

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500.	OMB Nos. 1210-0110 1210-0089 2017 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2017 or fiscal plan year beginning <u>12/01/2017</u> and ending <u>11/30/2018</u>	
A This return/report is for:	☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) ____
B This return/report is:	☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
C If the plan is a collectively-bargained plan, check here. ☒	
D Check box if filing under:	☒ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)

Part II	Basic Plan Information —enter all requested information		
1a Name of plan <u>DETROIT BALL BEARING COMPANY UNION EMPLOYEES' RETIREMENT PLAN</u>	1b Three-digit plan number (PN) ▶	001	
	1c Effective date of plan <u>12/28/1952</u>		
2a Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) <u>APPLIED INDUSTRIAL TECHNOLOGIES</u> <u>ONE APPLIED PLAZA</u> <u>3301 EUCLID AVENUE</u> <u>CLEVELAND, OH 44115-5011</u>	2b Employer Identification Number (EIN) <u>34-0117420</u>	2c Plan Sponsor's telephone number <u>216-426-4000</u>	2d Business code (see instructions) <u>423990</u>

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	09/04/2019	BARBARA D. EMERY
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2017)
v. 170203

3a Plan administrator's name and address ☒ Same as Plan Sponsor	3b Administrator's EIN 3c Administrator's telephone number
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name	4b EIN 4d PN
5 Total number of participants at the beginning of the plan year	5 115
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d).	
a(1) Total number of active participants at the beginning of the plan year	6a(1) 21
a(2) Total number of active participants at the end of the plan year	6a(2) 19
b Retired or separated participants receiving benefits	6b 48
c Other retired or separated participants entitled to future benefits	6c 36
d Subtotal. Add lines 6a(2) , 6b , and 6c	6d 103
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.	6e 9
f Total. Add lines 6d and 6e	6f 112
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	6g
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	6h 0
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item).....	7

8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:

1B 1I

b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:

9a Plan funding arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor
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10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

a Pension Schedules

- (1)** ☒ **R** (Retirement Plan Information)
- (2)** ☐ **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
- (3)** ☒ **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary

b General Schedules

- (1)** ☒ **H** (Financial Information)
- (2)** ☐ **I** (Financial Information – Small Plan)
- (3)** ☐ 0 **A** (Insurance Information)
- (4)** ☒ **C** (Service Provider Information)
- (5)** ☐ **D** (DFE/Participating Plan Information)
- (6)** ☐ **G** (Financial Transaction Schedules)

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2017 Form M-1 annual report. If the plan was not required to file the 2017 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2017 This Form is Open to Public Inspection
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For calendar plan year 2017 or fiscal plan year beginning 12/01/2017 and ending 11/30/2018	
▶ Round off amounts to nearest dollar.	
▶ Caution: A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.	
A Name of plan DETROIT BALL BEARING COMPANY UNION EMPLOYEES' RETIREMENT PLAN	B Three-digit plan number (PN) ▶ 001
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF APPLIED INDUSTRIAL TECHNOLOGIES	D Employer Identification Number (EIN) 34-0117420
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☒ 101-500 ☐ More than 500

Part I	Basic Information			
1	Enter the valuation date: Month 12 Day 01 Year 2017			
2	Assets:			
a	Market value	2a	7741487	
b	Actuarial value	2b	7578658	
3	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a	For retired participants and beneficiaries receiving payment	53	3616670	3616670
b	For terminated vested participants	41	1529090	1529090
c	For active participants	21	2583517	2594454
d	Total	115	7729277	7740214
4	If the plan is in at-risk status, check the box and complete lines (a) and (b): ☐			
a	Funding target disregarding prescribed at-risk assumptions	4a		
b	Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b		
5	Effective interest rate	5	5.86 %	
6	Target normal cost	6	112325	

Statement by Enrolled Actuary
To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		
AMY L. GENTILE	Signature of actuary	07/01/2019
FINDLEY, INC.	Type or print name of actuary	Date
1660 WEST 2ND STREET, SUITE 900 CLEVELAND, OH 44113-1461	Firm name	17-08186
	Address of the firm	Most recent enrollment number
		216-875-1900
		Telephone number (including area code)

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	420701
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	24340
9 Amount remaining (line 7 minus line 8)	0	396361
10 Interest on line 9 using prior year's actual return of <u>13.74</u> %	0	54460
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		302107
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>6.06</u> %		16833
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		3344
c Total available at beginning of current plan year to add to prefunding balance		322284
d Portion of (c) to be added to prefunding balance		161644
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	612465

Part III Funding Percentages

14 Funding target attainment percentage	14	90.00%
15 Adjusted funding target attainment percentage	15	90.00%
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	89.65%
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
03/05/2019	500000	0			
Totals ►			18(b)	500000	18(c) 0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years.	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	465445

20 Quarterly contributions and liquidity shortfalls:

- a** Did the plan have a "funding shortfall" for the prior year? ☒ Yes ☐ No
- b** If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☒ Yes ☐ No
- c** If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th
0	0	0	0

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 4.16 %	2nd segment: 5.72 %	3rd segment: 6.48 %	☐ N/A, full yield curve used
b Applicable month (enter code)				21b 4
22 Weighted average retirement age				22 62
23 Mortality table(s) (see instructions) ☒ Prescribed - combined ☐ Prescribed - separate ☐ Substitute				

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment	☐ Yes ☒ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment	☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment	☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6)	31a	112325	
b Excess assets, if applicable, but not greater than line 31a	31b	0	
32 Amortization installments:	Outstanding Balance		Installment
a Net shortfall amortization installment	774021		144799
b Waiver amortization installment	0		0
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)	34	257124	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	251003	251003
36 Additional cash requirement (line 34 minus line 35)	36	6121	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	465445	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	459324	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	251003	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contributions for all years	40	0	

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected	☐ 2 plus 7 years	☐ 15 years	
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008	☐ 2009	☐ 2010 ☐ 2011
42 Amount of acceleration adjustment	42		
43 Excess installment acceleration amount to be carried over to future plan years	43		

SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2017
		This Form is Open to Public Inspection.

For calendar plan year 2017 or fiscal plan year beginning 12/01/2017 and ending 11/30/2018		
A Name of plan DETROIT BALL BEARING COMPANY UNION EMPLOYEES' RETIREMENT PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 APPLIED INDUSTRIAL TECHNOLOGIES	D Employer Identification Number (EIN) 34-0117420	

Part I	Service Provider Information (see instructions)
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You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions)..... ☒ Yes ☐ No

b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
MATRIX FINANCIAL SOLUTIONS
20-1591048

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

UBS

13-2638166

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 51 52 62 63 99	NONE	52889	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

(a) Enter name and EIN or address (see instructions)

FINDLEY

34-1213174

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
11 17 50	NONE	28794	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

PLANTE & MORAN

38-1357951

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
10 50	NONE	20600	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

MG TRUST CO. D/B/A MATRIX TRUST

75-3182674

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
21 50 51 52 62 63 99	TRUSTEE	6499	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
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(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

SCHEDULE H (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2017 This Form is Open to Public Inspection
For calendar plan year 2017 or fiscal plan year beginning <u>12/01/2017</u> and ending <u>11/30/2018</u>		
A Name of plan <u>DETROIT BALL BEARING COMPANY UNION EMPLOYEES' RETIREMENT PLAN</u>	B Three-digit plan number (PN) ►	<u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>APPLIED INDUSTRIAL TECHNOLOGIES</u>	D Employer Identification Number (EIN) <u>34-0117420</u>	

Part I	Asset and Liability Statement		(a) Beginning of Year	(b) End of Year
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.				
	Assets			
a	Total noninterest-bearing cash	1a		
b	Receivables (less allowance for doubtful accounts):			
	(1) Employer contributions	1b(1)	500000	500000
	(2) Participant contributions	1b(2)		
	(3) Other.....	1b(3)		
c	General investments:			
	(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)	149068	115914
	(2) U.S. Government securities.....	1c(2)	1072298	1008531
	(3) Corporate debt instruments (other than employer securities):			
	(A) Preferred	1c(3)(A)		
	(B) All other.....	1c(3)(B)	328569	293546
	(4) Corporate stocks (other than employer securities):			
	(A) Preferred	1c(4)(A)		
	(B) Common	1c(4)(B)	4332463	4781265
	(5) Partnership/joint venture interests	1c(5)	0	9466
	(6) Real estate (other than employer real property)	1c(6)		
	(7) Loans (other than to participants)	1c(7)		
	(8) Participant loans	1c(8)		
	(9) Value of interest in common/collective trusts.....	1c(9)		
	(10) Value of interest in pooled separate accounts.....	1c(10)		
	(11) Value of interest in master trust investment accounts	1c(11)		
	(12) Value of interest in 103-12 investment entities	1c(12)		
	(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)	1366767	1286113
	(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)		
	(15) Other	1c(15)		

		(a) Beginning of Year	(b) End of Year
1d	Employer-related investments:		
(1)	Employer securities	1d(1)	
(2)	Employer real property	1d(2)	
e	Buildings and other property used in plan operation	1e	
f	Total assets (add all amounts in lines 1a through 1e)	1f	7749165 7994835
Liabilities			
g	Benefit claims payable	1g	
h	Operating payables	1h	
i	Acquisition indebtedness	1i	
j	Other liabilities	1j	
k	Total liabilities (add all amounts in lines 1g through 1j)	1k	0 0
Net Assets			
l	Net assets (subtract line 1k from line 1f)	1l	7749165 7994835

Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

		(a) Amount	(b) Total
a	Contributions:		
(1)	Received or receivable in cash from: (A) Employers	2a(1)(A)	500000
	(B) Participants	2a(1)(B)	
	(C) Others (including rollovers)	2a(1)(C)	
(2)	Noncash contributions	2a(2)	
(3)	Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)	500000
b	Earnings on investments:		
(1)	Interest:		
	(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	1925
	(B) U.S. Government securities	2b(1)(B)	32674
	(C) Corporate debt instruments	2b(1)(C)	12339
	(D) Loans (other than to participants)	2b(1)(D)	
	(E) Participant loans	2b(1)(E)	
	(F) Other	2b(1)(F)	
	(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)	46938
(2)	Dividends: (A) Preferred stock	2b(2)(A)	
	(B) Common stock	2b(2)(B)	62599
	(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	63797
	(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)	126396
(3)	Rents	2b(3)	
(4)	Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)	3836604
	(B) Aggregate carrying amount (see instructions)	2b(4)(B)	3825316
	(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)	11288
(5)	Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)	
	(B) Other	2b(5)(B)	82655
	(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)	82655

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds).....	2b(10)		-88891
c Other income	2c		30
d Total income. Add all income amounts in column (b) and enter total.....	2d		678416

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers.....	2e(1)	323171	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3).....	2e(4)		323171
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions).....	2g		
h Interest expense.....	2h		
i Administrative expenses: (1) Professional fees	2i(1)	56330	
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)	52889	
(4) Other	2i(4)	356	
(5) Total administrative expenses. Add lines 2i(1) through (4).....	2i(5)		109575
j Total expenses. Add all expense amounts in column (b) and enter total.....	2j		432746

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		245670
l Transfers of assets:			
(1) To this plan.....	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☐ Unqualified (2) ☐ Qualified (3) ☒ Disclaimer (4) ☐ Adverse

b Did the accountant perform a limited scope audit pursuant to 29 CFR 2520.103-8 and/or 103-12(d)?

☒ Yes ☐ No

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: PLANTE & MORAN

(2) EIN: 38-1357951

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.).....

b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)

	Yes	No	Amount
4a		X	
4b		X	

	Yes	No	Amount
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)		X	
4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)		X	
4d		X	
e Was this plan covered by a fidelity bond?	X		500000
4e	X		500000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
4i	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked, and see instructions for format requirements.)		X	
4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		X	
4k		X	
l Has the plan failed to provide any benefit when due under the plan?		X	
4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)			
4m			
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			
4n			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? ☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c If the plan is a defined benefit plan, is it covered under the PBGC insurance program (See ERISA section 4021.)? ☒ Yes ☐ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 4135231. (See instructions.)

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110 2017 This Form is Open to Public Inspection.
For calendar plan year 2017 or fiscal plan year beginning 12/01/2017 and ending 11/30/2018		
A Name of plan DETROIT BALL BEARING COMPANY UNION EMPLOYEES' RETIREMENT PLAN		B Three-digit plan number (PN) ▶ 001
C Plan sponsor's name as shown on line 2a of Form 5500 APPLIED INDUSTRIAL TECHNOLOGIES		D Employer Identification Number (EIN) 34-0117420
Part I	Distributions	
All references to distributions relate only to payments of benefits during the plan year.		
1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions		1 0
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): 75-3182674		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year		3 0
Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)	
4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ☐ Yes ☒ No ☐ N/A If the plan is a defined benefit plan, go to line 8.		
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month Day Year If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.		
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived)		6a
b Enter the amount contributed by the employer to the plan for this plan year		6b
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount)		6c
If you completed line 6c, skip lines 8 and 9.		
7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ☐ Yes ☐ No ☐ N/A		
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ☐ Yes ☐ No ☒ N/A		
Part III	Amendments	
9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box. ☐ Increase ☒ Decrease ☐ Both ☐ No		
Part IV	ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.	
10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan? ☐ Yes ☐ No		
11 a Does the ESOP hold any preferred stock? ☐ Yes ☐ No		
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.) ☐ Yes ☐ No		
12 Does the ESOP hold any stock that is not readily tradable on an established securities market? ☐ Yes ☐ No		
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.		
Schedule R (Form 5500) 2017 v. 170203		

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that contributed more than 5% of total contributions to the plan during the plan year (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

- 14** Enter the number of participants on whose behalf no contributions were made by an employer as an employer of the participant for:

a The current year	14a	
b The plan year immediately preceding the current plan year	14b	
c The second preceding plan year	14c	

- 15** Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:

a The corresponding number for the plan year immediately preceding the current plan year	15a	
b The corresponding number for the second preceding plan year	15b	

- 16** Information with respect to any employers who withdrew from the plan during the preceding plan year:

a Enter the number of employers who withdrew during the preceding plan year	16a	
b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers	16b	

- 17** If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment. ☐

Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans

- 18** If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐

- 19** If the total number of participants is 1,000 or more, complete lines (a) through (c)

- a** Enter the percentage of plan assets held as:
 Stock: _____% Investment-Grade Debt: _____% High-Yield Debt: _____% Real Estate: _____% Other: _____%
- b** Provide the average duration of the combined investment-grade and high-yield debt:
☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more
- c** What duration measure was used to calculate line 19(b)?
☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify): _____

Detroit Ball Bearing Company Union Employees' Retirement Plan

Financial Report
November 30, 2018

Detroit Ball Bearing Company Union Employees' Retirement Plan

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Independent Auditor's Report

To the Plan Administrator
Detroit Ball Bearing Company
Union Employees' Retirement Plan

Report on the Financial Statements

We were engaged to audit the accompanying financial statements of Detroit Ball Bearing Company Union Employees' Retirement Plan (the "Plan"), which comprise the statement of net assets available for benefits as of November 30, 2018 and 2017, the related statement of changes in net assets available for benefits for the years then ended, the statement of accumulated plan benefits as of November 30, 2017, and the related statement of changes in accumulated plan benefits for the year then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on conducting the audits in accordance with auditing standards generally accepted in the United States of America. Because of the matter described in the *Basis for Disclaimer of Opinion* paragraph, however, we were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion.

Basis for Disclaimer of Opinion

As permitted by 29 CFR 2520.103-8 of the Department of Labor's (DOL) Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 (ERISA), the plan administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the information summarized in Note 3, which was certified by Matrix Trust Company (Matrix), except for comparing such information with the related information included in the financial statements. We have been informed by the plan administrator that Matrix holds the Plan's investment assets and executes related transactions. The plan administrator has obtained certifications from Matrix as of and for the years ended November 30, 2018 and 2017 that the information provided to the plan administrator by Matrix is complete and accurate.

Disclaimer of Opinion

Because of the significance of the matter described in the *Basis for Disclaimer of Opinion* paragraph, we have not been able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion. Accordingly, we do not express an opinion on these financial statements.

Other Matter

The supplemental schedule of the assets held at end of year as of November 30, 2018 is required by the DOL's Rules and Regulations for Reporting and Disclosure under ERISA and is presented for the purpose of additional analysis and is not a required part of the financial statements. Because of the significance of the matter described in the *Basis for Disclaimer of Opinion* paragraph, we do not express an opinion on this supplemental schedule.

To the Plan Administrator
Detroit Ball Bearing Company
Union Employees' Retirement Plan

Report on Form and Content in Compliance with DOL Rules and Regulations

The form and content of the information included in the financial statements and supplemental schedule, other than that derived from the information certified by Matrix, have been audited by us in accordance with auditing standards generally accepted in the United States of America and, in our opinion, are presented in compliance with the DOL's Rules and Regulations for Reporting and Disclosure under ERISA.

Plante & Moreau, PLLC

Cleveland, Ohio
August 14, 2019

Detroit Ball Bearing Company Union Employees' Retirement Plan

Statement of Net Assets Available for Benefits

		November 30, 2018 and 2017	
		<u>2018</u>	<u>2017</u>
Assets			
Investments at fair value:			
Short-term investments	\$	115,914	\$ 149,068
Common stock		4,781,265	4,332,463
U.S. government, corporate, and foreign debt securities		1,302,077	1,400,867
Mutual funds		1,286,113	1,366,767
Limited partnership		9,466	-
		<u>7,494,835</u>	<u>7,249,165</u>
Total investments at fair value			
		7,494,835	7,249,165
Contributions receivable		<u>500,000</u>	<u>500,000</u>
Net Assets Available for Benefits	\$	<u>7,994,835</u>	<u>\$ 7,749,165</u>

Detroit Ball Bearing Company Union Employees' Retirement Plan

Statement of Changes in Net Assets Available for Benefits

Years Ended November 30, 2018 and 2017

	<u>2018</u>	<u>2017</u>
Additions to Net Assets		
Contributions	\$ 500,000	\$ 963,347
Investment income:		
Interest and dividends	173,334	177,784
Net realized and unrealized gains on investments	<u>5,052</u>	<u>725,747</u>
Total investment income	178,386	903,531
Other additions - Other income	<u>30</u>	<u>786</u>
Total additions to net assets	678,416	1,867,664
Deductions from Net Assets		
Benefits paid directly to participants or beneficiaries	323,171	328,444
Administrative expenses	<u>109,575</u>	<u>111,172</u>
Total deductions from net assets	<u>432,746</u>	<u>439,616</u>
Net Increase	245,670	1,428,048
Net Assets Available for Benefits		
Beginning of year	<u>7,749,165</u>	<u>6,321,117</u>
End of year	<u><u>\$ 7,994,835</u></u>	<u><u>\$ 7,749,165</u></u>

Detroit Ball Bearing Company Union Employees' Retirement Plan

Statement of Accumulated Plan Benefits

November 30, 2017

Actuarial Present Value of Accumulated Plan Benefits

Vested benefits:

Participants currently receiving benefit payments	\$ 3,275,843
Inactive participants with deferred benefits	<u>3,608,744</u>
Total vested benefits	6,884,587

Nonvested benefits	<u>12,477</u>
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Total Actuarial Present Value of Accumulated Plan Benefits	<u>\$ 6,897,064</u>
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Detroit Ball Bearing Company Union Employees' Retirement Plan

Statement of Changes in Accumulated Plan Benefits

Year Ended November 30, 2017

Actuarial Present Value of Accumulated Plan Benefits - Beginning of year	\$ 6,796,641
(Decrease) increase during the year attributable to:	
Benefits accumulated	(35,597)
Interest due to the decrease in the discount period	464,464
Benefits paid	<u>(328,444)</u>
Net increase	<u>100,423</u>
Actuarial Present Value of Accumulated Plan Benefits - End of year	<u>\$ 6,897,064</u>

Detroit Ball Bearing Company Union Employees' Retirement Plan

Notes to Financial Statements

November 30, 2018 and 2017

Note 1 - Plan Description

The following description of Detroit Ball Bearing Company Union Employees' Retirement Plan (the "Plan") provides only general information. Participants should refer to the plan agreement for a more complete description of the Plan's provisions.

General

The Plan is a defined benefit plan sponsored by Applied Industrial Technologies - DBB, Inc. (the "Company") and collectively bargained with the Truck Drivers Local Union No. 299 affiliated with the International Brotherhood of Teamsters, Chauffeurs, Warehousemen, and Helpers of America. The Plan was established on December 28, 1952 and is a noncontributory pension plan. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA).

Plan Operations

Under a trust agreement, Matrix Trust Company (the "Trustee") was appointed trustee of the Plan. In accordance with the powers and duties of the Trustee, as designated by the Company, the Trustee administers the Plan in accordance with the orders of the investment committee and invests the Plan's assets and income, as directed by the Plan's investment manager (UBS Financial Services). Costs of administering the Plan are paid by the Plan or the Company, as determined by the Company, subject to limitations under ERISA. For the year ended November 30, 2018, the Plan paid all plan expenses.

Eligibility and Vesting

The Plan was frozen to new participants beginning on February 1, 2014. All employees who are covered under the terms of the collective bargaining agreement who have completed 480 hours of service, as defined by the Plan, and started with the Company prior to February 1, 2014 are eligible to participate in the Plan. The Plan provides for vesting of accrued benefits as follows:

<u>Vesting Service (Whole Years)</u>	<u>Vesting Percentage</u>
Less than 1	- %
1	10.00 %
2	20.00 %
3	30.00 %
4	40.00 %
5	60.00 %
6	80.00 %
7 or more	100.00 %

Pension Benefits

The Plan provides for payment upon normal retirement, early retirement, late retirement, termination, and death of its participants. Normal retirement benefits commence at age 62 and five years of plan participation. Participants who have completed 10 years of service may elect to retire early following the attainment of age 60. In such an event, the participant's monthly benefit shall be reduced by a certain percentage for each month that the participant's early retirement date precedes his or her normal retirement date. Upon termination of employment prior to retirement following at least one year of vested service, a participant is entitled to receive a full retirement benefit commencing at age 62, or in a reduced amount under the early retirement provisions. Death benefits commence at the time the participant would have been eligible for retirement. The monthly benefit is equal to 55 percent of the vested benefit on the date of death.

In addition, a participant may alternatively elect the options of a life annuity, as follows: 50, 66 2/3, or 100 percent joint and survivor benefit; 5-, 10-, or 15-year certain and continuous benefit; or Social Security level income benefit.

November 30, 2018 and 2017

Note 1 - Plan Description (Continued)

The normal retirement benefit is based on the participant's years of credited service. The number of years of credited service is multiplied by the benefit unit in effect on the participant's last day of employment. One year of credited service is earned for each plan year in which the participant has 2,080 or more hours of service. Partial service is determined by taking hours of service and dividing them by 2,080, rounding to the nearest one-tenth if the total is at least 501 hours. Benefit rates per hour of credited service range from \$23 for individuals retired prior to February 1, 1998 to \$54 for retirements after February 2, 2016. As of February 26, 2018, the plan was amended to freeze participation and benefit accruals for all employees and participants on and after April 16, 2018, which is not reflected in the actuarial valuation report as of November 30, 2017.

Funding Policy

Contributions are made by the Company in actuarially determined amounts. The Company's policy is to make contributions necessary to satisfy ERISA funding standards. Annual contributions meet the minimum funding requirements of ERISA.

Note 2 - Summary of Significant Accounting Policies

Investment Valuation and Income Recognition

The Plan's investments are stated at fair value. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 6 for further discussion of fair value measurements.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded as earned. Dividends are recorded on the ex-dividend date.

Actuarial Present Value of Accumulated Plan Benefits

Accumulated plan benefits are those future periodic payments that are attributable, under the Plan's provisions, to the service employees have rendered. These include benefits expected to be paid to:

- (a) Retired or terminated employees or their beneficiaries
- (b) Beneficiaries of employees who have died
- (c) Present employees or their beneficiaries

Benefits payable under all circumstances - retirement, death, disability, and termination of employment - are included to the extent they are deemed attributable to employee service rendered to the valuation date. Benefits provided via annuity contracts are deducted from plan assets and from accumulated plan benefits.

Actuarial Assumptions

The actuarial present value of accumulated plan benefits is determined by an actuary from Findley Davies and is the amount that results from applying actuarial assumptions to adjust the accumulated plan benefits to reflect the time value of money and probability of payment between the valuation date and the expected date of payment.

Detroit Ball Bearing Company Union Employees' Retirement Plan

Notes to Financial Statements

November 30, 2018 and 2017

Note 2 - Summary of Significant Accounting Policies (Continued)

The significant actuarial assumptions used in the valuation of the Plan at November 30, 2017 are summarized as follows:

Actuarial cost method	Unit credit
Assumed rate of return	7.0 percent per annum
Mortality basis	MP-2014 scale for 2007 and converges linearly to the ultimate long-term improvement scale over 10 years, reaching that scale in 2017
Assumed retirement age	Age 62

In addition, 75 percent of participants were assumed to be married, with the wife assumed to be three years younger than the husband. Preretirement rates of turnover ranged from 13.02 percent at age 20, decreasing to 3.15 percent at age 50, and 0.0 percent at age 55.

The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Were the Plan to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated plan benefits.

Payment of Benefits

Benefits are recorded when paid.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of additions and deductions during the reporting period. Actual results could differ from those estimates.

Risks and Uncertainties

Contributions to the Plan and the actuarial present value of accumulated plan benefits are reported based on certain assumptions pertaining to interest rates, inflation rates, and demographics. Due to the changing nature of these assumptions, it is at least reasonably possible that changes in these assumptions will occur in the near term and, due to the uncertainties inherent in setting assumptions, that the effect of such changes could be material to the financial statements. Investment securities are exposed to various risks, such as interest rate, market, and credit risks. It is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the financial statements.

Subsequent Events

The financial statements and related disclosures include evaluation of events up through and including August 14, 2019, which is the date the financial statements were available to be issued.

Note 3 - Unaudited Information

Matrix Trust Company (Matrix) holds the Plan's investments and executes all investment transactions. The investment balances and related investment income and losses included in the accompanying financial statements and supplemental schedule of assets held at end of year are based solely on information certified by Matrix.

November 30, 2018 and 2017

Note 4 - Plan Termination

Should the Plan terminate at some future time, its net assets generally will not be available on a pro rata basis to provide participants' benefits. Whether a particular participant's accumulated plan benefits will be paid depends on both the priority of those benefits and the level of benefits guaranteed by the Pension Benefit Guaranty Corporation (PBGC) at that time. Some benefits may be fully or partially provided for by the then-existing assets and the PBGC guarantee, while other benefits may not be provided for at all.

Note 5 - Tax Status

The Plan has received a determination letter from the Internal Revenue Service indicating that the Plan, as designed, is qualified for tax-exempt treatment under the applicable section of the Internal Revenue Code (IRC). Although the Plan has been amended since receiving the determination letter, management believes that the Plan is designed and is currently being operated in compliance with the applicable requirements of the IRC.

Note 6 - Fair Value Measurements

Accounting standards require certain assets and liabilities be reported at fair value in the financial statements and provide a framework for establishing that fair value. The framework for determining fair value is based on a hierarchy that prioritizes the valuation techniques and inputs used to measure fair value.

The following tables present information about the Plan's assets measured at fair value on a recurring basis at November 30, 2018 and 2017.

Fair values determined by Level 1 inputs use quoted prices in active markets for identical assets that the Plan has the ability to access.

Fair values determined by Level 2 inputs use other inputs that are observable, either directly or indirectly. These Level 2 inputs include quoted prices for similar assets in active markets, quoted prices for identical or similar assets in markets that are not active, and inputs other than quoted prices that are observable for the asset.

Level 3 inputs are unobservable inputs, including inputs that are available in situations where there is little, if any, market activity for the related asset. These Level 3 fair value measurements are based primarily on management's own estimates using pricing models, discounted cash flow methodologies, or similar techniques taking into account the characteristics of the asset.

In instances whereby inputs used to measure fair value fall into different levels of the fair value hierarchy, fair value measurements in their entirety are categorized based on the lowest level input that is significant to the valuation. The Plan's assessment of the significance of particular inputs to these fair value measurements requires judgment and considers factors specific to each asset.

The following valuation methodologies have been used to value the Plan's investments:

Mutual Funds

Mutual funds are valued at quoted prices reported in active markets.

Common Stock

Common stocks are valued at quoted prices reported in active markets.

Short-term Investments

The fair value of these investments, which is primarily interest-bearing cash, is based on their outstanding balances.

Detroit Ball Bearing Company Union Employees' Retirement Plan

Notes to Financial Statements

November 30, 2018 and 2017

Note 6 - Fair Value Measurements (Continued)

U.S. Government, Corporate, and Foreign Debt Securities

The U.S. government, corporate, and foreign debt securities are valued using quoted market prices and/or other market data for the same or comparable instruments and transactions in establishing the prices, discounted cash flow models, and other pricing models. These models are primarily industry standard models that consider various assumptions, including time value and yield curve, as well as other relevant economic measures. Mortgages are valued based on the future principal and interest payments discounted at prevailing interest rates and similar investments.

Limited Partnership

Investments in limited partnerships are valued at quoted prices reported in active markets.

Assets Measured at Fair Value on a Recurring Basis at November 30, 2018				
	Balance at November 30, 2018	Level 1	Level 2	Level 3
Mutual funds	\$ 1,286,113	\$ 1,286,113	\$ -	\$ -
Common stock	4,781,265	4,781,265	-	-
Short-term investments	115,914	115,914	-	-
U.S. government, corporate, and foreign debt securities	1,302,077	-	1,302,077	-
Partnerships/Joint venture interest	9,466	9,466	-	-
Total	<u>\$ 7,494,835</u>	<u>\$ 6,192,758</u>	<u>\$ 1,302,077</u>	<u>\$ -</u>

Assets Measured at Fair Value on a Recurring Basis at November 30, 2017				
	Balance at November 30, 2017	Level 1	Level 2	Level 3
Mutual funds	\$ 1,366,767	\$ 1,366,767	\$ -	\$ -
Common stock	4,332,463	4,332,463	-	-
Short-term investments	149,068	149,068	-	-
U.S. government, corporate, and foreign debt securities	1,400,867	-	1,400,867	-
Total	<u>\$ 7,249,165</u>	<u>\$ 5,848,298</u>	<u>\$ 1,400,867</u>	<u>\$ -</u>

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Common Stock Shares:			
Abbott Laboratories	576 Shares	\$ 37,108	\$ 42,653
Abbvie Inc	172 Shares	17,010	16,214
Abiomed Inc	29 Shares	9,506	9,648
Adobe Inc	110 Shares	19,341	27,598
Agilent Technologies	455 Shares	31,743	32,919
Agree Realty Corp	104 Shares	5,636	6,195
Air Products & Chemicals Inc	79 Shares	11,617	12,709
Albemarle Corp	408 Shares	39,893	39,299
Align Technology Inc.	61 Shares	19,175	14,023
Alleghany Corp	69 Shares	42,506	43,541
Allison Transmission Holding	398 Shares	20,620	18,750
Alphabet Inc CL A	34 Shares	27,627	37,728
Alphabet Inc CL C	115 Shares	117,051	125,859
Altria Group Inc	663 Shares	44,410	36,352
Amazon Com Inc	46 Shares	35,125	77,748
Ambarella Inc	132 Shares	7,357	5,279
Amerco	11 Shares	4,175	3,811
American Tower REIT Inc	294 Shares	40,241	48,360
American Wood Mark Corp	109 Shares	9,884	7,291
Amgen Inc	86 Shares	16,267	17,910
Amn Healthcare Services	265 Shares	9,438	16,881
Angiodynamics Inc.	243 Shares	5,555	5,222
Anixter Intl Inc	112 Shares	5,783	7,164
Ansys Inc.	77 Shares	13,347	12,476
Aon PLC	72 Shares	10,117	11,888
Apple Inc	547 Shares	87,347	97,683
Applied Industrial Tech Inc	279 Shares	20,271	18,199
Arch Cap Group Ltd Ord	422 Shares	12,805	12,078
Argo Group International Holdings	126 Shares	6,944	8,734
Asml Holding Nv	65 Shares	10,043	11,138
Autodesk Inc	108 Shares	12,188	15,606
Automatic Data Processing	139 Shares	16,188	20,491
Avery Dennison Corp	195 Shares	22,419	18,798
Balchem Corp	93 Shares	6,234	8,063
Bank Of America Corp	1452 Shares	43,298	41,237
Barnes Group Inc	152 Shares	5,981	9,128
Baxter Intl Inc	288 Shares	19,289	19,742

Detroit Ball Bearing Company Union Employees' Retirement Plan**Schedule of Assets Held at End of Year (Continued)**

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Becton Dickinson & Co	77 Shares	\$ 16,282	\$ 19,462
Benchmark Electronics Inc	250 Shares	7,083	5,960
Berkshire Hathaway Inc Cl B	483 Shares	92,289	105,410
Big Lots Inc	137 Shares	5,635	5,968
Black Knight Inc	336 Shares	15,647	15,234
Blackrock 2001 Term Tr Inc	109 Shares	40,581	46,653
Boeing Company	85 Shares	26,743	29,475
Booking Holdings Inc	6 Shares	8,292	11,351
Bristol-Myers Squibb Co	466 Shares	31,402	24,912
Brookfield Asset Management Inc	820 Shares	32,179	35,982
Brown & Brown Inc	361 Shares	8,711	10,476
Brown Forman Corp CL B	82 Shares	3,635	3,913
Caci International	71 Shares	7,555	11,709
Calamp Corp	397 Shares	6,786	7,027
Callon Petroleum Co	921 Shares	9,957	7,875
Cambrex Corp	137 Shares	7,024	6,553
Carmax Inc	1113 Shares	71,120	73,536
Carnival Corp.	912 Shares	48,779	54,984
Carolina Financial Corp	219 Shares	8,972	7,525
Carpenter Technologies Delaware	150 Shares	5,496	6,462
Carrizo Oil & Gas Inc	387 Shares	7,491	6,622
CBRE Group Inc	379 Shares	13,934	16,555
CDK Global Inc	89 Shares	5,633	4,486
Centene Corp	155 Shares	15,650	22,049
Centerpoint Energy Inc	575 Shares	15,390	16,106
Chevron Corp	381 Shares	39,581	45,316
Cisco Systems Inc	1341 Shares	46,105	64,194
Citizens Financial Group	433 Shares	19,737	15,744
Coca-Cola Company	526 Shares	23,732	26,510
Colfax Corp	331 Shares	13,131	8,255
Columbia Bkg Sys Inc.	158 Shares	6,329	6,427
Copart Inc	284 Shares	9,965	14,535
Costar Group Inc	34 Shares	6,116	12,559
Costco Wholesale Corp-New	103 Shares	18,916	23,822
Cts Corp.	187 Shares	6,667	5,425
Cummins Inc	108 Shares	17,212	16,314
Dave & Buster's Entertainment	104 Shares	4,714	5,913

Detroit Ball Bearing Company Union Employees' Retirement Plan**Schedule of Assets Held at End of Year (Continued)**

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Deere & Co.	124 Shares	\$ 19,909	\$ 19,205
Dollar General Corp	95 Shares	7,979	10,544
Dollar Tree Inc	631 Shares	64,527	54,752
Dorman Products Inc	136 Shares	8,321	11,949
Easterly Government Properti	563 Shares	10,922	10,258
Echostar Corp	30 Shares	1,754	1,255
Electronic Arts	157 Shares	17,869	13,199
Emcor Group Inc	225 Shares	17,422	16,394
Emergent Biosolutions Inc	53 Shares	2,809	3,861
Encompass Health Corp	261 Shares	20,590	19,630
Equinix Inc	21 Shares	9,719	8,091
Evercore Inc CL A	181 Shares	19,236	14,943
Exlservice Holdings Inc	153 Shares	7,225	8,868
Expedia Group Inc	96 Shares	11,514	11,596
Exxon-Mobil Corporation	171 Shares	12,748	13,595
Fastenal Co	92 Shares	4,139	5,452
Fedex Corp	163 Shares	40,394	37,327
Ferrari NV	156 Shares	18,122	17,098
Fidelity National Information	145 Shares	11,380	15,653
First Republic Bank/San Fran	163 Shares	15,850	16,161
Fiserv Inc.	241 Shares	13,961	19,070
FNF Group	460 Shares	15,914	15,456
Fortive Corp	200 Shares	11,701	15,214
Forward Air Corp	182 Shares	8,091	11,881
Franklin Electric Inc.	182 Shares	6,232	8,236
Gartner Inc	180 Shares	22,451	27,574
GCI Liberty Inc - Class A	123 Shares	7,422	5,888
General Dynamics Corp	201 Shares	33,834	37,163
GoDaddy Inc - Class A	206 Shares	12,365	13,444
Granite Construction Inc	191 Shares	8,886	9,670
Great Western Bancorp Inc	161 Shares	6,472	6,009
Guidewire Software Inc	76 Shares	7,323	7,065
HD Supply Holdings Inc	34 Shares	1,139	1,357
Heico Corp New CI A	25 Shares	1,654	1,688
Hilton Worldwide Holdings Inc	201 Shares	15,675	15,184
Home Depot Incorporated	354 Shares	62,099	63,833
Honeywell International	119 Shares	12,627	17,463

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year (Continued)

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Howard Hughes Corp/The	77 Shares	\$ 9,021	\$ 8,529
HP Inc	867 Shares	20,691	19,941
Huntsman Corp	626 Shares	18,489	12,658
Hyatt Hotels Corp CL A	97 Shares	7,306	6,917
Idacorp Inc.	117 Shares	8,644	11,494
Idexx Laboratories Inc	12 Shares	2,900	2,445
IHS Markit LTD	298 Shares	14,108	15,904
Illumina Inc	59 Shares	11,413	19,913
Integra Life Sciences Holdings Corp	185 Shares	6,677	9,922
Intel Corporation	364 Shares	18,667	17,949
Intercontinental Exchange Inc	293 Shares	19,279	23,944
Intuit	116 Shares	15,635	24,885
Intuitive Surgical	37 Shares	19,493	19,642
Jabil Inc	585 Shares	16,055	14,607
Johnson & Johnson	131 Shares	16,877	19,244
JPMorgan Chase & Co	217 Shares	20,180	24,128
K Force Inc	221 Shares	5,257	7,003
Kar Auction Services Inc	87 Shares	4,421	4,971
Kennedy-Wilson Holdings Inc	369 Shares	7,652	7,229
Lear Corp	117 Shares	21,885	15,941
Lennar Corp	146 Shares	7,569	6,239
LHC Group Inc.	112 Shares	6,169	11,745
Liberty Broadband - A	45 Shares	4,539	3,831
Liberty Broadband - C	68 Shares	6,888	5,770
Liberty Expedia Holdings Ser A	60 Shares	3,170	2,515
Liberty Global PLC	119 Shares	4,044	2,955
Liberty Global PLC Series C	235 Shares	7,745	5,708
Liberty Media Group Liberty Formula One A	22 Shares	821	634
Liberty Media Group Liberty Formula One C	283 Shares	10,567	8,439
Liberty Sirius Group - C	158 Shares	6,783	6,339
Liberty SiriusXM Group	71 Shares	3,052	2,825
Linde PLC	131 Shares	21,193	20,836
Littelfuse Inc.	41 Shares	5,683	7,845
Lowes Co Inc	462 Shares	41,030	43,599
Ltc Properties Inc	186 Shares	8,689	8,638

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year (Continued)

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Lydall Inc	157 Shares	\$ 6,947	\$ 3,474
M&T Bank Corp	32 Shares	4,669	5,408
Macy's Inc	594 Shares	17,730	20,327
Marathon Petroleum Corp	238 Shares	18,602	15,508
Marcus & Millichap Inc	278 Shares	7,340	10,144
Markel Corp.	25 Shares	25,938	28,604
Martin Marietta Materials	310 Shares	63,454	59,114
Masimo Corporation	51 Shares	2,772	5,631
Mastercard Inc A	174 Shares	18,035	34,986
Matador Resources Co	412 Shares	9,333	9,394
Mercantile Bank Corp	164 Shares	5,636	5,238
Methode Electronics Inc	196 Shares	6,578	5,939
Mettler Toledo Intl	15 Shares	8,503	9,550
Microchip Technology	153 Shares	12,941	11,475
Microsoft Corporation	1023 Shares	76,453	113,440
Mohawk Ind	45 Shares	11,450	5,763
Moody's Corp	213 Shares	28,059	33,882
Motorola Solutions Inc	38 Shares	3,247	4,988
MSCI Inc	33 Shares	4,352	5,184
MSG Networks Inc	278 Shares	6,390	7,445
Mts Systems Corp	186 Shares	9,613	9,570
Multi-Color Corp	131 Shares	7,083	5,816
Navigant Consulting Com (NSRGY)	358 Shares 518 Shares	6,085 43,426	9,172 44,144
Netapp Inc	350 Shares	22,209	23,405
Netflix Inc	83 Shares	20,994	23,749
Newmarket Corp	94 Shares	37,141	39,525
Nexstar Media Group Inc	132 Shares	7,749	10,908
Nike Inc.	407 Shares	25,941	30,574
Norfolk Southern Co.	355 Shares	35,200	60,613
Northern Trust Corp	181 Shares	20,216	17,961
Northrop Grumman Corp	135 Shares	41,622	35,084
Nvidia Corp	186 Shares	40,461	30,398
O Reilly Automotive Inc	217 Shares	48,704	75,251
Old National Bancorp/In	506 Shares	6,555	9,477
Omnicell Inc	153 Shares	6,329	11,816
Pagseguro Digital Ltd-CI A	525 Shares	14,756	12,600

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year (Continued)

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Paypal Holdings Inc	380 Shares	\$ 23,799	\$ 32,608
Pc Connection	192 Shares	5,459	6,017
Progressive Corp	1610 Shares	94,370	106,727
Prologis Inc	262 Shares	16,138	17,643
Prudential Finl Inc	156 Shares	16,742	14,627
Raytheon Co	109 Shares	18,307	19,112
Realpage Inc	101 Shares	6,153	5,210
Restaurant Brands Intl Inc	413 Shares	24,778	24,090
Roper Technologies Inc	62 Shares	14,202	18,451
Ross Stores Inc	60 Shares	3,564	5,256
S&P Global Inc	63 Shares	9,591	11,520
Salesforce.Com Inc	265 Shares	23,021	37,831
SBA Communications Corp	200 Shares	30,105	34,162
Selective Ins Group Inc.	222 Shares	8,643	14,734
Semiconductor Corporation	845 Shares	21,612	16,207
Sensient Tech Corp	129 Shares	8,396	8,290
Sherwin Williams	29 Shares	9,488	12,298
Shopify Inc - A	11 Shares	1,821	1,679
Silicon Motion Technology - ADR	141 Shares	5,651	5,058
South State Corp	113 Shares	7,805	8,199
Southwest Airlines Company	721 Shares	42,908	39,374
Standard Motor Prods	106 Shares	5,223	5,583
Stifel Financial Corp	209 Shares	8,071	10,088
Stryker Corporation	128 Shares	21,855	22,459
Sturm Ruger & Co Inc	91 Shares	4,831	4,879
Summit Materials Inc Cl A	246 Shares	4,524	3,567
Sykes Enterprises Inc	261 Shares	7,889	7,209
Sysco Corp	282 Shares	17,018	19,007
Target Corp	289 Shares	20,665	20,507
Tetra Tech Inc New	166 Shares	5,391	10,119
Thermo Fisher Scientific Inc	86 Shares	13,763	21,461
Tjx Companies	370 Shares	13,443	18,075
Transdigm Group Inc	92 Shares	23,193	33,274
Transunion	224 Shares	13,313	14,464
Umb Financial Corp	111 Shares	6,067	7,511
Union Bankshares Corp	266 Shares	9,275	9,416
Union Pacific Corp.	114 Shares	14,109	17,531

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year (Continued)

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
United Bankshares Inc	320 Shares	\$ 9,718	\$ 11,574
Unitedhealth Group Inc	267 Shares	43,450	75,123
Unitil Corp	83 Shares	4,074	4,208
Vail Resorts Inc.	47 Shares	13,190	13,121
Valero Energy Corp New	200 Shares	18,453	15,980
Varex Imaging Corp	144 Shares	5,375	3,794
Veeva Systems Inc-Class A	132 Shares	10,809	12,693
Verisign Inc.	116 Shares	11,876	18,103
Verisk Analytics Inc CL A	145 Shares	11,702	17,881
Verizon Communications	402 Shares	21,040	24,241
Visa Inc Class A Shares	910 Shares	87,182	128,956
VMWare Inc Class A	161 Shares	19,862	26,942
Vulcan Matls Co	118 Shares	14,029	12,474
Walmart Inc	205 Shares	20,887	20,018
Wells Fargo & Co New	796 Shares	37,146	43,207
Wix.com Ltd	64 Shares	6,498	6,028
Xilinx Inc	239 Shares	17,816	22,103
Zebra Technologies	144 Shares	23,450	25,891
Zoetis Inc	194 Shares	8,149	18,204
Mutual funds:			
PIMCO	Fixed Income Shs (Series C)	272,685	226,520
PIMCO	Fixed Income Shs (Series M)	246,804	232,207
Western Asset	SMASh Series C Fund	128,808	125,146
Western Asset	SMASh Series EC Fund	352,984	323,646
Western Asset	SMASh Series M Fund	383,963	378,594
Corporate Bonds:			
Bank Of America Corp	4.125% Due 01-22-24	34,829	33,625
BP Capital Markets PLC	3.119% Due 05-04-26	17,940	16,817
Citigroup Inc	3.668% Due 07-24-28	27,403	25,551
Enterprise Products Oper	5.700% Due 02-15-42	16,313	16,191
General Electric Capital Corp	5.875% Due 01-14-38	32,256	24,426
Goldman Sachs Group Inc	4.000% Due 03-03-24	26,047	24,901
JPMorgan Chase & Co	4.400% Due 07-22-20	35,669	34,056
Microsoft Corp	4.250% Due 02-06-47	36,770	33,827

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year (Continued)

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Shell International Fin	2.875% Due 05-10-26	\$ 26,996	\$ 25,359
Verizon Communications	5.150% Due 09-15-23	35,335	33,175
Wells Fargo & Company	3.584% Due 05-22-28	27,624	25,618
U.S. government securities:			
FNMA Note	6.250% Due 05-15-29	19,108	17,614
FNMA Note	6.625% Due 11-15-30	18,944	17,189
FNMA Note	1.875% Due 09-24-26	51,338	51,261
US Treasury Note/Bond	2.625% Due 08-31-20	65,680	66,250
US Treasury Note/Bond	2.500% Due 02-15-46	35,182	34,491
US Treasury Note/Bond	2.250% Due 11-15-24	54,851	55,107
US Treasury Note/Bond	2.250% Due 08-15-27	58,267	57,101
US Treasury Note/Bond	2.750% Due 02-15-28	16,669	16,820
US Treasury Note/Bond	3.125% Due 08-15-44	29,799	28,387
US Treasury Note/Bond	3.000% Due 05-15-45	54,411	50,256
US Treasury Note/Bond	2.875% Due 11-15-46	36,265	34,566
US Treasury Note/Bond	2.875% Due 11-15-46	34,845	33,292
Fannie Mae 310151	5.500% Due 11-01-34	5,803	5,542
Fannie Mae 995069	3.500% Due 06-01-47	4,412	4,760
Fannie Mae As0907	3.500% Due 11-01-28	10,157	9,650
Fannie Mae Al5213	4.500% Due 04-01-44	11,261	10,752
Fannie Mae Al7206	4.000% Due 08-01-45	45,397	42,884
Fannie Mae Al7231	3.500% Due 08-01-45	62,901	59,378
Fannie Mae As9829	3.500% Due 06-01-47	4,575	4,352
Fannie Mae Bm1285	4.500% Due 05-01-47	58,635	55,798
Fannie Mae Ma2771	3.000% Due 10-01-46	16,643	15,335
Fannie Mae Ma2960	4.000% Due 04-01-47	4,984	4,793
Fannie Mae Ma3087	3.500% Due 08-01-47	1,878	1,790
Fannie Mae Ma3120	3.500% Due 09-01-47	4,743	4,509
Fannie Mae Ma3148	3.500% Due 10-01-47	3,773	3,603
Fannie Mae Ma3210	3.500% Due 12-01-47	80,237	78,000
Fannie Mae Ma3211	4.000% Due 12-01-47	2,799	2,755
Fannie Mae Ma3305	3.500% Due 03-01-48	2,844	2,815
Fannie Mae Ma3443	4.000% Due 08-01-48	3,983	3,944
Freddie Mac A97046	4.500% Due 02-01-41	9,562	9,909
Freddie Mac A97047	4.500% Due 02-01-41	1,305	1,315
Freddie Mac C09071	4.000% Due 02-01-45	9,193	8,661

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year (Continued)

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Freddie Mac G07961	3.500% Due 03-01-45	\$ 8,788	\$ 8,363
Freddie Mac G08669	4.000% Due 09-01-45	45,363	42,887
Freddie Mac G08682	4.000% Due 12-01-45	1,143	1,092
Freddie Mac G08726	3.000% Due 10-01-46	18,204	16,838
Freddie Mac G08737	3.000% Due 12-01-46	47,142	45,142
Freddie Mac G08747	3.000% Due 02-01-47	10,528	10,094
Freddie Mac G08791	3.000% Due 12-01-47	2,680	2,712
Freddie Mac G60440	3.500% Due 03-01-46	92,556	86,996
Freddie Mac Q44686	4.500% Due 12-01-46	1,552	1,528
Limited Partnerships / Hedge Funds:			
KKR & Co Inc CI A	KKR & Co Inc CI A	10,815	9,466
Short-term investments:			
Cash	Cash	13,619	13,619
UBS Liquid Assets	Liquid asset	111,510	102,295
Total		\$ 7,146,049	\$ 7,494,835

Schedule SB, Line 26 - Schedule of Active Participant Data

December 1, 2017 Valuation

Detroit Ball Bearing Company Union Employees' Retirement Plan

(EIN: 34-0117420 PN: 001)

Attained Age	Years of Credited Service									
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up
Under 25	-	-	-	-	-	-	-	-	-	-
25 to 29	-	-	-	-	-	-	-	-	-	-
30 to 34	-	-	-	-	-	-	-	-	-	-
35 to 39	-	-	-	-	-	-	-	-	-	-
40 to 44	-	-	-	-	-	-	-	-	-	-
45 to 49	-	-	-	-	-	-	-	-	-	-
50 to 54	-	-	-	2 (*)	1 (*)	1 (*)	1 (*)	-	-	-
55 to 59	-	-	-	1 (*)	-	-	2 (*)	2 (*)	1 (*)	-
60 to 64	-	-	2 (*)	1 (*)	2 (*)	1 (*)	-	2 (*)	1 (*)	1 (*)
65 to 69	-	-	-	-	-	-	-	-	-	-
70 & up	-	-	-	-	-	-	-	-	-	-

* Average compensation is not shown since there are fewer than 1,000 active participants in this plan

Appendix B

Statement of Actuarial Assumptions and Methods at Fiscal Year-End

Minimum Funding Annual Interest Rates 24-month segment rates averaged through the end of July 2017 and published in August 2017 (as prescribed by IRC 430) and adjusted to reflect BBA:

- Segment 1 (0 – 5 years) 4.16%
- Segment 2 (5 to 20 years) 5.72%
- Segment 3 (more than 20 years) 6.48%
- Effective Interest Rate 5.86%

Maximum Deductible Annual Interest Rates 24-month segment rates averaged through the end of July 2017 and published in August 2017 (as prescribed by IRC 430) as follows:

- Segment 1 (0 – 5 years) 1.73%
- Segment 2 (5 to 20 years) 3.78%
- Segment 3 (more than 20 years) 4.69%
- Effective Interest Rate 4.01%

Annual Expected Return on Assets Interest Rate for developing Actuarial Value of Assets; limited to third segment rate 7.00%

Rationale: As prescribed by the Plan Sponsor

PBGC Annual Interest Rates 24-month segment rates averaged through the end of July 2017 and published in August 2017 using the Alternative Method (as prescribed by IRC 430) as follows:

- Segment 1 (0 – 5 years) 1.73%
- Segment 2 (5 to 20 years) 3.78%
- Segment 3 (more than 20 years) 4.69%
- Effective Interest Rate 4.01%

Mortality RP-2000 static, non-generational Mortality Table as described in Regulation 1.430(h)(3) projected by Scale AA, to between 7 and 15 years beyond the year of the obligation, male and female, with combined rates for annuitants and nonannuitants as prescribed by IRC 430.

Schedule SB, Part V – Statement of Actuarial Assumptions/Methods
Detroit Ball Bearing Company Union Employees’ Retirement Plan
December 1, 2017 Valuation
EIN/PN: 34-0117420 / 001

Appendix B (Continued)

Rates of Retirement	100% at age 62.																	
	Weighted Average Retirement Age is 62. This is the average retirement age for someone eligible to retire at all ages using the assumed retirement rates and no other decrements.																	
	Rationale: as prescribed by Plan Sponsor.																	
Rates of Disability	1987 Commissioner’s Group Disability table, six month elimination period (males and female).																	
	Rationale: as prescribed by Plan Sponsor.																	
Rates of Turnover	Based on age as follows:																	
	<table><tr><th><u>Attained Age</u></th><th><u>Rate</u></th></tr><tr><td>20</td><td>13.02%</td></tr><tr><td>25</td><td>9.52</td></tr><tr><td>30</td><td>7.07</td></tr><tr><td>35</td><td>5.53</td></tr><tr><td>40</td><td>4.55</td></tr><tr><td>45</td><td>3.85</td></tr><tr><td>50</td><td>3.15</td></tr><tr><td>55</td><td>0.00</td></tr></table>	<u>Attained Age</u>	<u>Rate</u>	20	13.02%	25	9.52	30	7.07	35	5.53	40	4.55	45	3.85	50	3.15	55
<u>Attained Age</u>	<u>Rate</u>																	
20	13.02%																	
25	9.52																	
30	7.07																	
35	5.53																	
40	4.55																	
45	3.85																	
50	3.15																	
55	0.00																	
Assumptions Made In Valuing Spouse’s Benefit	Seventy-five percent of the employees included in the valuation are assumed to be married. These percentages are used as the probabilities that survivor benefits will be payable due to preretirement deaths. The wife is assumed to be three years younger than the husband.																	
Spouse Benefit For Unknown Marital Status	All employees with an unknown marital status are assumed to not be married and their accrued benefit is not reduced for survivor benefit coverage.																	

Appendix B (Continued)

Optional Form Election	All employees are assumed to elect the life annuity benefit. Rationale: as prescribed by Plan Sponsor.
Provision for Expenses	The expected administrative (i.e. non-investment) expenses that will be paid from plan assets, which were assumed to equal actual expenses during the prior year, were included in the Target Normal Cost for minimum contribution purposes.
Standing Elections	The client has not signed an election that provides for the automatic use of the Carryover and/or Prefunding Balance if necessary at the end of the plan year to meet the minimum funding requirement.
Asset Method	Funding: Market Value of Assets plus interest adjusted accrued but unpaid contributions as of the valuation date plus an adjustment to defer full recognition of investment losses and gains over a two-year period. The investment (gain)/loss for every year equals the market value at the beginning of the year projected to the end of the year using the interest rate above, but no greater than the third segment rate for the plan year, minus the end of the year actual market value. The actuarial value of assets will be no less than 90% and no more than 110% of the market value (including interest-adjusted accrued but unpaid contributions). Note that due to the regulatory constraint on the interest rate, a characteristic of this asset valuation method is that, over time, it may be more likely to produce an actuarial value of assets that is less than the market value of assets.
Employees Valued	Only participants as of the valuation date were valued.
Changes in Assumptions and Methods since the Last Actuarial Valuation	The segmented interest rates used for determining the funding target were 4.43%, 5.91% and 6.65%. These rates were updated to the rates required for the current plan year and also reflect HATFA. The mortality table for the funding target was changed as required under PPA '06.
Justification for Changes in Actuarial Assumptions	The only assumption changes were to prescribed actuarial assumptions or as a result of At-Risk status. Therefore, the plan did not need IRS approval to change assumptions and there is no need to disclose any "Change in Actuarial Assumptions."

**SCHEDULE SB
(Form 5500)**Department of the Treasury
Internal Revenue Service
Department of Labor
Employee Benefits Security Administration
Pension Benefit Guaranty Corporation**Single-Employer Defined Benefit Plan
Actuarial Information**

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code).

▶ **File as an attachment to Form 5500 or 5500-SF.**

OMB No. 1210-0110

2017**This Form is Open to Public
Inspection**For calendar plan year 2017 or fiscal plan year beginning 12/01/2017 and ending 11/30/2018▶ **Round off amounts to nearest dollar.**▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan DETROIT BALL BEARING COMPANY UNION EMPLOYEES' RETIREMENT PLAN		B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF APPLIED INDUSTRIAL TECHNOLOGIES		D Employer Identification Number (EIN) 34-0117420	
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B		F Prior year plan size: ☐ 100 or fewer ☒ 101-500 ☐ More than 500	

Part I Basic Information

1 Enter the valuation date: Month <u>12</u> Day <u>01</u> Year <u>2017</u>			
2 Assets:			
a Market value.....		2a	7,741,487
b Actuarial value		2b	7,578,658
3 Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	53	3,616,670	3,616,670
b For terminated vested participants	41	1,529,090	1,529,090
c For active participants	21	2,583,517	2,594,454
d Total	115	7,729,277	7,740,214
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐			
a Funding target disregarding prescribed at-risk assumptions		4a	
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor		4b	
5 Effective interest rate		5	5.86%
6 Target normal cost		6	112,325

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

**SIGN
HERE**

Signature of actuary

AMY L. GENTILE

Type or print name of actuary

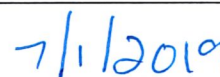
FINDLEY, INC.

Firm name

1660 WEST 2ND STREET, SUITE 900

CLEVELAND OH 44113-1461

Address of the firm



Date

1708186

Most recent enrollment number

216-875-1900

Telephone number (including area code)

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

For Paperwork Reduction Act Notice, see the Instructions for Form 5500 or 5500-SF.

Schedule SB (Form 5500) 2017

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year).....	0	420,701
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	24,340
9 Amount remaining (line 7 minus line 8).....	0	396,361
10 Interest on line 9 using prior year's actual return of <u>13.74%</u>	0	54,460
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year).....		302,107
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>6.06%</u>		16,833
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		3,344
c Total available at beginning of current plan year to add to prefunding balance		322,284
d Portion of (c) to be added to prefunding balance.....		161,644
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12).....	0	612,465

Part III Funding Percentages

14 Funding target attainment percentage	14	90.00%
15 Adjusted funding target attainment percentage.....	15	90.00%
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	89.65%
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
03/05/2019	500,000	0			
Totals ▶			18(b)	500,000	18(c) 0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years.....	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.....	19c	465,445

20 Quarterly contributions and liquidity shortfalls:

- a** Did the plan have a "funding shortfall" for the prior year? ☒ Yes ☐ No
- b** If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☒ Yes ☐ No
- c** If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year

(1) 1st	(2) 2nd	(3) 3rd	(4) 4th
0	0	0	0

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:			
a Segment rates:	1st segment: 4.16 %	2nd segment: 5.72 %	3rd segment: 6.48 %
			☐ N/A, full yield curve used
b Applicable month (enter code).....			21b 4
22 Weighted average retirement age			22 62
23 Mortality table(s) (see instructions)	☒ Prescribed - combined	☐ Prescribed - separate	☐ Substitute

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment	☐ Yes ☒ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment	☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment	☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6)	31a	112,325	
b Excess assets, if applicable, but not greater than line 31a	31b	0	
32 Amortization installments:	Outstanding Balance		Installment
a Net shortfall amortization installment.....	774,021		144,799
b Waiver amortization installment	0		0
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)....	34	257,124	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	0	251,003	251,003
36 Additional cash requirement (line 34 minus line 35).....	36	6,121	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....	37	465,445	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	459,324	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	251,003	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37).....	39	0	
40 Unpaid minimum required contributions for all years	40	0	

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected	☐ 2 plus 7 years ☐ 15 years		
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011		
42 Amount of acceleration adjustment	42		
43 Excess installment acceleration amount to be carried over to future plan years	43		

Schedule SB, line 22 – Description of Weighted Average Retirement Age
Detroit Ball Bearing Company Union Employees' Retirement Plan
December 1, 2017 Valuation
EIN/PN: 34-0117420 / 001

Rates of
Retirement

100% at age 62.

Weighted Average Retirement Age is 62. This is the average retirement age for someone eligible to retire at all ages using the assumed retirement rates and no other decrements.

Rationale: as prescribed by Plan Sponsor.

Appendix A

Summary of Principal Plan Provisions

Plan Sponsor	Applied Industrial Technologies, Inc.
EIN/PN	34-0117420/001
Effective Date	December 28, 1952; restated effective December 1, 2015 and last amended September 1, 2016.
Plan Year	The 12-month period beginning each December 1.
Hour of Service	An hour for which the employee is paid or entitled to payment.
Participation	An employee becomes a participant on the first of the month following completion of 480 Hours of Service. Participation was closed to new entrants effective February 2, 2014.
Vesting Service	One year of vesting service is credited for each Plan Year in which the participant has 1,000 or more Hours of Service. Partial service is not credited for years in which the participant has less than 1,000 Hours of Service.
Credited Service	One year of credited service is credited for each Plan Year in which the participant has 2,080 or more Hours of Service. Partial service is credited for years in which the participant has less than 2,080 Hours of Service. Such partial service is determined by taking Hours of Service and dividing them by 2,080, rounding to the nearest 1/10 th if at least 501 hours.

Benefit Rate	<u>Date of Termination</u>	<u>Benefit Rate</u>
	2/02/1997 – 2/01/1998	\$ 23.00
	2/02/1998 – 2/01/1999	24.00
	2/02/1999 – 2/01/2000	25.00
	2/02/2000 – 2/01/2001	26.00
	2/02/2001 – 2/01/2002	30.00
	2/02/2002 – 2/01/2003	33.00
	2/02/2003 – 6/30/2004	35.00
	7/01/2004 – 2/01/2005	38.00
	2/02/2005 – 2/01/2006	39.00
	2/02/2006 – 2/01/2007	40.00
	2/02/2007 – 2/01/2008	42.00
	2/02/2008 – 1/31/2010	44.00
	2/01/2010 – 2/01/2012	45.00
	2/02/2012 – 2/01/2013	47.00
	2/02/2013 – 2/01/2014	48.00
	2/02/2014 – 2/01/2015	50.00
	2/02/2015 – 2/01/2016	52.00
	2/02/2016 and After	54.00

Appendix A (Continued)

Accrued Benefit A monthly life annuity equal to the participant's years of Credited Service times the applicable Benefit Rate reduced by .25% for each full or partial year in which the participant was eligible for survivor benefit coverage and did not waive said coverage.

Vested Benefit The Accrued Benefit multiplied by the applicable vesting percentage as defined below:

<u>Years of Vesting Service</u>	<u>Percentage</u>
Less Than 1	0 %
1	10
2	20
3	30
4	40
5	60
6	80
7 or more	100

Normal Retirement Benefit Eligibility:

Age 62 and 5 years of plan participation.

Monthly Benefit:

The Accrued Benefit.

Early Retirement Benefit Eligibility:

Age 60 and 10 years of Vesting Service.

Monthly Benefit:

The Accrued Benefit at early retirement reduced by 5/9 of 1% for each month retirement precedes age 62.

Termination Benefit Eligibility:

Upon termination of employment prior to retirement after completion of at least one year of Vesting Service.

Monthly Benefit:

The Vested Benefit commences in full at age 62, or in a reduced amount under the early retirement provisions if eligible.

Appendix A (Continued)

Late Retirement Benefit

Eligibility:

Retirement after age 62.

Monthly Benefit:

The greater of the Accrued Benefit at the participant's Late Retirement Date and the Accrued Benefit at the participant's Normal Retirement Date actuarially increased.

Death Benefit

Eligibility:

One Year of Vesting Service, married for at least one year, and coverage was not waived.

Monthly Benefit:

A benefit commencing at the time the participant would have been eligible for retirement. The benefit is equal to 55% of the Vested Benefit on the date of death, adjusted as appropriate for early commencement and the 55% Joint and Survivor Annuity form of payment.

Benefits Available as Lump Sums

This plan pays only small benefit amounts (lump sums less than \$1,000).

Terminated Vested participants as of June 30, 2016, with present values under \$40,000 as of November 1, 2016, were given the opportunity to take a lump sum distribution from September 1, 2016 through November 30, 2016. Any participant who did not choose the lump sum or who chose the lump sum but whose election was disallowed due to the Window Maximum (the maximum aggregate amount available for lump-sum distributions) of \$460,000 being reached (where priority was assigned according to the value of the lump sum with highest the lump sum value having the lowest priority) will receive an annuity.

Optional Forms Of Payment

Life Annuity
50% Joint and Survivor
55% Joint and Survivor
66 2/3% Joint and Survivor
75% Joint and Survivor
100% Joint and Survivor
5 Year Certain and Continuous
10 Year Certain and Continuous
15 Year Certain and Continuous
Social Security Level Income

Schedule SB, Part V – Summary of Plan Provisions
Detroit Ball Bearing Company Union Employees' Retirement Plan
December 1, 2017 Valuation
EIN/PN: 34-0117420 / 001

Appendix A (Continued)

Optional Forms of Payment (Continued)	Optional form conversion factors are based on 1994 GAR mortality table and 7.0% interest.
Maximum Benefit Limit	The Internal Revenue Code Section 415 Maximum Benefit payable as a life annuity at Social Security Normal Retirement Age.
Changes in Plan Provisions	None.

Detroit Ball Bearing Company Union Employees' Retirement Plan

Financial Report
November 30, 2018

Detroit Ball Bearing Company Union Employees' Retirement Plan

Contents

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Independent Auditor's Report

To the Plan Administrator
Detroit Ball Bearing Company
Union Employees' Retirement Plan

Report on the Financial Statements

We were engaged to audit the accompanying financial statements of Detroit Ball Bearing Company Union Employees' Retirement Plan (the "Plan"), which comprise the statement of net assets available for benefits as of November 30, 2018 and 2017, the related statement of changes in net assets available for benefits for the years then ended, the statement of accumulated plan benefits as of November 30, 2017, and the related statement of changes in accumulated plan benefits for the year then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on conducting the audits in accordance with auditing standards generally accepted in the United States of America. Because of the matter described in the *Basis for Disclaimer of Opinion* paragraph, however, we were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion.

Basis for Disclaimer of Opinion

As permitted by 29 CFR 2520.103-8 of the Department of Labor's (DOL) Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 (ERISA), the plan administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the information summarized in Note 3, which was certified by Matrix Trust Company (Matrix), except for comparing such information with the related information included in the financial statements. We have been informed by the plan administrator that Matrix holds the Plan's investment assets and executes related transactions. The plan administrator has obtained certifications from Matrix as of and for the years ended November 30, 2018 and 2017 that the information provided to the plan administrator by Matrix is complete and accurate.

Disclaimer of Opinion

Because of the significance of the matter described in the *Basis for Disclaimer of Opinion* paragraph, we have not been able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion. Accordingly, we do not express an opinion on these financial statements.

Other Matter

The supplemental schedule of the assets held at end of year as of November 30, 2018 is required by the DOL's Rules and Regulations for Reporting and Disclosure under ERISA and is presented for the purpose of additional analysis and is not a required part of the financial statements. Because of the significance of the matter described in the *Basis for Disclaimer of Opinion* paragraph, we do not express an opinion on this supplemental schedule.

To the Plan Administrator
Detroit Ball Bearing Company
Union Employees' Retirement Plan

Report on Form and Content in Compliance with DOL Rules and Regulations

The form and content of the information included in the financial statements and supplemental schedule, other than that derived from the information certified by Matrix, have been audited by us in accordance with auditing standards generally accepted in the United States of America and, in our opinion, are presented in compliance with the DOL's Rules and Regulations for Reporting and Disclosure under ERISA.

Plante & Moreau, PLLC

Cleveland, Ohio
August 14, 2019

Detroit Ball Bearing Company Union Employees' Retirement Plan

Statement of Net Assets Available for Benefits

		November 30, 2018 and 2017	
		<u>2018</u>	<u>2017</u>
Assets			
Investments at fair value:			
Short-term investments	\$	115,914	\$ 149,068
Common stock		4,781,265	4,332,463
U.S. government, corporate, and foreign debt securities		1,302,077	1,400,867
Mutual funds		1,286,113	1,366,767
Limited partnership		9,466	-
		<u>7,494,835</u>	<u>7,249,165</u>
Total investments at fair value			
		7,494,835	7,249,165
Contributions receivable		<u>500,000</u>	<u>500,000</u>
Net Assets Available for Benefits	\$	<u>7,994,835</u>	<u>\$ 7,749,165</u>

Detroit Ball Bearing Company Union Employees' Retirement Plan

Statement of Changes in Net Assets Available for Benefits

Years Ended November 30, 2018 and 2017

	<u>2018</u>	<u>2017</u>
Additions to Net Assets		
Contributions	\$ 500,000	\$ 963,347
Investment income:		
Interest and dividends	173,334	177,784
Net realized and unrealized gains on investments	<u>5,052</u>	<u>725,747</u>
Total investment income	178,386	903,531
Other additions - Other income	<u>30</u>	<u>786</u>
Total additions to net assets	678,416	1,867,664
Deductions from Net Assets		
Benefits paid directly to participants or beneficiaries	323,171	328,444
Administrative expenses	<u>109,575</u>	<u>111,172</u>
Total deductions from net assets	<u>432,746</u>	<u>439,616</u>
Net Increase	245,670	1,428,048
Net Assets Available for Benefits		
Beginning of year	<u>7,749,165</u>	<u>6,321,117</u>
End of year	<u><u>\$ 7,994,835</u></u>	<u><u>\$ 7,749,165</u></u>

Detroit Ball Bearing Company Union Employees' Retirement Plan

Statement of Accumulated Plan Benefits

November 30, 2017

Actuarial Present Value of Accumulated Plan Benefits

Vested benefits:

Participants currently receiving benefit payments	\$ 3,275,843
Inactive participants with deferred benefits	<u>3,608,744</u>
Total vested benefits	6,884,587

Nonvested benefits	<u>12,477</u>
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Total Actuarial Present Value of Accumulated Plan Benefits	<u>\$ 6,897,064</u>
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Detroit Ball Bearing Company Union Employees' Retirement Plan

Statement of Changes in Accumulated Plan Benefits

Year Ended November 30, 2017

Actuarial Present Value of Accumulated Plan Benefits - Beginning of year	\$ 6,796,641
(Decrease) increase during the year attributable to:	
Benefits accumulated	(35,597)
Interest due to the decrease in the discount period	464,464
Benefits paid	<u>(328,444)</u>
Net increase	<u>100,423</u>
Actuarial Present Value of Accumulated Plan Benefits - End of year	<u>\$ 6,897,064</u>

Detroit Ball Bearing Company Union Employees' Retirement Plan

Notes to Financial Statements

November 30, 2018 and 2017

Note 1 - Plan Description

The following description of Detroit Ball Bearing Company Union Employees' Retirement Plan (the "Plan") provides only general information. Participants should refer to the plan agreement for a more complete description of the Plan's provisions.

General

The Plan is a defined benefit plan sponsored by Applied Industrial Technologies - DBB, Inc. (the "Company") and collectively bargained with the Truck Drivers Local Union No. 299 affiliated with the International Brotherhood of Teamsters, Chauffeurs, Warehousemen, and Helpers of America. The Plan was established on December 28, 1952 and is a noncontributory pension plan. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA).

Plan Operations

Under a trust agreement, Matrix Trust Company (the "Trustee") was appointed trustee of the Plan. In accordance with the powers and duties of the Trustee, as designated by the Company, the Trustee administers the Plan in accordance with the orders of the investment committee and invests the Plan's assets and income, as directed by the Plan's investment manager (UBS Financial Services). Costs of administering the Plan are paid by the Plan or the Company, as determined by the Company, subject to limitations under ERISA. For the year ended November 30, 2018, the Plan paid all plan expenses.

Eligibility and Vesting

The Plan was frozen to new participants beginning on February 1, 2014. All employees who are covered under the terms of the collective bargaining agreement who have completed 480 hours of service, as defined by the Plan, and started with the Company prior to February 1, 2014 are eligible to participate in the Plan. The Plan provides for vesting of accrued benefits as follows:

<u>Vesting Service (Whole Years)</u>	<u>Vesting Percentage</u>
Less than 1	- %
1	10.00 %
2	20.00 %
3	30.00 %
4	40.00 %
5	60.00 %
6	80.00 %
7 or more	100.00 %

Pension Benefits

The Plan provides for payment upon normal retirement, early retirement, late retirement, termination, and death of its participants. Normal retirement benefits commence at age 62 and five years of plan participation. Participants who have completed 10 years of service may elect to retire early following the attainment of age 60. In such an event, the participant's monthly benefit shall be reduced by a certain percentage for each month that the participant's early retirement date precedes his or her normal retirement date. Upon termination of employment prior to retirement following at least one year of vested service, a participant is entitled to receive a full retirement benefit commencing at age 62, or in a reduced amount under the early retirement provisions. Death benefits commence at the time the participant would have been eligible for retirement. The monthly benefit is equal to 55 percent of the vested benefit on the date of death.

In addition, a participant may alternatively elect the options of a life annuity, as follows: 50, 66 2/3, or 100 percent joint and survivor benefit; 5-, 10-, or 15-year certain and continuous benefit; or Social Security level income benefit.

November 30, 2018 and 2017

Note 1 - Plan Description (Continued)

The normal retirement benefit is based on the participant's years of credited service. The number of years of credited service is multiplied by the benefit unit in effect on the participant's last day of employment. One year of credited service is earned for each plan year in which the participant has 2,080 or more hours of service. Partial service is determined by taking hours of service and dividing them by 2,080, rounding to the nearest one-tenth if the total is at least 501 hours. Benefit rates per hour of credited service range from \$23 for individuals retired prior to February 1, 1998 to \$54 for retirements after February 2, 2016. As of February 26, 2018, the plan was amended to freeze participation and benefit accruals for all employees and participants on and after April 16, 2018, which is not reflected in the actuarial valuation report as of November 30, 2017.

Funding Policy

Contributions are made by the Company in actuarially determined amounts. The Company's policy is to make contributions necessary to satisfy ERISA funding standards. Annual contributions meet the minimum funding requirements of ERISA.

Note 2 - Summary of Significant Accounting Policies

Investment Valuation and Income Recognition

The Plan's investments are stated at fair value. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 6 for further discussion of fair value measurements.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded as earned. Dividends are recorded on the ex-dividend date.

Actuarial Present Value of Accumulated Plan Benefits

Accumulated plan benefits are those future periodic payments that are attributable, under the Plan's provisions, to the service employees have rendered. These include benefits expected to be paid to:

- (a) Retired or terminated employees or their beneficiaries
- (b) Beneficiaries of employees who have died
- (c) Present employees or their beneficiaries

Benefits payable under all circumstances - retirement, death, disability, and termination of employment - are included to the extent they are deemed attributable to employee service rendered to the valuation date. Benefits provided via annuity contracts are deducted from plan assets and from accumulated plan benefits.

Actuarial Assumptions

The actuarial present value of accumulated plan benefits is determined by an actuary from Findley Davies and is the amount that results from applying actuarial assumptions to adjust the accumulated plan benefits to reflect the time value of money and probability of payment between the valuation date and the expected date of payment.

Detroit Ball Bearing Company Union Employees' Retirement Plan

Notes to Financial Statements

November 30, 2018 and 2017

Note 2 - Summary of Significant Accounting Policies (Continued)

The significant actuarial assumptions used in the valuation of the Plan at November 30, 2017 are summarized as follows:

Actuarial cost method	Unit credit
Assumed rate of return	7.0 percent per annum
Mortality basis	MP-2014 scale for 2007 and converges linearly to the ultimate long-term improvement scale over 10 years, reaching that scale in 2017
Assumed retirement age	Age 62

In addition, 75 percent of participants were assumed to be married, with the wife assumed to be three years younger than the husband. Preretirement rates of turnover ranged from 13.02 percent at age 20, decreasing to 3.15 percent at age 50, and 0.0 percent at age 55.

The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Were the Plan to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated plan benefits.

Payment of Benefits

Benefits are recorded when paid.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of additions and deductions during the reporting period. Actual results could differ from those estimates.

Risks and Uncertainties

Contributions to the Plan and the actuarial present value of accumulated plan benefits are reported based on certain assumptions pertaining to interest rates, inflation rates, and demographics. Due to the changing nature of these assumptions, it is at least reasonably possible that changes in these assumptions will occur in the near term and, due to the uncertainties inherent in setting assumptions, that the effect of such changes could be material to the financial statements. Investment securities are exposed to various risks, such as interest rate, market, and credit risks. It is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the financial statements.

Subsequent Events

The financial statements and related disclosures include evaluation of events up through and including August 14, 2019, which is the date the financial statements were available to be issued.

Note 3 - Unaudited Information

Matrix Trust Company (Matrix) holds the Plan's investments and executes all investment transactions. The investment balances and related investment income and losses included in the accompanying financial statements and supplemental schedule of assets held at end of year are based solely on information certified by Matrix.

November 30, 2018 and 2017

Note 4 - Plan Termination

Should the Plan terminate at some future time, its net assets generally will not be available on a pro rata basis to provide participants' benefits. Whether a particular participant's accumulated plan benefits will be paid depends on both the priority of those benefits and the level of benefits guaranteed by the Pension Benefit Guaranty Corporation (PBGC) at that time. Some benefits may be fully or partially provided for by the then-existing assets and the PBGC guarantee, while other benefits may not be provided for at all.

Note 5 - Tax Status

The Plan has received a determination letter from the Internal Revenue Service indicating that the Plan, as designed, is qualified for tax-exempt treatment under the applicable section of the Internal Revenue Code (IRC). Although the Plan has been amended since receiving the determination letter, management believes that the Plan is designed and is currently being operated in compliance with the applicable requirements of the IRC.

Note 6 - Fair Value Measurements

Accounting standards require certain assets and liabilities be reported at fair value in the financial statements and provide a framework for establishing that fair value. The framework for determining fair value is based on a hierarchy that prioritizes the valuation techniques and inputs used to measure fair value.

The following tables present information about the Plan's assets measured at fair value on a recurring basis at November 30, 2018 and 2017.

Fair values determined by Level 1 inputs use quoted prices in active markets for identical assets that the Plan has the ability to access.

Fair values determined by Level 2 inputs use other inputs that are observable, either directly or indirectly. These Level 2 inputs include quoted prices for similar assets in active markets, quoted prices for identical or similar assets in markets that are not active, and inputs other than quoted prices that are observable for the asset.

Level 3 inputs are unobservable inputs, including inputs that are available in situations where there is little, if any, market activity for the related asset. These Level 3 fair value measurements are based primarily on management's own estimates using pricing models, discounted cash flow methodologies, or similar techniques taking into account the characteristics of the asset.

In instances whereby inputs used to measure fair value fall into different levels of the fair value hierarchy, fair value measurements in their entirety are categorized based on the lowest level input that is significant to the valuation. The Plan's assessment of the significance of particular inputs to these fair value measurements requires judgment and considers factors specific to each asset.

The following valuation methodologies have been used to value the Plan's investments:

Mutual Funds

Mutual funds are valued at quoted prices reported in active markets.

Common Stock

Common stocks are valued at quoted prices reported in active markets.

Short-term Investments

The fair value of these investments, which is primarily interest-bearing cash, is based on their outstanding balances.

Detroit Ball Bearing Company Union Employees' Retirement Plan

Notes to Financial Statements

November 30, 2018 and 2017

Note 6 - Fair Value Measurements (Continued)

U.S. Government, Corporate, and Foreign Debt Securities

The U.S. government, corporate, and foreign debt securities are valued using quoted market prices and/or other market data for the same or comparable instruments and transactions in establishing the prices, discounted cash flow models, and other pricing models. These models are primarily industry standard models that consider various assumptions, including time value and yield curve, as well as other relevant economic measures. Mortgages are valued based on the future principal and interest payments discounted at prevailing interest rates and similar investments.

Limited Partnership

Investments in limited partnerships are valued at quoted prices reported in active markets.

Assets Measured at Fair Value on a Recurring Basis at November 30, 2018				
	Balance at November 30, 2018	Level 1	Level 2	Level 3
Mutual funds	\$ 1,286,113	\$ 1,286,113	\$ -	\$ -
Common stock	4,781,265	4,781,265	-	-
Short-term investments	115,914	115,914	-	-
U.S. government, corporate, and foreign debt securities	1,302,077	-	1,302,077	-
Partnerships/Joint venture interest	9,466	9,466	-	-
Total	<u>\$ 7,494,835</u>	<u>\$ 6,192,758</u>	<u>\$ 1,302,077</u>	<u>\$ -</u>

Assets Measured at Fair Value on a Recurring Basis at November 30, 2017				
	Balance at November 30, 2017	Level 1	Level 2	Level 3
Mutual funds	\$ 1,366,767	\$ 1,366,767	\$ -	\$ -
Common stock	4,332,463	4,332,463	-	-
Short-term investments	149,068	149,068	-	-
U.S. government, corporate, and foreign debt securities	1,400,867	-	1,400,867	-
Total	<u>\$ 7,249,165</u>	<u>\$ 5,848,298</u>	<u>\$ 1,400,867</u>	<u>\$ -</u>

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Common Stock Shares:			
Abbott Laboratories	576 Shares	\$ 37,108	\$ 42,653
Abbvie Inc	172 Shares	17,010	16,214
Abiomed Inc	29 Shares	9,506	9,648
Adobe Inc	110 Shares	19,341	27,598
Agilent Technologies	455 Shares	31,743	32,919
Agree Realty Corp	104 Shares	5,636	6,195
Air Products & Chemicals Inc	79 Shares	11,617	12,709
Albemarle Corp	408 Shares	39,893	39,299
Align Technology Inc.	61 Shares	19,175	14,023
Alleghany Corp	69 Shares	42,506	43,541
Allison Transmission Holding	398 Shares	20,620	18,750
Alphabet Inc CL A	34 Shares	27,627	37,728
Alphabet Inc CL C	115 Shares	117,051	125,859
Altria Group Inc	663 Shares	44,410	36,352
Amazon Com Inc	46 Shares	35,125	77,748
Ambarella Inc	132 Shares	7,357	5,279
Amerco	11 Shares	4,175	3,811
American Tower REIT Inc	294 Shares	40,241	48,360
American Wood Mark Corp	109 Shares	9,884	7,291
Amgen Inc	86 Shares	16,267	17,910
Amn Healthcare Services	265 Shares	9,438	16,881
Angiodynamics Inc.	243 Shares	5,555	5,222
Anixter Intl Inc	112 Shares	5,783	7,164
Ansys Inc.	77 Shares	13,347	12,476
Aon PLC	72 Shares	10,117	11,888
Apple Inc	547 Shares	87,347	97,683
Applied Industrial Tech Inc	279 Shares	20,271	18,199
Arch Cap Group Ltd Ord	422 Shares	12,805	12,078
Argo Group International Holdings	126 Shares	6,944	8,734
Asml Holding Nv	65 Shares	10,043	11,138
Autodesk Inc	108 Shares	12,188	15,606
Automatic Data Processing	139 Shares	16,188	20,491
Avery Dennison Corp	195 Shares	22,419	18,798
Balchem Corp	93 Shares	6,234	8,063
Bank Of America Corp	1452 Shares	43,298	41,237
Barnes Group Inc	152 Shares	5,981	9,128
Baxter Intl Inc	288 Shares	19,289	19,742

Detroit Ball Bearing Company Union Employees' Retirement Plan**Schedule of Assets Held at End of Year (Continued)**

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Becton Dickinson & Co	77 Shares	\$ 16,282	\$ 19,462
Benchmark Electronics Inc	250 Shares	7,083	5,960
Berkshire Hathaway Inc Cl B	483 Shares	92,289	105,410
Big Lots Inc	137 Shares	5,635	5,968
Black Knight Inc	336 Shares	15,647	15,234
Blackrock 2001 Term Tr Inc	109 Shares	40,581	46,653
Boeing Company	85 Shares	26,743	29,475
Booking Holdings Inc	6 Shares	8,292	11,351
Bristol-Myers Squibb Co	466 Shares	31,402	24,912
Brookfield Asset Management Inc	820 Shares	32,179	35,982
Brown & Brown Inc	361 Shares	8,711	10,476
Brown Forman Corp CL B	82 Shares	3,635	3,913
Caci International	71 Shares	7,555	11,709
Calamp Corp	397 Shares	6,786	7,027
Callon Petroleum Co	921 Shares	9,957	7,875
Cambrex Corp	137 Shares	7,024	6,553
Carmax Inc	1113 Shares	71,120	73,536
Carnival Corp.	912 Shares	48,779	54,984
Carolina Financial Corp	219 Shares	8,972	7,525
Carpenter Technologies Delaware	150 Shares	5,496	6,462
Carrizo Oil & Gas Inc	387 Shares	7,491	6,622
CBRE Group Inc	379 Shares	13,934	16,555
CDK Global Inc	89 Shares	5,633	4,486
Centene Corp	155 Shares	15,650	22,049
Centerpoint Energy Inc	575 Shares	15,390	16,106
Chevron Corp	381 Shares	39,581	45,316
Cisco Systems Inc	1341 Shares	46,105	64,194
Citizens Financial Group	433 Shares	19,737	15,744
Coca-Cola Company	526 Shares	23,732	26,510
Colfax Corp	331 Shares	13,131	8,255
Columbia Bkg Sys Inc.	158 Shares	6,329	6,427
Copart Inc	284 Shares	9,965	14,535
Costar Group Inc	34 Shares	6,116	12,559
Costco Wholesale Corp-New	103 Shares	18,916	23,822
Cts Corp.	187 Shares	6,667	5,425
Cummins Inc	108 Shares	17,212	16,314
Dave & Buster's Entertainment	104 Shares	4,714	5,913

Detroit Ball Bearing Company Union Employees' Retirement Plan**Schedule of Assets Held at End of Year (Continued)**

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Deere & Co.	124 Shares	\$ 19,909	\$ 19,205
Dollar General Corp	95 Shares	7,979	10,544
Dollar Tree Inc	631 Shares	64,527	54,752
Dorman Products Inc	136 Shares	8,321	11,949
Easterly Government Properti	563 Shares	10,922	10,258
Echostar Corp	30 Shares	1,754	1,255
Electronic Arts	157 Shares	17,869	13,199
Emcor Group Inc	225 Shares	17,422	16,394
Emergent Biosolutions Inc	53 Shares	2,809	3,861
Encompass Health Corp	261 Shares	20,590	19,630
Equinix Inc	21 Shares	9,719	8,091
Evercore Inc CL A	181 Shares	19,236	14,943
Exlservice Holdings Inc	153 Shares	7,225	8,868
Expedia Group Inc	96 Shares	11,514	11,596
Exxon-Mobil Corporation	171 Shares	12,748	13,595
Fastenal Co	92 Shares	4,139	5,452
Fedex Corp	163 Shares	40,394	37,327
Ferrari NV	156 Shares	18,122	17,098
Fidelity National Information	145 Shares	11,380	15,653
First Republic Bank/San Fran	163 Shares	15,850	16,161
Fiserv Inc.	241 Shares	13,961	19,070
FNF Group	460 Shares	15,914	15,456
Fortive Corp	200 Shares	11,701	15,214
Forward Air Corp	182 Shares	8,091	11,881
Franklin Electric Inc.	182 Shares	6,232	8,236
Gartner Inc	180 Shares	22,451	27,574
GCI Liberty Inc - Class A	123 Shares	7,422	5,888
General Dynamics Corp	201 Shares	33,834	37,163
GoDaddy Inc - Class A	206 Shares	12,365	13,444
Granite Construction Inc	191 Shares	8,886	9,670
Great Western Bancorp Inc	161 Shares	6,472	6,009
Guidewire Software Inc	76 Shares	7,323	7,065
HD Supply Holdings Inc	34 Shares	1,139	1,357
Heico Corp New CI A	25 Shares	1,654	1,688
Hilton Worldwide Holdings Inc	201 Shares	15,675	15,184
Home Depot Incorporated	354 Shares	62,099	63,833
Honeywell International	119 Shares	12,627	17,463

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year (Continued)

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Howard Hughes Corp/The	77 Shares	\$ 9,021	\$ 8,529
HP Inc	867 Shares	20,691	19,941
Huntsman Corp	626 Shares	18,489	12,658
Hyatt Hotels Corp CL A	97 Shares	7,306	6,917
Idacorp Inc.	117 Shares	8,644	11,494
Idexx Laboratories Inc	12 Shares	2,900	2,445
IHS Markit LTD	298 Shares	14,108	15,904
Illumina Inc	59 Shares	11,413	19,913
Integra Life Sciences Holdings Corp	185 Shares	6,677	9,922
Intel Corporation	364 Shares	18,667	17,949
Intercontinental Exchange Inc	293 Shares	19,279	23,944
Intuit	116 Shares	15,635	24,885
Intuitive Surgical	37 Shares	19,493	19,642
Jabil Inc	585 Shares	16,055	14,607
Johnson & Johnson	131 Shares	16,877	19,244
JPMorgan Chase & Co	217 Shares	20,180	24,128
K Force Inc	221 Shares	5,257	7,003
Kar Auction Services Inc	87 Shares	4,421	4,971
Kennedy-Wilson Holdings Inc	369 Shares	7,652	7,229
Lear Corp	117 Shares	21,885	15,941
Lennar Corp	146 Shares	7,569	6,239
LHC Group Inc.	112 Shares	6,169	11,745
Liberty Broadband - A	45 Shares	4,539	3,831
Liberty Broadband - C	68 Shares	6,888	5,770
Liberty Expedia Holdings Ser A	60 Shares	3,170	2,515
Liberty Global PLC	119 Shares	4,044	2,955
Liberty Global PLC Series C	235 Shares	7,745	5,708
Liberty Media Group Liberty Formula One A	22 Shares	821	634
Liberty Media Group Liberty Formula One C	283 Shares	10,567	8,439
Liberty Sirius Group - C	158 Shares	6,783	6,339
Liberty SiriusXM Group	71 Shares	3,052	2,825
Linde PLC	131 Shares	21,193	20,836
Littelfuse Inc.	41 Shares	5,683	7,845
Lowes Co Inc	462 Shares	41,030	43,599
Ltc Properties Inc	186 Shares	8,689	8,638

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year (Continued)

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Lydall Inc	157 Shares	\$ 6,947	\$ 3,474
M&T Bank Corp	32 Shares	4,669	5,408
Macy's Inc	594 Shares	17,730	20,327
Marathon Petroleum Corp	238 Shares	18,602	15,508
Marcus & Millichap Inc	278 Shares	7,340	10,144
Markel Corp.	25 Shares	25,938	28,604
Martin Marietta Materials	310 Shares	63,454	59,114
Masimo Corporation	51 Shares	2,772	5,631
Mastercard Inc A	174 Shares	18,035	34,986
Matador Resources Co	412 Shares	9,333	9,394
Mercantile Bank Corp	164 Shares	5,636	5,238
Methode Electronics Inc	196 Shares	6,578	5,939
Mettler Toledo Intl	15 Shares	8,503	9,550
Microchip Technology	153 Shares	12,941	11,475
Microsoft Corporation	1023 Shares	76,453	113,440
Mohawk Ind	45 Shares	11,450	5,763
Moody's Corp	213 Shares	28,059	33,882
Motorola Solutions Inc	38 Shares	3,247	4,988
MSCI Inc	33 Shares	4,352	5,184
MSG Networks Inc	278 Shares	6,390	7,445
Mts Systems Corp	186 Shares	9,613	9,570
Multi-Color Corp	131 Shares	7,083	5,816
Navigant Consulting Com (NSRGY)	358 Shares 518 Shares	6,085 43,426	9,172 44,144
Netapp Inc	350 Shares	22,209	23,405
Netflix Inc	83 Shares	20,994	23,749
Newmarket Corp	94 Shares	37,141	39,525
Nexstar Media Group Inc	132 Shares	7,749	10,908
Nike Inc.	407 Shares	25,941	30,574
Norfolk Southern Co.	355 Shares	35,200	60,613
Northern Trust Corp	181 Shares	20,216	17,961
Northrop Grumman Corp	135 Shares	41,622	35,084
Nvidia Corp	186 Shares	40,461	30,398
O Reilly Automotive Inc	217 Shares	48,704	75,251
Old National Bancorp/In	506 Shares	6,555	9,477
Omnicell Inc	153 Shares	6,329	11,816
Pagseguro Digital Ltd-CI A	525 Shares	14,756	12,600

Detroit Ball Bearing Company Union Employees' Retirement Plan**Schedule of Assets Held at End of Year (Continued)**

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Paypal Holdings Inc	380 Shares	\$ 23,799	\$ 32,608
Pc Connection	192 Shares	5,459	6,017
Progressive Corp	1610 Shares	94,370	106,727
Prologis Inc	262 Shares	16,138	17,643
Prudential Finl Inc	156 Shares	16,742	14,627
Raytheon Co	109 Shares	18,307	19,112
Realpage Inc	101 Shares	6,153	5,210
Restaurant Brands Intl Inc	413 Shares	24,778	24,090
Roper Technologies Inc	62 Shares	14,202	18,451
Ross Stores Inc	60 Shares	3,564	5,256
S&P Global Inc	63 Shares	9,591	11,520
Salesforce.Com Inc	265 Shares	23,021	37,831
SBA Communications Corp	200 Shares	30,105	34,162
Selective Ins Group Inc.	222 Shares	8,643	14,734
Semiconductor Corporation	845 Shares	21,612	16,207
Sensient Tech Corp	129 Shares	8,396	8,290
Sherwin Williams	29 Shares	9,488	12,298
Shopify Inc - A	11 Shares	1,821	1,679
Silicon Motion Technology - ADR	141 Shares	5,651	5,058
South State Corp	113 Shares	7,805	8,199
Southwest Airlines Company	721 Shares	42,908	39,374
Standard Motor Prods	106 Shares	5,223	5,583
Stifel Financial Corp	209 Shares	8,071	10,088
Stryker Corporation	128 Shares	21,855	22,459
Sturm Ruger & Co Inc	91 Shares	4,831	4,879
Summit Materials Inc Cl A	246 Shares	4,524	3,567
Sykes Enterprises Inc	261 Shares	7,889	7,209
Sysco Corp	282 Shares	17,018	19,007
Target Corp	289 Shares	20,665	20,507
Tetra Tech Inc New	166 Shares	5,391	10,119
Thermo Fisher Scientific Inc	86 Shares	13,763	21,461
Tjx Companies	370 Shares	13,443	18,075
Transdigm Group Inc	92 Shares	23,193	33,274
Transunion	224 Shares	13,313	14,464
Umb Financial Corp	111 Shares	6,067	7,511
Union Bankshares Corp	266 Shares	9,275	9,416
Union Pacific Corp.	114 Shares	14,109	17,531

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year (Continued)

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
United Bankshares Inc	320 Shares	\$ 9,718	\$ 11,574
Unitedhealth Group Inc	267 Shares	43,450	75,123
Unitil Corp	83 Shares	4,074	4,208
Vail Resorts Inc.	47 Shares	13,190	13,121
Valero Energy Corp New	200 Shares	18,453	15,980
Varex Imaging Corp	144 Shares	5,375	3,794
Veeva Systems Inc-Class A	132 Shares	10,809	12,693
Verisign Inc.	116 Shares	11,876	18,103
Verisk Analytics Inc CL A	145 Shares	11,702	17,881
Verizon Communications	402 Shares	21,040	24,241
Visa Inc Class A Shares	910 Shares	87,182	128,956
VMWare Inc Class A	161 Shares	19,862	26,942
Vulcan Matls Co	118 Shares	14,029	12,474
Walmart Inc	205 Shares	20,887	20,018
Wells Fargo & Co New	796 Shares	37,146	43,207
Wix.com Ltd	64 Shares	6,498	6,028
Xilinx Inc	239 Shares	17,816	22,103
Zebra Technologies	144 Shares	23,450	25,891
Zoetis Inc	194 Shares	8,149	18,204
Mutual funds:			
PIMCO	Fixed Income Shs (Series C)	272,685	226,520
PIMCO	Fixed Income Shs (Series M)	246,804	232,207
Western Asset	SMASh Series C Fund	128,808	125,146
Western Asset	SMASh Series EC Fund	352,984	323,646
Western Asset	SMASh Series M Fund	383,963	378,594
Corporate Bonds:			
Bank Of America Corp	4.125% Due 01-22-24	34,829	33,625
BP Capital Markets PLC	3.119% Due 05-04-26	17,940	16,817
Citigroup Inc	3.668% Due 07-24-28	27,403	25,551
Enterprise Products Oper	5.700% Due 02-15-42	16,313	16,191
General Electric Capital Corp	5.875% Due 01-14-38	32,256	24,426
Goldman Sachs Group Inc	4.000% Due 03-03-24	26,047	24,901
JPMorgan Chase & Co	4.400% Due 07-22-20	35,669	34,056
Microsoft Corp	4.250% Due 02-06-47	36,770	33,827

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year (Continued)

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Shell International Fin	2.875% Due 05-10-26	\$ 26,996	\$ 25,359
Verizon Communications	5.150% Due 09-15-23	35,335	33,175
Wells Fargo & Company	3.584% Due 05-22-28	27,624	25,618
U.S. government securities:			
FNMA Note	6.250% Due 05-15-29	19,108	17,614
FNMA Note	6.625% Due 11-15-30	18,944	17,189
FNMA Note	1.875% Due 09-24-26	51,338	51,261
US Treasury Note/Bond	2.625% Due 08-31-20	65,680	66,250
US Treasury Note/Bond	2.500% Due 02-15-46	35,182	34,491
US Treasury Note/Bond	2.250% Due 11-15-24	54,851	55,107
US Treasury Note/Bond	2.250% Due 08-15-27	58,267	57,101
US Treasury Note/Bond	2.750% Due 02-15-28	16,669	16,820
US Treasury Note/Bond	3.125% Due 08-15-44	29,799	28,387
US Treasury Note/Bond	3.000% Due 05-15-45	54,411	50,256
US Treasury Note/Bond	2.875% Due 11-15-46	36,265	34,566
US Treasury Note/Bond	2.875% Due 11-15-46	34,845	33,292
Fannie Mae 310151	5.500% Due 11-01-34	5,803	5,542
Fannie Mae 995069	3.500% Due 06-01-47	4,412	4,760
Fannie Mae As0907	3.500% Due 11-01-28	10,157	9,650
Fannie Mae Al5213	4.500% Due 04-01-44	11,261	10,752
Fannie Mae Al7206	4.000% Due 08-01-45	45,397	42,884
Fannie Mae Al7231	3.500% Due 08-01-45	62,901	59,378
Fannie Mae As9829	3.500% Due 06-01-47	4,575	4,352
Fannie Mae Bm1285	4.500% Due 05-01-47	58,635	55,798
Fannie Mae Ma2771	3.000% Due 10-01-46	16,643	15,335
Fannie Mae Ma2960	4.000% Due 04-01-47	4,984	4,793
Fannie Mae Ma3087	3.500% Due 08-01-47	1,878	1,790
Fannie Mae Ma3120	3.500% Due 09-01-47	4,743	4,509
Fannie Mae Ma3148	3.500% Due 10-01-47	3,773	3,603
Fannie Mae Ma3210	3.500% Due 12-01-47	80,237	78,000
Fannie Mae Ma3211	4.000% Due 12-01-47	2,799	2,755
Fannie Mae Ma3305	3.500% Due 03-01-48	2,844	2,815
Fannie Mae Ma3443	4.000% Due 08-01-48	3,983	3,944
Freddie Mac A97046	4.500% Due 02-01-41	9,562	9,909
Freddie Mac A97047	4.500% Due 02-01-41	1,305	1,315
Freddie Mac C09071	4.000% Due 02-01-45	9,193	8,661

Detroit Ball Bearing Company Union Employees' Retirement Plan

Schedule of Assets Held at End of Year (Continued)

Form 5500, Schedule H, Line 4i

EIN 34-0117420, Plan No. 001

November 30, 2018

(a)(b) Identity of Issuer	(c) Description of Investment	(d) Cost	(e) Current Value
Freddie Mac G07961	3.500% Due 03-01-45	\$ 8,788	\$ 8,363
Freddie Mac G08669	4.000% Due 09-01-45	45,363	42,887
Freddie Mac G08682	4.000% Due 12-01-45	1,143	1,092
Freddie Mac G08726	3.000% Due 10-01-46	18,204	16,838
Freddie Mac G08737	3.000% Due 12-01-46	47,142	45,142
Freddie Mac G08747	3.000% Due 02-01-47	10,528	10,094
Freddie Mac G08791	3.000% Due 12-01-47	2,680	2,712
Freddie Mac G60440	3.500% Due 03-01-46	92,556	86,996
Freddie Mac Q44686	4.500% Due 12-01-46	1,552	1,528
Limited Partnerships / Hedge Funds:			
KKR & Co Inc CI A	KKR & Co Inc CI A	10,815	9,466
Short-term investments:			
Cash	Cash	13,619	13,619
UBS Liquid Assets	Liquid asset	111,510	102,295
Total		\$ 7,146,049	\$ 7,494,835

Schedule SB, Line 32 – Schedule of Amortization Bases
 Detroit Ball Bearing Company Union Employees' Retirement Plan
 December 1, 2017 Valuation
 EIN/PN: 34-0117420 / 001

Schedule of Amortization Bases

Plan Year Beginning

12/01/2017

Shortfall Amortization Bases

Date Established	Present Value of Payments	Remaining Years	Amortization Installment
12/01/2017	\$ 88,303	7	\$ 14,500
12/01/2016	597,700	6	111,232
12/01/2015	<u>88,018</u>	5	<u>19,067</u>
Total	\$ 774,021		\$ 144,799

Waiver Amortization Bases

Date Established	Present Value of Payments	Remaining Years	Amortization Installment
12/01/2017	\$ <u>0</u>	N/A	\$ <u>0</u>
Total	\$ 0		\$ 0