

# Manufacturing



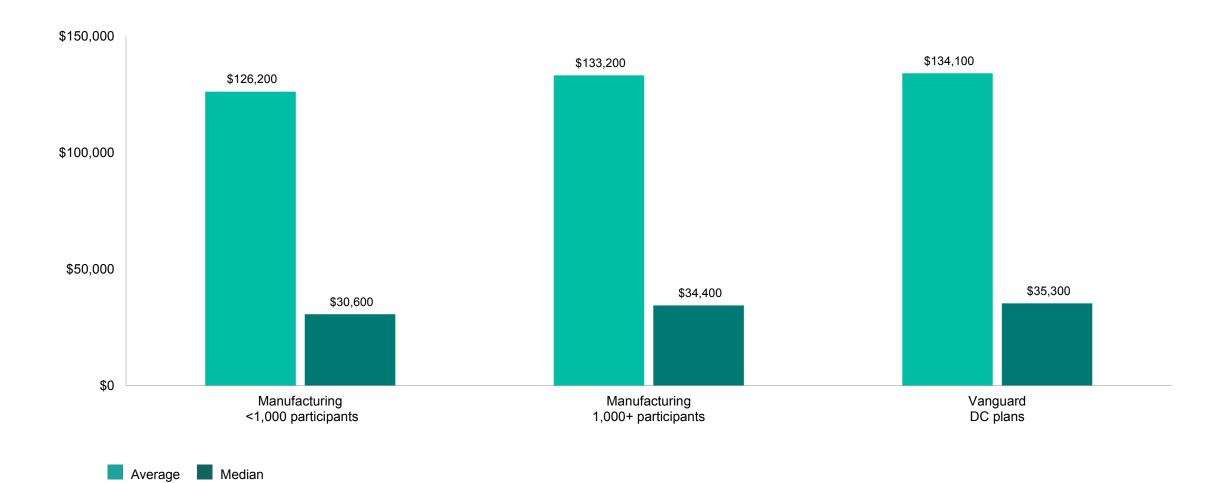
# **Benchmark population**

	Manufacturing <1,000 participants	Manufacturing 1,000+ participants	Vanguard DC plans
Number of plans	202	166	1,550
Number of participants	76,316	795,187	4.8 million
Average number of participants	378	4,790	3,100
Median number of participants	308	2,788	610
Amount of assets	\$9.6 billion	\$105.9 billion	\$644.7 billion
Average assets	\$47.7 million	\$638.1 million	\$418.9 million
Median assets	\$34.2 million	\$297.2 million	\$79.5 million

The manufacturing industry is defined as NAICS (North American Industry Classification System) sectors 31, 32, and 33.

Source: Vanguard, as of December 31, 2023.

# **Participant balances**



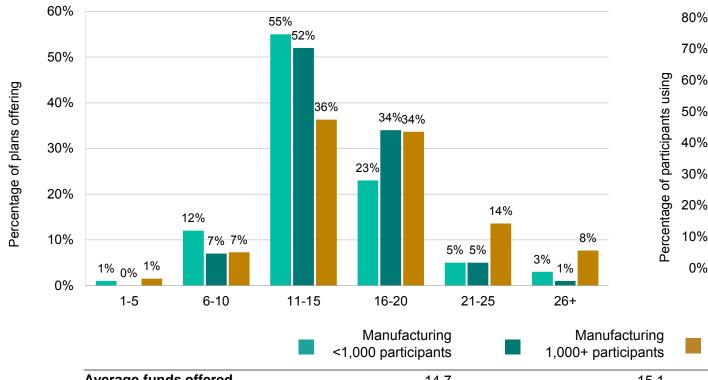
Source: Vanguard, as of December 31, 2023.

Bars in chart may not align precisely with percentages due to rounding.

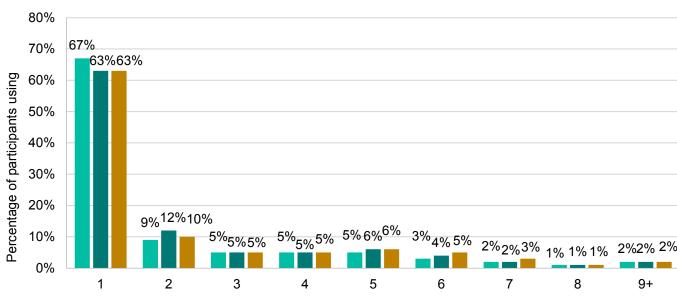
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# Number of fund options offered and used





#### Funds used per participant



	Manufacturing <1,000 participants	Manufacturing 1,000+ participants	DC plans
Average funds offered	14.7	15.1	17.5
Median funds offered	14	15	16
Average funds used	2.1	2.2	2.3
Median funds used	1	1	1

Source: Vanguard, as of December 31, 2023.

Bars in chart may not align precisely with percentages due to rounding.

# Types of investment options offered and used\*

	Manufacturing <1,000 participants		Manufacturi	Manufacturing 1,000+ participants		Vanguard DC plans	
	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*	
Cash	99%	15%	100%	11%	99%	11%	
Money market	65%	7%	68%	3%	71%	6%	
Stable value/GIC	72%	14%	83%	10%	68%	10%	
Bond funds	99%	13%	100%	14%	99%	17%	
Active	72%	7%	83%	5%	80%	7%	
Index	86%	11%	95%	12%	90%	14%	
Inflation-protected securities	22%	3%	20%	2%	35%	3%	
Multisector	6%	2%	5%	1%	7%	2%	
High-yield	9%	5%	5%	4%	18%	4%	
International	18%	2%	16%	5%	19%	5%	
Emerging markets	0%	0%	0%	0%	1%	2%	
Balanced funds	99%	86%	100%	89%	99%	86%	
Traditional balanced	65%	13%	51%	10%	63%	13%	
Target-risk	1%	2%	3%	1%	2%	1%	
Target-date	95%	81%	100%	87%	96%	83%	
Company stock	3%	26%	23%	40%	8%	23%	
Self-directed brokerage	8%	2%	16%	1%	21%	1%	

<sup>\*</sup> Among participants offered the option. Source: Vanguard, as of December 31, 2023.

# Types of investment options offered and used\* (continued)

	Manufactur	Manufacturing <1,000 participants		Manufacturing 1,000+ participants		Vanguard DC plans	
	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*	
Equity funds	100%	28%	100%	26%	99%	31%	
Domestic equity funds	100%	27%	100%	26%	99%	30%	
Large-cap index	99%	20%	99%	21%	99%	14%	
Large-cap active	87%	16%	91%	12%	89%	26%	
Large-cap value	86%	9%	82%	8%	87%	9%	
Large-cap growth	90%	14%	90%	10%	90%	13%	
Large-cap blend	100%	20%	99%	20%	99%	24%	
Mid-cap index	83%	10%	89%	13%	84%	14%	
Mid-cap active	42%	7%	42%	7%	52%	7%	
Small-cap index	53%	9%	50%	10%	63%	11%	
Small-cap active	63%	7%	65%	6%	64%	7%	
Socially responsible	4%	1%	10%	2%	17%	5%	
International equity funds	96%	13%	100%	16%	97%	19%	
Index international	67%	8%	93%	12%	81%	14%	
Active international	80%	10%	88%	8%	83%	9%	
Emerging markets	19%	4%	23%	4%	35%	9%	
Global equity funds	11%	6%	6%	3%	16%	3%	

<sup>\*</sup> Among participants offered the option. Source: Vanguard, as of December 31, 2023.

# Types of investment options offered and used\* (continued)

	Manufacturii	Manufacturing <1,000 participants		Manufacturing 1,000+ participants		Vanguard DC plans
	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*
Sector funds	22%	5%	26%	4%	39%	6%
REIT	16%	4%	20%	4%	33%	5%
Health care	5%	13%	1%	1%	8%	6%
Energy	1%	6%	0%	0%	4%	4%
Precious metals	0%	2%	0%	0%	2%	2%
Technology	0%	3%	1%	6%	3%	5%
Utilities	1%	2%	0%	0%	1%	2%
Natural resources	0%	23%	1%	15%	1%	4%
Financials	0%	0%	0%	0%	<0.5%	<0.5%
Communications	0%	8%	0%	0%	<0.5%	1%
Consumer	0%	0%	0%	0%	<0.5%	1%
Industrials	0%	0%	0%	0%	<0.5%	<0.5%

<sup>\*</sup> Among participants offered the option. Source: Vanguard, as of December 31, 2023.

# Target-date fund availability and use

		Manufacturing <1,000 participants	Manufacturing 1,000+ participants	Vanguard DC plans
Percentage of plans offering		95%	100%	96%
Plan assets invested*		39%	44%	41%
	<10%	3%	0%	5%
	10%–19%	8%	2%	8%
Development of plan accepts*	20%–29%	20%	7%	17%
Percentage of plan assets*	30%–39%	22%	26%	20%
	40%–49%	14%	30%	18%
	50%+	33%	35%	32%
Percentage of participants using*		81%	87%	83%
Percentage of participant assets**		64%	62%	62%
	1%–24%	7%	8%	10%
Percentage of participant assets in	25%–49%	6%	8%	8%
target-date funds**	50%–74%	3%	4%	4%
_	75%–99%	4%	9%	6%
	100%	79%	71%	72%
	One target-date fund only	76%	69%	70%
	One target-date fund plus other funds	18%	26%	24%
Percentage of participants owning**	Two or more target-date funds only	2%	1%	2%
	Two or more target-date funds plus other funds	3%	4%	4%

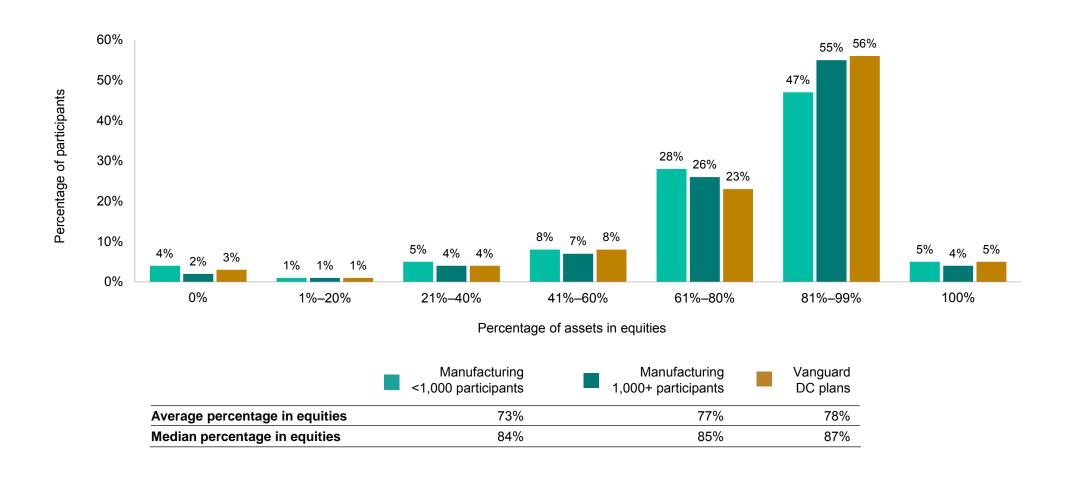
Source: Vanguard, as of December 31, 2023.

Percentages may not total 100% because of rounding.

<sup>\*</sup> Among plans offering target-date options.

<sup>\*\*</sup> Among participants owning target-date options.

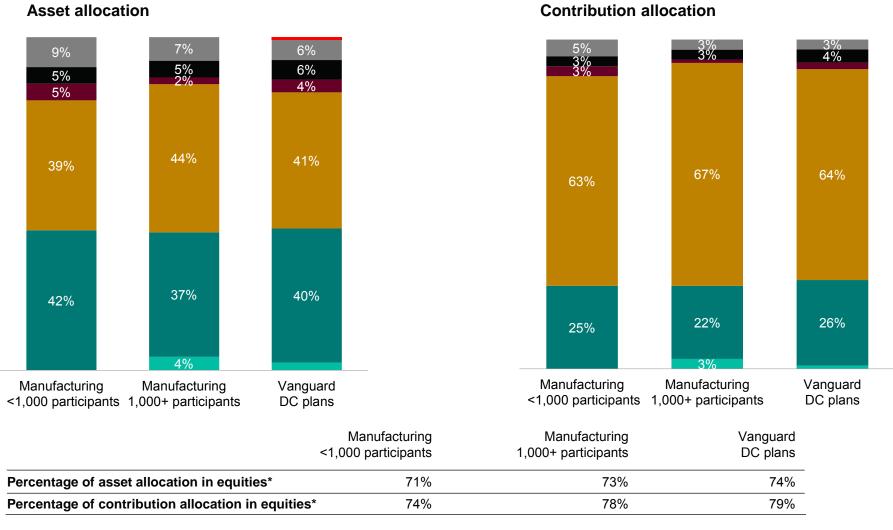
### **Participant equity exposure**



Source: Vanguard, as of December 31, 2023.

Bars in chart may not align precisely with percentages due to rounding.

#### **Asset and contribution allocations**



<sup>\*</sup> Equities include company stock, diversified equity, and the equity portion of balanced funds. Source: Vanguard, as of December 31, 2023.

Bars in chart may not align precisely with percentages due to rounding.

Brokerage

Other balanced

Diversified equity

Company stock

Target-date

Cash Bonds

# Participants with professionally managed allocations

		Manufacturing <1,000 participants	Manufacturing 1,000+ participants	Vanguard DC plans
	Single target-date fund	61%	60%	58%
All norticinants	Single balanced fund	1%	0%	1%
All participants	Managed account program	3%	6%	7%
	Total	65%	66%	66%
	Single target-date fund	91%	91%	86%
New plan entrants during the year	Single balanced fund	0%	0%	1%
	Managed account program	1%	2%	2%
	Total	92%	93%	89%

Source: Vanguard, as of December 31, 2023.

# **Automatic enrollment options\***

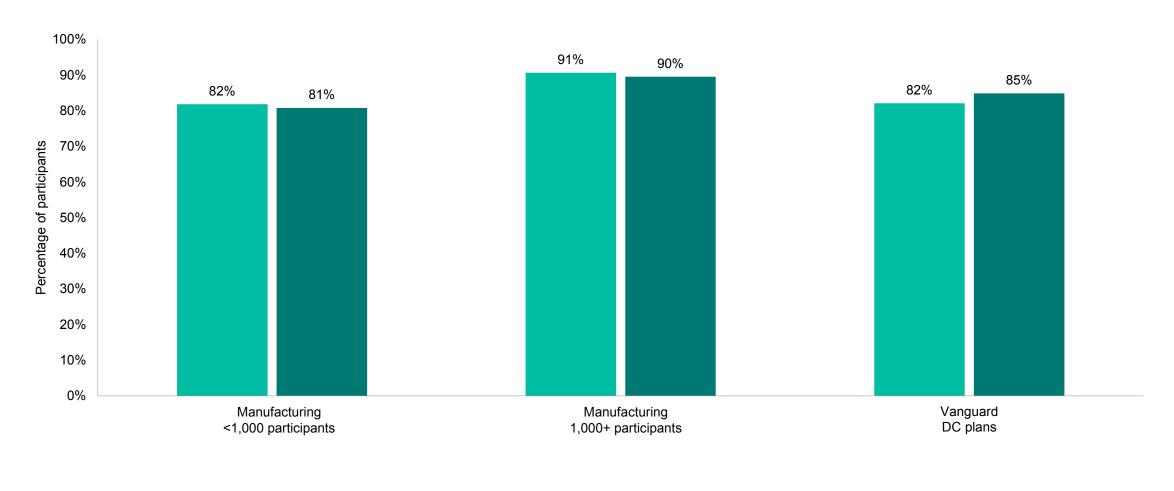
		Manufacturing <1,000 participants	Manufacturing 1,000+ participants	Vanguard DC plans
Automatic onrollment*	Number of plans	117	143	842
Automatic enrollment	Percentage of plans	60%	88%	59%
	1 percent	3%	1%	2%
	2 percent	3%	6%	5%
Default automatic annullment rate	3 percent	39%	36%	33%
Default automatic enforment rate	4 percent	11%	8%	14%
	5 percent	23%	17%	17%
	6 percent or more	21%	31%	29%
	1 percent	65%	76%	67%
Default automatic increase rate	2 percent	2%	1%	2%
Default automatic increase rate	Voluntary election	26%	21%	25%
Percentage of plans  1 percent 2 percent 3 percent 4 percent 5 percent 6 percent or more  1 percent 2 percent 6 percent 6 percent 7 percent 1 percent 2 percent 6 percent 1 percent 2 percent 2 percent 2 percent 3 percent 2 percent 2 percent 2 percent 3 percent 4 percent 2 percent 4 percent 5 percent 6 percent	Service feature not offered	8%	2%	6%
	<6 percent	0%	3%	2%
	6 to 9 percent	21%	15%	17%
Default automotic increase con	10 to 14 percent	54%	42%	49%
Default automatic increase cap	15 to 19 percent	18%	25%	22%
	20+ percent	3%	12%	6%
	No cap	5%	3%	4%
	Target-date fund	100%	100%	98%
Default fund	Other balanced fund	0%	0%	1%
	Money market or stable value fund	0%	0%	1%

Source: Vanguard, as of December 31, 2023.

Percentages may not total 100% because of rounding.

<sup>\*</sup> Limited to plans using Vanguard's automatic enrollment service.

# **Participation rates**



Source: Vanguard active plans with nondiscrimination testing completed during the past two years. Bars in chart may not align precisely with percentages due to rounding.

Participant weighted Plan weighted

# Participant deferral rates

		Manufacturing <1,000 participants	Manufacturing 1,000+ participants	Vanguard DC plans
Deferral rates	Average	7.4%	7.3%	7.4%
Deferral rates	Median	6.0%	6.0%	6.2%
	<4.0%	25%	27%	24%
	4.0%-6.0%	22%	20%	20%
Distribution of rates	6.1%-9.9%	28%	30%	32%
	10.0%–14.9%	17%	16%	17%
	15.0%+	7%	7%	7%

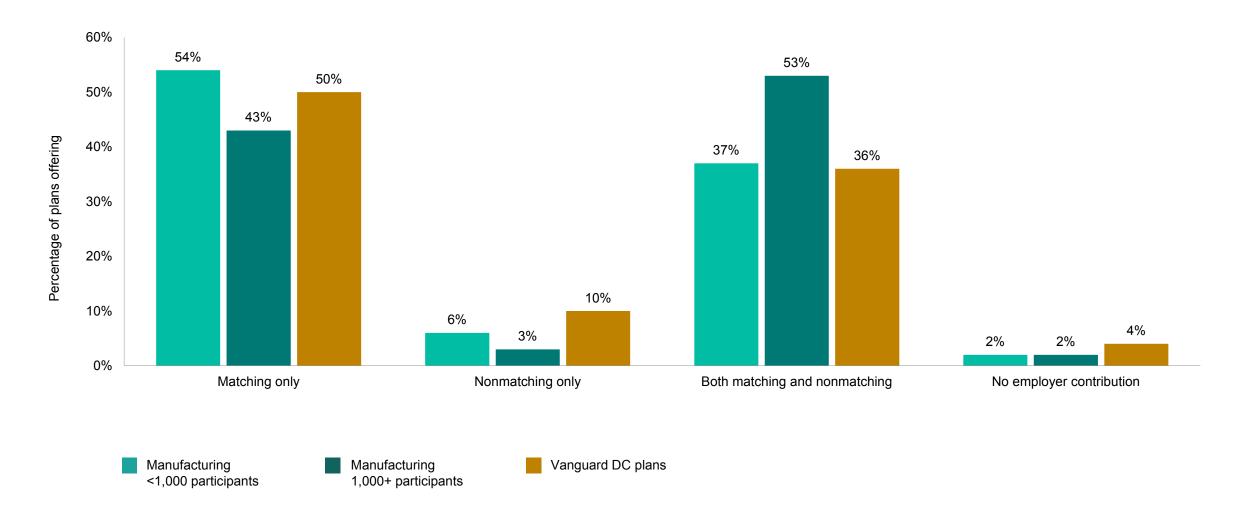
Source: Vanguard active plans with nondiscrimination testing completed during the past two years. Percentages may not total 100% because of rounding.

# Aggregate participant and employer contribution rates

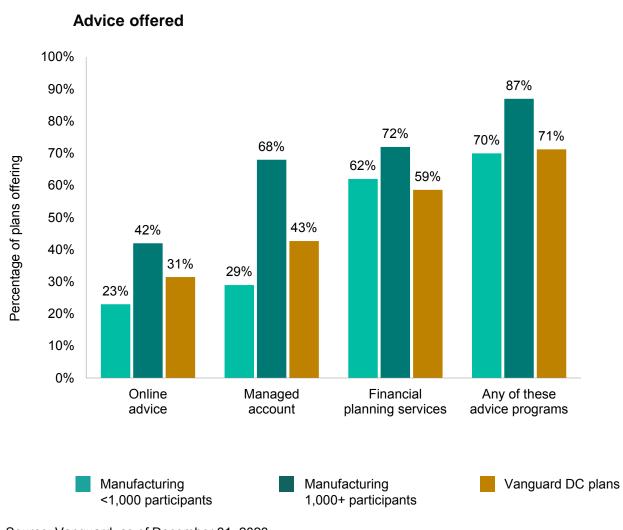
		Manufacturing <1,000 participants	Manufacturing 1,000+ participants	Vanguard DC plans
Total saving rate	Average	11%	12%	12%
	Median	10%	12%	11%
Distribution of rates	<5.0%	17%	15%	14%
	5.0%-8.9%	24%	17%	20%
	9.0%–11.9%	19%	19%	21%
	12.0%–14.9%	17%	18%	20%
	15.0%+	23%	32%	25%

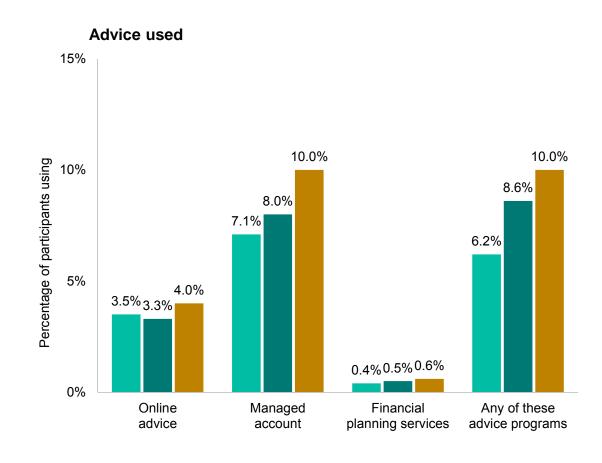
Source: Vanguard active plans with nondiscrimination testing completed during the past two years. Percentages may not total 100% because of rounding.

# Types of employer contributions



#### **Advice services**



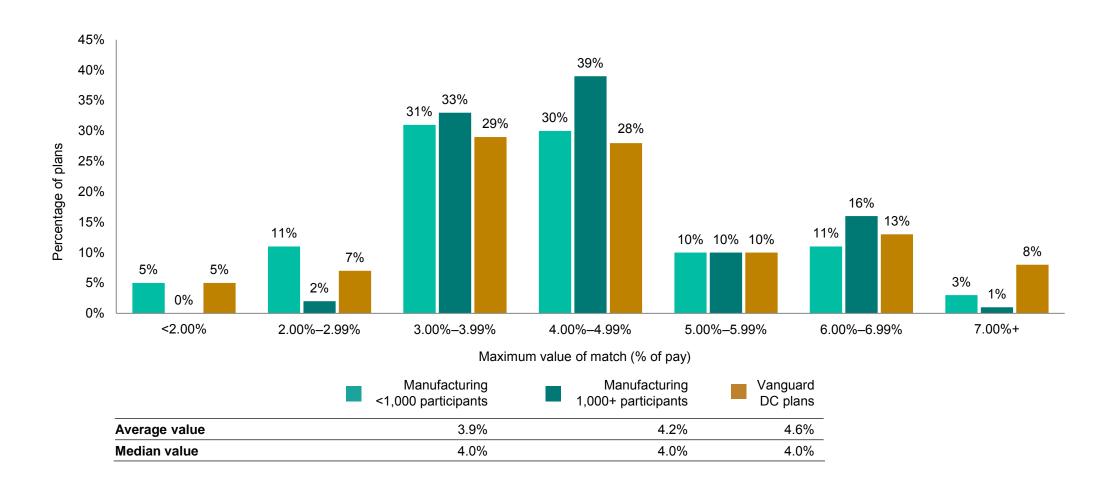


Source: Vanguard, as of December 31, 2023.

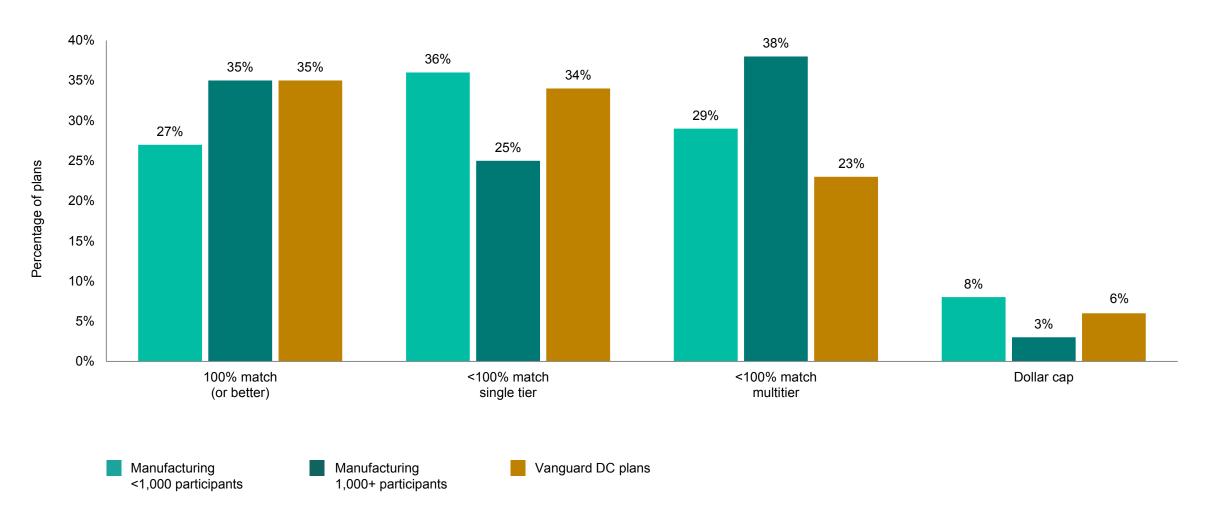
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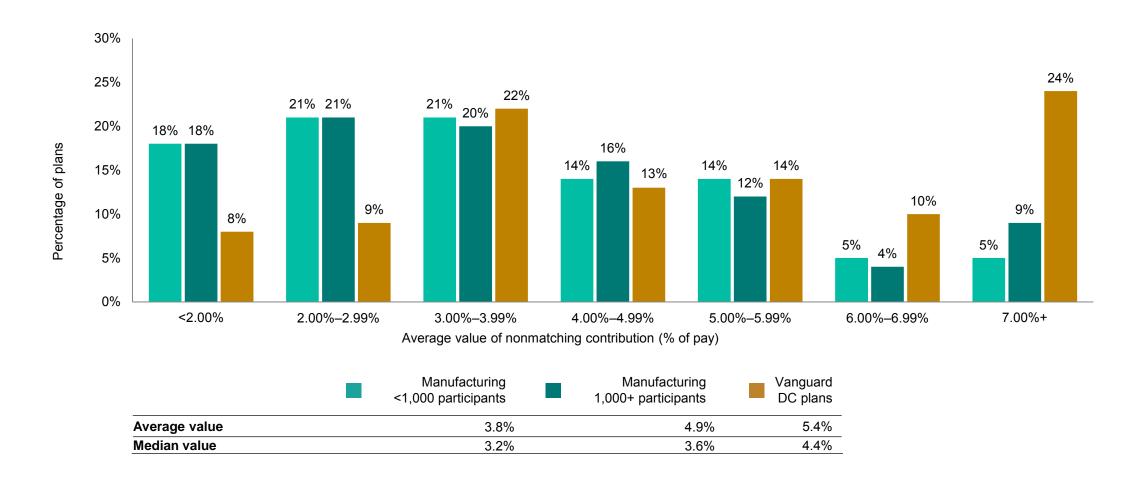
### **Matching contributions**



# **Matching formulas**



#### Nonmatching/Profit-sharing employer contributions



# Roth availability and use

		Manufacturing <1,000 participants	Manufacturing 1,000+ participants	Vanguard DC plans
Percentage of plans offering Roth (among plans with elective deferrals)		62%	91%	82%
Percentage of plan assets invested in Roth*		2.6%	2.4%	4.4%
	<1%	13%	9%	9%
	1%–2%	46%	47%	34%
Distribution of accounts as of also counts in Dath	3%–5%	29%	41%	33%
Distribution of percentage of plan assets in Roth	6%–9%	8%	1%	15%
	10%–14%	2%	1%	5%
	15%+	2%	1%	3%
Percentage of participants with assets in Roth*		13%	13%	18%
Percentage of participant assets in Roth**		15%	13%	18%
	1%–24%	57%	64%	50%
	25%-49%	23%	21%	24%
Distribution of participant assets in Roth	50%-74%	15%	12%	14%
	75%–99%	3%	3%	6%
	100%	1%	1%	3%
Percentage of participants making Roth contributions (past 12 months)***		14%	14%	17%
Percentage of participant contributions going to Roth**		56%	51%	54%
	1%–24%	20%	25%	22%
	25%-49%	24%	28%	26%
Distribution of percentage of participant contributions to Roth	50%–74%	18%	15%	15%
	75%–99%	6%	7%	7%
	100%	33%	25%	29%

Percentages may not total 100% because of rounding.

<sup>\*</sup> Among plans offering Roth.\*\* Among participants using Roth.

<sup>\*\*\*</sup> Among participants making elective deferrals. Source: Vanguard, as of December 31, 2023.

#### Participant loans and in-service withdrawals

		Manufacturing <1,000 participants	Manufacturing 1,000+ participants	Vanguard DC plans
	Percentage of participants with outstanding loans	15%	15%	13%
Outstanding loans*	Percentage of account balance in loans	9%	9%	9%
	Average loan balance	\$9,744	\$9,581	\$10,708
	No loans	85%	85%	87%
Development of active participants with sutstanding leave*	One loan	13%	13%	10%
Percentage of active participants with outstanding loans*	Two loans	2%	2%	3%
	Three+ loans	0%	0%	0%
Loons issued next 42 months*	Average per 1,000 active participants	123	126	105
Loans issued past 12 months*	Average loan amount	\$10,306	\$9,776	\$10,646
Nous boundabing with drawning talence word 40 month att	Average per 1,000 active participants	150	124	113
Nonhardship withdrawals taken past 12 months**	Average withdrawal amount	\$18,640	\$19,591	\$17,112
Handahin with drawale taken most 40 month of	Average per 1,000 active participants	55	112	68
Hardship withdrawals taken past 12 months**	Average withdrawal amount	\$5,529	\$3,965	\$4,730

Source: Vanguard, as of December 31, 2023.

Percentages may not total 100% because of rounding.

<sup>\*</sup> Among plans allowing loans.

<sup>\*\*</sup> Among participants allowed in-service withdrawals.

#### Important information

All investing is subject to risk, including the possible loss of the money you invest. Be aware that fluctuations in the financial markets and other factors may cause declines in the value of your account. There is no guarantee that any particular asset allocation or mix of funds will meet your investment objectives or provide you with a given level of income. Diversification does not ensure a profit or protect against a loss.

A stable value investment is neither insured nor guaranteed by the U.S. government. There is no assurance that the investment will be able to maintain a stable net asset value, and it is possible to lose money in such an investment.

Investments in target-date funds are subject to the risks of their underlying funds. The year in the fund name refers to the approximate year (the target date) when an investor in the fund would retire and leave the workforce. The fund will gradually shift its emphasis from more aggressive investments to more conservative ones based on its target date. An investment in target-date funds is not guaranteed at any time, including on or after the target date.

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