CONTROL NO 00116

COPPER AND BRASS SALES IS A DIVISION OF THYSSENKRUPP MATERIALS, INC.

CERTIFICATE OF TEST

Certification Date
16-JUN-2006

CUSTOMER ORDER NUMBER
64976-BL-5725

CUSTOMER PART NUMBER
ITEM 3

EARLE M. JORGENSEN COMPANY
601 REDNA TERRACE
P.O. BOX 15100
CINCINNATI OH 45215

Invoice Number
S960437

SOLD TO: METALEX MANUFACTURING
5750 CORNELL RD
CINCINNATI OH 45242

SHIP TO: METALEX MFG
5750 CORNELL ROAD
CINCINNATI OH 45242

Description: 1018 CF BAR ASTM A108
1/2 RD X 12' R/L
HEAT: 746151 ITEM: 501059

Line Total: 8 LB

Specifications:
ASTM A108 99 ASTM A331 95 00 ASTM A311 B95 00

CHEMICAL ANALYSIS

C	MN	SI	S	P
0.18	0.82	0.23	0.04	0.01

RCPT: R288069
MILL : NUCOR COLD FINISH

COUNTRY OF ORIGIN : USA

Job #5725
part # L143-110119
PO # 64976-BL

METALEX MTX QC 16
QA. DEPT.
ACCEPTED
DATE 6/22/06
BY KRB

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

TERRY RYNARD

Paul Barnhart
MANAGER, QUALITY ASSURANCE

PML017

MILL TEST REPORT

NUCOR COLD FINISH
A DIVISION OF NUCOR CORPORATION
2800 N. GOVERNOR WILLIAMS HIGHWAY
DARLINGTON, SOUTH CAROLINA 29540
FAX 843-395-8759
TELEPHONE 843-395-8689

PAGE-1

CUSTOMER P.O.
BILL OF LADING P761917002-126
010200

DATE 1/07/05

SOLD TO

EARLE M. JORGENSEN STEEL
601 REDNA TERRACE
BOX 15100
CINCINNATI, OH
45215

SHIP TO

EARLE M. JORGENSEN STEEL
601 REDNA TERRACE
BOX 15100
CINCINNATI, OH
45215

GRADE	SIZE	PROD	HEAT NO.	C	Mn	Si	S	P	V	Cu	Ni	Cr	Mo	Pb	CUST. PART #
1018	1/2	RD	745270	.17	.80	.25	.030	.010							501059
1018	1/2	RD	746151	.18	.82	.23	.040	.010							501059
															R288069

PHYSICAL PROPERTIES

GRADE	SIZE	PROD	HEAT NO.	YIELD (ksi)	TENSILE (ksi)	El% (in 2")	ROA %	HARDNESS (SCALE)	COMMENTS

Job#5725
METALEX MTX
QA. DEPT. OC-18
ACCEPTED
DATE 6/22/06
BY KKB
P/N
L143-110119
P.O.#
64976
Item#3

SPECIAL INSTRUCTIONS:
ROUNDS UP TO & INCLUDING 2.5" ARE 100% EDDY CURRENT TESTED
COUNTRY OF ORIGIN FOR 12L14 MATERIAL:

TERRY CIESLINSKI

QUALITY ASSURANCE METALLURGIST
ALL COLD DRAWN CARBON STEEL LISTED ABOVE MEETS ASTM A108-99 SPECIFICATIONS.
ALL COLD DRAWN ALLOY STEEL LISTED ABOVE MEETS ASTM A331-95 (REAPP2000) SPECIFICATIONS.
ALL COLD DRAWN STRESS RELIEVED STEEL LISTED ABOVE MEETS ASTM A311-B95 (REAPP2000) SPECIFICATIONS.

Earle M. Jorgensen Co. Original test report for the order shown below
EMJ SID#:S960437 CUSTOMER:METALEX MFG. P.O:64976-BL-5725 CUST. PART#:ITEM 3
QTY: 8.018 DATE:06-06-16 SIGNATURE:TERRY RYNARD

CERTIFICATE OF TEST

Certification Date
16-JUN-2006

CUSTOMER ORDER NUMBER
64976-BL-5725

CUSTOMER PART NUMBER
ITEM 2

EARLE M. JORGENSEN COMPANY
601 REDNA TERRACE
P.O. BOX 15100
CINCINNATI OH 45215

Invoice Number
S960438

SOLD TO: METALEX MANUFACTURING
5750 CORNELL RD
CINCINNATI OH 45242

SHIP TO: METALEX MFG
5750 CORNELL ROAD
CINCINNATI OH 45242

Description: 1018 CF BAR ASTM A108
3/16 X 8 FLATS X 12' R/L
HEAT: 571622 ITEM: 502771

Line Total: 61.2 LB

Specifications:
ASTM A108 93

CHEMICAL ANALYSIS

C	MN	P	S	SI	AL	TI	CR
0.19	0.65	0.006	0.008	0.03	0.041	0.001	0.1

MO	CU	NI	N	B
0.028	0.21	0.07	0.007	0.0001

RCPT: R568656
MILL : CLINGAN STEEL INC COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS RB
					83

METALEX MTY
QA. DEPT.
ACCEPTED
DATE 6/22/06
BY KKB

Job# 5725
PART# L143-110114
P.O# 64976-BL

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

TERRY RYNARD

Paul Barnhart
MANAGER, QUALITY ASSURANCE

PLL017

EMJ SID#:S960438 CUSTOMER:METALEX MFG P.O:64976-BL-5725 CUST. PART#:ITEM 2 QTY: 61.260 DATE:06-06-16 SIGNATURE:TERRY RYNARD

CLINGAN STEEL, INC.
CERTIFIED TEST REPORT

R 568656

11/10/05

TO:
EMJ CORPORATION CHICAGO
1900 MITCHELL BLVD.
SCHAUMBURG, IL 60193

SHIP TO:
EMJ CORPORATION CHICAGO
1900 MITCHELL BLVD.
SCHAUMBURG, IL 60193

Cust. P/O#: P032728-423 Part No.: 582771

STEEL,.1875 X 8.00 X 144.00

GRADE: C1018 PER ASTM A108-93 SQUARE EDGE

B/L Date 11/10/05 Bill/Ladng# 093368
Sales Ordr: 078583 01

Tag# 924451 01 Heat# 571622 MasterTag# 922078 01

C : .190	Mn: .650	P : .006	S : .008
Si: .030	Al: .041	Ti: .001	
Cr: .100	Mo: .028	Cu: .210	
Ni: .070	N : .007		B : .0001

Rockwell: B83

MELTED & MFG IN U.S.A.

Sales Ordr: 078583 01

Tag# 924452 01 Heat# 571622 MasterTag# 922078 01

C : .190	Mn: .650	P : .006	S : .008
Si: .030	Al: .041	Ti: .001	
Cr: .100	Mo: .028	Cu: .210	
Ni: .070	N : .007		B : .0001

Rockwell: B83

MELTED & MFG IN U.S.A.

Job#5725

METALEX MTX
QA. DEPT QC 18
ACCEPTED
DATE 6/22/06
BY KKB

P/N L143-110114
P.O.# 64976
Item# 2

Continued...

Earle M. Jorgensen Co. Original Mill Report for the order shown below

EMJ SID# 5960438 CUSTOMER METALEX MFG P.O 64976-BL 5725 CUST. PART# ITEM 2 QTY. 61,260 DATE 06-06-16 SIGNATURE TERRY RYNARD

CLINGAN STEEL, INC.
CERTIFIED TEST REPORT

11/10/05

TO:
EMJ CORPORATION CHICAGO
1900 MITCHELL BLVD.
SCHAUMBURG, IL 60193

SHIP TO:
EMJ CORPORATION CHICAGO
1900 MITCHELL BLVD.
SCHAUMBURG, IL 60193

Cust. P/O#: PB32728-423 Part No.: 502771

STEEL,.1875 X 8.00 X 144.00

GRADE: C1018 PER ASTM A108-93 SQUARE EDGE

B/L Date 11/10/05 Bill/Ladng# 093368

Job#5725
METALEX MTX
QA. DEPT. QC 18
ACCEPTED
DATE 6/22/06
BY KKB

P/N L143-110114
P.O.# 64976

WE HEREBY CERTIFY THE ABOVE FIGURES ARE ACCURATELY STATED, MEET YOUR MATERIAL REQUIREMENTS AND ARE TRACEABLE IN OUR RECORDS.

CLINGAN STEEL, INC.
QUALITY ASSURANCE MANAGER

QMF 17

CERTIFICATE OF TEST

Certification Date
16-JUN-2006

CUSTOMER ORDER NUMBER
64976-BL-5725

CUSTOMER PART NUMBER
ITEM 1

EARLE M. JORGENSEN COMPANY
601 REDNA TERRACE
P.O. BOX 15100
CINCINNATI OH 45215

Invoice Number
S960436

SOLD TO: METALEX MANUFACTURING
5750 CORNELL RD
CINCINNATI OH 45242

SHIP TO: METALEX MFG
5750 CORNELL ROAD
CINCINNATI OH 45242

Description: 1018 CF BAR ASTM A108
1/4 X 3/4 FLATS X 12' R/L
HEAT: CI134628 ITEM: 502781

Line Total: 7.6 LB

Specifications:
ASTM A108 93

CHEMICAL ANALYSIS

C	MN	P	S	AL	B	CR	CU
0.18	0.67	0.011	0.027	0.007	0.0002	0.09	0.17

MO	N	NI	SI	SN	V
0.02	0.009	0.07	0.15	0.011	0.002

RCPT: R636656
MILL : CHARTER WIRE

COUNTRY OF ORIGIN : USA

STRAND CAST REDUCTION RATIO 145.0 TO 1

METALEX
QA. DEPT. MTX OC 18
ACCEPTED
DATE 6/22/06
BY KKB

COMMENTS
MELT SOURCE ALTON STEEL USA
SILICON KILLED COARSE GRAIN

Job# 5725
PART# L143-110112
P.O# 64976-BL

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

TERRY RYNARD

Paul Barnhart
MANAGER, QUALITY ASSURANCE

PML017

EMJ SID#:S960436 CUSTOMER:METALEX MFG P.O.64976-DL-5725 COST PART# ITEM 1 QTY 7,657 DATE:06-06-16 SIGNATURE:TERRY RYNARD

CHARTER WIRE
A Division of Charter Manufacturing Co., Inc.
114 N. Jackson Street
Milwaukee, Wisconsin 53202-6297
(414) 390-3000
(414) 390-3031 Fax

R 636656

DATE: 01/18/2006

CERTIFICATE OF MATERIAL AND SPECIFICATION

CUSTOMER: EMJ
CUSTOMER'S P.O. NO: P849582002
Customer Item: 502781
SIZE: .250 X .750
GRADE: AISI 1018
HEAT NO: cl134628

SALES ORDER NO: S42327
WORKORDER: 11011631
ITEM NO: 11070
SPEC 1: ASTM A108-93
SPEC 2:
SPEC 3:

CHEMICAL ANALYSIS: C: .1800 Mn .6700 P: .0110 S: .0270
AL .0070 B: .0002 Cr .0900 Cu .1700
Mo .0200 N: .0090 Ni .0700 Si .1500
Sn .0110 V: .0020

MILL SPECIFICATIONS: Hot Roll Source: CHARTER STEEL (USA)
Melt Source: ALTON STEEL (USA)
Casting Practice: STRAND
Killing Practice/Grainsize: SILICON KILLED COARSE GRAIN
Reduction Ratio: 145 TO 1

Job#5725
METALEX MFG QC 18
QA. DEPT.
ACCEPTED
DATE 6/22/06
BY KKB
P/N L143-110112
P.O.# 64976
Item#1

HEAT ANALYSIS IS FROM THE PACKING LIST RECEIVED BY CHARTER FROM OUR RAW MATERIAL SUPPLIER.

QUALITY ASSURANCE/CONTINUOUS IMPROVEMENT MANAGER

ORIGINAL

SHIPMENT	SHIP DATE	GROSS WEIGHT	QUOTE		PACKING LIST
55230	06/19/06 SHP	22	05-1229282-	3 OF 6	TEST RESULTS
			ORDER DATE 06/15/06 ORD		
CUSTOMER METALEX MFG INC		WORK ORDER **			

DELIVERY DATE	SHIP BRANCH	SELL BRANCH	WORK ORDER
06/19/06 DEL	05-DAY	05-DAY	5R4100

SHIP TO

METALEX MFG INC 01
5750 CORNELL
CINCINNATI OH 45242

6700 POE AVENUE, DAYTON OH 45414-2590

Copper and Brass Sales
A thyssenkrupp Materials NA company
ThyssenKrupp

CUSTOMER NUMBER	TERRITORY	ENTRY ID
64770-BL-5725	03	05BMK

SALES	INSIDE SALES
BRIAN LAWSON,P.A.	BRIAN M. KARWOWSKI

SALES TELEPHONE	INSIDE SALES TELEPHONE
(513)489-0539	(937)415-2620 52625

CUSTOMER SIGNATURE: DATE:

QUANTITY	ORDERED	SHIPPED
INVENTORY	21.17 LB	22.00
BILLING	2.00 PC	2.00
WAREHOUSE		2.00 PC

SHIP VIA	SHIPPING STATUS: COMPLETE	PARTIAL	CANCEL
	X		

TRANSPORTER: SUP TRANSPORTATION DEL-01
FOB: ORIG
BILL OF LADING
FREIGHT STATUS: PPD
PACKED WITH OTHER GOODS
FINISHED GOODS LOCATION
WARN LABEL:1001

PART DESCRIPTION 019980-2

RECT 6061-T6511 EXTR ALUMINUM BAR, 1/2(+/-.009)X 1-1/2 (+/-.014) X 12 FT ML
NO PROCESSING - 144" ML, actual certs must be signed

Item#4

METALEX MFG. QA. DEPT. ACCEPTED DATE 6/22/06 BY KKB

P/N: L143-110115

SPECIAL INSTRUCTIONS

RUN	SCRAP	FILLED BY	PACKED BY	QA AUDIT
		KT		

SHIPPING HOURS	MAX SKID WEIGHT	LOADING INSTRUCTIONS	MAXIMUM BUNDLE WEIGHT
6:00 am - 12:00 pm	15000	CRANE, FORK	30000

SHIP	PKGS	CASES	CUSHP	PKGS	SKIDS	BDLS	TUBES	CTNS	FLAT	COILS
						1				

INSPECTION RECORD

TEST RESULTS - - - - -

CERTIFICATE OF COMPLIANCE
We hereby certify that mercury or any of its compounds are not used in the processing and distribution of our products. The products we distribute are not hazardous in their received state. For MSDS sheets go to www.copperandbrass.com/msds or call 216-566?. We hereby certify that the material above complies with the following specifications:
ASTM B221 / AMS-QQ-A-200/8

ROHS COMPLIANT

TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS	TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS
	2.00	PC	KAISER	0CK2598	348 071	2							

DEC

RECEIVED
JUN 19 2006
METALEX MFG.
BY S.U.

kr 8/20

COPYRIGHT 2002 BRASS SALES INC A DIVISION OF THYSSENKRUPP MATERIALS, INC.

KAISER ALUMINUM
FABRICATED PRODUCTS

CERTIFIED TEST REPORT

http://www.KaiserAluminum.com

KAISER ALUMINUM
FABRICATED PRODUCTS
9700 SOUTH HARLEM AVE
BRIDGEVIEW, IL 60455

CUSTOMER PO NUMBER:	CUSTOMER PART NUMBER:	PRODUCT DESCRIPTION:			
CK2598	019980-2/STK	0.500 X 1.500 SQ COR RECT BAR			
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:
984773	001	05/17/2006	348 071	6061	T6511
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:
773.000 LB	73.000 PCS	932658			12.000 FT

SHIP TO:

COPPER & BRASS SALES
6700 POE AVENUE
DAYTON, OH 45414 USA

SOLD TO:

COPPER & BRASS SALES
PO BOX 5116
SOUTHFIELD, MI 48086-5116 USA

METALEX
QA. DEPT.
ACCEPTED
DATE 6/22/06
BY KKB

Item#4

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS(KSI)	YTS(KSI)	%Elong in 2	HARDNESS	CONDUCT.	BEND
[illegible]044556	0001	0001	51.0	48.3	16.6		N/A	N/A
[illegible]044556	0001	0002	50.5	47.9	19.7		N/A	N/A
[illegible]044556	0001	0003	51.0	47.7	16.6		N/A	N/A
[illegible]044556	0001	0004	50.6	47.4	13.4		N/A	N/A
[illegible]044556	0001	0005	52.1	48.8	17.4		N/A	N/A
[illegible]044556	0001	0006	49.4	46.8	15.3		N/A	N/A
[illegible]044556	0001	0007	50.0	46.7	14.0		N/A	N/A
[illegible]044556	0001	0008	50.5	47.8	16.3		N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40		0.15		0.8	0.04			NA	NA	NA		

APPLICABLE REQUIREMENTS:

[illegible]-B221-02-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 UNS#96061

Job# 5725
PART#L143-110115
P.O# 64970-BL

CERTIFICATION

Kaiser Aluminum & Chemical Corp. ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that stated on Kaiser's general terms & conditions of sale. Test reports are on file, subject to examination.

Frank E. Watson, Quality Assurance Manager

Plant Serial: 00141159

Kaiser Order Number: 984773

Line Item: 001

KAISER ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS
9700 SOUTH HARLEM AVE
BRIDGEVIEW, IL 60455

CERTIFIED TEST REPORT

http://www.KaiserAluminum.com

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

Job #5725

METALEX
QA. DEPT.
ACCEPTED
DATE 6/22/06
BY RKB

MTX QC 18

P/N L143-110115
P.O.# 64970
Item# 4

CERTIFICATION

Kaiser Aluminum & Chemical Corp. ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that stated on Kaiser's general terms & conditions of sale. Test reports are on file, subject to examination.

Frank E. Watson, Quality Assurance Manager

Plant Serial: 00141159

Kaiser Order Number: 984773

Line Item: 001

CERTIFICATE OF TEST

Certification Date
26-MAY-2006

CUSTOMER ORDER NUMBER
64752-BL-5681

CUSTOMER PART NUMBER
ITEM 1

EARLE M. JORGENSEN COMPANY
601 REDNA TERRACE
P.O. BOX 15100
CINCINNATI OH 45215

Invoice Number
S956531

SOLD TO: METALEX MANUFACTURING
5750 CORNELL RD
CINCINNATI OH 45242

SHIP TO: METALEX MFG
5750 CORNELL ROAD
CINCINNATI OH 45242

Description: 1018 CF BAR ASTM A108
3/16 X 1/2 FLATS X 12' R/L
Line Total: 3.8 LB
HEAT: CL132712 ITEM: 502748

Specifications:
ASTM A108 93

CHEMICAL ANALYSIS

C	MN	P	S	B	CR	CU	MO
0.16	0.71	0.008	0.029	0.0001	0.09	0.2	0.01

N	NI	SI	SN	TI	V
0.007	0.06	0.25	0.009	0.001	0.001

RCPT: R251728
MILL : CHARTER WIRE
COUNTRY OF ORIGIN : US

STRAND CAST REDUCTION RATIO 284.0 TO 1

COMMENTS
MELT SOURCE: STEEL DYNAMICS
HOT ROLL SOURCE: CHARTER STEEL
SILICON KILLED COARSE GRAIN

METALEX
QA. DEPT.
ACCEPTED
DATE 6/6/06
BY KKB

Job# ~~5681~~ 5725
PART# L143-110108
P.O# 64752 S.W
6-20-06

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

Paul Barnhart
MANAGER, QUALITY ASSURANCE

PM1.017

CHARTER WIRE
A Division of Charter Manufacturing Co., Inc.
114 N. Jackson Street
Milwaukee, Wisconsin 53202-6297
(414) 390-3000
(414) 390-3031 Fax

R 251728

DATE: 11/12/2004

CERTIFICATE OF MATERIAL AND SPECIFICATION

CUSTOMER: EMJ
CUSTOMER'S P.O. NO: P743436001
Customer Item: 502748
SIZE: .1875 X .500
GRADE: AISI 1018
HEAT NO: cl132712

SALES ORDER NO: s37410
WORKORDER: 06100003
ITEM NO: 09043
SPEC 1: ASTM A108-93
SPEC 2:
SPEC 3:

CHEMICAL ANALYSIS: C: .1600 Mn .7100 P: .0080 S: .0290
B: .0001 Cr .0900 Cu .2000 Mo .0100
N: .0070 Ni .0600 Si .2500 Sn .0090
Ti .0010 V: .0010

MILL SPECIFICATIONS: Hot Roll Source: CHARTER STEEL (USA)
Melt Source: STEEL DYNAMICS (USA)
Casting Practice: STRAND
Killing Practice/Grainsize: SILICON KILLED COARSE GRAIN
Reduction Ratio: 284 TO 1

906#56081
METALEX
QA DEPT.
ACCEPTED
DATE 6/6/06
BY KKB
P/N L143-110108
P.O.# 64752
Item# 1

HEAT ANALYSIS IS FROM THE PACKING LIST RECEIVED BY CHARTER FROM OUR RAW MATERIAL SUPPLIER.

QUALITY REPRESENTATIVE

ORIGINAL

CUSTOMER	SHIP DATE	GROSS WEIGHT	QUOTE		PACKING LIST
55230	06/30/06 SHP		05-1229286-	1 OF 1	TEST RESULTS
BILL TO: METALEX MFG INC		WORK ORDER **	ORDER DATE 06/15/06 ORD		

DELIVERY DATE	SHIP BRANCH	SELL BRANCH	WORK ORDER
07/05/06 DEL	02-GRR	05-DAY	2P3472

SHIP TO

METALEX MFG INC 01
5750 CORNELL
CINCINNATI OH 45242

1310 SCRIBNER NW, GRAND RAPIDS MI 49504-3287
Copper and Brass Sales
A ThyssenKrupp Materials NA company
ThyssenKrupp

CUSTOMER P.O. NUMBER	TERRITORY	ENTRY ID
64970-BL-5725	03	05BMK

BUYER	INSIDE SALES
BRIAN LAWSON, P.A.	BRIAN M. KARWOWSKI
BUYER TELEPHONE	INSIDE SALES TELEPHONE
(513)489-0539	(937)415-2620 52625

CUSTOMER SIGNATURE: DATE:

QUANTITY	ORDERED	SHIPPED
INVENTORY	654.23 LB	~~640.00~~
BILLING	654.23 LB	640.00
WAREHOUSE		

SHIP VIA			SHIPPING STATUS	
INTERNAL POOL-TO 05-DAY	COMPLETE X	PARTIAL	CANCEL	
TO CUSTOMER OUR TRUCK/OUR DEL-D1			FOB ORIG	
BILL OF LADING			FREIGHT STATUS PPD	

PACKED WITH OTHER GOODS: 2P1680
FINISHED GOODS LOCATION: WARN LABEL:1013

PART DESCRIPTION: 310373-6

ALUMINUM BRONZE PLATE AMPCO 8 C614/C613, .3125 (+-.019)
SAW 48" X 36" (+.064,-0), LINE ITEM#: 1.
Test Results Attn to: QA Department. , actual certs must be signed Item#1

4pcs

METALEX QA. DEPT ACCEPTED DATE 7/10/06 BY KKB

SPECIAL INSTRUCTIONS

P/N L143-110104

FILL	SCRAP	FILLED BY	PACKED BY	QA AUDIT
		JM		

CUSTOMER RECEIVING HOURS	MAX SKID WEIGHT	LOADING INSTRUCTIONS	MAXIMUM BUNDLE WEIGHT
6:00 am - 12:00 pm	15000	CRANE, FORK	30000

BOXES	BARS	CASES	CUSHP	PKGS	SKIDS	BDLS	TUBES	CTNS	FLAT	COILS
INSPECTION RECORD										

TEST RESULTS - - - - -

CERTIFICATE OF COMPLIANCE
We hereby certify that mercury or any of its compounds are not used in the processing and distribution of our products. The products we distribute are not hazardous in their received state. For MSDS sheets go to www.copperandbrass.com/msds or call 248-233-5682. We hereby certify that the material above complies with the following specifications:
ASTM-B169

ROHS COMPLIANT

TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS	TAG NO	QUANTITY	UOM	VENDOR	VEND PO	HEAT/LOT	PCS
042931 00	640.00	LB	REVEREC	0CK5986	532/4386								

DEL
RECEIVED
JUL 05 2006
METALEX MFG.
BY S.

STEVEN J. FARACI · General Manager: GRAND RAPIDS PRINTED 06/30/06 01:40 PM CONTROL NO 00044

COPPER AND BRASS SALES IS A DIVISION OF THYSSENKRUPP MATERIALS, INC.

Revere Copper Products, Inc.

24 North Front Street New Bedford, MA 02740
Phone: (508) 999-5601 Fax: (508) 991-2115

CERTIFICATE OF TEST

PAGE 1

DATE CODE: 179

ORDER FROM:
COPPER AND BRASS SALES
ATTN: ACCOUNTS PAYABLE
P O BOX 5116
SOUTHFIELD MI 48086-5116

SHIPPED TO:
TMX/COPPER AND BRASS SALES
1310 SCRIBNER AVENUE NORTH WEST
GRAND RAPIDS MI 49504-3287

DATE: 6/28/06
REVERE NO: 33549 ITEM#: 01
CUSTOMER ORDER NUMBER:
CK5986

MATERIAL INFORMATION:

ALUMINUM BRONZE SHEET
C61300/C61400 / AMPCO 8
SOFT TEMPER
48" X 144" X .3125"

ASTM B 169-2001
P/N 310373-6
ROHS COMLIANT

CHEMICAL COMPOSITION

PIECES	LOT	HEAT	COPPER Cu	TIN Sn	LEAD Pb	IRON Fe	NICKEL Ni	MANGANESE Mn	PHOSPHORUS P	CARBON C	SULFUR S	ZINC Zn	SILICON Si	ALUMINUM Al	ARSENIC As
4	4386	532	90.00	.260	.00	2.58	.00	.16	.004			.03	.01	6.92	

NICKEL INCLUDES COBALT

PHYSICAL AND MECHANICAL PROPERTIES

LOT	HEAT	YIELD STRENGTH 0.5% Ext. Psi	TENSILE STRENGTH Psi	ELONGATION % in 2 inches	BEND in degrees	RESISTIVITY ohms/g/m2	ASTM F68 CLASS	ROCKWELL/ BRINELL
4386	532	38,000	83,500	50	120			
4386	532	37,900	82,600	48	120			

Job# 5725
PART# L143-110104
P.O# 64970-BL

METALEX 81.30 XLM
QA. DEPT.
ACCEPTED
DATE 7/10/06
BY KKB

Metalex
6 30 06
PO 64970-BL-5725
2P3472
640 #
CHB/[illegible]

WE HEREBY CERTIFY THAT EACH LOT HAS BEEN SAMPLED, TESTED, AND INSPECTED IN ACCORDANCE WITH THE ABOVE SPECIFICATIONS AND HAS MET THE REQUIREMENTS. THE MATERIAL HAS NOT BEEN WELD REPAIRED.

JORG SCHAFFSTEIN
Q.C. ADMINISTRATOR

ML2-1 02/01

06/30/2006 12:53 FAX

Quantity Shipped	Unit	Description	Revision	Job Number
8	EA	L143-111301 BASE, HOLDER MAGNET STRUCT 7.75 X 5 X 2 MIC-6 CAST ALUMINUM CERT CLEAR ANODIZE / SODIUM DICHROMATE SEAL	00	20759-03

ITEM # 3

CRITICAL PART**HANDLE VERY CAREFULLY
CLEAR ANODIZE PER AMS-2471, REV F
SODIUM DICHROMATE SEAL REQUIRED
CERTIFICATION REQUIRED
OPERATION# 70
JO# 5725
3 BOXES
LOC# 5-183

METALEX QA DEPT. MTX QC 18
ACCEPTED
DATE 10/11/06
BY KKB

THIS CERTIFIES THAT THE ABOVE PARTS, METAL FINISH BY TECHMETALS INCORPERATED WERE PLATED/PROCESSED IN ACCORDANCE WITH THE PURCHASE ORDER SHOWN ABOVE. OBJECTIVE QUALITY EVIDENCE FOR THIS ORDER IS ON FILE AT OUR FACILITY AND AVAILIBLE FOR CUSTOMER/GOVERMENT REVIEW.

CERTIFING THE PROCESS ONLY

Thomas A. Stahl
Inspector's Initials
Techmetals Incorporated

S/N(S): -18, -20, -22, -24, -26, -28, -30 & -32
TC 12/14/06 MTX QC 12

FROM :Bld 5 PRODUCTION TECHMETALS FAX NO. :9372531982 Oct. 11 2006 02:55PM P2

SYNCSV: -112, -212, -312
-114, -214, -314
-116 -216, -316
ITEM #1, #2
For ~~SOTA~~
PART #'S TC
10/10/06

MTX
QC 12

Techmetals Incorporated

TECHMETALS, INC.

2200 EAST FIRST STREET
Dayton, OH 45403
Phone: 937-253-5311
Fax: 937-253-1982

METALEX
QA DEPT
ACCEPTED
DATE 10/12/06
BY KKB

Revised Metal Finishing Certification

To: METALEX MANUFACTURING INC
5750 CORNELL ROAD
CINCINNATI, OH 45242

United States

From: Techmetals Incorporated
2200 EAST FIRST STREET
Dayton, OH 45403

Packing List No: 24533
Shipping Date: 09/20/06

Today's Date: 10/11/06
PO Number: 66464-JS

	Quantity Shipped	Unit	Description	Revision	Job Number
ITEM # 1	9	EA	L143-111101 HOLDER MAGNET STRUCT 39.50 X 5 X 2.50 MIC-6 ALUMINUM CERT CLEAR ANODIZE / SODIUM DICHROMATE SEAL ***CRITICAL PART**HANDLE VERY CAREFULLY*** **WRAP TO PROTECT & KEEP CLEAN** CLEAR ANODIZE PER AMS-2471 F, SODIUM DICHROMATE SEAL REQUIRED CERTIFICATION REQUIRED OPERATION# 70 JO# 5681 3 BOXES LOC# 5-183	01	20759-01
ITEM #2	9	EA	L143-111001 HOLDER MAGNET STRUCT 39.50 X 5 X 2.50 MIC-6 ALUMINUM CERT CLEAR ANODIZE / SODIUM DICHROMATE SEAL ***CRITICAL PART**HANDLE VERY CAREFULLY*** **WRAP TO PROTECT & KEEP CLEAN** CLEAR ANODIZE PER AMS-2471 F, SODIUM DICHROMATE SEAL REQUIRED CERTIFICATION REQUIRED OPERATION# 70 JO# 5681 3 BOXES LOC# 5-183	01	20759-02

FROM :Bld 5 PRODUCTION TECHMETALS FAX NO. :9372531982 Oct. 11 2006 02:55PM P6

TECHMETALS, INC.

METALEX
QA. DEPT.
ACCEPTED
DATE 10/2/06
BY KKB
MTX 06 18

Metal Finishing Certification

To: METALEX MANUFACTURING INC
5750 CORNELL ROAD
CINCINNATI, OH 45242
United States

From: Techmetals Incorporated
2200 EAST FIRST STREET
Dayton, OH 45403

Packing List No: 24891
Shipping Date: 09/26/06
Today's Date: 09/26/06
PO Number: 66827-BL-5725

Quantity Shipped	Unit	Description	Revision	Job Number
8	EA	L143-111201 BASE, HOLDER MAGNET STRUCT (UPPER RIGHT) 7.75 X 5 X 2 MIC-6 CAST ALUMINUM CERT CLEAR ANODIZE / SODIUM DICHROMATE SEAL ***CRITICAL PART**HANDLE VERY CAREFULLY*** CLEAR ANODIZE PER AMS-2471, REV F SODIUM DICHROMATE SEAL REQUIRED CERTIFICATION REQUIRED OPERATION# 70 1 BOX LOC# 5-379		21175-01
8	EA	L143-110901 BASE, HOLDER MAGNET STRUCT (LOWER LEFT) 7.75 X 5 X 2 MIC-6 CAST ALUMINUM CERT CLEAR ANODIZE / SODIUM DICHROMATE SEAL ***CRITICAL PART**HANDLE VERY CAREFULLY*** CLEAR ANODIZE PER AMS-2471, REV F SODIUM DICHROMATE SEAL REQUIRED CERTIFICATION REQUIRED OPERATION# 70 1 BOX LOC# 5-379		21175-02

S/N(S): -18, -20, -22, -24, -26, -28, -30, & -32.
TC 12/14/06
MTX DC 12
FOR BOTH LINE ITEMS

Quantity Shipped	Unit	Description	Revision	Job Number

THIS CERTIFIES THAT THE ABOVE PARTS, METAL FINISHED BY TECHMETALS, INC., WERE PLATED/PROCESSED IN ACCORDANCE WITH THE PURCHASE ORDER SHOWN ABOVE.

OBJECTIVE EVIDENCE FOR THIS ORDER IS ON FILE AT OUR FACILITY AND AVAILABLE FOR CUSTOMER/GOVERNMENT REVIEW.

METALEX
QA. DEP. MTX QC 18
ACCEPTED
DATE 9/30/06
BY KKB

TM
QA
4

Inspector's Initials
Techmetals Incorporated

TECHMETALS, INC.

2200 EAST FIRST STREET
Dayton, OH 45403
Phone: 937-253-5311
Fax: 937-253-1982

METALEX
QA. DEPT.
ACCEPTED
DATE 11/22/06
BY KKB

NOV 15 2006

Metal Finishing Certification

To: METALEX MANUFACTURING INC
5750 CORNELL ROAD
CINCINNATI, OH 45242

United States

From: Techmetals Incorporated
2200 EAST FIRST STREET
Dayton, OH 45403

Packing List No: 26422
Shipping Date: 10/24/06

Today's Date: 10/30/06
PO Number: 67330-JS-5725

Quantity Shipped	Unit	Description	Revision	Job Number
24	EA	L143-111001 HOLDER MAGNET STRUCT 39.50 X 5 X 2.50 MIC-6 ALUMINUM CERT CLEAR ANODIZE / SODIUM DICHROMATE SEAL ***CRITICAL PART**HANDLE VERY CAREFULLY*** **WRAP TO PROTECT & KEEP CLEAN** ***MATCH TO PROVIDED COLOR SAMPLE*** CLEAR ANODIZE PER AMS-2471 F, SODIUM DICHROMATE SEAL REQUIRED CERTIFICATION REQUIRED OPERATION# 70 3 CASES LOC# 5-857	02	22488-01

THIS CERTIFIES THAT THE ABOVE PARTS, METAL FINISH BY TECHMETALS INCORPERATED WERE PLATED/PROCESSED IN ACCORDANCE WITH THE PURCHASE ORDER SHOWN ABOVE. OBJECTIVE QUALITY EVIDENCE FOR THIS ORDER IS ON FILE AT OUR FACILITY AND AVAILIBLE FOR CUSTOMER/GOVERMENT REVIEW.

CERTIFING THE PROCESS ONLY

Inspector's Initials
Techmetals Incorporated

SWCJ: -118, -218, -318
-120, -220, -320
-122, -222, -322
-124, -224, -324
-126, -226, -326
-128, -228, -328
-130, -230, -330
-132, -232, -332

TC 12/14/06

MTX QC 12

TECHMETALS, INC.

Metal Finishing Certification

METALEX
QA. DEPT
~~RECEIPTED~~
DATE 10/27/06
BY RKB

Requested Revised Cert

To: METALEX MANUFACTURING INC
5750 CORNELL ROAD
CINCINNATI, OH 45242
United States

From: Techmetals Incorporated
2200 EAST FIRST STREET
Dayton, OH 45403

Packing List No: 26422
Shipping Date: 10/24/06
Today's Date: 10/24/06
PO Number: 67330-JS-5725

Quantity Shipped	Unit	Description	Revision	Job Number
24	EA	L143-111001 HOLDER MAGNET STRUCT 39.50 X 5 X 2.50 MIC-6 ALUMINUM CERT CLEAR ANODIZE / SODIUM DICHROMATE SEAL ***CRITICAL PART**HANDLE VERY CAREFULLY*** **WRAP TO PROTECT & KEEP CLEAN** ***MATCH TO PROVIDED COLOR SAMPLE*** CLEAR ANODIZE PER AMS-2471 F, SODIUM DICHROMATE SEAL REQUIRED CERTIFICATION REQUIRED OPERATION# 70 3 CASES LOC# 5-857	~~01~~ 02 TC 10/26/06	22488-01

THIS CERTIFIES THAT THE ABOVE PARTS, METAL FINISHED BY TECHMETALS, INC., WERE PLATED/PROCESSED IN ACCORDANCE WITH THE PURCHASE ORDER SHOWN ABOVE.

OBJECTIVE EVIDENCE FOR THIS ORDER IS ON FILE AT OUR FACILITY AND AVAILABLE FOR CUSTOMER/GOVERNMENT REVIEW.

RECEIVED
OCT 24 2006
METALEX MFG.
BY _____

Thomas A. Stall
HW# 10-24-06
Inspector's Initials
Techmetals Incorporated

CINCINNATI BLACK OXIDE CERTIFICATION

THIS IS TO CERTIFY THAT THE FOLLOWING PARTS HAVE BEEN PROCESSED AND INSPECTED TO MEET AMS 2485 J CERTIFICATION

COMPANY NAME: METALEX MANUFACTURING
PURCHASE ORDER NUMBER: 66844-BL
PARTS PROCESSED:

Job#5725

QUANTITY	PART NUMBER	DESCRIPTION
36 pcs	L143-110108 REV. **	

METALEX QC 1 MTX
QA. DEPT.
ACCEPTED
DATE 10/12/06
BY KKB

SIGNATURE Marcia Vitolo

DATE CERTIFIED: 10.11.06

CERTIFICATION NO. 101106-002

CINCINNATI BLACK OXIDE
4510 MUHLHAUSER ROAD
CINCINNATI, OHIO 45011
PHONE 513-874-1333
FAX 513-874-4846

CINCINNATI ABRASIVE SUPPLY COMPANY

5700 Hillside Avenue
Cincinnati, Ohio 45233
Phone: 513-941-8866 Fax: 513-941-8963

20641 5725

METALEX
QA. DEPT.
ACCEPTED
DATE 10/27/06
BY KKB

MTX DC 18

CERTIFICATION

Company Metalex Date: 10/16/06

P. O. # 66877 S. O. # 5725

Cincinnati Abrasive Shipper# 24913 No. of pcs. 421

Certification Spec # AMS 2485 (J)

Part Numbers L143-110111-**

Wrap to protect. Black oxide per AMS 2485 Rev J

This is to certify that all work supplied by Cincinnati Abrasive Supply Company is treated with Black Oxide in accordance with the above specification.

Cincinnati Abrasive Supply Company

CINCINNATI BLACK OXIDE CERTIFICATION

THIS IS TO CERTIFY THAT THE FOLLOWING PARTS HAVE BEEN PROCESSED AND INSPECTED TO MEET AMS 2485 J CERTIFICATION

COMPANY NAME: Metalex Manufacturing Inc
PURCHASE ORDER NUMBER: 68706-JS
PARTS PROCESSED:

QUANTITY	PART NUMBER	DESCRIPTION
32 pcs	#L143-110114-01	Screen

METALEX QA. DEPT. ACCEPTED DATE 12/14/06 BY KKB

SIGNATURE [signature]

DATE CERTIFIED: 12/7/06

CERTIFICATION NO. 120706-001

CINCINNATI BLACK OXIDE
4510 MUHLHAUSER ROAD
CINCINNATI, OHIO 45011
PHONE 513-874-1333
FAX 513-874-4846

RECEIVED DEC 07 2006 METALEX MFG. BY [signature]

CINCINNATI BLACK OXIDE CERTIFICATION

THIS IS TO CERTIFY THAT THE FOLLOWING PARTS HAVE BEEN PROCESSED AND INSPECTED TO MEET AMS 2485 J CERTIFICATION

COMPANY NAME: METALEX MFG.
PURCHASE ORDER NUMBER: 67627-JG
PARTS PROCESSED:

QUANTITY	PART NUMBER	DESCRIPTION
112	LL143-110119-REV. **	SPACER

JOB#5725

METALEX
QA. DEPT
ACCEPTED
DATE 11/6/06
BY KKB

SIGNATURE Marcia Vitolo

DATE CERTIFIED: 10-27-06

CERTIFICATION NO. 102706-001

CINCINNATI BLACK OXIDE
4510 MUHLHAUSER ROAD
CINCINNATI, OHIO 45011
PHONE 513-874-1333
FAX 513-874-4846

TECHMETALS, INC.
145 Springfield St. Dayton, OH 45403-1240

Metal Finishing Certification

METALEX
QA. DEPT.
ACCEPTED
DATE 11/29/06
BY KKB

To: METALEX MANUFACTURING INC
5750 CORNELL ROAD
CINCINNATI, OH 45242
United States

From: Techmetals Incorporated
2200 EAST FIRST STREET
Dayton, OH 45403

Packing List No: 27814 **Today's Date:** 11/16/06
Shipping Date: 11/16/06 **PO Number:** 68010-JS-5725

Quantity Shipped	Unit	Description	Revision	Job Number
130	EA	L143-110115-01 STOPPER 2 X 1.375 X 0.50 6061-T651 ALUMINUM CERT CLEAR ANODIZE/SODIUM DICHROMATE SEAL ***CRITICAL PART**HANDLE VERY CAREFULLY*** CLEAR ANODIZE PER AMS-2471, REV F SODIUM DICHROMATE SEAL REQUIRED WRAP TO PROTECT & KEEP CLEAN CERTIFICATION REQUIRED OPERATION# 40 1 BOX LOC# 5-302		23736-01

THIS CERTIFIES THAT THE ABOVE PARTS, METAL FINISHED BY TECHMETALS, INC., WERE PLATED/PROCESSED IN ACCORDANCE WITH THE PURCHASE ORDER SHOWN ABOVE.

OBJECTIVE EVIDENCE FOR THIS ORDER IS ON FILE AT OUR FACILITY AND AVAILABLE FOR CUSTOMER/GOVERNMENT REVIEW.

Mark D. Phillips TM QA 11
Inspector's Initials
Techmetals Incorporated

Ph 937-253-5311 Fax: 937-253-5096

TECHMETALS, INC.

345 Springfield St. Dayton, OH 45403-1240

Metal Finishing Certification

METALEX
QA DEPT
ACCEPTED
DATE 10/10/06
BY KKB

To: METALEX MANUFACTURING INC
5750 CORNELL ROAD
CINCINNATI, OH 45242
United States

From: Techmetals Incorporated
2200 EAST FIRST STREET
Dayton, OH 45403

Packing List No: 25333	**Today's Date:** 10/04/06
Shipping Date: 10/04/06	**PO Number:** 66861-JS-5725

Quantity Shipped	Unit	Description	Revision	Job Number
8	LOT	L143-110801 BASE, HOLDER MAGNET STRUCT 7.75 X 5 X 2 MIC-6 CAST ALUMINUM CERT CLEAR ANODIZE / SODIUM DICHROMATE SEAL ***CRITICAL PART**HANDLE VERY CAREFULLY*** **MATCH TO SAMPLE** CLEAR ANODIZE PER AMS-2471, REV F SODIUM DICHROMATE SEAL REQUIRED CERTIFICATION REQUIRED OPERATION# 70 1 BOX LOC# 5-530		21605-01

THIS CERTIFIES THAT THE ABOVE PARTS, METAL FINISHED BY TECHMETALS, INC., WERE PLATED/PROCESSED IN ACCORDANCE WITH THE PURCHASE ORDER SHOWN ABOVE.

OBJECTIVE EVIDENCE FOR THIS ORDER IS ON FILE AT OUR FACILITY AND AVAILABLE FOR CUSTOMER/GOVERNMENT REVIEW.

S/N(S): -18, -20, -22, -24, -26, -28, -30, & -32

TC 12/14/06

MTX QC 12

Thomas A Stahl
10-4-06
Inspector's Initials
Techmetals Incorporated

Ph 937-253-5311 Fax 937-253-5096

TECHMETALS, INC.

345 Springfield St. Dayton, OH 45403-1240

Metal Finishing Certification

METALEX
QA. DEPT. MTX OC 18
ACCEPTED
DATE 11/29/06
BY KKB

To: METALEX MANUFACTURING INC
5750 CORNELL ROAD
CINCINNATI, OH 45242
United States

From: Techmetals Incorporated
2200 EAST FIRST STREET
Dayton, OH 45403

Packing List No: 27661 **Today's Date:** 11/14/06
Shipping Date: 11/14/06 **PO Number:** 68002-JS-5725

Quantity Shipped	Unit	Description	Revision	Job Number
24	EA	L143-111101 HOLDER MAGNET STRUCT 39.50 X 5 X 2.50 MIC-6 ALUMINUM CERT CLEAR ANODIZE / SODIUM DICHROMATE SEAL ***CRITICAL PART**HANDLE VERY CAREFULLY*** **WRAP TO PROTECT & KEEP CLEAN** CLEAR ANODIZE PER AMS-2471 F, SODIUM DICHROMATE SEAL REQUIRED CERTIFICATION REQUIRED OPERATION# 70 2 BOXES LOC# 5-234	02	23493-01

THIS CERTIFIES THAT THE ABOVE PARTS, METAL FINISHED BY TECHMETALS, INC., WERE PLATED/PROCESSED IN ACCORDANCE WITH THE PURCHASE ORDER SHOWN ABOVE.

OBJECTIVE EVIDENCE FOR THIS ORDER IS ON FILE AT OUR FACILITY AND AVAILABLE FOR CUSTOMER/GOVERNMENT REVIEW.

S/N(S): -118, -218, -318
-120, -220, -320
-122, -222, -322
-124, -224, -324
-126, -226, -326
-128, -228, -328
-130, -230, -330
-132, -232, -332

TC
12/14/06
MTX OC 12

TM
QA

Tracy L. Fryer
Inspector's Initials
Techmetals Incorporated

Date.08/15/06

Job#5681/5725

METALEX
QA. DEPT.
ACCEPTED
DATE 8/22/06
BY RKB

Certificate of Compliance

METALEX
5750 CORNELL RD.
CINCINNATI, OH 45242
To METALEX Quality Assurance,

This is to certify that ***321*** pieces of Part No. ***L143-110703*** covered by your P.O. No. ***65852-BL*** have been manufactured and inspected to the highest standards in accordance with all specifications stated on supplied print and P.O.

Hi-Tech Manufacturing
4637 North 25th Avenue
Schiller Park, Illinois 60176
JOSEPH J. BOURKE

HI-TECH Manufacturing Inc.

INSPECTION REPORT

PART# L143-110703 REV# — DESCRIPTION: PEAK FILED SHIM

JOB # 52669 CUSTOMER : ARGONNE DATE 08-08-06

QUANTITY: 300 PCS INSPECTED BY: ILYA SAMPLE SIZE 10 Pcs

Inspection Report First Article

Inspected Criteria		Inspection Results	Disposition	
#	Inspected Dimension	Range	Accepted	Rejected
1	9. 0 +0 /-0.1	8.915 – 8.9948	✓	
2	6.2 +0.1 / -0	6.108 -6.0706	✓	
3	2X156.5 +0.5 /-0 DEGREE	2X158.0 – 158.5	✓	
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

Remarks : Decimal:. Accepted by Emil Vraechtenberg

Form IR Rev. 08/98

CRAFTS

CRAFTS TECHNOLOGY
Precision Fabrication of Ultra-Hard Materials

Crafts Technology
91 Joey Drive
Elk Grove Village, IL 60007
UPS ACCT# 4E3-E38

Ph: 847-758-3100
Fax: 847-758-0162

METALEX
QA. DEPT.
ACCEPTED
DATE 8/7/06
BY RKB

Pack List

Number: 8358 Date: 20-Jul-06

To

Metalex Manufacturing, Inc.
5750 Cornell Road
Cincinnati, OH 45242
USA

Ph: 513-489-0507 Fax: 513-489-1020

Ship To

Metalex Manufacturing, Inc.
5750 Cornell Road
Cincinnati, OH 45242
USA

Ph: 513-489-0507 Fax: 513-489-1020

Terms	Ship Via
Net 21 days	UPS RED

Quantity	Description
297 each	Part: L143-110702 Rev: 01 TAPER SHIM Job: 2717 PO: 64975-BL Line:
	Thank you for your order This is to certify that the materials, parts and/or processes furnished against the above referenced purchase order were manufactured in accordance with the customer drawing and revision level shown Crafts Technology/Quality Control Department

Clans Technology, Inc.

FINAL INSPECTION REPORT

DATE 7-20-06

INSPECTOR [illegible]

JOB NUMBER 2717

PART NUMBER L143-110702

DESCRIPTION TAPER SHIM

CUSTOMER METALEX

DATE	SEQ	OPN		INSP CLK#	DRAWING DIM./TOLERANCE	ACTUAL MEASUREMENT NO 1	NO 2	NO 3	NO 4
					.394	.397 /	.3982		
					5.118 ±.007	5.124 /	5.125		
					RAD. .079 ±.008 2PL	.075 /	.082		
					.500 ±.008	.5032 /	.5045		
					.008	.009 /	.010		
					.004	.0045	.0061		
					.075 ±.0008	.0752 /	.0756		
					.087 ±.0008	.0872 /	.0876		
					⏥ .003	.0006 /	.0025		

OK TO SHIP MS 7-20-06

ANCHOR METAL FINISHING, INC.

BLACK OXIDE ON STEEL

"Specialists in the Field"

9355 BERNICE • SCHILLER PARK, ILLINOIS 60176 • PHONE: (708) 678-4304 • FAX: (708) 678-7331

Crafts technology

METALEX
QA. DEPT.
ACCEPTED
DATE 8/7/06
BY KKB

Gentlemen:

This is to certify that parts listed below have been black oxided in accordance with AMS 2485J (Aerospace) specifications.

Very truly yours,

Alex

ANCHOR METAL FINISHING, INC.

Shipping Ticket No. 264262

Your P.O. NO. 7473

Date 07-31-06

Part NO. L143-110702

Quantity 300 pcs

PO 64975 - BC - 5681

Stripco Inc.

• STEEL SLITTING AND EDGE CONDITIONING
• PRECISION COLD ROLLING

58575 Magnetic Drive • Mishawaka, IN 46545
Phone: (574) 258-7800 • Fax: (574) 258-7813

PACKING LIST

PACKING SLIP NUMBER: 187483

SLED
D**

--EH7-645-9964--

D TO:
Alro Steel Jackson
3100 East High Street
P.O. Box 937
Jackson, MI 49203

SHIP TO:
Alro Steel Pottersville
5059 Alro Park Drive
Pottersville, MI 48876

DUE DATE 3/24/05 TT

E OF ORDER	DATE SHIPPED	CUSTOMER ORDER NO.	SHIPPED VIA	DEPT.	TERMS
3/08/05	3/30/05	PO PO 5077044	HILLTOP FARMS	90	1/2-10 NET 30

QTY. ORD.	JOB NUMBER	DESCRIPTION	QTY. SHIPPED	QTY. B.O.
BILL	-OF-LADING->	FRE DRIVER-> HILLTOP	PREPAID/S	
2,000	6355301	1/8 X .437" X 144.00" CR 1018		
	OSS WGT	2,199		
	TAG#	337369		
	LOCATION	CK4	2,199	
	PCS/COIL	990		
			CNT TOTAL 990	

CERTIFIED RECORD OF METALLURGICAL PROPERTIES

STRIP#	Carb	Mang	Phos	Sulf	Sil	Alum	Chrm	Moly	Heat#
147220	.150	.61	.006	.007	.030	.029	.08	.027	H3689
Yld=	46,899 Ten=		77,427 Elg%=22.45 Dia= 0						

RECEIVED MAR 30 2005 BY

ALRO STEEL/METAL
RT04483400

REJECTIONS WILL BE HONORED ONLY IF RETURNED IN ORIGINAL FORM SOLD.

A Service Charge of 1½% per month (18% per year) will be added to all invoices that are 30 days past the Date of Invoice. Title to merchandise does not pass until goods are fully paid for.
Claims for errors, deficiencies, or imperfections must be made within 10 days after receipt of goods. The Seller's responsibility for material in transit ceases when it passes into the hands of the transportation company. "We hereby certify that we have complied with all requirements of the Fair Labor Standards Act of 1938, as amended."

CHECK BOX IF COLLECT ☐
Load Approved: SOT
Load must be secured and weather protected.
Driver:

RECEIVED BY: X

DATE RECEIVED: 3-30-05

CUSTOMER COPY

Job#5681/5725

METALEX
QA. DEPT.
ACCEPTED
DATE 8/7/06
BY KKB

CRAFTS TECHNOLOGY
Precision Fabrication of Ultra-Hard Materials

Crafts Technology
91 Joey Drive
Elk Grove Village, IL 60007
UPS ACCT# 4E3-E38

Ph: 847-758-3100
Fax: 847-758-0162

Pack List

Number: 8377 Date: 24-Jul-06

To

Metalex Manufacturing, Inc.
5750 Cornell Road
Cincinnati, OH 45242
USA

Ph: 513-489-0507 Fax: 513-489-1020

Ship To

Metalex Manufacturing, Inc.
5750 Cornell Road
Cincinnati, OH 45242
USA

Ph: 513-489-0507 Fax: 513-489-1020

Terms	Ship Via
Net 21 days	UPS

Quantity	Description
314 each	Part: L143-110702 Rev: 01 TAPER SHIM Job: 2717 PO: 64975-BL Line:
	Thank you for your order This is to certify that the materials, parts and/or processes furnished against the above referenced purchase order were manufactured in accordance with the customer drawing and revision level shown Crafts Technology/Quality Control Department

Crafts Technology, Inc.

FINAL INSPECTION REPORT

DATE 7-20-06

INSPECTOR [illegible]

JOB NUMBER 2717

PART NUMBER L143-110702

DESCRIPTION TAPER SHIM

CUSTOMER METALEX

DATE	SEQ	OPN		INSP CLK#	DRAWING DIM./TOLERANCE	ACTUAL MEASUREMENT NO 1	NO 2	NO 3	NO 4
					.394	.397	.3982		
					5.118 ±.007	5.124	5.125		
					RAD. .079 ±.008 2PL	.075	.082		
					.500 ±.008	.5032	.5045		
					.008	.009	.010		
					.004	.0045	.0061		
					.075 ±.0008	.0752	.0756		
					.087 ±.0008	.0872	.0876		
					⊥ .003	.0006	.0025		

OK TO SHIP DS 7-20-06

ANCHOR METAL FINISHING, INC.

BLACK OXIDE ON STEEL

"Specialists in the Field"

9355 FERNICE • SCHILLER PARK, ILLINOIS 60176 • PHONE: (708) 678-4304 • FAX: (708) 678-7331

Crafts Technology

METALEX QA. DEPT. MTX OC 18 ACCEPTED DATE 8/7/06 BY KKB

Gentlemen:

This is to certify that parts listed below have been black oxided in accordance with AMS 2485J (Aerospace) specifications.

Very truly yours,

Alex

ANCHOR METAL FINISHING, INC.

Shipping Ticket No. 264279

Your P.O. NO. 7480

Date 07-31-06

Part NO. L143-110702

Quantity 314 pcs

PO 64975 - BC - 5681

Stripco Inc.

- STEEL SLITTING AND EDGE CONDITIONING
- PRECISION COLD ROLLING

5898 Magnolia Drive • Mishawaka, IN 46545
Phone: (574) 258-7800 • Fax: (574) 258-7812

PACKING LIST

PACKING SLIP NUMBER
187483

SLED
D**

~~[illegible]~~

DUE DATE 3/24/05 TT

SLD TO:
Alro Steel Jackson
8100 East High Street
P.O. Box 927
Jackson, MI 49203

SHIP TO:
Alro Steel Pottenville
5859 Alro Park Drive
Pottenville, MI 48876

E OF ORDER	DATE SHIPPED	CUSTOMER ORDER NO.	SHIPPED VIA	DEPT.	TERMS
1/08/05	3/30/05	PV PV 5077044	HILLTOP FARMS	90	1/2-10 NET 30

QTY. ORD.	JOB NUMBER	DESCRIPTION	QTY. SHIPPED	QTY. B.O.
	BILL-OF-LADING=>	TRK DRIVER=> HILLTOP	PREPAID/S	
2,000	6355301	1/8 X .437" X 144.00" CR 1018		
	ORS WGT	2,199		
	TAG#	337369	2,199	
	LOCATION	CKA		
	PCS/COIL	990		CNT TOTAL 990

CERTIFIED RECORD OF METALLURGICAL PROPERTIES

STRIDE	Carb	Mang	Phos	Sulf	Sil	Alum	Chrm	Moly	Heat#
147220	.150	.61	.006	.007	.030	.029	.08	.027	H3689
Yld=	66,899	Ten=	77,427	ElgX=22.45	Bls=	0			

RECEIVED
MAR 30 2005
By

ALRO STEEL/METAL
RT04483400

REJECTIONS WILL BE HONORED ONLY IF RETURNED IN ORIGINAL FORM SOLD.

A Service Charge of 1½% per month (18% per year) will be added to all invoices that are 30 days past the Date of Invoice. Title to merchandise does not pass until goods are fully paid for.
Claims for errors, deficiencies, or imperfections must be made within 10 days after receipt of goods. The Seller's responsibility for material in transit ceases when it passes into the hands of the transportation company. "We hereby certify that we have complied with all requirements of the Fair Labor Standards Act of 1938, as amended."

CHECK BOX IF COLLECT ☐
Load Approved: Cpt
Load must be secured and weather protected
Driver: [signature]

RECEIVED BY: X

DATE RECEIVED: 3-30-05

MSF 10-4.1.1 Rev.1

CUSTOMER COPY

CRAFTS

CRAFTS TECHNOLOGY
Precision Fabricator of Ultra-Hard Materials

Crafts Technology
91 Joey Drive
Elk Grove Village, IL 60007
UPS ACCT# 4E3-E38

Ph: 847-758-3100
Fax: 847-758-0162

METALEX
QA. DEPT. 08 30 XUW
ACCEPTED
DATE 8/7/06
BY KRB

15725

Pack List

Number: 8434 Date: 03-Aug-06

To

Metalex Manufacturing, Inc.
5750 Cornell Road
Cincinnati, OH 45242
USA

Ph: 513-489-0507 Fax: 513-489-1020

Ship To

Metalex Manufacturing, Inc.
5750 Cornell Road
Cincinnati, OH 45242
USA

Ph: 513-489-0507 Fax: 513-489-1020

Terms	Ship Via
Net 21 days	UPS

Quantity	Description
300 each	Part: L143-110702 Rev: 01 TAPER SHIM Job: 2717 PO: 64975-BL Line:
	Thank you for your order This is to certify that the materials, parts and/or processes furnished against the above referenced purchase order were manufactured in accordance with the customer drawing and revision level shown Crafts Technology/Quality Control Department Manufactured in the USA

Crafts Technology, Inc.

FINAL INSPECTION REPORT

DATE 08-02-04

INSPECTOR John S.

JOB NUMBER 2717

PART NUMBER L143-110702

DESCRIPTION TAPER SHIM

CUSTOMER METALEX

DATE	SED	OPN		INSP CLK#	DRAWING DIM./TOLERANCE	ACTUAL MEASUREMENT NO 1	NO 2	NO 3	NO 4
					.394	.395	.397	.396	.396
					5.118 ±.007	5.124	5.124	5.125	5.123
					RAD .079 ±.008 2PL	.075	.078	.080	.082
					.500 ±.008	.5025	.5042	.5035	.5035
					.008	.0102	.010	.0102	.010
					.004	.0045	.006	.006	.0045
					.075 ±.0008	.0752	.0754	.0750	.0752
					.087 ±.0008	.0869	.0872	.0876	.0872
					⏥ .003	.0005	.0015	.002	.0015
						5	6	7	8
					.394	.395	.396	.395	.395
					5.118 ±.007	5.125	5.125	5.124	5.125
					RAD .079 ±.008 2PL	.082	.083	.080	.082
					.500 ±.008	.5035	.5030	.5045	.5020
					.008	.0102	.010	.0103	.010
					.004	.0049	.005	.0042	.0062
					.075 ±.0008	.0749	.0754	.0755	.0746
					.087 ±.0008	.0870	.0871	.0872	.0872
					⏥ .003	.0005	.0023	.001	.0015
						9			
					.394	.396			
					5.118 ±.007	5.124			
					RAD .079 ±.008 2PL	.083			
					.500 ±.008	.5035			
					.008	.010			
					.004	.0045			
					.075 ±.0008	.0751			
					.087 ±.0008	.0869			
					⏥ .003	.0005			

ANCHOR METAL FINISHING, INC.

BLACK OXIDE ON STEEL

"Specialists in the Field"

9355 BERNICE • SCHILLER PARK, ILLINOIS 60176 • PHONE: (708) 678-4304 • FAX: (708) 678-[illegible]

Crafts Technology

METALEX
QA. DEPT.
ACCEPTED
DATE 8/7/06
BY KKB

Gentlemen:

This is to certify that parts listed below have been black-oxided in accordance with AMS 2485J (Aerospace) specifications.

Very truly yours,

Alex

ANCHOR METAL FINISHING, INC.

Shipping Ticket No. 269872

Your P.O. NO. 7525

Date 07-31-06

Part NO. L143-110702

Quantity 300 pcs

PO 64975 - BC - 5681

Stripco Inc.

- STEEL SLITTING AND EDGE CONDITIONING
- PRECISION COLD ROLLING

58598 Magnetic Drive • Mishawaka, IN 46545
Phone: (574) 256-7800 • Fax: (574) 256-7812

PACKING LIST

PACKING SLIP NUMBER
SLED D** 187483

-517-445-2906-

DUE DATE 3/24/05 TT

SOLD TO:
Alro Steel Jackson
3100 East High Street
P.O. Box 927
Jackson, MI 49203

SHIP TO:
Alro Steel Potterville
5059 Alro Park Drive
Potterville, MI 48876

DATE OF ORDER	DATE SHIPPED	CUSTOMER ORDER NO.	SHIPPED VIA	DEPT.	TERMS
3/08/05	3/30/05	PV PV 5077044	HILLTOP FARMS	90	1/2-10 NET 30

QTY. ORD.	JOB NUMBER	DESCRIPTION	QTY. SHIPPED	QTY. B.O.
	BILL-OF-LADING=>	TRK DRIVER=> HILLTOP	PREPAID/S	
2,000	6355301	1/8 X .437" X 144.00" CR 1018		
	GRS WGT	2,199		
	TAG#	337369	2,199	
	LOCATION	CKA		
	PCS/COIL	990		CNT TOTAL 990

CERTIFIED RECORD OF METALLURGICAL PROPERTIES

STRID#	Carb	Mang	Phos	Sulf	Sil	Alum	Chrm	Moly	Heat#
147220	.150	.61	.006	.007	.030	.029	.08	.027	H3689
Yld=	66,899	Ten=	77,427	Elg%=22.45	Dia=	0			

RECEIVED MAR 30 2005 BY

ALRO STEEL/METAL RT04483400

REJECTIONS WILL BE HONORED ONLY IF RETURNED IN ORIGINAL FORM SOLD.

A Service Charge of 1½% per month (18% per year) will be added to all invoices that are 30 days past the Date of Invoice. Title to merchandise does not pass until goods are fully paid for.
Claims for errors, deficiencies, or imperfections must be made within 10 days after receipt of goods. The Seller's responsibility for material in transit ceases when it passes into the hands of the transportation company. "We hereby certify that we have complied with all requirements of the Fair Labor Standards Act of 1938, as amended."

CHECK BOX IF COLLECT ☐
Load Approved: Cpt
Load must be secured and weather protected
Driver: [signature]

RECEIVED BY: X

DATE RECEIVED: 3-30-05

NST 10.4.1.1 Rev1

CUSTOMER COPY

KKB 8/22/06

CRAFTS

CRAFTS TECHNOLOGY
Precision Fabricator of Ultra-Hard Materials

Crafts Technology
91 Joey Drive
Elk Grove Village, IL 60007
UPS ACCT# 4E3-E38

Ph: 847-758-3100
Fax: 847-758-0162

METALEX MFG INC
QA. DEPT.
ACCEPTED
DATE 8/22/06
BY KKB

Job# 5685

Pack List 5725

Number: 8455 Date: 09-Aug-06

To

Metalex Manufacturing, Inc.
5750 Cornell Road
Cincinnati, OH 45242
USA

Ph: 513-489-0507 Fax: 513-489-1020

Ship To

Metalex Manufacturing, Inc.
5750 Cornell Road
Cincinnati, OH 45242
USA

Ph: 513-489-0507 Fax: 513-489-1020

Terms	Ship Via
Net 21 days	UPS

Quantity	Description
300 each	Part: L143-110702 Rev: 01 TAPER SHIM Job: 2717 PO: 64975-BL Line:
	Thank you for your order This is to certify that the materials, parts and/or processes furnished against the above referenced purchase order were manufactured in accordance with the customer drawing and revision level shown Crafts Technology/Quality Control Department Wayne Barker Manufactured in the USA

Clarts Technology, Inc.

FINAL INSPECTION REPORT

DATE 08-8-06

INSPECTOR [illegible]

JOB NUMBER 2717

PART NUMBER L143-110702

DESCRIPTION TAPER SHIM

CUSTOMER METALEX

DATE	SEQ	OPN		INSP CLK#	DRAWING DIM./TOLERANCE	ACTUAL MEASUREMENT NO 1	NO 2	NO 3	NO 4
					.394	.3935	.3976	.3965	.3975
					5.118 ±007	5.123	5.125	5.125	5.125
					RAD .079 ±008 2PL	.0720	.079	.082	.081
					.500 ±008	.501	.503	.502	.501
					.008	.010	.011	.010	.010
					.004	.006	.005	.006	.005
					.075 ±0008	.0754	.0757	.0755	.0758
					.087 ±0008	.0875	.0872	.0871	.0872
					⏥ .003	.0006	.001	.0015	.0015
						5	6	7	8
					.394	.3962	.3961	.3959	.3968
					5.118 ±007	5.126	5.125	5.123	5.126
					RAD .079 ±008 2PL	.082	.079	.081	.082
					.500 ±008	.502	.503	.503	.504
					.008	.010	.011	.009	.011
					.004	.006	.005	.006	.005
					.075 ±0008	.0755	.0757	.0751	.0756
					.087 ±0008	.0877	.0872	.0870	.0872
					⏥ .003	.0017	.002	.0015	.0020
						9			
					.394	.3975			
					5.118 ±007	5.125			
					RAD .079 ±008 2PL	.084			
					.500 ±008	.503			
					.008	.010			
					.004	.006			
					.075 ±0008	.0752			
					.087 ±0008	.0871			
					⏥ .003	.0015			

QTY 300 P/S# 9455

ANCHOR METAL FINISHING, INC.

BLACK OXIDE ON STEEL

"Specialists in the Field"

9355 BERNICE • SCHILLER PARK, ILLINOIS 60176 • PHONE: (708) 678-4304 • FAX: (708) 678-7331

Crafts Technology

P.O# 64975

METALEX QA. DEPT. ACCEPTED DATE 8/22/06 BY KKB

PL# 8455

Gentlemen:

This is to certify that parts listed below have been black-oxided in accordance with AMS 2485J (Aerospace) specifications.

Very truly yours,

Jonathan

ANCHOR METAL FINISHING, INC.

Shipping Ticket No. 269615

Your P.O. NO. 7530

Date 8-4-06

Part NO. L143-110702

Quantity 300

Stripco Inc.

- STEEL SLITTING AND EDGE CONDITIONING
- PRECISION COLD ROLLING

50598 Magnetic Drive • Milliamen, IN 46545
Phone: (574) 258-7800 • Fax: (574) 258-7812

PACKING LIST

PACKING SLIP NUMBER
GLED
D** 187483

~~PH:2-645-2964~~

DUE DATE 3/24/05 TT

D TO:
Alro Steel Jackson
3100 East High Street
P.O. Box 927
Jackson, MI 49203

SHIP TO:
Alro Steel Pottersville
5059 Alro Park Drive
Pottersville, MI 48876

S OF ORDER	DATE SHIPPED	CUSTOMER ORDER NO.	SHIPPED VIA	DEPT.	TERMS
3/08/05	3/30/05	PU PO 5027044	HILLTOP FARMS	90	1/2-10 NET 30

QTY. ORD.	JOB NUMBER	DESCRIPTION	QTY. SHIPPED	QTY. B.O.
	BILL-OF-LADING#:	TRK DRIVER#: HILLTOP	PREPAID/S	
2,000	6355301	1/8 X .437" X 144.00" CR 1018		
	OKS WGT	2,199		
	TAG#	337369	2,199	
	LOCATION	CKA		
	PCS/COIL	990		CNT TOTAL 990

CERTIFIED RECORD OF METALLURGICAL PROPERTIES

STRIP#	Carb	Mang	Phos	Sulf	Sil	Alum	Chrm	Moly	Heat#
147220	.150	.61	.006	.007	.030	.029	.08	.027	H3689
Yld=	66,899 Ten=		77,427 Elg%=22.45 Dia= 0						

RECEIVED MAR 30 2005 BY

ALRO STEEL/METAL
RT04483400

REJECTIONS WILL BE HONORED ONLY IF RETURNED IN ORIGINAL FORM SOLD.

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Claims for errors, deficiencies, or imperfections must be made within 10 days after receipt of goods. The Seller's responsibility for material in transit ceases when it passes into the hands of the transportation company. "We hereby certify that we have complied with all requirements of the Fair Labor Standards Act of 1938, as amended."

CHECK BOX IF COLLECT ☐
Load Approved: _____
Load must be secured and weather protected.
Driver: _____

RECEIVED BY: X

DATE RECEIVED: 3-30-05

NSF 10-4-1-1 Rev.1

CUSTOMER COPY

CRAFTS TECHNOLOGY
Precision Fabrication of Ultra-Hard Materials

Crafts Technology
91 Joey Drive
Elk Grove Village, IL 60007
UPS ACCT# 4E3-E38

Ph: 847-758-3100
Fax: 847-758-0162

Pack List

Number: 8536 Date: 28-Aug-06

To

Metalex Manufacturing, Inc.
5750 Cornell Road
Cincinnati, OH 45242
USA

Ph: 513-489-0507 Fax: 513-489-1020

Ship To

Metalex Manufacturing, Inc.
5750 Cornell Road
Cincinnati, OH 45242
USA

Ph: 513-489-0507 Fax: 513-489-1020

Terms	Ship Via
Net 21 days	UPS

Quantity	Description
300 each	Part: L143-110702 Rev: 01 TAPER SHIM Job: 2717 PO: 64975-BL Line:
	Thank you for your order This is to certify that the materials, parts and/or processes furnished against the above referenced purchase order were manufactured in accordance with the customer drawing and revision level shown Crafts Technology/Quality Control Department Manufactured in the USA

Job# 5725
5681

METALEX
QA. DEPT. MTX QC 18
ACCEPTED
DATE 9/11/06
BY KKB

ANCHOR METAL FINISHING, INC.

BLACK OXIDE ON STEEL

"Specialists in the Field"

MISS BERNICE · SCHILLER PARK, ILLINOIS 60176 · PHONE: (708) 678-4304 · FAX: (708) 678-7331

METALEXMTX
QA. DEPT. OC 18
ACCEPTED
DATE 9/11/06
BY KKB

P.O.# 64975
P/L# 8534

Gentlemen:

This is to certify that parts listed below have been black-oxided in accordance with AMS 2485J (Aerospace) specifications.

Very truly yours,

ANCHOR METAL FINISHING, INC.

Shipping Ticket No. 269453

Your P.O. NO. 7633

Date 08/25/06

Part NO. C143-110702

Quantity 300

Clark Technology, Inc.

FINAL INSPECTION REPORT

DATE 08-25-06

INSPECTOR [illegible]

JOB NUMBER 2717

PART NUMBER L143-110702

DESCRIPTION TAPER SHIM

CUSTOMER METALEX

DATE	SEQ	OPN		INSP CLK#	DRAWING DIM./TOLERANCE	ACTUAL MEASUREMENT NO 1	NO 2	NO 3	NO 4
					.394	.396	.396	.3955	.3932
					5.118 ±.007	5.125	5.126	5.124	5.125
					RAD .079 ±.008 2PL	.076	.074	.080	.082
					.500 ±.008	.501	.4999	.4990	.5015
					.008	.0102	.0108	.0107	.0106
					.004	.0053	.005	.0057	.0060
					.075 ±.0008	.0755	.0755	.0752	.0755
					.087 ±.0008	.0872	.0873	.0872	.0875
					⏥ .003	.0025	.003	.008	.0025
						5	6		
					.394	.3955	.3955		
					5.118 ±.007	5.125	5.126		
					RAD .079 ±.008 2PL	.075	.073		
					.500 ±.008	.5011	.5022		
					.008	.0092	.011		
					.004	.0039	.004		
					.075 ±.0008	.0756	.0755		
					.087 ±.0008	.0876	.087		
					⏥ .003	.003	.003		

Stripco Inc.

- STEEL SLITTING AND EDGE CONDITIONING
- PRECISION COLD ROLLING

5698 Magnolia Drive • Mishawaka, IN 46545
Phone: (574) 288-7800 • Fax: (574) 258-7612

PACKING LIST

PACKING SLIP NUMBER
GLED
D** 107483

--EL-AIR-3904--

DUE DATE 3/24/05 TT

SOLD TO:
Alro Steel Jackson
3100 East High Street
P.O. Box 927
Jackson, MI 49203

SHIP TO:
Alro Steel Pottersville
5059 Alro Park Drive
Pottersville, MI 48876

DATE OF ORDER	DATE SHIPPED	CUSTOMER ORDER NO.	SHIPPED VIA	DEPT.	TERMS
3/08/05	3/30/05	PV PU 5072044	HILLTOP FARMS	90	1/3-10 NET 30

QTY. ORD.	JOB NUMBER	DESCRIPTION	QTY. SHIPPED	QTY. B.O.
	BILL-OF-LADING-->	FRR DRIVER--> HILLTOP	PREPAID/S	
2,000	4355301	1/8 X .437" X 144.00" CR 1018		
	DES WGT	2,199		
	TAG#	337369A	2,199	
	LOCATION	CKA		
	PCS/COIL	990		CNT TOTAL 990

CERTIFIED RECORD OF METALLURGICAL PROPERTIES

STRIP#	Carb	Mang	Phos	Sulf	Sil	Alum	Chrm	Moly	Heat#
147270	.150	.61	.006	.007	.030	.029	.08	.027	H3689
Yld=	66,899 Ten=		77,427 Elg%=22.45 Dia= 0						

RECEIVED MAR 30 2005 BY

ALRO STEEL/METAL
RT0448340D

REJECTIONS WILL BE HONORED ONLY IF RETURNED IN ORIGINAL FORM SOLD.

A Service Charge of 1½% per month (18% per year) will be added to all invoices that are 30 days past the Date of Invoice. Title to merchandise does not pass until goods are fully paid for.
Claims for errors, deficiencies, or imperfections must be made within 10 days after receipt of goods. The Seller's responsibility for material in transit ceases when it passes into the hands of the transportation company. "We hereby certify that we have complied with all requirements of the Fair Labor Standards Act of 1938, as amended."

CHECK BOX IF COLLECT ☐
Load Approved: CPT
Load must be secured and weather protected
Driver:

RECEIVED BY: X

DATE RECEIVED: 3-30-05

MSF 104 10 Rev.2

CUSTOMER COPY

Crafts Technology
Precision Fabrication of Ultra-Hard Materials

Crafts Technology
91 Joey Drive
Elk Grove Village, IL 60007
UPS ACCT# 4E3-E38

Ph: 847-758-3100
Fax: 847-758-0162

Pack List

Number: 8579 Date: 01-Sep-06

To

Metalex Manufacturing, Inc.
5750 Cornell Road
Cincinnati, OH 45242
USA

Ph: 513-489-0507 Fax: 513-489-1020

Ship To

Metalex Manufacturing, Inc.
5750 Cornell Road
Cincinnati, OH 45242
USA

Ph: 513-489-0507 Fax: 513-489-1020

Terms	Ship Via
Net 21 days	UPS

Quantity	Description
420 each	Part: L143-110702 Rev: 01 TAPER SHIM Job: 2717 PO: 64975-BL Line:
	Thank you for your order This is to certify that the materials, parts and/or processes furnished against the above referenced purchase order were manufactured in accordance with the customer drawing and revision level shown Crafts Technology/Quality Control Department Manufactured in the USA

9-51-06
Job# 5681/5725

METALEX
QA. DEPT.
ACCEPTED
DATE 10/12/06
BY KKB

ANCHOR METAL FINISHING, INC.

BLACK OXIDE ON STEEL

"Specialists in the Field"

9365 BERNICE · SCHILLER PARK, ILLINOIS 60176 · PHONE: (708) 678-4304 · FAX: (708) 678-7341

Gentlemen:

This is to certify that parts listed below have been black-oxided in accordance with AMS 2485J (Aerospace) specifications.

Very truly yours,

Alex

ANCHOR METAL FINISHING, INC.

Shipping Ticket No. 269295

Your P.O. NO. 7654

Date 8/31/06

Part NO. L193-110 708

Quantity 421

Stripco Inc.

• STEEL SLITTING AND EDGE CONDITIONING
• PRECISION COLD ROLLING

32318 Magnetic Drive • Milbourne, IL 48643
Phone: (574) 258-7800 • Fax: (574) 258-7812

PACKING LIST

PACKING SLIP NUMBER
GLED
D** 187483

DUE DATE 3/24/05 II

TO:
Alro Steel Jackson
3100 East High Street
P.O. Box 927
Jackson, MI 49203

SHIP TO:
Alro Steel Pottersville
3059 Alro Park Drive
Pottersville, MI 48876

E OF ORDER	DATE SHIPPED	CUSTOMER ORDER NO.	SHIPPED VIA	DEPT.	TERMS
1/08/05	3/30/05	PV PO 5077044	HILLTOP FARMS	90	1/2-10 NET 30

QTY. ORD.	JOB NUMBER	DESCRIPTION	QTY. SHIPPED	QTY. B.O.
	BILL-OF-LADING**	TRK DRIVER** HILLTOP	PREPAID	
8,000	6355301	1/8 X .437" X 144.00" CR 1018		
	ORS WGT	2,199		
	TAG#	337369	2,199	
	LOCATION	CK4		
	PCS/COIL	990		CNT TOTAL 990

CERTIFIED RECORD OF METALLURGICAL PROPERTIES

STR10#	Carb	Mang	Phos	Sulf	Sil	Alum	Chrm	Moly	Heat#
147220	.150	.61	.006	.007	.030	.029	.08	.027	H3689
Yld=	66,099 Ten=		77,427 Elg%=22.45 Ole=			0			

RECEIVED
MAR 30 2005
BY

ALRO STEEL/METAL
RT04483400

REJECTIONS WILL BE HONORED ONLY IF RETURNED IN ORIGINAL FORM SOLD.

A Service Charge of 1½% per month (18% per year) will be added to all invoices that are 30 days past the Date of Invoice. Title to merchandise does not pass until goods are fully paid for.
Claims for errors, deficiencies, or imperfections must be made within 10 days after receipt of goods. The Seller's responsibility for material in transit ceases when it passes into the hands of the transportation company. "We hereby certify that we have complied with all requirements of the Fair Labor Standards Act of 1938, as amended."

CHECK BOX IF COLLECT ☐
Load Approved: Cat
Load must be secured and weather protected
Driver:

RECEIVED BY: X
DATE RECEIVED: 3-30-05

CUSTOMER COPY

Crafts Technology, Inc.

FINAL INSPECTION REPORT

DATE 08-25-06

INSPECTOR [illegible]

JOB NUMBER 2717

PART NUMBER L143-110702

DESCRIPTION TAPER SHIM

CUSTOMER METALEX

DATE	SEQ	OPN		INSP CLK#	DRAWING DIM./TOLERANCE	ACTUAL MEASUREMENT NO 1	NO 2	NO 3	NO 4
					.394	.396	.396	.3955	.3952
					5.118 ±.007	5.125	5.126	5.124	5.125
					RAD .079 ±.008 2PL	.076	.074	.080	.082
					.500 ±.008	.501	.4999	.4996	.5015
					.008	.0102	.0108	.0109	.0106
					.004	.0053	.005	.0057	.0056
					.075 ±.0008	.0755	.0755	.0752	.0755
					.087 ±.0008	.0872	.0873	.0872	.0875
					⏥ .003	.0023	.003	.001	.0025
						5	6		
					.394	.3955	.3955		
					5.118 ±.007	5.125	5.126		
					RAD .079 ±.008 2PL	.075	.073		
					.500 ±.008	.5011	.5022		
					.008	.0092	.011		
					.004	.0039	.004		
					.075 ±.0008	.0756	.0755		
					.087 ±.0008	.0876	.087		
					⏥ .003	.003	.003		

Reid Supply Company
A Division of Reid Entities
2265 Black Creek Road • Muskegon, MI 49444-2684
www.reidsupply.com mail@reidsupply.com
Phone: 800-253-0421
231-777-3951
Fax: 800-438-1145
231-773-4485

Job#5725

METALEX
JA. DEPT.
ACCEPTED
DATE 7/26/06
BY KKB

* 3 5 9 7 2 8 7 *

P.O. # : 64697-RB

Shipper No 03597287-0

Bill To: METALEX MFG INC
5750 CORNELL RD
CINCINNATI, OH 45242-2083

Ship To: METALEX MFG INC
5750 CORNELL RD
CINCINNATI, OH 45242-2083

Phone

Attn:

Customer No	Your P.O. No	Sched Date	Ship Via	Ship Date	Shipper No
29204	64697-RB	06/19/06	U.P.S.	07/10/06	03597287-0

Line	Order Qty	Item	Description	Qty Shipped	Back Order
1	1,056	KLI-66353	INSERT M8X1.25 X M12X1.25 THINWALL - SS	1,056	0
		4718		HS Tariff Code:	820510
				Country of Origin:	United States
		JOB#5725			

Total Number of items: 1

Estimated Weight 11 lb 3.60 oz 5.096 kg

Opr: JAI Branch: 11 SLSM: 801

Picker:

All sales of products by Reid Supply Company are made on the terms contained in Reid Supply Company's standard Terms of Sale, which are incorporated by reference. If buyer has not otherwise agreed to those terms, then buyer's Acceptance of Delivery of, or Payment For, the goods will constitute buyer's agreement to the standard Terms of Sale. Reid Supply Company's standard Terms of Sale are available at www.reidsupply.com or by calling 800-253-0421 and requesting a copy.

UPS Gnd

RECEIVED
JUL 12 2006
METALEX MFG.
BY CD

CERTIFICATION OF COMPLIANCE
Reid Supply Company and it's divisions being ISO-9002 compliant does certify that according to our records the above material purchased was supplied in accordance with the description as illustrated in our catalog.

ALL ITEMS MANUFACTURED IN THE U.S.A UNLESS OTHERWISE NOTED.
THANK YOU VERY MUCH FOR YOUR ORDER

Packing List

Cathy Reid, Document Control Supervisor

Packing List

1 METALEX MANUFACTURING INC
5750 CORNELL RD
CINCINNATI OH 45242

(CALLER) RAY

YOUR PURCHASE ORDER NUMBER
65186-RB
Today's Date: 7/07/06

MCMASTER-CARR
200 AURORA INDUSTRIAL PKWY
AURORA OH 44202

IF THERE ARE ANY QUESTIONS ABOUT THIS SHIPMENT CONTACT OUR SALES DEPARTMENT
(330)995-5500

MCM NUMBER
1497054-01

Warehouse Location	McMaster Carr Part Number	Fill Quantity	Item Description	Your Line	Your Order	This Shipment
1-112-05 21-40	94613 A194	1 PK	NYLON HEX HEAD MACHINE SCREW 8-32 THREAD,1/2" LENGTH PKG= 100 EA/PK JOB # 5368	1	1 PK	1
1-295	91290 A330	1 PK	METRIC CLASS 12.9 ALLOY SOCKET HEAD CAP SCREW M6 THREAD,25 MM LENGTH,1 MM PITCH PKG= 100 EA/PK JOB # 5725 2 CERTIFICATE OF COMPLIANCE -This is to certify the above item(s) on your purchase order was supplied in accordance with the description and as illustrated in the catalog. Compliance Manager- Alberto Valedon P/N L143-110+11	2	1 PK	1

METALEX MFG. QC 18
QA. DEPT.
ACCEPTED
DATE 7/13/06
BY KKB

RECEIVED
JUL 10 2006
METALEX MFG.
BY CD

441

7 | METALEX MANUFACTURING INC
5750 CORNELL RD
CINCINNATI OH 45242

(CALLER) GREG

YOUR PURCHASE ORDER NUMBER
64698-RB-5725
Today's Date: 6/19/06

MCMASTER-CARR
200 AURORA INDUSTRIAL PKWY
AURORA OH 44202

IF THERE ARE ANY QUESTIONS ABOUT THIS SHIPMENT CONTACT OUR SALES DEPARTMENT
(330)995-5500

MCM NUMBER
8854707-02

Warehouse Location	McMaster Carr Part Number	Fill Quantity	Item Description	Your Line	Your Order	This Shipment
1-289-04 06-45	91292 A147	3 PK	METRIC 18-8 SS SOCKET HEAD CAP SCREW M8 THREAD,20MM LENGTH,1.25MM PITCH PKG= 50 EA/PK 4	5	3 PK	3
1-290-07 25-86	91292 A156	50 PK	METRIC 18-8 SS SOCKET HEAD CAP SCREW M8 THREAD,55MM LENGTH,1.25MM PITCH PKG= 10 EA/PK 29	6	106 PK	50
			Balance of 56 PK shipped today from another McMaster-Carr warehouse			
1-290-05 23-19	91292 A136	5 PK	METRIC 18-8 SS SOCKET HEAD CAP SCREW M6 THREAD,18MM LENGTH,1MM PITCH PKG= 50 EA/PK 4	3	5 PK	5
1-290-04 04-23	91292 A139	2 PK	METRIC 18-8 SS SOCKET HEAD CAP SCREW M6 THREAD,30MM LENGTH,1MM PITCH PKG= 50 EA/PK 2	4	2 PK	2
1-290-01 05-14	91292 A135	2 PK	METRIC 18-8 SS SOCKET HEAD CAP SCREW M6 THREAD,16MM LENGTH,1MM PITCH PKG= 100 EA/PK 2	2	2 PK	2
1-290-01 06-02	91292 A122	2 PK	METRIC 18-8 SS SOCKET HEAD CAP SCREW M4 THREAD,25MM LENGTH,.7MM PITCH PKG= 100 EA/PK 1	1	2 PK	2

533

7 | 5750 CORNELL RD
CINCINNATI OH 45242

(CALLER) GREG

ORDER NUMBER
64698-RB-5725
Today's Date: 6/19/06

200 AURORA INDUSTRIAL PKWY
AURORA OH 44202
IF THERE ARE ANY QUESTIONS ABOUT THIS SHIPMENT CONTACT OUR SALES DEPARTMENT
(330)995-5500

MCM NUMBER
8854707-02

Warehouse Location	McMaster Carr Part Number	Fill Quantity	Item Description	Your Line	Your Order	This Shipment
1-295-01 05-82	91290 A330	3 PK	METRIC CLASS 12.9 ALLOY SOCKET HEAD CAP SCREW M6 THREAD,25 MM LENGTH,1 MM PITCH PKG= 100 EA/PK 5 P/N L143-110111	7	3 PK	3
		*****	Information about the rest of your order		*****	
	92185 A151		316 STAINLESS STEEL SOCKET HEAD CAP SCREW Shipped 20 PK today from this McMaster-Carr warehouse Balance of 269 PK expected to ship by 7/5/2006	8	289 PK	
	92146 A545		18-8 STAINLESS STEEL SPRING LOCK WASHER Shipped 36 PK today from this McMaster-Carr warehouse	9	36 PK	
	92196 A197		18-8 STAINLESS STEEL SOCKET HEAD CAP SCREW Shipped 36 PK today from this McMaster-Carr warehouse	10	36 PK	
	98437 A104		18-8 SS SPRING WASHER FOR SCKT-HEAD CAP SCREW Shipped 73 PK today from another McMaster-Carr warehouse	11	73 PK	
	98017 A690		18-8 STAINLESS STEEL AN 960 FLAT WASHER Shipped 11 PK today from this McMaster-Carr warehouse	12	11 PK	
	92196 A146		18-8 STAINLESS STEEL SOCKET HEAD CAP SCREW Shipped 1 PK today from this McMaster-Carr warehouse	13	1 PK	

(PS GND)

RECEIVED
JUN 20 2006
METALEX MFG.
BY _____

6/21

WEIGHT 47

7 8854707-02 6
METALEX MANUFACTURING INC

MCMASTER-CARR
WAREHOUSE INSTRUCTIONS
LNS

PURCHASE ORDER
64698-RB-5725

CYCLE
044

PRT523

6/19/06 13:08 533 00006

14 METALEX MANUFACTURING INC
5750 CORNELL RD
CINCINNATI OH 45242

(CALLER) GREG

YOUR PURCHASE ORDER NUMBER
64698-RB-5725

Today's Date: 6/19/06

MCMASTER-CARR
200 AURORA INDUSTRIAL PKWY
AURORA OH 44202

IF THERE ARE ANY QUESTIONS ABOUT THIS SHIPMENT CONTACT OUR SALES DEPARTMENT
(330)995-5500

MCM NUMBER
8854707-01

Warehouse Location	McMaster Carr Part Number	Fill Quantity	Item Description	Your Line	Your Order	This Shipment
1-570-07 24-82	98437 A104	73 PK	18-8 SS SPRING WASHER FOR SCKT-HEAD CAP SCREW #6 SCREW SIZE,.148" ID,.216" OD,.03" MIN THICK PKG= 100 EA/PK 1 PAK	11	73 PK	73
1-701	91292 A156	56 PK	METRIC 18-8 SS SOCKET HEAD CAP SCREW M8 THREAD,55MM LENGTH,1.25MM PITCH PKG= 10 EA/PK 33 PAK Balance of 50 PK shipped today from another McMaster-Carr warehouse	6	106 PK	56
		※※※※※	Information about the rest of your order		※※※※※	
	91292 A122		METRIC 18-8 SS SOCKET HEAD CAP SCREW Shipped 2 PK today from another McMaster-Carr warehouse	1	2 PK	
	91292 A135		METRIC 18-8 SS SOCKET HEAD CAP SCREW Shipped 2 PK today from another McMaster-Carr warehouse	2	2 PK	
	91292 A136		METRIC 18-8 SS SOCKET HEAD CAP SCREW Shipped 5 PK today from another McMaster-Carr warehouse	3	5 PK	

BRB

14 METALEX MANUFACTURING INC
5750 CORNELL RD
CINCINNATI OH 45242

(CALLER) GREG

YOUR PURCHASE ORDER NUMBER
64698-RB-5725
Today's Date: 6/19/06

MCMASTER-CARR
200 AURORA INDUSTRIAL PKWY
AURORA OH 44202
IF THERE ARE ANY QUESTIONS ABOUT THIS SHIPMENT CONTACT OUR SALES DEPARTMENT
(330)995-5500

MCM NUMBER
8854707-01

Warehouse Location	McMaster-Carr Part Number	Fill Quantity	Item Description	Your Line	Your Order	This Shipment
	91292 A139		METRIC 18-8 SS SOCKET HEAD CAP SCREW Shipped 2 PK today from another McMaster-Carr warehouse	4	2 PK	
	91292 A147		METRIC 18-8 SS SOCKET HEAD CAP SCREW Shipped 3 PK today from another McMaster-Carr warehouse	5	3 PK	
	91290 A330		METRIC CLASS 12.9 ALLOY SOCKET HEAD CAP SCREW Shipped 3 PK today from another McMaster-Carr warehouse	7	3 PK	
	92185 A151		316 STAINLESS STEEL SOCKET HEAD CAP SCREW Shipped 20 PK today from this McMaster-Carr warehouse Balance of 269 PK expected to ship by 7/5/2006	8	289 PK	
	92146 A545		18-8 STAINLESS STEEL SPRING LOCK WASHER Shipped 36 PK today from another McMaster-Carr warehouse	9	36 PK	
	92196 A197		18-8 STAINLESS STEEL SOCKET HEAD CAP SCREW Shipped 36 PK today from another McMaster-Carr warehouse	10	36 PK	
	98017 A690		18-8 STAINLESS STEEL AN 960 FLAT WASHER Shipped 11 PK today from another McMaster-Carr warehouse	12	11 PK	
	92196 A146		18-8 STAINLESS STEEL SOCKET HEAD CAP SCREW Shipped 1 PK today from another McMaster-Carr warehouse	13	1 PK	

UPS GND

RECEIVED
JUN 20 2006
METALEX MFG.
BY CD

6/21

WEIGHT 34

2 8854707-01 8
METALEX MANUFACTURING INC
02
02

CYCLE 040
SPUR 4
SHELF 404

PRTAL

6/19/06 13:06 888 00014

MCMASTER-CARR
WAREHOUSE INSTRUCTIONS
LNS

PURCHASE ORDER
64698-RB-5725

5 | METALEX MANUFACTURING INC
5750 CORNELL RD
CINCINNATI OH 45242

(CALLER) GREG

YOUR PURCHASE ORDER NUMBER
64698-RB-5725
Today's Date: 6/19/06

MCMASTER-CARR
200 AURORA INDUSTRIAL PKWY
AURORA OH 44202
IF THERE ARE ANY QUESTIONS ABOUT THIS SHIPMENT CONTACT OUR SALES DEPARTMENT
(330)995-5500

MCM NUMBER
8854707-03

Warehouse Location	McMaster Carr Part Number	Fill Quantity	Item Description	Your Line	Your Order	This Shipment
1- 98-06 24-08	92185 A151	20 PK	316 STAINLESS STEEL SOCKET HEAD CAP SCREW 6-32 THREAD,3/4" LENGTH PKG= 25 EA/PK 2 Balance of 269 PK expected to ship by 7/5/2006	8	289 PK	20 PKS
1- 99-01 06-41	92196 A146	1 PK	18-8 STAINLESS STEEL SOCKET HEAD CAP SCREW 6-32 THREAD,3/8" LENGTH PKG= 100 EA/PK	13	1 PK	1
1- 99-01 09-73	92196 A197	36 PK	18-8 STAINLESS STEEL SOCKET HEAD CAP SCREW 8-32 THREAD,3/4" LENGTH PKG= 100 EA/PK 20	10	36 PK	36
1-104-01 06-81	98017 A690	11 PK	18-8 STAINLESS STEEL AN 960 FLAT WASHER 5/16"SZ,NO. C516,.328"ID,.562"OD, .059"-.067"THK PKG= 3	12	11 PK	11
1-108-06 26-63	92146 A545	36 PK	18-8 STAINLESS STEEL SPRING LOCK WASHER #8 SCREW SIZE,.174" ID,.293" OD,.040" MIN THK PKG= 100 EA/PK 2	9	36 PK	36
		*****	Information about the rest of your order		*****	
	91292 A122		METRIC 18-8 SS SOCKET HEAD CAP SCREW Shipped 2 PK today from this McMaster-Carr warehouse	1	2 PK	179

5 METALEX MANUFACTURING INC
5750 CORNELL RD
CINCINNATI OH 45242

(CALLER) GREG

ORDER NUMBER
64698-RB-5725

Today's Date: 6/19/06

200 AURORA INDUSTRIAL PKWY
AURORA OH 44202

IF THERE ARE ANY QUESTIONS ABOUT THIS SHIPMENT CONTACT OUR SALES DEPARTMENT
(330)995-5500

MCM NUMBER
8854707-03

Warehouse Location	McMaster Carr Part Number	Fill Quantity	Item Description	Your Line	Your Order	This Shipment
	91292 A135		METRIC 18-8 SS SOCKET HEAD CAP SCREW Shipped 2 PK today from this McMaster-Carr warehouse	2	2 PK	
	91292 A136		METRIC 18-8 SS SOCKET HEAD CAP SCREW Shipped 5 PK today from this McMaster-Carr warehouse	3	5 PK	
	91292 A139		METRIC 18-8 SS SOCKET HEAD CAP SCREW Shipped 2 PK today from this McMaster-Carr warehouse	4	2 PK	
	91292 A147		METRIC 18-8 SS SOCKET HEAD CAP SCREW Shipped 3 PK today from this McMaster-Carr warehouse	5	3 PK	
	91292 A156		METRIC 18-8 SS SOCKET HEAD CAP SCREW Shipped 50 PK today from this McMaster-Carr warehouse Shipped 56 PK today from another McMaster-Carr warehouse	6	106 PK	
	91290 A330		METRIC CLASS 12.9 ALLOY SOCKET HEAD CAP SCREW Shipped 3 PK today from this McMaster-Carr warehouse	7	3 PK	
	98437 A104		18-8 SS SPRING WASHER FOR SCKT-HEAD CAP SCREW Shipped 73 PK today from another McMaster-Carr warehouse	11	73 PK	

RECEIVED
JUN 20 2006
METALEX MFG.
BY CD

WEIGHT
27

5 8854707-03 4
METALEX MANUFACTURING INC

MCMASTER-CARR
WAREHOUSE INSTRUCTIONS
LNS

PURCHASE ORDER
64698-RB-5725

CYCLE
044

PRT114

6/19/06 13:08 179 00011

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 8

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111301	REV **	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name LOWER RIGHT MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111300 / -18,-20,-22,-24,-26,-28,-30,-32		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
AL CAST TOOL & JIG PLATE 2.5" PLATE	A2		CONFORMS	MTX QC 16	
NOTE: CLEAR ANODIZE	A1				
128 0 / -0.1	A5		127.927 - 127.965	MTX QC 16	
60	B2		59.95 - 60.03	MTX QC 16	
⌀4.1 THRU ↧ ⌀6.35 ↧ 17 24 PLACES	B4		4.058 - 4.133 6.33 - 6.36 x 16.97 - 16.99	MTX QC 16	
0.04 A	A4		w/in .04	MTX QC 16	
189 0 / -0.1	A3		188.926 - 188.95	MTX QC 16	
154.6 ±0.1	A3		154.57 - 154.62	MTX QC 16	
77.3 ±0.1	A4		77.275 - 77.322	MTX QC 16	
12.7 ±0.1	A4		12.68 - 12.73	MTX QC 16	
10.8 DRILL ↧ 20.5 M12x1.25 ISO – H TAP ↧ 13.5 6 PLACES	A4		10.8 x 20.5 CONFORMS	MTX QC 16	
26 ±0.1	A4		25.97 - 26.025	MTX QC 16	
56 ±0.1	A4		55.85 - 56.2	MTX QC 16	
32 ±0.1	B4		31.98 - 32.04	MTX QC 16	
47 ±0.1	B4		46.97 - 47.4	MTX QC 16	
50.35 ±0.1	B3		50.32 - 50.38	MTX QC 16	
20 ±0.1	B3		19.98 - 20.037	MTX QC 16	
5	B4		5	MTX QC 16	
5	B4		5	MTX QC 16	
5 HIGH CHARACTER ENGRAVE ASSEMBLY NO. AND SERIAL NO.	B4		CONFORMS	MTX QC 16	

STAMP	INSPECTED BY	DATE	PAGE 1 OF 3	QTY ACC	QTY REJ
MTX QC 16	[signature]	9/12/06		8	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 8

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111301	REV **	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name LOWER RIGHT MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111300 / -18,-20,-22,-24,-26,-28,-30,-32		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
5 DRILL ↧ 15 M6x1 ISO – H TAP ↧ 12.7 8 PLACES	C4		CONFORMS	MTX QC 16	
2X 60 ±0.1	C3		59.97-60.03	MTX QC 16	
3X 15 ± 0.1	C3		14.972-15.015	MTX QC 16	
27 ± 0.1	C3		26.963-27.07	MTX QC 16	
10	B4		9.96-10.03	MTX QC 16	
15	B3		14.955-15.03	MTX QC 16	
4.5 ± 0.1	D4		4.475-4.57	MTX QC 16	
15 ± 0.1	D4		14.982-15.032	MTX QC 16	
12X 9.5	D3		9.46-9.55	MTX QC 16	
10X 15 ± 0.1= 150 ± 0.1	D3		14.99-15.036 = 149.96-150.038	MTX QC 16	
22X 45° X .2 FOUR SIDES	D3		45° X .2 FOUR SIDES	MTX QC 16	
29 DRILL ↧ THRU 8-32 UNC-2B TAP ↧ 10 12 PLACES	D4		CONFORMS	MTX QC 16	
2X 45° X .2 THREE SIDES	D2		45° X .2 THREE SIDES	MTX QC 16	
17	C4		17	MTX QC 16	
5 HIGH CHARACTER ENGRAVE MAGNET NO.	C4		CONFORMS	MTX QC 16	
10 X 15 ± 0.05 = 150 ± 0.05	C3		14.99-15.04 = 149.96-150.04	MTX QC 16	
15 ± 0.05	C4		14.936-15.04	MTX QC 16	
12 ± 0.05	C4		11.981-12.019	MTX QC 16	
4.2 0 / -0.1	D5		4.185-4.135	MTX QC 16	
45°	D6		45°	MTX QC 16	
(63.5)	D6		REFERENCE	MTX QC 16	

STAMP	INSPECTED BY	DATE	PAGE 2 OF 3	QTY ACC	QTY REJ
MTX QC 16	[signature]	9/12/06		8	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 8

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111301	REV **	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name LOWER RIGHT MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111300 / -18,-20,-22,-24,-26,-28,-30,-32		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
45° X 10	D6		45° X 10	MTX QC 16	
0.5	D6		.47 - .50	MTX QC 16	
2X 7.94	D6		7.904 - 7.976	MTX QC 16	
48 ± 0.1	C6		47.968-48.065	MTX QC 16	
5/16 DRILL ⇓ 21 3/8 -16 UNC-2B TAP ⇓ 17 2 PLACES	C6		CONFORMS	MTX QC 16	
-A-	C6		DATUM	MTX QC 16	
/ / 0.04	C6		W/in .04	MTX QC 16	
29 ±0.1	C6		28.95 - 29.06	MTX QC 16	
10 ± 0.1	C5		9.94 - 10.05	MTX QC 16	
3X 29	C5		28.98 - 29.052	MTX QC 16	
30 0 / -0.03	C6		30 - 29.972	MTX QC 16	
49 0 / -0.1	C6		48.96 - 48.987	MTX QC 16	
10 ± 0.1	C5		9.96 - 10.05	MTX QC 16	
27 0 / -0.1	C5		26.967-26.985	MTX QC 16	
67 +0.1 / 0	D5		67.005 - 67.02	MTX QC 16	
32	D5		31.928 - 32.05	MTX QC 16	
8 0 / -0.1	D5		7.93 - 8	MTX QC 16	
SECTION A-A					
24X 9.5 +0.05 / 0	D1		9.5 - 9.545	MTX QC 16	

STAMP	INSPECTED BY	DATE	PAGE 3 OF 3	QTY ACC	QTY REJ
MTX QC 16	[signature]	9/12/06		8	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 8

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111201	REV **	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER RIGHT MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111200 / -18,-20,-22,-24,-26,-28,-30,-32		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
AL CAST TOOL & JIG PLATE 2.5" PLATE	A2		Conforms	8	
NOTE: CLEAR ANODIZE	A1				
128 0 / -0.1	A3		127.920 - 127.955	8	
60	B3		59.975 - 60.025	8	
⌀4.1 THRU ⌀6.35 ↧ 17 24 PLACES	A3		4.056 - 4.140 6.304 - 6.355 X 16.954 - 16.9978	8	
⌭ 0.04 A	A3		W/in .04	8	
189 0 / -0.1	A4		188.923 - 188.954	8	
154.6 ±0.1	A4		154.58 - 154.64	8	
77.3 ±0.1	A4		77.27 - 77.35	8	
12.7 ±0.1	A3		12.667 - 12.723	8	
10.8 DRILL ↧ 20.500 M12x1.25 ISO – H TAP ↧ 13.5 6 PLACES	A5		Conforms	8	
26 ±0.1	A5		25.952 - 26.05	8	
56 ±0.1	A6		55.947 - 56.025	8	
32 ±0.1	B6		31.97 - 32.042	8	
47 ±0.1	B5		46.945 - 47.054	8	
50.35 ±0.1	B5		50.32 - 50.38	8	
20 ±0.1	B4		19.982 - 20.025	8	
5	B3		5	8	
5	B3		5	8	
5 HIGH CHARACTER ENGRAVE ASSEMBLY NO. AND SERIAL NO.	B3		Conforms	8	

STAMP	INSPECTED BY	DATE	PAGE 1 OF 3	QTY ACC	QTY REJ
MTX QC 6	[signature]	9/20/06		8	0

MX1010 (7/98)

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 6

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111201	REV **	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER RIGHT MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111200 / -18,-20,-22,-24,-26,-28,-30,-32		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
5 DRILL ⇓ 15 M6x1 ISO – H TAP ⇓ 12.7 8 PLACES	C3		CONFORMS	8	
2X 60 ±0.1	C4		59.97-60.04	8	
3X 15 ± 0.1	C5		14.96 - 15.042	8	
27 ± 0.1	C5		26.98-27.05	8	
10	B5		9.96 - 10.045	8	
15	B5		14.952-15.045	8	
4.5 ± 0.1	D3		4.462-4.530	8	
15 ± 0.1	D3		14.972-15.04	8	
12X 9.5	D5		9.43-9.572	8	
10X 15 ± 0.1= 150 ± 0.1	D4		14.94-15.07 = 149.952-150.07	8	
22X 45° X .2 FOUR SIDES	D4		45° X .2 FOUR SIDES	8	
29 DRILL ⇓ THRU 8-32 UNC-2B TAP ⇓ 10 12 PLACES	D3		CONFORMS	8	
2X 45° X .2 THREE SIDES	D5		45° X .2 THREE SIDES	8	
10	C3		10	8	
5 HIGH CHARACTER ENGRAVE MAGNET NO.	C3		CONFORMS	8	
10 X 15 ± 0.05 = 150 ± 0.05	C4		14.97-15.03 = 149.975-150.035	8	
15 ± 0.05	C3		14.972-15.022	8	
12 ± 0.05	C3		11.98-12.03	8	
4.2 0 / -0.1	D2		4.12 - 4.185	8	
45°	D2		45°	8	
(63.5)	D1		REFERENCE	8	

STAMP	INSPECTED BY	DATE	PAGE 2 OF 3	QTY ACC	QTY REJ
MTX QC 16	[signature]	9/20/06		8	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 8

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111201	REV **	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER RIGHT MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111200 / -18,-20,-22,-24,-26,-28,-30,-32		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
45° X 10	D1		45° X 10	8	
0.5	D1		.469 - .55	8	
2X 7.94	D1		7.90 - 7.98	8	
48 ± 0.1	D1		47.97 - 48.04	8	
5/16 DRILL ⇓ 21 3/8 -16 UNC-2B TAP ⇓ 17 2 PLACES	C1		Conforms	8	
-A-	C1		DATUM	8	
/ / 0.04	C1		W/in .04	8	
29 ±0.1	C1		28.955 - 29.042	8	
10 ± 0.1	C2		9.95 - 10.04	8	
3X 29	C2		28.962 - 29.03	8	
30 0 / -0.03	C1		29.97 - 30.0	8	
49 0 / -0.1	C1		48.967 - 49.0	8	
10 ± 0.1	C2		9.972 - 10.035	8	
27 0 / -0.1	C2		26.965 - 27.0	8	
67 +0.1 / 0	D2		67.02 - 67.07	8	
32	D2		31.94 - 32.03	8	
8 0 / -0.1	D2		7.92 - 7.985	8	
SECTION A-A					
24X 9.5 +0.05 / 0	D6		9.5 - 9.53	8	

STAMP	INSPECTED BY	DATE	PAGE 3 OF 3	QTY ACC	QTY REJ
MTX QC 16	[signature]	9/20/06		8	0

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006-5725	Qty 12

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111101	REV	P.O. Number 5410359
	Date Rec'd N/A	P.O. No. N/A	Part Name LOWER MIDDLE MAGNET STRUCTURE BASE		
At Oper.	Serial Numbers: 226-228-230-232-318 320-322-324-326-328-330-332		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
AL CAST TOOL & JIG PLATE 2.5" PLATE	A2		CONFORMS	MTX QC 16	
NOTE: 1. CLEAR ANODIZE	A1		CONFORMS	MTX QC 16	
NOTE 2. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 13 TO 79. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 80 TO 146. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 147 TO 213.	A2		CONFORMS ↓	MTX QC 16	
128 0 / -0.1	B1		127.92 - 128.00	MTX QC 16	
60	C2		59.97 - 60.03	MTX QC 16	
⌀4.1 THRU ⌀6.35 ↓ 17 132 PLACES	B2		4.1 THRU 6.35 X17 132 PLACES	MTX QC 16	
⌖ 0.04 A	B6		W/IN .04	MTX QC 16	
1005 0 / -0.1	B4		1004.93 - 1004.99	MTX QC 16	
979.6 ±0.1	B4		979.55 - 979.65	MTX QC 16	
132.55 ±0.1	B3		132.50 - 132.60	MTX QC 16	
6X 120 ±0.1	B4		119.96 - 120.04	MTX QC 16	
12.7 ±0.1	B2		12.66 - 12.76	MTX QC 16	
10.8 DRILL ↓ 20.5 M12x1.25 ISO – H TAP ↓ 13.5 18 PLACES	B6		10.8 X 20.5 18 PLC. CONFORMS	MTX QC 16	
26 ±0.1	B7		25.93 - 26.07	MTX QC 16	
56 ±0.1	B7		55.95 - 56.02	MTX QC 16	
32 ±0.1	C7		32.00 - 32.06	MTX QC 16	

STAMP	INSPECTED BY	DATE	PAGE 1 OF 4	QTY ACC	QTY REJ
MTX QC 16	JAMES M GIFFEN / B.H.	11/9/06		12	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006-5725	Qty 12

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name: N/A		Part No.: L143-111101	REV	P.O. Number: 5A10359
	Date Rec'd: N/A	P.O. No.: N/A	Part Name: LOWER MIDDLE MAGNET STRUCTURE BASE		
At Oper.	Serial Numbers: 226-228-230-232-318 320-322-324-326-328-330-332		Customer Name: ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
47 ±0.1	C7		46.92 - 47.05	MTX QC 16	
2X 6.35	C2		6.36 - 6.40	MTX QC 16	
75.5 ±0.1	C3		75.47 - 75.56	MTX QC 16	
20 ±0.1	C3		19.97 - 20.06	MTX QC 16	
909.5 ± 0.1	C4		909.46 - 909.59	MTX QC 16	
20 ±0.1	C6		19.92 - 20.05	MTX QC 16	
5	C6		5	MTX QC 16	
5	C6		5	MTX QC 16	
5 HIGH CHARACTER ENGRAVE ASSEMBLY NO. AND SERIAL NO.	C6		CONFORMS	MTX QC 16	
5 DRILL ⇓ 15 M6x1 ISO – H TAP ⇓ 12.7 38 PLACES	D4		5 X 15 DP CONFORMS	MTX QC 16	
16X 60 ±0.1	D2		59.94 - 60.05	MTX QC 16	
17X 15 ± 0.1	D2		14.91 - 15.01	MTX QC 16	
18 ± 0.1	D2		17.97 - 18.06	MTX QC 16	
10	D6		10	MTX QC 16	
15	C7		15	MTX QC 16	
10.5 ± 0.1	E2		10.45 - 10.55	MTX QC 16	
15 ± 0.1	E2		14.95 - 15.03	MTX QC 16	
66X 9.5	E2		9.45 - 9.55	MTX QC 16	
65X 15 ± 0.1 = 975 ± 0.1	E4		14.93 - 15.08 = 974.92 - 975	MTX QC 16	
132X 45° X .2 FOUR SIDES	E2		45 X .2	MTX QC 16	

STAMP	INSPECTED BY	DATE	PAGE 2 OF 4	QTY ACC	QTY REJ
MTX QC 16	JAMES M. GAFFEN / 64	11/9/06		12	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006-5725	Qty 12

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name: N/A		Part No.: L143-111101	REV	P.O. Number: 5A10359
	Date Rec'd: N/A	P.O. No.: N/A	Part Name: LOWER MIDDLE MAGNET STRUCTURE BASE		
At Oper.	Serial Numbers: 226-228-230-232-318-320 322-324-326-328-330-332		Customer Name: ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
29 DRILL ⇓ THRU 8-32 UNC-2B TAP ⇓ 10 67 PLACES	E5		CONFORMS	MTX QC 16	
2X 45° X .2 THREE SIDES	E2		45 x .2	MTX QC 16	
15.5	E3		15.5	MTX QC 16	
5 HIGH CHARACTER ENGRAVE MAGNET NO.	D6		CONFORMS	MTX QC 16	
65 X 15 ± 0.05 = 975 ± 0.05	D5		14.973 - 15.031 = 974.97 - 97.503	MTX QC 16	
15 ± 0.05	D2		14.97 - 15.03	MTX QC 16	
9.25	E6		9.25	MTX QC 16	
3 ± 0.05	D2		2.99 - 3.02	MTX QC 16	
4.2 0 / -0.1	E7		4.17 - 4.2	MTX QC 16	
45°	E8		45°	MTX QC 16	
(63.5)	E8		REFERENCE	MTX QC 16	
45° X 10	E8		45° x 10	MTX QC 16	
0.5	E8		.5	MTX QC 16	
2X 7.94	E8		7.94 2X	MTX QC 16	
48 ± 0.1	E8		47.984 - 48.059	MTX QC 16	
5/16 DRILL ⇓ 21 3/8 -16 UNC-2B TAP ⇓ 17 2 PLACES	D7		CONFORMS	MTX QC 16	
-A-	D8		DATUM	MTX QC 16	
/ / 0.04	D8		w/IN .04	MTX QC 16	
29 ±0.1	D8		28.96 - 29.03	MTX QC 16	
10 ± 0.1	D7		9.99 - 10.05	MTX QC 16	
3X 29	D7		29 3X	MTX QC 16	

STAMP	INSPECTED BY	DATE	PAGE 3 OF 4	QTY ACC	QTY REJ
MTX QC 16	JAMES M GIFFEN / GM	11/9/06		12	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006-5725	Qty 12

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name: N/A		Part No.: L143-111101	REV	P.O. Number: 5710359
	Date Rec'd: N/A	P.O. No.: N/A	Part Name: LOWER MIDDLE MAGNET STRUCTURE BASE		
At Oper.	Serial Numbers: 226-228-230-232-318-320 322-324-326-328-330-332		Customer Name: ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
30 0 / -0.03	D8		29.98 - 30.0	MTX QC 16	
49 0 / -0.1	D8		48.93 - 49.0	MTX QC 16	
10 ± 0.1	E8		9.95 - 10.07	MTX QC 16	
27 0 / -0.1	E7		26.95 - 26.99	MTX QC 16	
67 +0.1 / 0	E7		67.01 - 67.06	MTX QC 16	
32	E7		32	MTX QC 16	
8 0 / -0.1	E7		7.93 - 7.99	MTX QC 16	
SECTION A-A					
134X 9.5 +0.05 / 0	E1		9.50 - 9.54	MTX QC 16	

STAMP	INSPECTED BY	DATE	PAGE 4 OF 4	QTY ACC	QTY REJ
MTX QC 16	JAMES M. GIFFEN / G.H.	11/9/06		12	0

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006-5725	Qty 12

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111101	REV 02	P.O. Number 5A10357
	Date Rec'd N/A	P.O. No. N/A	Part Name LOWER MIDDLE MAGNET STRUCTURE BASE		
At Oper.	Serial Numbers: 118/120/122/124/126/128 130/132/218/220/222/224		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
AL CAST TOOL & JIG PLATE 2.5" PLATE	A2		CONFORMS	MTX QC 16	
NOTE: 1. CLEAR ANODIZE	A1		CONFORMS	MTX QC 16	
NOTE 2. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 13 TO 79. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 80 TO 146. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 147 TO 213.	A2		CONFORMS ↓	MTX QC 16	
128 0 / -0.1	B1		127.92 - 128.00	MTX QC 16	
60	C2		59.97 - 60.03	MTX QC 16	
⌀4.1 THRU ⌀6.35 ↓ 17 132 PLACES	B2		4.1 THRU 6.35 X17 132 PLACES	MTX QC 16	
[ ] 0.04 A	B6		W/IN .04	MTX QC 16	
1005 0 / -0.1	B4		1004.93 - 1004.99	MTX QC 16	
979.6 ±0.1	B4		979.55 - 979.65	MTX QC 16	
132.55 ±0.1	B3		132.50 - 132.60	MTX QC 16	
6X 120 ±0.1	B4		119.96 - 120.04	MTX QC 16	
12.7 ±0.1	B2		12.66 - 12.76	MTX QC 16	
10.8 DRILL ↓ 20.5 M12x1.25 ISO – H TAP ↓ 13.5 18 PLACES	B6		10.8 X 20.5 18 PLC. CONFORMS	MTX QC 16	
26 ±0.1	B7		25.93 - 26.07	MTX QC 16	
56 ±0.1	B7		55.95 - 56.02	MTX QC 16	
32 ±0.1	C7		32.00 - 32.06	MTX QC 16	

STAMP	INSPECTED BY	DATE	PAGE 1 OF 4	QTY ACC	QTY REJ
MTX QC 16	JAMES M. GIFFEN / G.H.	11/9/06		12	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 20060-5725	Qty 12

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111101	REV	P.O. Number 5710359
	Date Rec'd N/A	P.O. No. N/A	Part Name LOWER MIDDLE MAGNET STRUCTURE BASE		
At Oper.	Serial Numbers: 118-120-122-124-126-128 130-132-134-220-224		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
47 ±0.1	C7		46.92 - 47.05	MTX QC 16	
2X 6.35	C2		6.36 - 6.40	MTX QC 16	
75.5 ±0.1	C3		75.47 - 75.56	MTX QC 16	
20 ±0.1	C3		19.97 - 20.06	MTX QC 16	
909.5 ± 0.1	C4		909.46 - 909.59	MTX QC 16	
20 ±0.1	C6		19.92 - 20.05	MTX QC 16	
5	C6		5	MTX QC 16	
5	C6		5	MTX QC 16	
5 HIGH CHARACTER ENGRAVE ASSEMBLY NO. AND SERIAL NO.	C6		CONFORMS	MTX QC 16	
5 DRILL ↧ 15 M6x1 ISO – H TAP ↧ 12.7 38 PLACES	D4		5 X 15 DP CONFORMS	MTX QC 16	
16X 60 ±0.1	D2		59.94 - 60.05	MTX QC 16	
17X 15 ± 0.1	D2		14.91 - 15.01	MTX QC 16	
18 ± 0.1	D2		17.97 - 18.06	MTX QC 16	
10	D6		10	MTX QC 16	
15	C7		15	MTX QC 16	
10.5 ± 0.1	E2		10.45 - 10.55	MTX QC 16	
15 ± 0.1	E2		14.95 - 15.03	MTX QC 16	
66X 9.5	E2		9.45 - 9.55	MTX QC 16	
65X 15 ± 0.1 = 975 ± 0.1	E4		14.93 - 15.08 = 974.92 - 975.06	MTX QC 16	
132X 45° X .2 FOUR SIDES	E2		45 X .2	MTX QC 16	

STAMP	INSPECTED BY	DATE	PAGE 2 OF 4	QTY ACC	QTY REJ
MTX QC 16	JAMES M. GIFFEN /GH.	11/9/06		12	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006-5125	Qty 12

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name: N/A		Part No.: L143-111101	REV	P.O. Number: 5A10359
	Date Rec'd: N/A	P.O. No.: N/A	Part Name: LOWER MIDDLE MAGNET STRUCTURE BASE		
At Oper.	Serial Numbers: 118-120-122-124-126-128 130-132-218-220-222-224		Customer Name: ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
29 DRILL ⇓ THRU 8-32 UNC-2B TAP ⇓ 10 67 PLACES	E5		CONFORMS	MTX QC 16	
2X 45° X .2 THREE SIDES	E2		45 x .2	MTX QC 16	
15.5	E3		15.5	MTX QC 16	
5 HIGH CHARACTER ENGRAVE MAGNET NO.	D6		CONFORMS	MTX QC 16	
65 X 15 ± 0.05 = 975 ± 0.05	D5		14.973 - 15.031 = 974.97-97.503	MTX QC 16	
15 ± 0.05	D2		14.97 - 15.03	MTX QC 16	
9.25	E6		9.25	MTX QC 16	
3 ± 0.05	D2		2.99 - 3.02	MTX QC 16	
4.2 0 / -0.1	E7		4.17 - 4.2	MTX QC 16	
45°	E8		45°	MTX QC 16	
(63.5)	E8		REFERENCE	MTX QC 16	
45° X 10	E8		45° x 10	MTX QC 16	
0.5	E8		.5	MTX QC 16	
2X 7.94	E8		7.94 2X	MTX QC 16	
48 ± 0.1	E8		47.984 - 48.059	MTX QC 16	
5/16 DRILL ⇓ 21 3/8 -16 UNC-2B TAP ⇓ 17 2 PLACES	D7		CONFORMS	MTX QC 16	
-A-	D8		DATUM	MTX QC 16	
/ / 0.04	D8		w/IN .04	MTX QC 16	
29 ±0.1	D8		28.96 - 29.03	MTX QC 16	
10 ± 0.1	D7		9.99 - 10.05	MTX QC 16	
3X 29	D7		29 3X	MTX QC 16	

STAMP	INSPECTED BY	DATE	PAGE	QTY ACC	QTY REJ
MTX QC 16	JAMES M GIFFEN/GG	11/9/06	3 OF 4	12	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006-5725	Qty 12

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ■ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111101	REV	P.O. Number
	Date Rec'd N/A	P.O. No. N/A	Part Name LOWER MIDDLE MAGNET STRUCTURE BASE		
At Oper.	Serial Numbers: 118-120-122-124-126-128 130-132-218-220-222-224		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
30 0 / -0.03	D8		29.98 - 30.0	MTX QC 16	
49 0 / -0.1	D8		48.93 - 49.0	QC 16	
10 ± 0.1	E8		9.95 - 10.07	MTX QC 16	
27 0 / -0.1	E7		26.95 - 26.99	MTX QC 16	
67 +0.1 / 0	E7		67.01 - 67.06	MTX QC 16	
32	E7		32	MTX QC 16	
8 0 / -0.1	E7		7.93 - 7.99	MTX QC 16	
SECTION A-A					
134X 9.5 +0.05 / 0	E1		9.50 - 9.54	MTX QC 16	

STAMP	INSPECTED BY	DATE	PAGE 4 OF 4	QTY ACC	QTY REJ
MTX QC 16	JAMES M. GUFFEY	11/9/06		12	0

MX1910 (7/98)

METALEX Customized Machining and Parts	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd. Cincinnati, OH 45242 (513) 489-0587	Job No. 2006 – 5725	Qty 9

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111001	REV 02	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER MIDDLE MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111000 / -128 /-228/-328/-130/--230/-330/-132/-232/-332		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
AL CAST TOOL & JIG PLATE 2.5" PLATE	A2		ACCEPT	9	
NOTE: 1. CLEAR ANODIZE	A1			9	
NOTE 2. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 13 TO 79. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 80 TO 146. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 147 TO 213.	A2		ACCEPT ↓	9	
128 0 / -0.1	B2		127.94-128	9	
60	C3		59.95-60.03	9	
Ø4.1 THRU ⌴ Ø6.35 ↧ 17 132 PLACES	B3		4.015-4.1 6.310-6.38 X 16.94-17 DP.	9	
⊥ 0.04 A	B3		within .04	9	
1005 0 / -0.1	A3		1004.9-1005	9	
979.6 ±0.1	B5		979.54-979.63	9	
132.55 ±0.1	B6		132.50-132.62	9	
6X 120 ±0.1	B6		119.938-120.03	9	
12.7 ±0.1	B7		12.64-12.752	9	
10.8 DRILL ↧ 20.5 M12x1.25 ISO – H TAP ↧ 13.5 18 PLACES	A4		Conforms	9	
26 ±0.1	B7		25.94-26.02	9	
56 ±0.1	B8		55.97-56.052	9	
32 ±0.1	C8		31.955-32.048	9	

STAMP	INSPECTED BY	DATE	PAGE 1 OF 4	QTY ACC	QTY REJ
MTX OC 16	[signature]	10/18/06		9	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd. ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 6725	Qty 9

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111001	REV 02	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER MIDDLE MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111000 / -128 /-228/-328/-130/--230/-330/-132/-232/-332		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
47 ±0.1	C7		46.94 - 47.04	9	
2X 6.35	C7		6.33 - 6.39	9	
75.5 ±0.1	C6		75.45 - 75.54	9	
20 ±0.1	C6		19.93 - 20.04	9	
909.5 ± 0.1	C5		909.43 - 909.57	9	
20 ±0.1	C3		19.952 - 20.04	9	
5	C3		5	9	
5	C3		5	9	
5 HIGH CHARACTER ENGRAVE ASSEMBLY NO. AND SERIAL NO.	C3		CONFORMS	9	
5 DRILL ↧ 15 M6x1 ISO – H TAP ↧ 12.7 38 PLACES	D3		CONFORMS	9	
16X 60 ±0.1	D7		59.94 - 60.06	9	
17X 15 ± 0.1	D7		14.955 - 15.04	9	
18 ± 0.1	D7		17.96 - 18.025	9	
10	D7		9.94 - 10.06	9	
15	C7		14.948 - 15.04	9	
10.5 ± 0.1	E7		10.462 - 10.53	9	
15 ± 0.1	E7		14.98 - 15.045	9	
66X 9.5	E7		9.44 - 9.538	9	
65X 15 ± 0.1 = 975 ± 0.1	E5		14.96 - 15.048 = 974.97 - 975.05	9	
132X 45° X .2 FOUR SIDES	E7		45° X .2 FOUR SIDES	9	

STAMP	INSPECTED BY	DATE	PAGE 2 OF 4	QTY ACC	QTY REJ
MTX QC 16	[signature]	10/18/06		9	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 9

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111001	REV 02	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER MIDDLE MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111000 / -128 /-228/-328/-130/--230/-330/-132/-232/-332		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
29 DRILL ↧ THRU 8-32 UNC-2B TAP ↧ 10 67 PLACES	E5		CONFORMS	9	
2X 45° X .2 THREE SIDES	E7		45°X.2 THREE SIDES	9	
12	E3		12	9	
5 HIGH CHARACTER ENGRAVE MAGNET NO.	D3		CONFORMS	9	
65 X 15 ± 0.05 = 975 ± 0.05	D5		14.965 15.028 = 974.955-975.025	9	
15 ± 0.05	D7		14.972 - 15.04	9	
3 ± 0.05	D7		2.98 - 3.032	9	
4.2 0/-0.1	E2		4.1 - 4.2	9	
45°	E1		45°	9	
(63.5)	E1		REFERENCE	9	
45° X 10	E1		45°X10	9	
0.5	E1		.47 - .54	9	
2X 7.94	E1		7.92 - 7.975	9	
48 ± 0.1	E1		47.93 - 48.06	9	
5/16 DRILL ↧ 21 3/8 -16 UNC-2B TAP ↧ 17 2 PLACES	D1		CONFORMS	9	
-A-	D1		DATUM	9	
▱ 0.04	D1		W/in .04	9	
29 ±0.1	D1		28.94 - 29.06	9	
10 ± 0.1	D2		9.95 - 10.055	9	
3X 29	D2		28.952 - 29.055	9	
30 0/-0.03	D1		29.977 - 30	9	

STAMP	INSPECTED BY	DATE	PAGE	QTY ACC	QTY REJ
MTX QC 16	[signature]	10/18/06	3 OF 4	9	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 9

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111000	REV 02	P.O. Number 5A10359
	Date Rec'd N/A	P.C. No. N/A	Part Name UPPER MIDDLE MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111000 / -128 /-228/-328/-130/--230/-330/-132/-232/-332		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
49 0 / -0.1	D1		48.93- 49	9	
10 ± 0.1	D2		9.94- 10.052	9	
27 0 / -0.1	E2		26.92 - 26.98	9	
67 +0.1 / 0	E2		67.02- 67.08	9	
32	E2		31.945- 32.06	9	
8 0 / -0.1	E2		7.93-8.0	9	
SECTION A-A					
134X 9.5 +0.05 / 0	E8		9.5 -9.55	9	

STAMP	INSPECTED BY	DATE	PAGE4 OF4	QTY ACC	QTY REJ
MTX OC 16	[signature]	10/18/06		9	0

MX1010 (7/98)

Metalex Customized Machinery and Parts	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd	Job No. 2008 – 5725	Qty 9

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111001	REV 02	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER MIDDLE MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111000 / -122 /-222/-322/-124/--224/-324/-126/-226/-326		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
AL CAST TOOL & JIG PLATE 2.5" PLATE	A2		CONFORMS	9	
NOTE: 1. CLEAR ANODIZE	A1				
NOTE 2. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 13 TO 79. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 80 TO 146. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 147 TO 213.	A2		CONFORMS ↓	9	
128 0 / -0.1	B2		127.945 - 128	9	
60	C3		59.96 - 60.01	9	
Ø4.1 THRU ⌴Ø6.35 ↧ 17 132 PLACES	B3		4.013 - 4.1 6.319 - 6.37 x 16.941 - 17 DP.	9	
⊥ 0.04 A	B3		w/in .04	9	
1005 0 / -0.1	A3		1004.9 - 1005	9	
979.6 ±0.1	B5		979.54 - 979.63	9	
132.55 ±0.1	B6		132.51 - 132.61	9	
6X 120 ±0.1	B6		119.93 - 120.06	9	
12.7 ±0.1	B7		12.63 - 12.77	9	
10.8 DRILL ↧ 20.5 M12x1.25 ISO – H TAP ↧ 13.5 18 PLACES	A4		CONFORMS	9	
26 ±0.1	B7		25.96 - 26.03	9	
56 ±0.1	B8		55.94 - 56.06	9	
32 ±0.1	C8		31.94 - 32.03	9	

STAMP	INSPECTED BY	DATE	PAGE 1 OF 4	QTY ACC	QTY REJ
MTX QC 16	[signature]	10/18/06		9	Ø

MX1010 (7/98)

Metalex Contoured Machining and Parts	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd. ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2008 – 5726	Qty 9

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111001	REV 02	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER MIDDLE MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111000 / -122 /-222/-322/-124/--224/-324/-126/-226/-326		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
47 ±0.1	C7		46.93-47.07	9	
2X 6.35	C7		6.337-6.37	9	
75.5 ±0.1	C6		75.47-75.58	9	
20 ±0.1	C6		19.94-20.06	9	
909.5 ± 0.1	C5		909.46-909.53	9	
20 ±0.1	C3		19.96-20.07	9	
5	C3		5	9	
5	C3		5	9	
5 HIGH CHARACTER ENGRAVE ASSEMBLY NO. AND SERIAL NO.	C3		CONFORMS	9	
5 DRILL ↧ 15 M6x1 ISO – H TAP ↧ 12.7 38 PLACES	D3		CONFORMS	9	
16X 60 ±0.1	D7		59.93-60.072	9	
17X 15 ± 0.1	D7		14.935-15.057	9	
18 ± 0.1	D7		17.97-18.03	9	
10	D7		9.93-10.04	9	
15	C7		14.96-15.03	9	
10.5 ± 0.1	E7		10.47-10.58	9	
15 ± 0.1	E7		14.96-15.04	9	
66X 9.5	E7		9.43-9.57	9	
65X 15 ± 0.1= 975 ± 0.1	E5		14.94-15.03 = 974.95-975.04	9	
132X 45° X .2 FOUR SIDES	E7		45° X .2 FOUR SIDES	9	

STAMP	INSPECTED BY	DATE	PAGE 2 CF4	QTY ACC	QTY REJ
MTX QC 16	[signature]	10/18/06		9	∅

MX1010 (7/98)

METALEX Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5726	Qty 9

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111001	REV 02	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER MIDDLE MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111000 / -122 /-222/-322/-124/--224/-324/-126/-226/-326		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
29 DRILL ↧ THRU 8-32 UNC-2B TAP ↧ 10 67 PLACES	E5		CONFORMS	9	
2X 45° X .2 THREE SIDES	E7		45°X .2 THREE SIDES	9	
12	E3		12	9	
5 HIGH CHARACTER ENGRAVE MAGNET NO.	D3		CONFORMS	9	
65 X 15 ± 0.05 = 975 ± 0.05	D5		14.972-15.03 = 974.96-975.05	9	
15 ± 0.05	D7		14.98-15.012	9	
3 ± 0.05	D7		2.982-3.035	9	
4.2 0 / -0.1	E2		4.2-4.1	9	
45°	E1		45°	9	
(63.5)	E1		REFERENCE	9	
45° X 10	E1		45°X10	9	
0.5	E1		.47-.54	9	
2X 7.94	E1		7.912-7.98	9	
48 ± 0.1	E1		47.93-48.07	9	
5/16 DRILL ↧ 21 3/8 -16 UNC-2B TAP ↧ 17 2 PLACES	D1		CONFORMS	9	
-A-	D1		DATUM	9	
⏥ 0.04	D1		W/IN .04 (RESTRAINED)	9	
29 ±0.1	D1		28.93-29.075	9	
10 ± 0.1	D2		9.94-10.08	9	
3X 29	D2		28.93-29.06	9	
30 0 / -0.03	D1		29.97-30	9	

STAMP	INSPECTED BY	DATE	PAGE 3 OF 4	QTY ACC	QTY REJ
MTX QC 16	[signature]	10/18/06		9	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd. | Cincinnati, OH 45242 | (513) 489-0507	Job No. 2006 – 5725	Qty 9

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111001	REV 02	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER MIDDLE MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111000 / -122 /-222/-322/-124/--224/-324/-126/-226/-326		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
49 0 / -0.1	D1		48.95-49.0	9	
10 ± 0.1	D2		9.93-10.06	9	
27 0 / -0.1	E2		26.935-26.99	9	
67 +0.1 / 0	E2		67 - 67.07	9	
32	E2		31.94-32.04	9	
8 0 / -0.1	E2		7.9-8.0	9	
SECTION A-A					
134X 9.5 +0.05 / 0	E8		9.5-9.55	9	

STAMP	INSPECTED BY	DATE	PAGE 4 OF 4	QTY ACC	QTY REJ
MTX QC 16	[signature]	10/18/06		9	0

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd. ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006-5725	Qty 6

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111001	REV 02	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER MIDDLE MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111000 / -118 / -218 / -318 / -120 / -220 / -320		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
AL CAST TOOL & JIG PLATE 2.5" PLATE	A2		CONFORMS	6	
NOTE: 1. CLEAR ANODIZE	A1				
NOTE 2. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 13 TO 79. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 80 TO 146. ONE THIRD OF THE PARTS SHOULD HAVE NUMBERS FROM 147 TO 213.	A2		CONFORMS ↓	6	
128 0 / -0.1	B2		127.92-127.98	6	
60	C3		59.97-60.02	6	
Ø4.1 THRU ⌴ Ø6.35 ↧ 17 132 PLACES	B3		4.051 - 4.107 6.317 - 6.393 X 16.94 -17	6	
⊥ 0.04 A	B3		W/IN .04	6	
1005 0 / -0.1	A3		1004.93- 1004.99	6	
979.6 ±0.1	B5		979.57-979.63	6	
132.55 ±0.1	B6		132.49 - 132.572	6	
6X 120 ±0.1	B6		119.93- 120.047	6	
12.7 ±0.1	B7		12.638-12.73	6	
10.8 DRILL ↧ 20.5 M12x1.25 ISO - H TAP ↧ 13.5 18 PLACES	A4		CONFORMS	6	
26 ±0.1	B7		25.94-26.03	6	
56 ±0.1	B8		55.97 - 56.042	6	
32 ±0.1	C8		31.948- 32.032	6	

STAMP	INSPECTED BY	DATE	PAGE 1 OF 4	QTY ACC	QTY REJ
MTX QC 16	[signature]	10/19/06		6	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2008-5725	Qty 6

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111001	REV 02	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER MIDDLE MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111000 / -118 / -218 / -318 / -120 / -220 / -320		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
47 ±0.1	C7		46.93 - 47.02	6	
2X 6.35	C7		6.337 - 6.368	6	
75.5 ±0.1	C6		75.47 - 75.53	6	
20 ±0.1	C6		19.956 - 20.032	6	
909.5 ± 0.1	C5		909.48 - 909.55	6	
20 ±0.1	C3		19.96 - 20.04	6	
5	C3		5	6	
5	C3		5	6	
5 HIGH CHARACTER ENGRAVE ASSEMBLY NO. AND SERIAL NO.	C3		ACCEPT	6	
5 DRILL ↧ 15 M6x1 ISO – H TAP ↧ 12.7 32 PLACES	D3		ACCEPT	6	
16X 60 ±0.1	D7		59.96 - 60.03	6	
17X 15 ± 0.1	D7		14.94 - 15.04	6	
18 ± 0.1	D7		17.94 - 18.06	6	
10	D7		9.94 - 10.03	6	
15	C7		14.97 - 15.04	6	
10.5 ± 0.1	E7		10.48 - 10.53	6	
15 ± 0.1	E7		14.96 - 15.04	6	
66X 9.5	E7		9.47 - 9.58	6	
65X 15 ± 0.1 = 975 ± 0.1	E5		14.96 - 15.04 = 974.97 - 975.04	6	
132X 45° X .2 FOUR SIDES	E7		45° X .2 FOUR SIDES	6	

STAMP	INSPECTED BY	DATE	PAGE 2 OF 4	QTY ACC	QTY REJ
MTX QC 16	[signature]	10/19/06		6	Ø

MX1010 (7/98)

Metalex Customized Machining and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd. | Cincinnati, OH 45242 | (513) 489-0507	Job No. 2006-5725	Qty 6

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111001	REV 02	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER MIDDLE MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111000 / -118 / -218 / -318 / -120 / -220 / -320		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
29 DRILL ↧ THRU 8-32 UNC-2B TAP ↧ 10 67 PLACES	E5		CONFORMS	6	
2X 45° X .2 THREE SIDES	E7		45° X .2 THREE SIDES	6	
12	E3		12	6	
5 HIGH CHARACTER ENGRAVE MAGNET NO.	D3		CONFORMS	6	
65 X 15 ± 0.05 = 975 ± 0.05	D5		14.955-15.04 = 944.95-975.03	6	
15 ± 0.05	D7		14.96-15.03	6	
3 ± 0.05	D7		2.97-3.04	6	
4.2 0 / -0.1	E2		4.12-4.2	6	
45°	E1		45°	6	
(63.5)	E1		REFERENCE	6	
45° X 10	E1		45°X10	6	
0.5	E1		.47-.53	6	
2X 7.94	E1		7.92-7.98	6	
48 ± 0.1	E1		47.97-48.04	6	
5/16 DRILL ↧ 21 3/8 -16 UNC-2B TAP ↧ 17 2 PLACES	D1		CONFORMS	6	
-A-	D1		DATUM	6	
▱ 0.04	D1		W/in .04	6	
29 ±0.1	D1		28.93-29.04	6	
10 ± 0.1	D2		9.95-10.04	6	
3X 29	D2		28.97-29.02	6	
30 0 / -0.03	D1		29.97-30.0	6	

STAMP	INSPECTED BY	DATE	PAGE	QTY ACC	QTY REJ
MTX QC 16	[signature]	10/19/06	3 OF 4	6	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006-5725	Qty 6

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-111000	REV 02	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER MIDDLE MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-111000 / -118 / -218 / -318 / -120 / -220 / -320		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
49 0 / -0.1	D1		48.95-49	6	
10 ± 0.1	D2		9.97 - 10.04	6	
27 0 / -0.1	E2		26.93-27	6	
67 +0.1 / 0	E2		67-67.04	6	
32	E2		31.94-32.05	6	
8 0 / -0.1	E2		7.92-8	6	
SECTION A-A					
134X 9.5 +0.05 / 0	E8		9.52-9.55	6	

STAMP	INSPECTED BY	DATE	PAGE	QTY ACC	QTY REJ
MTX. OC 16	Bruce Hatland	10/19/06	4 OF 4	6	0

MX1010 (7/98)

Metalex Customized Machinery and Parts. CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 8

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-110901	REV **	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name LOWER LEFT MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-110900 / -18,-20,-22,-24,-26,-28,-30,-32		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
AL CAST TOOL & JIG PLATE 2.5" PLATE	A2		CONFORMS	8	
NOTE: CLEAR ANODIZE	A1				
128 0 / -0.1	A5		127.915 - 127.945	8	
60	B2		59.96 - 60.03	8	
⌀4.1 THRU ⌀6.35 ↧ 17 26 PLACES	A4		4.043 - 4.135 6.317 - 6.37 X 16.942 - 16.993	8	
0.04 A	A4		w/in .04	8	
195 0 / -0.1	A3		194.92 - 194.94	8	
165.6 ±0.1	A3		165.57 - 165.64	8	
82.8 ±0.1	A3		82.79 - 82.84	8	
12.7 ±0.1	A3		12.655 - 12.74	8	
10.8 DRILL ↧ 20.500 M12x1.25 ISO – H TAP ↧ 13.5 6 PLACES	A4		CONFORMS	8	
26 ±0.1	A4		25.94 - 26.055	8	
56 ±0.1	A5		55.97 - 56.04	8	
32 ±0.1	B5		31.96 - 32.04	8	
47 ±0.1	B4		46.97 - 47.06	8	
2X 6.35	B3		6.32 - 6.38	8	
126.9 ±0.1	B3		126.87 - 126.94	8	
20 ±0.1	B3		19.965 - 20.025	8	
5	B4		5	8	
5	B4		5	8	

STAMP	INSPECTED BY	DATE	PAGE 1 OF 3	QTY ACC	QTY REJ
MTX QC 16	[signature]	4/22/06		8	0

MX1010 (7/98)

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 8

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-110901	REV **	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name LOWER LEFT MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-110900 / -18,-20,-22,-24,-26,-26,-30,-32		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
5 HIGH CHARACTER ENGRAVE ASSEMBLY NO. AND SERIAL NO.	B4		CONFORMS	8	
5 DRILL ↓ 15 M6x1 ISO – H TAP ↓ 12.7 8 PLACES	C4		CONFORMS	8	
2X 60 ±0.1	C4		59.94-60.22	8	
3X 15 ± 0.1	C2		14.97-15.04	8	
33 ± 0.1	C2		32.935-33.052	8	
10	C4		9.955-10.042	8	
15	B4		14.948-15.030	8	
10.5 ± 0.1	D2		10.462-10.535	8	
15 ± 0.1	D2		14.938-15.035	8	
12X 9.5	D2		9.462-9.538	8	
10X 15 ± 0.1= 150 ± 0.1	D3		14.948-15.045 = 149.95-150.03	8	
22X 45° X .2 FOUR SIDES	D3		45° X .2 FOUR SIDES	8	
29 DRILL ↓ THRU 8-32 UNC-2B TAP ↓ 10 12 PLACES	D4		CONFORMS	8	
4X 45° X .2 THREE SIDES	D4		45° X .2 THREE SIDES	8	
15.5	C4		15.5	8	
5 HIGH CHARACTER ENGRAVE MAGNET NO.	C4		CONFORMS	8	
11 X 15 ± 0.05 = 165 ± 0.05	C3		14.96-15.03 = 164.97-165.03	8	
15 ± 0.05	C3		14.965-15.032	8	
3 ± 0.05	C3		2.97-3.04	8	
4.2 0 / -0.1	D5		4.12-4.20	8	

STAMP	INSPECTED BY	DATE	PAGE 2 OF 3	QTY ACC	QTY REJ
MTX QC 16	[signature]	9/22/06		8	Ø

MX1010 (7/98)

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 8

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-110901	REV **	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name LOWER LEFT MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-110900 / -18,-20,-22,-24,-26,-28,-30,-32		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
45°	D6		45°	8	
(63.5)	D6		REFERENCE	8	
45° X 10	D6		45° X 10	8	
0.5	D6		.46 - .53	8	
2X 7.94	D6		7.90 - 7.972	8	
48 ± 0.1	D6		47.94 - 48.05	8	
5/16 DRILL ↓ 21 3/8 -16 UNC-2B TAP ↓ 17 2 PLACES	C6		CONFORMS	8	
-A-	C6		DATUM	8	
/ / 0.04	C6		W/in .04	8	
29 ±0.1	C6		28.97 - 29.06	8	
10 ± 0.1	C5		9.94 - 10.05	8	
3X 29	C5		28.94 - 29.05	8	
30 0 / -0.03	C6		29.97 - 30.0	8	
49 0 / -0.1	B6		48.92 - 49.0	8	
10 ± 0.1	C5		9.93 - 10.07	8	
27 0 / -0.1	C5		26.94 - 27.0	8	
67 +0.1 / 0	D5		67 - 67.07	8	
32	D5		31.96 - 32.04	8	
8 0 / -0.1	D5		7.94 - 8.0	8	
SECTION A-A					
24X 9.5 +0.05 / 0	D1		9.5 - 9.53	8	

STAMP	INSPECTED BY	DATE	PAGE 3 OF 3	QTY ACC	QTY REJ.
MVWP OC 16	[signature]	9/22/06		8	0

MX1010 (7/98)

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 8

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-110801	REV **	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER LEFT MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-110800 / -18,-20,-22,-24,-26,-28,-30,-32		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
AL. CAST TOOL & JIG PLATE 2.5" PLATE	A2		CONFORMS	8	
NOTE: CLEAR ANODIZE	A1			.	
128 0 / -0.1	A3		127.927-127.945	8	
60	B3		59.957-60.025	8	
⌀4.1 THRU ⌴ ⌀6.35 ↧ 17 26 PLACES	A3		4.05 - 4.122 6.29 - 6.396 x 16.942-16.998 DP	8	
⌴ 0.04 A	A3		Win .04	8	
195 0 / -0.1	A4		194.93 - 194.99	8	
165.6 ±0.1	A4		165.59 - 165.67	8	
82.8 ±0.1	A4		82.77 - 82.83	8	
12.7 ±0.1	A5		12.682 - 12.735	8	
10.8 DRILL ↧ 20.500 M12x1.25 ISO – H TAP ↧ 13.5 6 PLACES	A5		Conforms	8	
26 ±0.1	A5		25.955-26.042	8	
56 ±0.1	A6		55.972-56.025	8	
32 ±0.1	B6		31.948- 32.032	8	
47 ±0.1	B5		46.985 - 47.032	8	
2X 6.35	B5		6.33 - 6.37	8	
126.9 ±0.1	B4		126.87 - 126.93	8	
20 ±0.08	B3		19.98 - 20.045	8	
5	B3		5	8	
5	B3		5	8	

STAMP	INSPECTED BY	DATE	PAGE 1 OF 3	QTY ACC	QTY REJ
MTX QC 16	[signature]	10/2/06		8	0

MX1010 (7/98)

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 8

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-110801	REV **	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER LEFT MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-110800 / -18,-20,-22,-24,-26,-28,-30,-32		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
5 HIGH CHARACTER ENGRAVE ASSEMBLY NO. AND SERIAL NO.	B3		CONFORMS	8	
5 DRILL ⇓ 15 M6x1 ISO – H TAP ⇓ 12.7 8 PLACES	C3		CONFORMS	8	
2X 60 ±0.1	C4		59.975-60.042	8	
3X 15 ± 0.1	C5		14.96 - 15.03	8	
33 ± 0.1	C5		32.955-33.04	8	
10	B5		9.954- 10.032	8	
15	B5		14.97 - 15.028	8	
10.5 ± 0.1	D5		10.478-10.535	8	
15 ± 0.1	D5		14.98-15.03	8	
12X 9.5	D5		9.47-9.53	8	
10X 15 ± 0.1= 150 ± 0.1	D4		14.93-15.05 = 149.94-150.04	8	
22X 45° X .2 FOUR SIDES	D4		45° X .2 FOUR SIDES	8	
29 DRILL ⇓ THRU 8-32 UNC-2B TAP ⇓ 10 12 PLACES	D3		CONFORMS	8	
4X 45° X .2 THREE SIDES	D3		45° X .2 THREE SIDES	8	
12	C3		12	8	
5 HIGH CHARACTER ENGRAVE MAGNET NO.	C3		CONFORMS	8	
11 X 15 ± 0.05 = 165 ± 0.05	C4		14.97-15.03 = 164.965-165.032	8	
15 ± 0.05	C5		14.98- 15.025	8	
3 ± 0.05	C5		2.98- 3.03	8	
4.2 0 / -0.1	D2		4.13- 4.2	8	

STAMP	INSPECTED BY	DATE	PAGE 2 OF 3	QTY ACC	QTY REJ
MTX OC 16	[signature]	10/2/06		8	0

MX1010 (7/98)

Metalex Customized Machinery and Parts — CERTIFIED ISO 9001 QUALITY MANAGEMENT	INSPECTION PLANNING & REPORT FORM Metalex Mfg. 5750 Cornell Rd ! Cincinnati, OH 45242 ! (513) 489-0507	Job No. 2006 – 5725	Qty 8

Inspection Origin	Vendor (Sub-Tier Source) Identification		Customer Identification		
☐ Receiving ☐ In-Process ☒ Final ☐ Rework/Repair ☐ First Article	Vendor Name N/A		Part No. L143-110801	REV **	P.O. Number 5A10359
	Date Rec'd N/A	P.O. No. N/A	Part Name UPPER LEFT MAGNET STRUCTURE BASE		
At Oper. N/A	Serial Numbers: L143-110800 / -18,-20,-22,-24,-26,-28,-30,-32		Customer Name ARGONNE		

SPECIFICATION	B/P ZONE	INSPECTION METHOD / GAGE NO.	ACTUAL DIMENSION / GAGE VERIFICATION (Range of Readings or Accept Status)	QTY ACC	QTY REJ
45°	D2		45°	8	
(63.5)	D1		REFERENCE	8	
45° X 10	D1		45°X10	8	
0.5	D1		.477-.528	8	
2X 7.94	D1		7.92 - 7.98	8	
48 ± 0.1	D1		47.94-48.06	8	
5/16 DRILL ↓ 21 3/8 -16 UNC-2B TAP ↓ 17 2 PLACES	C1		Conforms	8	
-A-	C1		DATUM	8	
⊥ / 0.04	C1		Min .04	8	
29 ±0.1	C1		28.96-29.07	8	
10 ± 0.1	C2		9.94-10.06	8	
3X 29	C2		28.955-29.048	8	
30 0 / -0.03	C1		29.977-30.0	8	
49 0 / -0.1	C1		48.93-49.0	8	
10 ± 0.1	C2		9.94-10.07	8	
27 0 / -0.1	C2		26.94-27.0	8	
67 +0.1 / 0	D2		67.0-67.07	8	
32	D2		31.95-32.04	8	
8 0 / -0.1	D2		7.93-8.0	8	
SECTION A-A					
24X 9.5 +0.05 / 0	D6		9.5 -9.55	8	

STAMP	INSPECTED BY	DATE	PAGE 3 OF 3	QTY ACC	QTY REJ
MTX QC 16	[signature]	10/2/06		8	0

MX1010 (7/98)

Job# 2006- 5725 Customer Argonne Nat'l Laboratory

Drawing/part# L143-110114 Dwg.rev.# 01
Serial# _____ Rtg.rev 0by: _____

Router No.	Job No	Drawing/Part No
3036588	2006 5725	L143-110114

Operator

Qty to Run Comp/Date Initials

********** ROUTING OPERATIONS **********

20 FINISH MACHINE (Continued)

2) Finish machine 8mm slot and 45° angles

3) Finish machine (7) 7mm diameter holes holding .006" position.

Date & Initial ==> 11/5/06 JK

Accepted 16 Rejected —

Comments: 676645

DEBURR AS FOLLOWS: 16 To Run

30 2400 DEBURR DEPT.

1) Deburr with a maximum break edge of .010".

2) Mach. peen part number in area furthest away from 8mm slot.

Date & Initial ==> 11-26-06 JB

Accepted 16 Rejected _____

Comments: _____

FINAL DIMENSIONAL INSPECTION 16 To Run

40 8006 QUALITY CONTROL

1) Visually verify all drawing features/requirements have been met and operators have complied with all requirements of MX1035b form. Inspector shall sign-off MX1035b form as evidence of verification.

Date & Initial ==> 12-4-06 S D

Accepted 16 Rejected —

Metalex PO# 67645

Certificate of Conformance

Customer: Metalex Mfg. Inc.
Address: 5750 Cornell Rd.
Cincinnati, Oh. 45242
Attention: Quality Engineering Dept.

METALEX
QA. DEPT.
ACCEPTED
DATE 11/15/06
BY KKB

Item	Qty.	Part Number	Rev.	Part Name	Job #
1	24	L143-110114	01	SCREEN	6396 5725

Moonlight Machining (Supplier Name) certifies that all materials, processes, etc. furnished to Metalex, for the purchase order number stated above, comply with all conditions stated in the P.O. for the items shown.

Signed/Dated: [signature] 11-15-06
Supplier Quality Rep.

cc: Hardcopy P.O. Books
MX4012 (5/95)

Job# 2006- 5725 Customer Argonne Nat'l Laboratory

Drawing/part# L143-110110 Dwg. rev.# 02V

Serial# Rtg. rev.# 3by:ROB SCHUERMANN 6/16/06

Router No. 3036584 Job No 2006 5725 Drawing/Part No L143-110110

********** ROUTING OPERATIONS ********** Qty To Run Comp/Date Operator Initials

50 8006 FINAL DIMENSIONAL INSPECTION 80 To Run

QUALITY CONTROL

1) Visually verify all drawing features/requirements have been met and operators have complied with all requirements of MX1035b form. Inspector shall sign-off MX1035b form as evidence of verification.

2) Bag parts and tag bag to identify.

Date & Initial ==> 12/4/06 S.D

Accepted 80 Rejected

Comments:

60 9095 CLEAR ANODIZE PER AMS 2471 80 To Run

ANOTEX (ANODIZE) & (HARD ANODIZE)

1) Material is 6061-T651 Aluminum

2) Clear Anodize Finish per AMS 2471, Rev.___

3) Wrap to protect and keep clean.

4) Add standard CAT.2 quality notes to purchase order.

5) Upon return, "SUBCONTRACTING" to send original cert's to QA for acceptance. (THIS NOTE DOES NOT APPLY TO SUPPLIER'S P.O.)

Date & Initial ==> _____ _____

Accepted _____ Rejected _____

Comments:

Drawing/part# L143-110109 Dwg. rev.# 02V
Serial# Rtg. Rev.# 4 by:DAVE SMITH 7/10/06

Router No.	Job No	Drawing/Part No
3069142	20066396	L143-110109

Qty To Run Comp/Date Operator Initials

********** Routing Operations **********

1) FINISH MACHINE .630" WDITH HOLDING FINISH POSITION OF HOLES.

2) FINISH ARBOR MILL .06" SLOT.
   ** MINIMIZE BURR BY USING THE FOLLOWING INSTRUCTIONS **
   3.000"DIA. X .062 WIDE CUTTER
   SPEED: 770 RPM
   FEED: 9 IN. PER MIN.
   ALL IN ONE CUT. CLIMB MILL SAW FOR MIN. BURR

Date & Initial ==> 12-6 06 DP

Accepted 40 Rejected 0

Comments: 8 extra

00040 DEBURR AS FOLLOWS: 40 To Run

2400 DEBURR AND HANDWORK

1) Deburr with a maximum break edge of .010".

2) Mach. peen part number on side of part. Stone flush.

3) Bag parts and tag bag to identify.

Date & Initial ==> 12-8-06 [illegible]

Accepted 40 Rejected 0

Comments:

00050 FINAL DIMENSIONAL INSPECTION 40 To Run

8006 QUALITY CONTROL

1) Visually verify all drawing features/requirements have been met and operators have complied with all requirements of MX1035b form. Inspector shall sign-off MX1035b form as evidence of verification.

2) Bag parts and tag bag to identify.

50 FINAL DIMENSIONAL INSPECTION (Continued)

Drawing/part# L143-110109 Dwg. rev.# 02V
Serial# Rtg. Rev.# 4 by:DAVE SMITH 7/10/06

Router No.	Job No	Drawing/Part No
3069142	20066396	L143-110109

Qty To Run Comp/Date Operator Initials

********** Routing Operations **********

Date & Initial ==> 12-14-06

Accepted 40 Rejected —

+8

Comments:

00060 CLEAR ANODIZE PER AMS 2471 40 To Run

9095 ANOTEX (ANODIZE) & (HARD ANODIZE)

1) Material is 6061-T651 Aluminum

2) Clear Anodize Finish per AMS 2471, Rev.___

3) Wrap to protect and keep clean.

4) Add standard CAT.2 quality notes to purchase order.

5) Upon return, "SUBCONTRACTING" to send original cert's to QA for acceptance. (THIS NOTE DOES NOT APPLY TO SUPPLIER'S P.O.)

Date & Initial ==> _____ _____

Accepted _____ Rejected _____

Comments:

00070 STAGE FOR ASSEMBLY 40 To Run

8035 MOVING

Date & Initial ==> _____ _____

Accepted _____ Rejected _____

Comments:

Job# 2006- 5725 Customer Argonne Nat'l Laboratory

Drawing/part# L143-110104 Dwg.rev.# **
Serial# _____ Rtg.rev Oby: _____

Router No.	Job No	Drawing/Part No
3036581	2006 5725	L143-110104

Operator

Qty to Run Comp/Date Initials

********** ROUTING OPERATIONS **********

FINAL DIMENSIONAL INSPECTION 3600 To Run

50 8006 QUALITY CONTROL

1) Visually verify all drawing features/requirements have been met and operators have complied with all requirements of MX1035b form. Inspector shall sign-off MX1035b form as evidence of verification.

2) Carefully bag and tag parts in manageable size lots/bags.

Date & Initial ==> 12-14-06 TB

Accepted 3600 Rejected _____

Comments: _____

STAGE FOR ASSEMBLY 3600 To Run

60 8035 MOVING

Date & Initial ==> _____ _____

Accepted _____ Rejected _____

Comments: _____