

# CURRENT INDUSTRIAL REPORTS SERIES

## 2007 MA334D — DEFENSE, NAVIGATIONAL, AND AEROSPACE ELECTRONICS DEFINITIONS AND SPECIAL INSTRUCTIONS

### 1. Scope of survey

This survey covers manufacturers of defense, navigational, and aerospace electronics and related products.

### 2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate report form for each location. If you have not received a separate form for each of your establishments, please call the contact shown on the report form or write to the U.S. Census Bureau for additional forms.

#### a. Value of shipments

The figures on value of shipments should include the physical shipments of all products sold, transferred to other establishments within your company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges and returns. Shipments to your own branches should be assigned the same value as comparable sales to unaffiliated customers, i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture should not be included in shipments.

Value of shipments should be reported in thousands of dollars.

#### Include:

- (1) All shipments, whether for domestic use or for export.
- (2) Shipments on consignments as well as for sale.

- (3) Interplant transfers in which products are shipped from one plant of your company to another plant or sales branch.

- (4) Private brand units as well as your own company brand units.

#### Exclude:

- (1) Products manufactured for you by others

- (2) Products bought and resold without further manufacture by your company

- (3) Imports which are reshipped without further domestic manufacture

#### b. Research and development

Dollar shipments should reflect income from development, design, and engineering services performed by the reporting plant in connection with the manufacture of the products shipped, whether included in a single production contract, or contracted for separately, but intended as preparation for the manufacture of the specific products.

#### c. Columnar structure of report

When entering your figures on the report form, please be sure to report the information in the correct column as follows:

*Column 1* — Value (report shipments in thousands of dollars. Example: \$1,000,000, report as \$1,000)

### 3. Definitions

The product detail for this survey, as shown in the Reference List, is defined according to standard nomenclature for this survey.

# CURRENT INDUSTRIAL REPORTS SERIES

MA334D

## DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

### 4. Comparability

Data reported in this survey should correspond to data reported in the Economic Census - Manufacturing Sector form. The sum of values for item codes shown in column (a) should correspond to dollar values reported under product codes indicated in column (b) below.

Current Industrial Reports (Form MA334D) Item codes (a)	Economic Census - Manufacturing Sector Product codes (b)
4106 through 4162	3345111100
4202 through 4390	3345113100
6101 through 6119	3345192100
7177	3333197100
8379 through 8398	3333141100

# CURRENT INDUSTRIAL REPORTS SERIES

## REFERENCE LIST

FORM <b>MA334D</b>		<b>DEFENSE, NAVIGATIONAL, AND AEROSPACE ELECTRONICS</b>
Product code	Item code	Item description
<b>AERONAUTICAL, NAUTICAL, AND NAVIGATIONAL INSTRUMENTS, EXCLUDING AIRCRAFT ENGINE INSTRUMENTS</b>		
3345111106	4106	Compasses, altimeters, and airspeed indicators
3345111111	4114	Acceleration indicators, rate-of-climb and angle-of-attack indicators, and artificial horizon flight instruments
3345111115	4122	Other aerospace navigational instruments
3345111226	4130	Gyroscopes, sold separately
3345111232	4138	Airframe equipment instruments
3345111233	4146	Other aerospace flight instruments
3345111335	4154	Nautical instruments
3345111437	4162	Parts and components
<b>3345111100</b>	<b>4199</b>	<b>Total aeronautical, nautical, and navigational instruments, excluding aircraft engine instruments (sum of item codes 4106—4162)</b>
<b>SEARCH, DETECTION, NAVIGATION AND GUIDANCE SYSTEMS AND EQUIPMENT</b>		
3345113101	4202	Light reconnaissance and surveillance electronic systems and equipment
3345113103	4204	IFF equipment
3345113207	4210	Search, detection, and acquisition radar systems and equipment: airborne and missile/space
3345113212	4217	Other search, detection, and acquisition radar systems and equipment
3345113318	4231	Tracking radar systems and equipment (fire control, bombing, bombing navigational radar aircraft and missile tracking radar, etc.)
3345113325	4237	Instrumentation radar systems and equipment (altimeters, highway speed control radar, missile and space satellite tracing range radar, GCA and other precision approach radar, etc.)
3345113426	4251	Sonar search, detection, tracing, and communications systems and equipment, guidance, including ASM (sonar telephone, communication equipment, depth finding, fire control, fusing, hydrophones, mapping, sonabuys, navigation, sonar fish finders, sonar range instrumentation, etc.)
3345113428	4257	Electronic checkout and monitoring equipment for radar, sonar search, detection, and communication systems and equipment
3345113433	4258	Specialized command and control equipment
3345113436	4267	Other search, detection, identification, and tracking systems and equipment
3345113437	4272	Countermeasures equipment: jamming, communications and radar
3345113441	4278	Other countermeasures equipment
3345113443	4282	Specialized electronic and communications intelligence equipment
3345113545	4312	Missile borne and space vehicle guidance systems
3345113547	4322	Nonmissile and space vehicle guidance systems

# CURRENT INDUSTRIAL REPORTS SERIES

## REFERENCE LIST

FORM MA334D		
Product code	Item code	Item description
<b>SEARCH, DETECTION, NAVIGATION, AND GUIDANCE SYSTEMS AND EQUIPMENT—Continued</b>		
3345113549	4332	Electronic checkout, launching, and other missile and space support systems
3345113651	4342	Airborne navigational systems: radio navigation receivers and displays
3345113653	4344	Airborne navigational systems: airborne integrated data systems/flight recorders
3345113661	4362	Airborne navigational systems: inertial navigation systems
3345113663	4364	Airborne navigational systems: proximity warning/collision avoidance equipment
3345113667	4368	Other airborne navigational systems
3345113669	4372	Surface (ship and ground) navigational systems
3345113673	4382	Electronic checkout, monitoring, evaluation, and other electronic support equipment for navigational systems and equipment
3345113681	4390	All other search and detection navigation and guidance systems and equipment not specified
<b>3345113100</b>	4399	<b>Total search, detection, navigation and guidance systems and equipment (sum of item codes 4202—4390)</b>
<b>AIRCRAFT ENGINE INSTRUMENTS, EXCLUDING FLIGHT</b>		
3345192101	6101	Temperature sensors, transmitters, and displays
3345192104	6104	Pressure ratio and vacuum sensors, transmitters, controls, and displays
3345192114	6117	All other aircraft engine instruments
3345192115	6119	Parts and components
<b>3345192100</b>	6129	<b>Total aircraft engine instruments (sum of item codes 6101—6119)</b>
<b>3333197100</b>	7177	<b>ELECTRONIC TRAINERS AND SIMULATORS</b> <b>Electronic trainers and simulators, teaching machines, and teaching aids, including kits</b>
<b>SIGHTING, TRACKING, AND FIRE CONTROL EQUIPMENT, OPTICAL-TYPE</b>		
3333141101	8379	Made from lenses, prism, etc., produced in this plant
3333141103	8389	Made from purchased lenses, prisms, etc.
3333141104	8390	Sighting and tracking laser systems
3333141106	8395	Night visions goggles and equipment
3333141109	8398	Parts and accessories
<b>3333141100</b>	8399	<b>Total sighting, tracking, and fire control equipment (sum of item codes 8379—8398)</b>
<b>SELECTED NONMANUFACTURING REVENUES</b>		
9999998900	9945	Resales—Sales of products bought and sold without further manufacture, processing, or assembly
9997372000	9960	Software services
9997377230	9965	Systems integration revenues, including configuration, installation and site preparation, and custom programming
9999998041	9970	Research and development, testing and evaluation of systems and components

**DUE DATE:** 30 Days After Receipt

OMB No. 0607-0476: Approval expires 09-30-08

**REPORT FOR CALENDAR YR 2007**  
 U.S. DEPARTMENT OF COMMERCE  
 BUREAU OF THE CENSUS  
 FORM **MA334D**  
**CURRENT INDUSTRIAL REPORTS**  
 DEFENSE, NAVIGATIONAL, AND  
 AEROSPACE ELECTRONICS  
 Annual Report

The 8-digit number that appears above indicates that the Office of Management and Budget has approved this survey. If that number is not displayed, do not complete this form. **YOUR RESPONSE IS REQUIRED BY LAW** (Title 13, United States Code). By section 9 of the same law, **YOUR REPORT IS CONFIDENTIAL**. It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

**In correspondence pertaining to this establishment's report, please refer to the 11 digit Identification Number (ID) 01234567890**



ID 01234567890 576 00 0701 17 MA334D  
 00 2007A1 MA334D

SEQ: 1

ATTN: Controller  
 TEST FORM

SUITLAND MD 20850

(Please correct any error in name and address including ZIP Code)

If you have questions regarding this report form please contact:  
 JOSEPH SHINN EXT 2  
 1(800)201-4647

**EMPLOYER IDENTIFICATION (EI) NUMBER.** Identification number used on Employer's Quarterly Federal Tax Return (U.S. Treasury Department Form 941) **(Enter if not shown, correct if wrong.)**

**CONTACT PERSON** (Enter information if not shown, correct if wrong.)

Name ATTN: Controller

Area code Number

Fax number

Enter or correct email address: [ ]

**PART I FOR EACH ITEM LISTED BELOW, ENTER FIGURES OR "0" for current period. (The figures shown in the shaded areas were reported for the previous two periods.) PLEASE REFER TO THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT FORM.**

Item (Product code - Description)	Item code	Report period	Value {\$1000}	{Do not report imported or purchased products on which your company performed no further fabrication or significant assembly.}					
				1	2	3	4	5	6
If BOOK FIGURES are not readily available, reasonable estimates are acceptable.									
AERONAUTICAL, NAUTICAL, AND NAVIGATIONAL INSTRUMENTS, EXCLUDING AIRCRAFT ENGINE INSTRUMENTS									
3345111106-Compasses, altimeters, and airspeed indicators	4106	2007							
		2006							
		2005							
3345111111-Acceleration indicators, rate-of-climb and angle-of-attack indicators {see manual}	4114	2007							
		2006							
		2005							

\* Figures not received when form was prepared. PLEASE ENTER, if not previously submitted.

**CURRENT INDUSTRIAL REPORTS - Continued**

01234567890

2

**PART I - Continued**

Item (Product code - Description)	Item code	Report period	Value					
			1	2	3	4	5	6
3345111115-Other aerospace navigational instruments	4122	2007						
		2006						
		2005						
3345111226-Gyroscopes sold separately	4130	2007						
		2006						
		2005						
3345111232-Airframe equipment instruments	4138	2007						
		2006						
		2005						
3345111233-Other aerospace flight instruments	4146	2007						
		2006						
		2005						
3345111335-Nautical instruments	4154	2007						
		2006						
		2005						
3345111437-Parts & components	4162	2007						
		2006						
		2005						
3345111100-Total aeronautical, nautical, & navigational instru., ex. aircraft engine instru. {sum of 4106-4162}	4199	2007						
		2006						
		2005						
SEARCH, DETECTION, NAVIGATION & GUIDANCE SYSTEMS AND EQUIPMENT								
3345113101-Light reconnaissance and surveillance electronic systems and equipment	4202	2007						
		2006						
		2005						
3345113103-IFF equipment	4204	2007						
		2006						
		2005						

**CURRENT INDUSTRIAL REPORTS - Continued**

01234567890

3

**PART I - Continued**

Item (Product code - Description)	Item code	Report period	Value					
			{ \$1000 }					
3345113207-Search, detection, & acquisition radar systems & equipment: airborne and missile/space	4210	2007	1	2	3	4	5	6
		2006						
		2005						
3345113212-Other search, detection, and acquisition radar systems and equipment	4217	2007						
		2006						
		2005						
3345113318-Tracking radar systems and equipment {see manual}	4231	2007						
		2006						
		2005						
3345113325-Instrumentation radar systems and equipment {see manual}	4237	2007						
		2006						
		2005						
3345113426-Sonar search, detection, tracing, and communications systems and equipment {see manual}	4251	2007						
		2006						
		2005						
3345113428-Electronic check-out & monitoring equip, for radar, sonar search, detection, & comm. sys. & equip.	4257	2007						
		2006						
		2005						
3345113433-Specialized command & control equipment	4258	2007						
		2006						
		2005						
3345113436-Other search, detection, identification, and tracking systems and equipment	4267	2007						
		2006						
		2005						
3345113437-Countermeasures equipment: jamming, communications and radar	4272	2007						
		2006						
		2005						
3345113441-Countermeasures equipment: other	4278	2007						
		2006						
		2005						

{Do not report imported or purchased products on which your company performed no further fabrication or significant assembly.}

**CURRENT INDUSTRIAL REPORTS - Continued**

01234567890

4

**PART I - Continued**

Item (Product code - Description)	Item code	Report period	Value					
			{ \$1000 }					
3345113443-Specialized electronic and communications intelligence equipment	4282	2007	1	2	3	4	5	6
		2006						
		2005						
3345113545-Missile borne and space vehicle guidance systems	4312	2007						
		2006						
		2005						
3345113547-Nonmissile & space vehicle guidance systems	4322	2007						
		2006						
		2005						
3345113549-Electronic check-out, launching, and other missile and space support systems	4332	2007						
		2006						
		2005						
3345113651-Airborne navigational systems: radio navigation receivers and displays	4342	2007						
		2006						
		2005						
3345113653-Airborne navigational systems: airborne integrated data systems/ flight recorders	4344	2007						
		2006						
		2005						
3345113661-Airborne navigational systems: inertial navigation systems	4362	2007						
		2006						
		2005						
3345113663-Airborne navigational systems: proximity warning/collision avoidance equipment	4364	2007						
		2006						
		2005						
3345113667-Other airborne navigational systems	4368	2007						
		2006						
		2005						
3345113669-Surface {ship and ground} navigational systems	4372	2007						
		2006						
		2005						



**CURRENT INDUSTRIAL REPORTS - Continued**

01234567890

5

**PART I - Continued**

Item (Product code - Description)	Item code	Report period	Value						
			{ \$1000 }	1	2	3	4	5	6
3345113673-Electronic check-out, monitoring, eval., & other elec. support equip. for naviga. systems & equip.	4382	2007							
		2006							
		2005							
3345113681-All other search & detection navigation and guidance systems & equip. not specified	4390	2007							
		2006							
		2005							
3345113100-Total search & detection, navigation & guidance systems & equipment {sum of items 4202-4390}	4399	2007							
		2006							
		2005							
AIRCRAFT ENGINE INSTRUMENTS, EXCLUDING FLIGHT									
3345192101-Temperature sensors, transmitters, and displays	6101	2007							
		2006							
		2005							
3345192104-Pressure ratio and vacuum sensors, transmitters, controls, and displays	6104	2007							
		2006							
		2005							
3345192114-All other aircraft engine instruments	6117	2007							
		2006							
		2005							
3345192115-Parts & components	6119	2007							
		2006							
		2005							
3345192100-Total aircraft engine instruments {sum of items 6101-6119}	6129	2007							
		2006							
		2005							
ELECTRONIC TRAINERS AND SIMULATORS									

**CURRENT INDUSTRIAL REPORTS - Continued**

01234567890

6

**PART I - Continued**

Item (Product code - Description)	Item code	Report period	Value					
			{ \$1000 }					
			1	2	3	4	5	6
3333197100-Electronic trainers and simulators, teaching machines, and teaching aids, including kits	7177	2007						
		2006						
		2005						
SIGHTING, TRACKING, AND FIRE CONTROL EQUIPMENT, OPTICAL TYPE								
3333141101-Made from lenses, prism, etc., produced in this plant	8379	2007						
		2006						
		2005						
3333141103-Made from purchased lenses, prisms, etc.	8389	2007						
		2006						
		2005						
3333141104-Sighting and tracking laser systems	8390	2007						
		2006						
		2005						
3333141106-Night vision goggles and equipment	8395	2007						
		2006						
		2005						
3333141109-Parts and accessories	8398	2007						
		2006						
		2005						
3333141100-Total sighting, tracking, and fire control equipment {sum of items 8379-8398}	8399	2007						
		2006						
		2005						
SELECTED NONMANUFACTURING REVENUES								
9999998900-Resales-Sales of products bought and sold without further manufacture, processing, or assembly	9945	2007						
		2006						
		2005						

PART I - Continued								
Item (Product code - Description)	Item code	Report period	Value					
			1	2	3	4	5	6
9997372000-Software services	9960	2007						
		2006						
		2005						
9997377230-Systems integration revenues, including config., installation & site prep., & custom programming	9965	2007						
		2006						
		2005						
9999998041-Research & development, testing & evaluation of systems and components	9970	2007						
		2006						
		2005						

{Do not report imported or purchased products on which your company performed no further fabrication or significant assembly.}

Value  
{\$1000}

If all your items are not listed, please use additional lines or a blank sheet of paper.

**PART II Has there been any change in the ownership or operation of this establishment during this period?**  
 Yes - Indicate type of change below.       No - Skip to Part III.

	Name of company	Address (Number and street, city, State, ZIP Code)	Date of change
A. <input type="checkbox"/> Purchased from			
B. <input type="checkbox"/> Sold to			
C. <input type="checkbox"/> Plant discontinued all operations	Date		
D. <input type="checkbox"/> Plant operations no longer covered by this survey - Describe in "Remarks" the products currently produced.			
E. <input type="checkbox"/> Reorganized - Describe in "Remarks;" e.g., partnership change or change in corporate status.			

**PART III Do the figures shown on this report and on your last report cover the identical establishments?**  
 Yes       No - Indicate reasons for difference in "Remarks."

**PART IV** Remarks

**PART V CERTIFICATION** - This report is substantially accurate and has been prepared in accordance with instructions.

Signature of authorized official	Title	Date
----------------------------------	-------	------

Complete and return this form in the envelope provided or to: **Bureau of the Census**  
 1201 East Tenth Street  
 Jeffersonville, IN 47132

**NOTE:** Please make a photocopy of this for your records.