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

2022

This Form is Open to Public Inspection

Part I Annual Report Identification Information

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

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.)
- [X] 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. . . . . ▶ [X]

D Check box if filing under:
- [X] Form 5558
- [ ] automatic extension
- [ ] the DFVC program
- [ ] special extension (enter description)

E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here. . . . . ▶ [ ]

Part II Basic Plan Information—enter all requested information

1a Name of plan
BOSCH BRAKING SYSTEMS PENSION PLAN FOR HOURLY EMPLOYEES

1b Three-digit plan number (PN) ▶ 006

1c Effective date of plan 04/01/1996

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)
ROBERT BOSCH LLC

38000 HILLS TECH DRIVE
FARMINGTON HILLS, MI 48331

2b Employer Identification Number (EIN) 36-2903176

2c Plan Sponsor's telephone number 248-553-9000

2d Business code (see instructions) 423100

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.	10/16/2023	KIMBERLY MARTINEZ
	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

3a Plan administrator's name and address ☐ Same as Plan Sponsor

BOSCH BENEFIT PLANS COMMITTEE

38000 HILLS TECH DRIVE
FARMINGTON HILLS, MI 48331

3b Administrator's EIN: 36-2903176

3c Administrator's telephone number: 248-553-9000

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**	1796
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)**	34
a(2) Total number of active participants at the end of the plan year	**6a(2)**	25
b Retired or separated participants receiving benefits	**6b**	1103
c Other retired or separated participants entitled to future benefits	**6c**	411
d Subtotal. Add lines **6a(2)**, **6b**, and **6c**	**6d**	1539
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.	**6e**	240
f Total. Add lines **6d** and **6e**	**6f**	1779
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 3H

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

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 2022 Form M-1 annual report. If the plan was not required to file the 2022 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

2022

This Form is Open to Public Inspection

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

▶ **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
BOSCH BRAKING SYSTEMS PENSION PLAN FOR HOURLY EMPLOYEES

B Three-digit plan number (PN) ▶ 006

C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF
ROBERT BOSCH LLC

D Employer Identification Number (EIN)
36-2903176

E Type of plan: [X] Single [ ] Multiple-A [ ] Multiple-B

F Prior year plan size: [ ] 100 or fewer [ ] 101-500 [X] More than 500

Part I Basic Information

1 Enter the valuation date: Month 01 Day 01 Year 2022

2 Assets:

a Market value	**2a**	199196178
b Actuarial value	**2b**	193666283

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	1322	124965454	124965454
b For terminated vested participants	440	13408776	13408776
c For active participants	34	4210835	5143292
d Total	1796	142585065	143517522

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**	5.33 %
6 Target normal cost		
a Present value of current plan year accruals	**6a**	27103
b Expected plan-related expenses	**6b**	352761
c Total (line 6a + line 6b)	**6c**	379864

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 — Date: 08/16/2023

KAREN A. HIRSCHHORN — Type or print name of actuary

23-04099 — Most recent enrollment number

AON CONSULTING, INC. — Firm name

847-295-5000 — Telephone number (including area code)

MSC# 17755
PO BOX 1447
LINCONSHIRE, IL 60069

Address of the firm

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 [ ]

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	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	0	0
10	Interest on line 9 using prior year's actual return of 4.48 %	0	0
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		0
	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 4.85 %		0
	b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
	c Total available at beginning of current plan year to add to prefunding balance		0
	d Portion of (c) to be added to prefunding balance		0
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	0

Part III Funding Percentages

14	Funding target attainment percentage	14	134.94 %
15	Adjusted funding target attainment percentage	15	134.94 %
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	119.08 %
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
			Totals ► 18(b)	0	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	0

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

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

21 Discount rate:

	1st segment:	2nd segment:	3rd segment:	
a Segment rates:	4.75 %	5.18 %	5.92 %	☐ N/A, full yield curve used

b Applicable month (enter code)	**21b**	4
22 Weighted average retirement age	**22**	56

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 Demographic and benefit information

a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment. ☒ Yes ☐ No

b Is the plan required to provide a projection of expected benefit payments? 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 6c)	**31a**	379864
b Excess assets, if applicable, but not greater than line 31a	**31b**	379864

32 Amortization installments:	Outstanding Balance	Installment
a Net shortfall amortization installment	0	0
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**	0

	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	0	0

36 Additional cash requirement (line 34 minus line 35)	**36**	0
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	**37**	0

38 Present value of excess contributions for current year (see instructions)

a Total (excess, if any, of line 37 over line 36)	**38a**	0
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	**38b**	0
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 the American Rescue Plan Act of 2021 (See Instructions)

41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. ☐ 2019 ☐ 2020 ☐ 2021

SCHEDULE D (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

DFE/Participating Plan 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

2022

This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan
BOSCH BRAKING SYSTEMS PENSION PLAN FOR HOURLY EMPLOYEES

B Three-digit plan number (PN) ▶ 006

C Plan or DFE sponsor's name as shown on line 2a of Form 5500
ROBERT BOSCH LLC

D Employer Identification Number (EIN)
36-2903176

Part I **Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs)**
(Complete as many entries as needed to report all interests in DFEs)

a Name of MTIA, CCT, PSA, or 103-12 IE: ROBERT BOSCH LLC MSTR TRUST RET TR

b Name of sponsor of entity listed in (a): ROBERT BOSCH LLC

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
36-2903176-100	M	145984061

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

Part II Information on Participating Plans (to be completed by DFEs)

(Complete as many entries as needed to report all participating plans)

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

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a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

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

2022

This Form is Open to Public Inspection

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan
BOSCH BRAKING SYSTEMS PENSION PLAN FOR HOURLY EMPLOYEES

B Three-digit plan number (PN) ▶ 006

C Plan sponsor's name as shown on line 2a of Form 5500
ROBERT BOSCH LLC

D Employer Identification Number (EIN)
36-2903176

Part I Asset and Liability Statement

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) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions	1b(1)		
(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)		
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(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)	199196178	145984061
(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)		
(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	199196178	145984061
	Liabilities			
g	Benefit claims payable	1g		
h	Operating payables	1h	112069	99259
i	Acquisition indebtedness	1i		
j	Other liabilities	1j		
k	Total liabilities (add all amounts in lines 1g through1j)	1k	112069	99259
	Net Assets			
l	Net assets (subtract line 1k from line 1f)	1l	199084109	145884802

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.

	Income		(a) Amount	(b) Total
a	**Contributions:**			
	(1) Received or receivable in cash from: **(A)** Employers	2a(1)(A)		
	(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)		0
b	**Earnings on investments:**			
	(1) Interest:			
	(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)		
	(B) U.S. Government securities	2b(1)(B)		
	(C) Corporate debt instruments	2b(1)(C)		
	(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)		0
	(2) Dividends: **(A)** Preferred stock	2b(2)(A)		
	(B) Common stock	2b(2)(B)		
	(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)		
	(D) Total dividends. Add lines **2b(2)(A)**, **(B)**, and **(C)**	2b(2)(D)		0
	(3) Rents	2b(3)		
	(4) Net gain (loss) on sale of assets: **(A)** Aggregate proceeds	2b(4)(A)		
	(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
	(C) Subtract line **2b(4)(B)** from line **2b(4)(A)** and enter result	2b(4)(C)		0
	(5) Unrealized appreciation (depreciation) of assets: **(A)** Real estate	2b(5)(A)		
	(B) Other	2b(5)(B)		
	(C) Total unrealized appreciation of assets. Add lines **2b(5)(A)** and **(B)**	2b(5)(C)		0

		(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)		-40915726
(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)		
c Other income	2c		
d Total income. Add all **income** amounts in column (b) and enter total	2d		-40915726
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	11571402	
(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)		11571402
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)		
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)		
(4) Other	2i(4)	712179	
(5) Total administrative expenses. Add lines **2i(1)** through **(4)**	2i(5)		712179
j Total expenses. Add all **expense** amounts in column (b) and enter total	2j		12283581
Net Income and Reconciliation			
k Net income (loss). Subtract line **2j** from line **2d**	2k		-53199307
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) [X] Unmodified **(2)** [ ] Qualified **(3)** [ ] Disclaimer **(4)** [ ] Adverse

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1) [X] DOL Regulation 2520.103-8 **(2)** [ ] DOL Regulation 2520.103-12(d) **(3)** [ ] neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

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

(1) Name: PLANTE & MORAN, PLLC **(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:

		Yes	No	Amount
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.)	4a		X	

			Yes	No	Amount
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.)	4b		X	
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.)	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.)	4d		X	
e	Was this plan covered by a fidelity bond?	4e	X		8000000
f	Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	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?	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?	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.)	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.)	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?	4k		X	
l	Has the plan failed to provide any benefit when due under the plan?	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 Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) ☒ Yes ☐ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 472485.

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

2022

This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan
BOSCH BRAKING SYSTEMS PENSION PLAN FOR HOURLY EMPLOYEES

B Three-digit plan number (PN) ▶ 006

C Plan sponsor's name as shown on line 2a of Form 5500
ROBERT BOSCH LLC

D Employer Identification Number (EIN)
36-2903176

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): 36-3046063 _____

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**

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that (1) contributed more than 5% of total contributions to the plan during the plan year or (2) was one of the top-ten highest contributors (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 deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:

a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: ☐ last contributing employer ☐ alternative ☐ reasonable approximation (see instructions for required attachment)	**14a**	
b The plan year immediately preceding the current plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	**14b**	
c The second preceding plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	**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: 10.1 % Investment-Grade Debt: 88.8 % High-Yield Debt: 1.1 % Real Estate: 0.0 % Other: 0.0 %

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):

20 **PBGC missed contribution reporting requirements.** If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20.

a Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? ☐ Yes ☒ No

b If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box:

☐ Yes.

☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date.

☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date.

☐ No. Other. Provide explanation_____

Robert Bosch, LLC and Affiliates
Defined Benefit Plans

Bosch Pension Plan

Robert Bosch Fuel Systems LLC Hourly-Rated Employees' Pension Plan

Bosch Braking Systems Pension Plan for Hourly Employees
(Provisions Applicable to Employees Represented under the UAW Master Agreement and Provisions Applicable to Hourly Employees of Certain Former Plants of The Budd Company)

Pension Plan for Discontinued Operations of Robert Bosch

Financial Report

December 31, 2022

Robert Bosch, LLC and Affiliates Defined Benefit Plans

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Plante & Moran, PLLC
P.O. Box 307
3000 Town Center, Suite 100
Southfield, MI 48075
Tel: 248.352.2500
Fax: 248.352.0018
plantemoran.com

Independent Auditor's Report

To the Plan Administrator
Robert Bosch, LLC and Affiliates Defined Benefit Plans

Scope and Nature of the ERISA Section 103(a)(3)(C) Audits

We have performed audits of the financial statements of Bosch Pension Plan, Robert Bosch Fuel Systems LLC Hourly-Rated Employees' Pension Plan, Bosch Braking Systems Pension Plan for Hourly Employees (Provisions Applicable to Employees Represented under the UAW Master Agreement and Provisions Applicable to Hourly Employees of Certain Former Plants of The Budd Company), and Pension Plan for Discontinued Operations of Robert Bosch (collectively, the "Plans"), employee benefit plans subject to the Employee Retirement Income Security Act of 1974 (ERISA), as permitted by ERISA Section 103(a)(3)(C) (ERISA Section 103(a)(3)(C) audit). The financial statements comprise the statements of net assets available for benefits as of December 31, 2022 and 2021 and the related statements of changes in net assets available for benefits for the years then ended and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audits of the Plans' financial statements performed in accordance with ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's (DOL) Rules and Regulations for Reporting and Disclosure under ERISA. As permitted by ERISA Section 103(a)(3)(C), our audits need not extend to any statements or information related to assets held for investment of the Plans (investment information) by a bank or similar institution or insurance carrier that is regulated, supervised, and subject to periodic examination by a state or federal agency, provided that the statements or information regarding assets so held are prepared and certified to by the bank or similar institution or insurance carrier in accordance with 29 CFR 2520.103-5 of the DOL's Rules and Regulations for Reporting and Disclosure under ERISA (qualified institution).

Management has obtained certifications from a qualified institution as of December 31, 2022 and 2021 and for the years then ended stating that the certified investment information, as described in Note 4 to the financial statements, is complete and accurate.

Opinion

In our opinion, based on our audits and on the procedures performed as described in the *Auditor's Responsibilities for the Audits of the Financial Statements* section:

- The amounts and disclosures in the accompanying financial statements, other than those agreed to or derived from the certified investment information, are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America (GAAP).
- The information in the accompanying financial statements related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audits of the Financial Statements* section of our report. We are required to be independent of the Plans and to meet our other ethical responsibilities in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our ERISA Section 103(a)(3)(C) audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America and for 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. Management's election of the ERISA Section 103(a)(3)(C) audit does not affect management's responsibility for the financial statements.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plans' ability to continue as a going concern within one year after the date that the financial statements are issued or available to be issued.

Management is also responsible for maintaining a current plan instrument, including all plan amendments; administering the Plans; and determining that the Plans' transactions that are presented and disclosed in the financial statements are in conformity with the Plans' provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or that may become due to such participants.

Auditor's Responsibilities for the Audits of the Financial Statements

Except as described in the *Scope and Nature of the ERISA Section 103(a)(3)(C) Audits* section of our report, our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and, therefore, is not a guarantee that audits conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing audits in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audits.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audits in order to design audit procedures that are appropriate in the circumstances but not for the purpose of expressing an opinion on the effectiveness of the Plans' internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plans' ability to continue as a going concern for a reasonable period of time.

Our audits did not extend to the certified investment information except for obtaining and reading the certifications, comparing the certified investment information with the related information presented and disclosed in the financial statements, and reading the disclosures relating to the certified investment information to assess whether they are in accordance with the presentation and disclosure requirements of GAAP.

Accordingly, the objective of the ERISA Section 103(a)(3)(C) audit is not to express an opinion about whether the financial statements as a whole are presented fairly, in all material respects, in accordance with GAAP.

To the Plan Administrator
Robert Bosch, LLC and Affiliates Defined Benefit Plans

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audits, significant audit findings, and certain internal control-related matters that we identified during the audits.

Plante & Moran, PLLC

Southfield, Michigan
October 10, 2023

Robert Bosch, LLC and Affiliates Defined Benefit Plans

Statements of Net Assets Available for Benefits

December 31, 2022

	Bosch Pension Plan	Robert Bosch Fuel Systems LLC Hourly-Rated Employees' Pension Plan	Bosch Braking Systems Pension Plan for Hourly Employees*	Pension Plan for Discontinued Operations of Robert Bosch	Total (Memorandum Only)
Assets - Interest in the Robert Bosch LLC Master Retirement Trust at fair value (Note 5)	$ 1,251,282,137	$ 80,639,409	$ 145,984,061	$ 57,562,123	$ 1,535,467,730
Liabilities - Accrued expenses	586,651	69,591	99,259	83,131	838,632
Net Assets Available for Benefits	**$ 1,250,695,486**	**$ 80,569,818**	**$ 145,884,802**	**$ 57,478,992**	**$ 1,534,629,098**

*Bosch Braking Systems Pension Plan for Hourly Employees (Provisions Applicable to Employees Represented under the UAW Master Agreement and Provisions Applicable to Hourly Employees of Certain Former Plants of The Budd Company)

See notes to financial statements.

Robert Bosch, LLC and Affiliates Defined Benefit Plans

Statements of Net Assets Available for Benefits

December 31, 2021

	Bosch Pension Plan	Robert Bosch Fuel Systems LLC Hourly-Rated Employees' Pension Plan	Bosch Braking Systems Pension Plan for Hourly Employees*	Pension Plan for Discontinued Operations of Robert Bosch	Total (Memorandum Only)
Assets - Interest in the Robert Bosch LLC Master Retirement Trust at fair value (Note 5)	$ 1,672,808,342	$ 108,376,185	$ 199,196,178	$ 80,626,450	$ 2,061,007,155
Liabilities - Accrued expenses	713,710	75,024	112,069	85,880	986,683
Net Assets Available for Benefits	**$ 1,672,094,632**	**$ 108,301,161**	**$ 199,084,109**	**$ 80,540,570**	**$ 2,060,020,472**

*Bosch Braking Systems Pension Plan for Hourly Employees (Provisions Applicable to Employees Represented under the UAW Master Agreement and Provisions Applicable to Hourly Employees of Certain Former Plants of The Budd Company)

See notes to financial statements.

Robert Bosch, LLC and Affiliates Defined Benefit Plans

Statements of Changes in Net Assets Available for Benefits

Year Ended December 31, 2022

	Bosch Pension Plan	Robert Bosch Fuel Systems LLC Hourly-Rated Employees' Pension Plan	Bosch Braking Systems Pension Plan for Hourly Employees*	Pension Plan for Discontinued Operations of Robert Bosch	Total (Memorandum Only)
Additions - Net - Plan interest in Robert Bosch LLC Master Retirement Trust investment loss (Note 5)	$ (345,110,529)	$ (22,367,592)	$ (40,915,726)	$ (16,489,145)	$ (424,882,992)
Deductions					
Benefits paid directly to participants or beneficiaries	70,917,026	4,961,538	11,571,402	5,864,550	93,314,516
Administrative expenses	5,371,591	402,213	712,179	707,883	7,193,866
Total deductions	76,288,617	5,363,751	12,283,581	6,572,433	100,508,382
Net Decrease	(421,399,146)	(27,731,343)	(53,199,307)	(23,061,578)	(525,391,374)
Net Assets Available for Benefits					
Beginning of year	1,672,094,632	108,301,161	199,084,109	80,540,570	2,060,020,472
End of year	**$ 1,250,695,486**	**$ 80,569,818**	**$ 145,884,802**	**$ 57,478,992**	**$ 1,534,629,098**

*Bosch Braking Systems Pension Plan for Hourly Employees (Provisions Applicable to Employees Represented under the UAW Master Agreement and Provisions Applicable to Hourly Employees of Certain Former Plants of The Budd Company)

See notes to financial statements.

Robert Bosch, LLC and Affiliates Defined Benefit Plans

Statements of Changes in Net Assets Available for Benefits

Year Ended December 31, 2021

	Bosch Pension Plan	Robert Bosch Fuel Systems LLC Hourly-Rated Employees' Pension Plan	Bosch Braking Systems Pension Plan for Hourly Employees*	Pension Plan for Discontinued Operations of Robert Bosch	Total (Memorandum Only)
Additions - Net - Plan interest in Robert Bosch LLC Master Retirement Trust investment income (Note 5)	$ 78,185,861	$ 5,051,594	$ 9,286,832	$ 3,764,704	$ 96,288,991
Deductions					
Benefits paid directly to participants or beneficiaries	69,045,603	4,664,827	11,767,243	5,102,925	90,580,598
Administrative expenses	5,982,003	1,310,652	791,555	725,181	8,809,391
Total deductions	75,027,606	5,975,479	12,558,798	5,828,106	99,389,989
Net Increase (Decrease)	3,158,255	(923,885)	(3,271,966)	(2,063,402)	(3,100,998)
Net Assets Available for Benefits					
Beginning of year	1,668,936,377	109,225,046	202,356,075	82,603,972	2,063,121,470
End of year	**$ 1,672,094,632**	**$ 108,301,161**	**$ 199,084,109**	**$ 80,540,570**	**$ 2,060,020,472**

*Bosch Braking Systems Pension Plan for Hourly Employees (Provisions Applicable to Employees Represented under the UAW Master Agreement and Provisions Applicable to Hourly Employees of Certain Former Plants of The Budd Company)

See notes to financial statements.

Note 1 - Plan Description

The following descriptions of Bosch Pension Plan (the "BPP"), Robert Bosch Fuel Systems LLC Hourly-Rated Employees' Pension Plan (the "BFS Plan"), Bosch Braking Systems Pension Plan for Hourly Employees (Provisions Applicable to Employees Represented under the UAW Master Agreement and Provisions Applicable to Hourly Employees of Certain Former Plants of The Budd Company) (the "BSP Plan"), and Pension Plan for Discontinued Operations of Robert Bosch (the "DO Plan") (collectively, the "Plans") provide only general information. Participants should refer to the respective plan documents for a more complete description of each of the Plan's provisions. The assets of the Plans are invested in the Robert Bosch LLC Master Retirement Trust (the "Master Trust").

General

The Plans are noncontributory, defined benefit plans covering eligible employees as described below. The Plans are subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA). Robert Bosch LLC, Robert Bosch Fuel Systems LLC, Bosch Braking Systems, and Robert Bosch Fluid Power (collectively, the "Company" or the "Companies") are related through common ownership.

The BPP covers employees of Robert Bosch LLC and its participating subsidiaries and affiliates that have adopted the BPP. Employees are eligible to participate upon their date of hire, provided they are not included in a collective bargaining unit or any other group of employees to which the BPP has not been extended. Effective July 1, 2011, participation in the BPP was frozen to newly hired employees.

The BFS Plan covers hourly employees of Robert Bosch Fuel Systems LLC who are represented by the International Union, United Automobile, Aerospace & Agricultural Implement Workers of America (UAW), UAW Local 167, subject to the NAO Business Unit collective bargaining agreement, who have attained age 21 and have completed one year of service, as defined by the plan document. The BFS Plan also includes certain employees acquired under the terms of the DTC/General Motors Sales Agreement. Effective August 9, 2011, participation in the BFS Plan was frozen to newly hired employees.

The BSP Plan covers hourly employees at the St. Joseph, Michigan facility of Bosch Braking Systems who are represented by UAW Local No. 383 hired on or before August 31, 2012, as well as certain employees of former and closed plants of The Budd Company who were represented by UAW Local 2155, UAW Local 1886, and UAW Local 1910. Employees are eligible to participate in the BSP Plan upon completion of one year of service, as defined in the plan document. Effective September 1, 2012, participation in the Plan was frozen to newly hired, rehired, or transferred employees into the union.

The DO Plan was originally established for former hourly employees of Robert Bosch Fluid Power who are members of Lodge No. 437, International Association of Machinists and Aerospace Workers, A.F.L.-C.I.O. (the "Union"). Effective July 2, 2002, the covered plant was closed, and all accrued benefits of active, covered participants were frozen and became fully vested. The DO Plan also provides for pension benefits for former employees of various Robert Bosch LLC discontinued operations. Participants of the DO Plan are fully vested in their accrued benefits, and all pension accruals are frozen. The following plans sponsored by Robert Bosch LLC (each frozen to new participants and having frozen benefit accruals) have been merged into the DO Plan since 2007:

- Forest City Tool Hourly Employees' Pension Plan
- Vermont American Corporation Pension Plan for Vermont Tap and Die Company and Northeast Tool Division
- Mobile Hydraulics Division U.A.W. Retirement Income Plan
- Bosch Automotive Motor Systems Retirement Plan
- Greenville, North Carolina Division of Vermont American Corporation Restated Pension Plan
- Gilmour Manufacturing Company Hourly Employees' Pension Plan

Note 1 - Plan Description (Continued)

- Telex Communications, Inc. Employees' Pension Plan (the "Telex Plan")
- Hagglunds Drives, Inc. Salaried Pension Plan (the "Hagglunds Plan")
- Gilmour Hose Company Hourly Employees' Pension Plan (the "Gilmour Hose Plan")
- Bosch Security Systems, Inc. Pension Plan for Hourly Employees (the "Security Systems Plan")
- Bosch LLC-New Richmond Production Hourly Retirement Plan (the "New Richmond Plan")

In October 2023, a resolution was adopted that provides approval for the BFS Plan, the BSP Plan, and the DO Plan to merge into the BPP effective December 31, 2023. The resolution also provides approval to terminate the BPP, after the above plan mergers, effective December 31, 2023. After termination, the process to liquidate the BPP's assets and pay participants' accumulated plan benefits will begin in 2024 and will involve a special lump-sum payment window and, potentially, the purchase of one or more annuity contracts.

Contributions

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. There were no contributions required for 2022 or 2021.

Payment of Benefits

The Plans provide for payment of normal, early retirement, and death benefits to participants and beneficiaries, as calculated under the provisions of the respective plan documents. The BPP, the BFS Plan, and the DO Plan provide for disability retirement provisions, as defined in the respective plan documents.

Under the BPP, a participant's total benefit is based on benefits earned under two different formulas. Through December 31, 2004, the BPP benefits were calculated based on a formula that included a participant's final average pay and years of credited service. Those benefits were frozen at December 31, 2004, and, effective January 1, 2005, participants under the BPP began earning a benefit based on a cash balance formula that provides for annual pension credits. Pension credits include pay credits, based on pensionable earnings and age at December 31, and interest credits applied to accumulated pension credits each December 31 using an interest crediting rate that is defined in the BPP document. No participant receives pay credits after June 30, 2011, but participants continue to receive interest credits. Participants eligible for transition pay credits continued to receive transition pay credits through December 31, 2016.

In general, benefits for the BFS Plan, the BSP Plan, and the DO Plan are calculated based on years of credited service and the applicable benefit class code, monthly benefit rate, factor, or multiplier defined in each respective plan document and in effect at an employee's termination or retirement. Certain benefits under the DO Plan also incorporate final average pay or pensionable earnings into the benefit formula. Under the DO Plan, the original benefit provisions of each previous plan have been incorporated into and are defined in the DO Plan document. Benefits under the former Telex Plan were calculated based on a cash balance formula. Pay credits under the Telex Plan cash balance formula have been frozen since June 30, 2003; annual interest credits on cash balance accounts are still provided. Under the BFS Plan and BSP Plan, certain participants are also eligible for supplemental early retirement benefits, as defined in those plan documents.

Under the BFS Plan, effective May 7, 2020, each participant's benefit class code was frozen. This code is used to determine the benefit rate that ultimately impacts the calculation of benefits. Under the BFS Plan and the BSP Plan effective July 1, 2020 and January 1, 2018, respectively, the accrued benefits of all participants were frozen. Participants continue to receive vesting service.

Note 1 - Plan Description (Continued)

Certain participants may be eligible for optional forms of payment if elected by the participant, if spousal consent is obtained, and as described in the respective plan documents. In general, a participant with five years of credited service (three years of service for the BPP), as defined in the respective plan documents, is fully vested. Participants who are actively employed at a location that is closed become fully vested at that date. The Plans generally provide benefits to participants and beneficiaries in the form of a monthly annuity.

Termination

The Company has the right to discontinue its contributions at any time and to terminate any of the individual Plans subject to the provisions set forth in the respective plan agreement and ERISA. Should any of the individual Plans terminate at some time in the future, that plan's net assets generally will not be available on a pro rata basis to provide participants' benefits. Whether a particular participants' 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 at all.

Party-in-interest Transactions

Certain of the Master Trust's assets are in investment funds managed by The Northern Trust Company or its affiliates (Northern Trust). Northern Trust is the trustee of the Plans; therefore, these transactions qualify as party-in-interest transactions, as defined under ERISA guidelines.

Note 2 - Summary of Significant Accounting Policies

Memorandum-only Totals

The memorandum-only total column in the financial statements represents solely a total of the individual plans and is provided for information only.

Investment Valuation

The Master Trust was established for the investment of the Plans' assets. The fair value of the Plans' respective interests in the Master Trust is based on the beginning of the year value of each of the respective Plan's interests in the Master Trust, plus actual contributions and allocated investment income, less actual distributions for benefit payments and administrative expenses and allocated administrative expenses. The Master Trust's investments are stated at fair value.

The registered investment companies and common/collective trusts are valued at the net asset value per share (NAV) or its equivalent of the funds, which is based on the fair value of the funds' underlying net assets. There are no unfunded commitments on these investments, and each has unlimited redemption frequency. The common/collective trusts have redemption notice periods that range from 0 to 60 days. The government securities and corporate debt instruments 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, and other relevant economic measures. The interest-bearing cash is valued at fair value based on the outstanding balance. All other investments are valued based on quoted market prices reported in active markets, including the publicly traded partnership. See Note 6 for additional information.

Benefit Payments

Benefits are recorded when paid.

Note 2 - Summary of Significant Accounting Policies (Continued)

Administrative Expenses

Various administrative costs are paid by the Company.

Actuarial Present Value of Accumulated Plan Benefits

Accumulated plan benefits are those future periodic payments and lump-sum payments that are attributable, under the respective Plans' provisions, to the eligible 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

Actuarial Assumptions

The actuarial present value of accumulated plan benefits is determined by an actuary 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.

Significant actuarial assumptions used in the valuations of the Plans at December 31, 2021 and 2020 are summarized as follows:

Actuarial cost method	Standard unit credit
Interest rate	3.00 and 3.90 percent per annum at December 31, 2021 and 2020, respectively
Mortality basis	Pri-2012 Table with Scale MP-2021 at December 31, 2021 and December 31, 2020

Additional significant actuarial assumptions used in the valuation of the BPP at December 31, 2021 and 2020 are summarized as follows:

Retirement age:	
Terminated vested	Age 61 to 65
Active	25% by age 64, 100% by age 70
Cash balance interest crediting rate	3.32% and 3.26% as of December 31, 2021 and 2020, respectively

Additional significant actuarial assumptions used in the valuation of the BFS Plan at December 31, 2021 and 2020 are summarized as follows:

Retirement age:	
Terminated vested	Age 61
Active	25% by age 62 for participants with less than 30 years of service and 25% by age 55 for participants with over 30 years of service, 100% by age 70

Additional significant assumptions used in the valuation of the BSP Plan at December 31, 2021 and 2020 are summarized as follows:

Retirement age:	
Terminated vested	Age 60
Active	25% by age 62 for participants with less than 30 years of service and 50% by age 45 for participants with over 30 years of service, 100% by age 70

Note 2 - Summary of Significant Accounting Policies (Continued)

Additional significant assumptions used in the valuation of the DO Plan at December 31, 2021 and 2020 are summarized as follows:

Retirement age:	
Terminated vested	Age 63
Active	Telex Plan - 25% by age 65 and 100% by age 70; Hagglunds Plan - 100% at age 65 for participants with less than 30 years of service and 100% at age 62 for participants with over 30 years of service
Cash balance interest crediting rate (Telex)	2.26% and 1.68% as of December 31, 2021 and 2020, respectively

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

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 Plans and the accumulated plan benefits are reported based on certain assumptions pertaining to interest rates, inflation rates, and employee 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 October 10, 2023, which is the date the financial statements were available to be issued.

Note 3 - Accumulated Plan Benefits

The actuarial present value of accumulated plan benefits is determined by consulting actuaries. The calculation of the actuarial present value of accumulated plan benefits attributable to participants in the Plans, which was made as of December 31, 2021, the date of the most recent actuarial valuations, is as follows:

	BPP	BFS Plan	BSP Plan	DO Plan
Actuarial present value of accumulated plan benefits:				
Vested benefits:				
Participants currently receiving benefit payments	$ 898,771,125	$ 60,586,134	$ 147,965,333	$ 51,110,118
Other vested participants	597,202,715	24,245,697	24,288,736	14,376,858
Total vested benefits	1,495,973,840	84,831,831	172,254,069	65,486,976
Nonvested benefits	-	3,174,373	1,189,436	25,287
Total actuarial present value of accumulated plan benefits	$ 1,495,973,840	$ 88,006,204	$ 173,443,505	$ 65,512,263

The following summarizes the significant components of the change in the actuarial present value of accumulated plan benefits from December 31, 2020 to December 31, 2021:

	BPP	BFS Plan	BSP Plan	DO Plan
Actuarial present value of accumulated plan benefits - Beginning of year	$ 1,351,344,325	$ 88,266,453	$ 164,352,725	$ 63,118,256
Increase (decrease) during the year attributable to:				
Interest accumulation	51,379,556	3,352,298	6,182,490	2,363,057
Benefits accumulated (if any) and actuarial experience gain (loss)	5,220,716	(7,179,315)	(89,537)	10,705
Benefits paid	(69,045,603)	(4,664,827)	(11,767,243)	(5,102,925)
Changes in actuarial assumptions (primarily the change in the discount rate and the cash balance interest crediting rate for BPP and DO Plan)	157,074,846	8,231,595	14,765,070	5,123,170
Net increase (decrease)	144,629,515	(260,249)	9,090,780	2,394,007
Actuarial present value of accumulated plan benefits - End of year	$ 1,495,973,840	$ 88,006,204	$ 173,443,505	$ 65,512,263

Subsequent to the December 31, 2020 actuarial valuation, the BFS Plan entered into a settlement agreement with the PBGC relating to certain former participants of the BFS Plan. The impact of the settlement, which resulted in the release of participants and their related accumulated plan benefits, substantially accounts for the BFS Plan's actuarial experience gain reflected above for the year ended December 31, 2021.

Note 4 - Certified Information

Northern Trust holds the Master Trust's investments and executes all investment transactions. The investment balances and related investment results included in the accompanying financial statements, including master trust information included in Note 5, are based solely on information certified by Northern Trust.

Note 5 - Interest in Master Trust

The Plans' investments are in the Master Trust. Each participating plan has an undivided interest in the Master Trust.

Investment income and administrative expenses relating to the Master Trust are allocated monthly to the Plans based upon each plan's pro rata share in the net assets of the Master Trust.

At December 31, 2022 and 2021, the Plans' respective approximate interests in the Master Trust were as follows:

	2022	2021
BPP	81.49 %	81.16 %
BFS Plan	5.25	5.26
BSP Plan	9.51	9.67
DO Plan	3.75	3.91
Total	100.00 %	100.00 %

The net assets of the Master Trust and the Plans' interests in master trust balances at December 31, 2022 and 2021 are as follows:

	2022				
	Plan's Interest in Master Trust Balances				
	Master Trust Balances	BPP	BFS Plan	BSP Plan	DO Plan
Investments at fair value:					
Common/collective trusts	$ 464,004,622	$ 378,126,281	$ 24,368,522	$ 44,115,029	$ 17,394,790
Registered investment companies	305,249,996	248,754,083	16,031,058	29,021,552	11,443,303
Common stock	103,227,977	84,122,461	5,421,306	9,814,369	3,869,841
Preferred stock	775,463	631,939	40,726	73,727	29,071
Corporate debt instruments - Other	528,475,972	430,665,217	27,754,395	50,244,694	19,811,666
Corporate debt instruments - Preferred	21,182,190	17,261,774	1,112,442	2,013,890	794,084
Government securities	146,441,477	119,337,971	7,690,785	13,922,879	5,489,842
Real estate investment trusts	1,370,149	1,116,560	71,957	130,267	51,365
Interest-bearing cash	6,075,712	4,951,214	319,083	577,646	227,769
Publicly traded partnership	236,204	192,487	12,405	22,457	8,855
Other	1,116,683	910,006	58,646	106,168	41,863
Total master trust investments	1,578,156,445	1,286,069,993	82,881,325	150,042,678	59,162,449
Other assets:					
Accrued interest and dividend income	10,191,069	8,304,896	535,213	968,913	382,047
Pending trades - Sales	27,929,471	22,760,261	1,466,795	2,655,386	1,047,029
Total master trust assets	1,616,276,985	1,317,135,150	84,883,333	153,666,977	60,591,525
Other liabilities - Pending trades - Purchases	(80,809,255)	(65,853,013)	(4,243,924)	(7,682,916)	(3,029,402)
Total master trust net assets	$ 1,535,467,730	$ 1,251,282,137	$ 80,639,409	$ 145,984,061	$ 57,562,123

Note 5 - Interest in Master Trust (Continued)

	2021				
	Plan's Interest in Master Trust Balances				
	Master Trust Balances	BPP	BFS Plan	BSP Plan	DO Plan
Investments at fair value:					
Common/collective trusts	$ 616,254,905	$ 500,180,814	$ 32,405,188	$ 59,561,017	$ 24,107,886
Registered investment companies	428,798,593	348,032,706	22,547,988	41,443,341	16,774,558
Common stock	136,568,832	110,845,560	7,181,349	13,199,364	5,342,559
Preferred stock	648,315	526,202	34,091	62,660	25,362
Corporate debt instruments - Other	684,310,618	555,418,044	35,983,858	66,138,553	26,770,163
Corporate debt instruments - Preferred	27,828,833	22,587,164	1,463,354	2,689,654	1,088,661
Government securities	193,438,128	157,003,303	10,171,770	18,695,775	7,567,280
Real estate investment trusts	2,061,048	1,672,842	108,378	199,200	80,628
Interest-bearing cash	3,022,928	2,453,547	158,958	292,166	118,257
Publicly traded partnership	357,940	290,520	18,822	34,595	14,003
Other	1,668,292	1,354,063	87,726	161,240	65,263
Total master trust investments	2,094,958,432	1,700,364,765	110,161,482	202,477,565	81,954,620
Other assets:					
Accrued interest and dividend income	9,408,011	7,635,975	494,712	909,283	368,041
Pending trades - Sales	20,263,668	16,446,926	1,065,547	1,958,482	792,713
Total master trust assets	2,124,630,111	1,724,447,666	111,721,741	205,345,330	83,115,374
Other liabilities - Pending trades - Purchases	(63,622,956)	(51,639,324)	(3,345,556)	(6,149,152)	(2,488,924)
Total master trust net assets	$ 2,061,007,155	$ 1,672,808,342	$ 108,376,185	$ 199,196,178	$ 80,626,450

The net investment (loss) income for the Master Trust for the years ended December 31, 2022 and 2021 is as follows:

	2022	2021
Net realized and unrealized (losses) gains on investments	$ (476,277,356)	$ 43,273,788
Interest and dividend income	51,394,364	53,015,203
Total investment (loss) income	$ (424,882,992)	$ 96,288,991

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.

Level 1

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

Note 6 - Fair Value Measurements (Continued)

Level 2

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

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.

In instances where 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. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

The following tables present information about the Master Trust's investments measured at fair value on a recurring basis at December 31, 2022 and 2021:

	Master Trust Investments at December 31, 2022		
	Master Trust Balances	Level 1	Level 2
Investments at fair value:			
Common stock	$ 103,227,977	$ 103,227,977	$ -
Preferred stock	775,463	775,463	-
Corporate debt instruments - Other	528,475,972	-	528,475,972
Corporate debt instruments - Preferred	21,182,190	-	21,182,190
Government securities	146,441,477	-	146,441,477
Real estate investment trusts	1,370,149	1,370,149	-
Interest-bearing cash	6,075,712	-	6,075,712
Publicly traded partnership	236,204	236,204	-
Other	1,116,683	1,116,683	-
Total	808,901,827	$ 106,726,476	$ 702,175,351
Investments measured at NAV:			
Common/collective trusts	464,004,622		
Registered investment companies (1)	305,249,996		
Total investments at fair value	$ 1,578,156,445		

Note 6 - Fair Value Measurements (Continued)

	Master Trust Investments at December 31, 2021		
	Master Trust Balances	Level 1	Level 2
Investments at fair value:			
Common stock	$ 136,568,832	$ 136,568,832	$ -
Preferred stock	648,315	648,315	-
Corporate debt instruments - Other	684,310,618	-	684,310,618
Corporate debt instruments - Preferred	27,828,833	-	27,828,833
Government securities	193,438,128	-	193,438,128
Real estate investment trusts	2,061,048	2,061,048	-
Interest-bearing cash and certificates of deposit	3,022,928	-	3,022,928
Publicly traded partnership	357,940	357,940	-
Other	1,668,292	1,668,292	-
Total	1,049,904,934	$ 141,304,427	$ 908,600,507
Investments measured at NAV:			
Common/collective trusts	616,254,905		
Registered investment companies (1)	428,798,593		
Total investments at fair value	$ 2,094,958,432		

(1) This class represents investments in actively managed registered investment companies that invest primarily in fixed-income securities including, but not limited to, bonds, notes, or other investments, such as government securities, commercial paper, certificates of deposit, master notes, or variable amount notes, with the objective of providing high current income consistent with the preservation of capital and the maintenance of liquidity.

Note 7 - Tax Status

The Plans have received determination letters from the Internal Revenue Service indicating that the Plans, as designed, are qualified for tax-exempt treatment under the applicable section of the Internal Revenue Code (IRC). Although the Plans have been amended since receiving the respective determination letters, management believes that the Plans are designed and are currently being operated in compliance with the applicable requirements of the IRC. The BPP is currently under a Department of Labor (DOL) audit for the periods covering January 1, 2019 to the present.

Schedule SB Attachment (Form 5500)—2022 Plan Year
Bosch Braking Systems Corporation Pension Plan for Hourly Employees
EIN: 36-2903176 PN: 006

Schedule SB, line 26a—Schedule of Active Participant Data as of January 1, 2022

Number of Participants and Average Compensation

Attained Age	Years of Credited Service									
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+
<25										
25-29										
30-34										
35-39										
40-44										
45-49						2				
50-54						7	2			
55-59					1	4	3			
60-64		1			2	4	4	3		
65-69						1				
70+										

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Schedule SB Attachment (Form 5500)—2022 Plan Year
Bosch Braking Systems Corporation Pension Plan for Hourly Employees
EIN: 36-2903176 PN: 006

Schedule SB, Part V—Statement of Actuarial Assumptions/Methods

Interest Rates for Minimum Funding Purposes	Based on segment rates with a four-month lookback (as of September 2021), each adjusted as needed to fall within the 25-year average interest rate stabilization corridor under ARPA.
1st Segment Rate	4.75%
2nd Segment Rate	5.18%
3rd Segment Rate	5.92%
Interest Rates for Maximum Tax Purposes	Based on segment rates with a four-month lookback (as of September 2021), without regard to interest rate stabilization
1st Segment Rate	1.07%
2nd Segment Rate	2.68%
3rd Segment Rate	3.36%
Optional Payment Form Election Percentage	55% life annuity 45% joint and 60% survivor annuity with popup
Optional Payment Form Conversion Interest Rate	Factor of 0.95
Optional Payment Form Conversion Mortality	None
Retirement Age	
Active Participants	See Table 1
Terminated Vested Participants	Age 60
Mortality Rates	
Healthy and Disabled	2022 static mortality table for annuitants and non-annuitants per §1.430(h)(3)-1(e)
Withdrawal Rates	See Table 2
Disability Rates	See Table 3
Decrement Timing	Middle of year decrements (except that retirement is assumed to occur at the beginning of the year for ages where the assumed retirement rate is 100%)
Surviving Spouse Benefit	It is assumed that 80% of males and 80% of females have an eligible spouse, and that males are two years older than their spouses.

Benefit Limits	Projected benefits are limited by the current IRC section 415 maximum benefit of $245,000.
Valuation of Plan Assets	Smoothed fair market value of assets over the current and prior two years, adjusted for contributions, benefit payments, administrative expenses, and expected earnings. The average value of assets calculated in this manner is further limited to not less than 90% nor more than 110% of fair market value. A characteristic of this method is that the expected distribution of the value of plan assets is skewed toward understatement relative to the corresponding market values for expected long-term rates of return in excess of the third segment rate under IRC section 430(h)(2)(C)(iii).
Expected Return on Assets	
2020 Plan Year	5.00%
2021 Plan Year	3.90%
2022 Plan Year	3.00%
Trust Expenses Included in Target Normal Cost	Actual trust expenses limited to 5% of Fair Value of Assets. The prior year's actual administrative expenses adjusted for anticipated significant changes are used as a proxy for actual current year's expenses.
Actuarial Method	Standard unit credit cost method
Valuation Date	January 1, 2022

Table 1

Retirement Rates

	Years of Service	
Age	**0-29**	**30+**
45	0.00%	50.00%
46	0.00%	50.00%
47	0.00%	50.00%
48	0.00%	50.00%
49	0.00%	50.00%
50	0.00%	50.00%
51	0.00%	50.00%
52	0.00%	50.00%
53	0.00%	50.00%
54	0.00%	50.00%
55	10.00%	50.00%
56	10.00%	50.00%
57	10.00%	50.00%
58	10.00%	50.00%
59	10.00%	50.00%
60	40.00%	50.00%
61	10.00%	50.00%
62	25.00%	50.00%
63	25.00%	50.00%
64	25.00%	50.00%
65	50.00%	50.00%
66	50.00%	50.00%
67	50.00%	50.00%
68	50.00%	50.00%
69	50.00%	50.00%
70+	100.00%	100.00%

Table 2

Withdrawal Rates

Age	Rate	Age	Rate
15	35.50%	35	13.90%
16	35.50%	36	12.80%
17	35.50%	37	11.80%
18	35.50%	38	10.80%
19	35.50%	39	9.90%
20	35.50%	40	9.00%
21	35.50%	41	8.20%
22	33.50%	42	7.50%
23	31.70%	43	6.80%
24	29.90%	44	6.20%
25	28.10%	45	5.60%
26	26.40%	46	5.10%
27	24.80%	47	4.70%
28	23.20%	48	4.30%
29	21.70%	49	4.00%
30	20.30%	50	4.00%
31	18.90%	51	4.00%
32	17.50%	52	4.00%
33	16.30%	53	4.00%
34	15.10%	54	4.00%
		55+	4.00%

Table 3

Disability Rates

Age	Male	Female	Age	Male	Female
15	0.03%	0.03%	40	0.08%	0.13%
16	0.03%	0.03%	41	0.09%	0.15%
17	0.03%	0.03%	42	0.10%	0.17%
18	0.03%	0.03%	43	0.12%	0.19%
19	0.03%	0.03%	44	0.14%	0.22%
20	0.03%	0.03%	45	0.16%	0.24%
21	0.03%	0.03%	46	0.18%	0.27%
22	0.03%	0.03%	47	0.21%	0.30%
23	0.03%	0.03%	48	0.25%	0.33%
24	0.03%	0.03%	49	0.28%	0.36%
25	0.03%	0.03%	50	0.33%	0.40%
26	0.03%	0.03%	51	0.39%	0.44%
27	0.03%	0.03%	52	0.46%	0.49%
28	0.03%	0.04%	53	0.53%	0.54%
29	0.03%	0.04%	54	0.61%	0.59%
30	0.03%	0.04%	55	0.69%	0.64%
31	0.03%	0.05%	56	0.77%	0.69%
32	0.03%	0.05%	57	0.86%	0.74%
33	0.03%	0.06%	58	0.95%	0.80%
34	0.03%	0.06%	59	1.05%	0.85%
35	0.04%	0.07%	60	1.15%	0.90%
36	0.04%	0.08%	61	1.26%	0.96%
37	0.05%	0.09%	62	1.38%	1.01%
38	0.06%	0.10%	63	1.51%	1.05%
39	0.07%	0.12%	64	1.64%	1.09%
			65+	0.00%	0.00%

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

2022

This Form is Open to Public Inspection

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

▶ **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
BOSCH BRAKING SYSTEMS PENSION PLAN FOR HOURLY EMPLOYEES

B Three-digit plan number (PN) ▶ 006

C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF
ROBERT BOSCH LLC

D Employer Identification Number (EIN)
36-2903176

E Type of plan: [X] Single [ ] Multiple-A [ ] Multiple-B

F Prior year plan size: [ ] 100 or fewer [ ] 101-500 [X] More than 500

Part I Basic Information

1 Enter the valuation date: Month 01 Day 01 Year 2022

2 Assets:

a Market value	**2a**	199,196,178
b Actuarial value	**2b**	193,666,283

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	1,322	124,965,454	124,965,454
b For terminated vested participants	440	13,408,776	13,408,776
c For active participants	34	4,210,835	5,143,292
d Total	1,796	142,585,065	143,517,522

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**	5.33%
6 Target normal cost		
a Present value of current plan year accruals	**6a**	27,103
b Expected plan-related expenses	**6b**	352,761
c Total (line 6a + line 6b)	**6c**	379,864

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

Karen A. Hirschhorn KAH
Signature of actuary

08/16/2023
Date

KAREN A. HIRSCHHORN
Type or print name of actuary

2304099
Most recent enrollment number

AON Consulting, Inc.
Firm name

847-295-5000
Telephone number (including area code)

MSC# 17755
PO Box 1447
LINCONSHIRE IL 60069
Address of the firm

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 [ ]

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	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	0	0
10	Interest on line 9 using prior year's actual return of 4.48 %	0	0
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		0
	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 4.85 %		0
	b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
	c Total available at beginning of current plan year to add to prefunding balance		0
	d Portion of (c) to be added to prefunding balance		0
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	0

Part III Funding Percentages

14	Funding target attainment percentage	14	134.94 %
15	Adjusted funding target attainment percentage	15	134.94 %
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	119.08 %
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
			Totals ► 18(b)	0	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	0

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

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

21 Discount rate:

a Segment rates:

1st segment:	2nd segment:	3rd segment:	
4.75 %	5.18 %	5.92%	☐ N/A, full yield curve used

b Applicable month (enter code)	**21b**	4
22 Weighted average retirement age	**22**	56

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 Demographic and benefit information

a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment. ☒ Yes ☐ No

b Is the plan required to provide a projection of expected benefit payments? 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 6c)	**31a**	379,864
b Excess assets, if applicable, but not greater than line 31a	**31b**	379,864

32 Amortization installments:	Outstanding Balance	Installment
a Net shortfall amortization installment	0	0
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**	0

	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	0	0

36 Additional cash requirement (line 34 minus line 35)	**36**	0
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	**37**	0
38 Present value of excess contributions for current year (see instructions)		
a Total (excess, if any, of line 37 over line 36)	**38a**	0
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	**38b**	0
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 the American Rescue Plan Act of 2021 (See Instructions)

41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. ☐ 2019 ☐ 2020 ☐ 2021

Schedule SB Attachment (Form 5500)—2022 Plan Year
Bosch Braking Systems Corporation Pension Plan for Hourly Employees
EIN: 36-2903176 PN: 006

Schedule SB, line 22—Description of Weighted Average Retirement Age

The average retirement age shown in line 22 has been calculated by assuming the following retirement rates and no decrements other than retirement for this calculation. All retirements are assumed to occur at mid-year, except for the 100% retirement age..

0-29 Years of Service

(a) Age	(b) Rate	(c) Weight	(d) Product (a) × (b) × (c)
55.5	10.00%	1.0000	5.55
56.5	10.00%	0.9000	5.09
57.5	10.00%	0.8100	4.66
58.5	10.00%	0.7290	4.26
59.5	10.00%	0.6561	3.90
60.5	40.00%	0.5905	14.29
61.5	10.00%	0.3543	2.18
62.5	25.00%	0.3189	4.98
63.5	25.00%	0.2391	3.80
64.5	25.00%	0.1794	2.89
65.5	50.00%	0.1345	4.41
66.5	50.00%	0.0673	2.24
67.5	50.00%	0.0336	1.14
68.5	50.00%	0.0168	0.58
69.5	50.00%	0.0084	0.29
70	100.00%	0.0042	0.29
		Weighted Average	60.55
		Percentage of Actives	70.59%

Schedule SB Attachment (Form 5500)—2022 Plan Year
Bosch Braking Systems Corporation Pension Plan for Hourly Employees
EIN: 36-2903176 PN: 006

30+ Years of Service

(a) Age	(b) Rate	(c) Weight	(d) Product (a) × (b) × (c)
45.5	50.00%	1.0000	22.75
46.5	50.00%	0.5000	11.63
47.5	50.00%	0.2500	5.94
48.5	50.00%	0.1250	3.03
49.5	50.00%	0.0625	1.55
50.5	50.00%	0.0313	0.79
51.5	50.00%	0.0156	0.40
52.5	50.00%	0.0078	0.21
53.5	50.00%	0.0039	0.10
54.5	50.00%	0.0020	0.05
55.5	50.00%	0.0010	0.03
56.5	50.00%	0.0005	0.01
57.5	50.00%	0.0002	0.01
58.5	50.00%	0.0001	0.00
59.5	50.00%	0.0001	0.00
60.5	50.00%	0.0000	0.00
61.5	50.00%	0.0000	0.00
62.5	50.00%	0.0000	0.00
63.5	50.00%	0.0000	0.00
64.5	50.00%	0.0000	0.00
65.5	50.00%	0.0000	0.00
66.5	50.00%	0.0000	0.00
67.5	50.00%	0.0000	0.00
68.5	50.00%	0.0000	0.00
69.5	50.00%	0.0000	0.00
70	100.00%	0.0000	0.00
		Weighted Average	46.50
		Percentage of Actives	29.41%

Total Weighted Retirement Age = (60.55) * 70.59% + (46.50) * 29.41% = 56.42

There has been no change in the assumed rates of retirement for active participants from the prior valuation; however, the weighted average retirement age has changed due to a change in the percentage of actives who have less than 30 years of service and those that have 30 or more year of service.

Schedule SB Attachment (Form 5500)—2022 Plan Year
Bosch Braking Systems Corporation Pension Plan for Hourly Employees
EIN: 36-2903176 PN: 006

Schedule SB, line 26b—Schedule Projection of Expected Benefit Payments

Plan Year	Active Participants	Terminated Vested Participants	Retired Participants and Beneficiaries Receiving Payments	Total
2022	72,971	378,503	11,530,410	11,981,884
2023	203,508	433,970	11,268,166	11,905,644
2024	283,251	528,294	11,011,911	11,823,456
2025	351,177	613,270	10,766,481	11,730,929
2026	417,597	737,860	10,476,494	11,631,950
2027	432,815	824,223	10,174,796	11,431,834
2028	446,730	880,520	9,904,636	11,231,886
2029	431,773	939,008	9,620,135	10,990,915
2030	414,889	986,804	9,292,508	10,694,202
2031	417,812	1,023,219	8,984,171	10,425,202
2032	400,475	1,064,634	8,638,961	10,104,069
2033	389,244	1,075,770	8,290,394	9,755,407
2034	374,741	1,093,813	7,935,912	9,404,466
2035	360,688	1,098,025	7,565,486	9,024,198
2036	357,453	1,092,782	7,178,576	8,628,811
2037	352,150	1,087,077	6,777,417	8,216,643
2038	336,848	1,076,491	6,364,754	7,778,094
2039	330,426	1,060,651	5,943,827	7,334,904
2040	323,360	1,040,049	5,518,293	6,881,702
2041	315,619	1,017,494	5,092,088	6,425,201
2042	307,111	992,862	4,669,293	5,969,266
2043	297,813	966,028	4,254,009	5,517,851
2044	287,690	936,898	3,850,213	5,074,800
2045	276,717	905,399	3,461,597	4,643,714
2046	264,897	871,513	3,091,440	4,227,850
2047	252,255	835,264	2,742,479	3,829,998
2048	238,847	796,733	2,416,811	3,452,391
2049	224,763	756,059	2,115,853	3,096,675
2050	210,123	713,444	1,840,366	2,763,933
2051	195,080	669,151	1,590,468	2,454,700
2052	179,807	623,505	1,365,717	2,169,029
2053	164,482	576,891	1,165,212	1,906,585
2054	149,279	529,743	987,713	1,666,735
2055	134,357	482,538	831,729	1,448,624
2056	119,860	435,790	695,620	1,251,271
2057	105,931	390,027	577,682	1,073,641
2058	92,701	345,775	476,194	914,671
2059	80,291	303,529	389,478	773,298
2060	68,800	263,725	315,944	648,469
2061	58,301	226,717	254,083	539,102
2062	48,836	192,769	202,492	444,096
2063	40,416	162,046	159,873	362,336
2064	33,030	134,629	125,026	292,685

2065	26,644	110,503	96,846	233,993
Plan Year	**Active Participants**	**Terminated Vested Participants**	**Retired Participants and Beneficiaries Receiving Payments**	**Total**
2066	21,203	89,577	74,323	185,103
2067	16,637	71,686	56,537	144,861
2068	12,865	56,614	42,665	112,143
2069	9,799	44,102	31,975	85,876
2070	7,348	33,871	23,832	65,052
2071	5,423	25,634	17,695	48,751

Schedule SB Attachment (Form 5500)—2022 Plan Year
Bosch Braking Systems Corporation Pension Plan for Hourly Employees
EIN: 36-2903176 PN: 006

Schedule SB, Part V—Summary of Plan Provisions

Effective Date

April 1, 1990 Budd and April 1, 1996 Master amended and restated effective January 1, 2017. The latest amendment dated July 27, 2018.

Eligibility for Participation

Budd

Union employees covered by UAW Local No. 1886 (Frankfort Plant—closed effective January 31, 1998), 1910 (Ashland Plant, Production and Maintenance Unit and Clerical Unit—closed effective July 1, 2002), and 2155 (Johnson City Plant—closed effective August 15, 2010).

Master

Union employees at St. Joseph Plant who are covered by the UAW Master Agreement. (St. Joseph's Plan closed to new entrants effective September 1, 2012.)

Normal Retirement

Eligibility

Budd

Age 65 and eight years of credited service.

Master

Later of age 65 or five years of eligibility service.

Benefit

Budd

A monthly amount equal to (1) minus (2):

(1) Years of credited service multiplied by an amount determined in connection with the date of termination of employment as follows:

Termination Date	Amount
Prior to 12/01/1999	$30.00
12/01/1999–12/31/2002	$32.25
01/01/2003–12/31/2003	$33.50
01/01/2004–12/31/2004	$34.75
01/01/2005–12/31/2008	$36.00
01/01/2009 and after	$37.00

(2) Prior Budd plan benefits.

Master

A monthly amount calculated as years of credited service (with such service frozen effective December 31, 2017) multiplied by an amount determined in connection with the date of termination of employment as follows:

Termination Date	Amount
Prior to 05/06/2003	$37.00
05/06/2003–05/05/2004	$38.50
05/06/2004–05/05/2005	$40.00
05/06/2005–05/05/2006	$41.50
05/06/2006 and after	$43.00

For participants who retire during the current contract period, benefits will be recalculated each June 1 using the current benefit level. There would be no such recalculation after 2006.

Early Retirement Eligibility

Budd

(1) Age 60 and 10 years of credited service; or

(2) Age 55 and 25 years of credited service; or

(3) 30 years of credited service.

Master

(1) Age 60 and 10 years of eligibility service; or

(2) Age 55 and 85 points based on eligibility service; or

(3) 30 years of credited service.

Benefit

Normal retirement benefit multiplied by the percentage in the table below:

Commencement Age	Percent of Normal Retirement Benefit
62+	100.0%
61	93.3%
60	86.7%
59	80.8%
58	75.2%
57	69.4%
56	63.5%
55	57.9%
54	53.2%
53	48.9%
52	45.0%
51	41.5%
50	38.3%
49	35.4%
48	32.8%
47	30.4%

If the participant elects to commence benefits before age 62 and either (1) or (2) below applies (for Budd) or (1) below applies (for Master), then the benefit payable after age 62 will increase to the regular normal retirement benefit. For Budd, if the participant elects the joint and survivor option, the calculation of the joint and survivor benefit is based on the unreduced regular normal retirement benefit even if the commencement age is before age 62.

(1) At least 30 years of credit service at early retirement date; or

(2) Age plus total credited service at early retirement date is at least 85.

In addition, a monthly supplement allowance shall be paid until age 62, determined as follows:

(1) At least 30 years of credited service: The early retirement supplement is equal to the minimum monthly benefit minus regular early retirement benefit:

Commencement Date	Minimum
Budd	
Prior to 10/31/1995	$1,950
10/31/1995–12/31/2002	$2,160
01/01/2003–12/31/2008	$2,300
01/01/2009 and after	$2,400
Master	
Prior to 05/06/2003	$2,160
05/06/2003–05/05/2004	$2,210
05/06/2004–05/05/2005	$2,260
05/06/2005–05/05/2006	$2,310
05/06/2006 and after	$2,360

(2) Less than 30 years of credited service: The interim supplement is calculated as years of credited service multiplied by an amount determined in connection with the attained age at retirement as follows:

Attained Age at Retirement	Monthly Interim Supplement Rate
Budd	
55	$16.40
56	$19.32
57	$23.16
58	$26.99
59	$30.65
60–61	$35.50
Master	
55	$14.55
56	$17.15
57	$20.55
58	$23.95
59	$27.20
60–61	$31.50

Credit service for calculation of the interim supplement is not frozen.

Mutual Consent Early Retirement

Eligibility

Age 55 but not yet 65, 10 years of credited service (for Budd) or eligibility service (for Master), and mutual consent between the participant and the company.

Benefit

Unreduced normal retirement benefit.

In addition, a monthly special temporary benefit is paid until age 62 and one month, calculated as years of credited service (maximum of 30 years) multiplied by an amount determined in connection with the commencement date as follows:

Commencement Date	Amount
Budd	
Prior to 01/01/2003	$35.00
01/01/2003–12/31/2003	$36.00
01/01/2004–12/31/2004	$37.00
01/01/2005 and after	$38.00
Master	
After 05/04/1992	$35.00

Furthermore, a monthly early retirement supplement shall be paid until age 62 and one month (30 years of credited service is required for Budd), determined as the maximum monthly benefit minus regular early retirement benefit (including the special temporary benefit):

Commencement Date	Maximum
Budd	
Prior to 10/13/1995	$1,950
11/01/1995–12/31/2002	$2,160
01/01/2003–12/31/2008	$2,300
01/01/2009 and after	$2,400
Master	
Prior to 06/01/2003	$2,160
06/01/2003–05/31/2004	$2,210
06/01/2004–05/31/2005	$2,260
06/01/2005–05/31/2006	$2,310
06/01/2006 and after	$2,360

Vested Termination

Eligibility — Five years of vesting service (for Budd) or eligibility service (for Master).

Benefit — The accrued benefit at the date of termination.

Budd — Reduced payments may begin any time after age 60, or any time after 55 if having at least 25 years of credited service. The factors are:

Commencement Age	Percent of Normal Retirement Benefit
65	100.0%
64	100.0%
63	100.0%
62	100.0%
61	93.3%
60	86.7%
59	80.8%
58	75.2%
57	69.4%
56	63.5%
55	57.9%

Master

Reduced payments may begin any time after age 60, or any time after 55 if having at least 85 points (based on credited service). Reduction is 5/9 of 1% for each of the first 60 months the commencement precedes age 65, and 5/18 of 1% thereafter.

Disability

Eligibility

Ten years of credited service (for Budd) or eligibility service (for Master).

Benefit

The accrued benefit based on credited service (with such service frozen effective January 1, 2018) and multiplier level at the date of disability, payable beginning five months after disability occurs or after the cessation of weekly accident and sickness benefits if later. The accrued benefit is unreduced.

In addition, a monthly special temporary benefit shall be paid until age 62 and one month, calculated as years of credited service (maximum of 30 years) multiplied by $35 (for Master) or after January 1, 2005, $38 (for Budd).

Furthermore, a monthly early retirement supplement shall be paid until age 62 and one month (30 years of credited service is required for Budd), determined as the maximum monthly benefit below minus regular disability retirement benefit (including the special temporary benefit).

Disability benefits at St. Joseph location is eliminated for disabilities that occur after March 31, 2018.

Commencement Date	Maximum
Budd	
11/01/1999-12/31/2002	$2,160
01/01/2003–12/31/2008	$2,300
01/01/2009 and after	$2,400
Master	
Prior to 05/06/2003	$2,160
05/06/2003–05/05/2004	$2,210
05/06/2004–05/05/2005	$2,260
05/06/2005–05/05/2006	$2,310
05/06/2006 and after	$2,360

Surviving Spouse

Eligibility

Five years of vesting service (for Budd) or eligibility service (for Master) and married for at least one year prior to death.

Benefit

A monthly benefit payable to the surviving spouse beginning at the employee's earliest commencement age equal to 60% of the amount payable as if the participant had commenced with a 60% joint and survivor benefit.

Special Age 65 Benefit

Eligibility

Retirees or their surviving spouses who enroll in the voluntary Medicare coverage (excluding deferred vested participants or their surviving spouses).

Benefit

A monthly benefit payable starting at age 65 for the life of retiree or surviving spouse:

Date Benefit is Payable	Amount
Budd	
01/01/1996–12/31/1996	$42.00
01/01/1997–12/31/1997	$44.00
01/01/1998–12/31/1998	$46.00
01/01/1999–12/31/2002	$52.00
01/01/2003–12/31/2008	$65.00
01/01/2009 and after	$96.40
Master	
02/01/1996–01/31/1997	$42.00
02/01/1997–01/31/1998	$44.00
02/01/1998–01/31/1999	$46.00
02/01/1999–05/31/2003	$52.00
06/01/1999–12/31/2008	$70.00
01/01/2009–08/31/2010	$96.40

Effective October 1, 2010, except for a group of former Honeywell participants (whose special age 65 benefits are capped at $70.00 per month), the special age 65 benefits for participants under Master are no longer paid from the pension trust. This applies to both current retirees and future retirees.

Normal Form of Annuity	
Without Spouse	Single life annuity.
With Spouse	60% joint and survivor annuity with pop-up. Participant's pension is reduced to 95% (and increased or decreased 0.5% for each year by which the participant is more than five years younger or older, respectively, than the spouse). Participant receives reduced lifetime benefit and, in event of participant's death, 60% of reduced benefit continues to surviving spouse. Reduction is restored if the spouse pre-decease the participant or divorce the participant. Participants who terminated employment prior to January 1, 2016 with a deferred vested benefit were offered a one-time lump sum during 2016. Forms of payments were lump sum or immediate annuity.
Optional Forms of Annuity	75% joint and survivor annuity with pop-up.
Actuarial Equivalence	Applicable mortality table per section 417(e)(3) of Internal Revenue Code and 6% interest rate.
Plan Year	January 1 to December 31.
Credited Service	
Budd	Lesser of (1) total continuous service, or (2) total hours worked divided by 1,700. Round to nearest quarter.
Master	One year of benefit service is earned if the participant works 1,700 or more hours in one plan year (prorated to the nearest one-twelfth if less than 1,700 hours).
Vesting Service	
Budd	One year of vesting service is earned if the participant works 1,000 or more hours in one plan year.
Eligibility Service	
Master	One year of vesting service is earned if the participant works 1,000 or more hours in one plan year.

Plan Changes Since the Prior Year

The funding valuation does not reflect any plan changes.

Other Information to Fully and Fairly Disclose the Actuarial Position of the Plan

Due to software limitations with the electronic filing process, information filed electronically cannot be controlled by the Enrolled Actuary. The values on the signed Schedule SB will govern to the extent there are any differences in the entries filed electronically and the actual data contained on the signed Schedule SB.

Under the American Rescue Plan Act of 2021 (ARPA), the stabilized interest rates for certain purposes will be adjusted once the ARPA stabilization is applied. By default, this stabilization would have applied starting with the 2020 plan year.

On September 21, 2021, Robert Bosch LLC elected to defer applying the stabilized interest rates to the 2022 plan year. This Schedule SB reflects stabilized 2022 minimum funding interest rates that are adjusted for ARPA.

Schedule SB Attachment (Form 5500)—2022 Plan Year
Bosch Braking Systems Corporation Pension Plan for Hourly Employees
EIN: 36-2903176 PN: 006

Schedule SB, line 24—Change in Actuarial Assumptions

The funding valuation reflects the following assumption change:

- A change in the expected return on assets (before limited by the 3rd segment rate) from 3.90% for 2021 to 3.00% for 2022.

This assumption change did not reduce the funding shortfall, so approval of the Commissioner is not required.