

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

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**FORM 11-K**

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**ANNUAL REPORT  
Pursuant to Section 15(d) of the  
Securities Exchange Act of 1934**

(Mark One)

**ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the year ended December 31, 2019

or

**TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

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**Commission File Number 1-5828**

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**Savings Plan of Amega West Services, LLC**

(Full title of the plan)

**CARPENTER TECHNOLOGY CORPORATION**

(Name of issuer of the securities held pursuant to the plan)

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**1735 Market Street, 15th Floor  
Philadelphia, Pennsylvania, 19103**  
(Address of principal executive office of the issuer)

**Savings Plan of Amega West Services, LLC  
Table of Contents  
December 31, 2019 and 2018**

	<u>Page</u>
<b>Report of Independent Registered Public Accounting Firm</b>	<u><a href="#">1</a></u>
 <b>Financial Statements:</b>	
Statements of Net Assets Available for Benefits as of December 31, 2019 and 2018	<u><a href="#">3</a></u>
Statement of Changes in Net Assets Available for Benefits for the Year Ended December 31, 2019	<u><a href="#">4</a></u>
Notes to Financial Statements	<u><a href="#">5</a></u>
 <b>Supplementary Information:</b>	
Schedule H, Line 4(i) - Schedule of Assets (Held at End of Year) as of December 31, 2019	<u><a href="#">14</a></u>

***Report of Independent Registered Public Accounting Firm***

To the plan administrator and plan participants of  
the Savings Plan of Amega West Services, LLC

**Opinion on the Financial Statements**

We have audited the accompanying statements of net assets available for benefits of the Savings Plan of Amega West Services, LLC (the "Plan") as of December 31, 2019 and 2018, and the related statement of changes in net assets available for benefits for the year ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2019 and 2018, and the changes in net assets available for benefits for the year ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

**Basis for Opinion**

These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on the Plan's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) ("PCAOB") and are required to be independent with respect to the Plan in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

## **Supplemental Information**

The supplemental Schedule H, Line 4(i) - Schedule of Assets (Held at End of Year) as of December 31, 2019 has been subjected to audit procedures performed in conjunction with the audit of the Plan's financial statements. The supplemental information is the responsibility of the Plan's management. Our audit procedures included determining whether the supplemental information reconciles to the financial statements or the underlying accounting and other records, as applicable, and performing procedures to test the completeness and accuracy of the information presented in the supplemental information. In forming our opinion on the supplemental information, we evaluated whether the supplemental information, including its form and content, is presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. In our opinion, the supplemental information is fairly stated, in all material respects, in relation to the financial statements as a whole.

/s/ Baker Tilly Virchow Krause, LLP

We have served as the Plan's auditor since 2004.  
Lancaster, Pennsylvania  
June 18, 2020

**Savings Plan of Amega West Services, LLC**  
**Statements of Net Assets Available for Benefits**  
**December 31, 2019 and 2018**

<i>Dollars in thousands</i>	2019	2018
Investments, at fair value:		
Registered investment companies	\$ 6,011	\$ 4,565
Interest in Carpenter Technology Master Trust Fund	168	96
Common collective trust	70	38
Total investments at fair value	6,249	4,699
Notes receivable from participants	233	246
Net assets available for benefits	<u>\$ 6,482</u>	<u>\$ 4,945</u>

*See accompanying notes to financial statements.*

**Savings Plan of Amega West Services, LLC**  
**Statement of Changes in Net Assets Available for Benefits**  
**Year Ended December 31, 2019**

<i>Dollars in thousands</i>	2019
<b>Investment income:</b>	
Net appreciation in fair value of investments	\$ 899
Interest in Carpenter Technology Master Trust Fund income	44
Dividends	148
Total investment income	1,091
Interest income from notes receivable from participants	14
<b>Contributions:</b>	
Participant	743
Participant rollover	50
Employer	325
Total contributions	1,118
Benefits paid to participants	(676)
Administrative expenses	(10)
Net increase in net assets available for benefits	1,537
Net assets available for benefits, beginning of year	4,945
Net assets available for benefits, end of year	\$ 6,482

*See accompanying notes to financial statements.*

**Savings Plan of Amega West Services, LLC  
Notes to Financial Statements**

**1. Description of the Plan**

The following description of the Savings Plan of Amega West Services, LLC (the "Plan") provides general information. A more complete description of the Plan's provisions can be found in the plan document, which is available to participants upon request from Amega West Services, LLC (the "Company") or Carpenter Technology Corporation (the "Plan Sponsor").

**General**

The Plan is a profit-sharing and stock bonus plan which covers substantially all domestic employees of the Company. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 ("ERISA").

**Contributions**

Each year, participants may contribute up to 100% of annual compensation on a pre-tax basis, and up to 100% of annual compensation on an after-tax basis, as defined by the plan document. The combined contributions cannot exceed 100% of annual compensation on both a pre-tax and after-tax basis. Participants who have attained age 50 before the end of the plan year are eligible to make "catch-up contributions", which are additional pre-tax contributions. Participants may also contribute amounts representing rollover distributions from other qualified pension plans. Participant contributions to the Plan are recorded in the period that payroll deductions are made from the participants. The Company contributes a matching contribution of up to 3% of each participant's base pay, as defined by the plan document. Participants direct the investment of all contributions into various investment options offered by the Plan. Contributions are subject to certain Internal Revenue Service ("IRS") limitations.

**Participant Accounts**

Each participant's account is credited with the participant's contribution, the Company's contribution on behalf of the participant and an allocation of plan earnings based on account balances, as defined. When applicable, participants are charged transaction fees. Participants invested in the Carpenter Technology Stock Fund are charged an administrative fee based on the fund balance. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

**Vesting**

All contributions and plan earnings thereon are immediately and fully vested and non-forfeitable.

**Savings Plan of Amega West Services, LLC**  
**Notes to Financial Statements**

**Notes Receivable from Participants**

Participants may borrow from their accounts a minimum of \$1,000 up to a maximum equal to the lesser of \$50,000 minus the amount of the highest outstanding loan balance on any plan loan during the preceding twelve months, or 50% of their vested account balance minus the current outstanding balance on any other plan loan. Terms range from one to five years for a general purpose loan, and one to ten years for a primary residence loan. The loans are secured by the balance in the participant's account and bear interest at rates that range from 4.25% to 6.50% at December 31, 2019, which represents the Prime Rate on the last business day of the month preceding the month in which the loan was distributed plus 1%. Principal and interest are paid ratably through bi-weekly payroll deductions.

**Payment of Benefits**

Benefits paid to participants include participant withdrawals and participant distributions. Participant withdrawals are withdrawals taken while an active employee of the Company and include hardship withdrawals, non-hardship withdrawals, and withdrawals after age 59½. Participant withdrawals are subject to certain restrictions as defined by the plan document. Upon termination of service due to death, disability, retirement, or other reasons, participants are eligible to receive a lump sum distribution. A participant may elect to defer such distribution provided the account balance is at least \$5,000. The total distribution of benefits to all separated participants must occur by April 1st of the year following the year in which the participant attains age 70½. The payment of benefits from the Carpenter Technology Stock Fund is made in shares of the Plan Sponsor's common stock or cash, at the participant's option. All other payments of benefits are made in cash.

**2. Summary of Significant Accounting Policies**

**Basis of Accounting**

The financial statements of the Plan are prepared on the accrual method of accounting.

**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, liabilities, and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

**Investment Valuation and Income Recognition**

Investments are reported at fair value. Fair value is the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 3 for further discussion of fair value measurements.

Purchases and sales of investments are recorded on a trade-date basis. Interest income within the Master Trust is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation and interest in Master Trust income include the gains and losses on investments bought and sold as well as held during the year.

**Savings Plan of Amega West Services, LLC**  
**Notes to Financial Statements**

**Notes Receivable from Participants**

Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Interest income is recorded on the accrual basis. Delinquent notes receivable are recorded as distributions based upon the terms of the plan document. No allowance for credit losses has been recorded as of December 31, 2019 and 2018.

**Administrative Expenses**

The Plan's assets are administered under a contract with The Vanguard Fiduciary Trust Company (the "Trustee"). The Trustee invests funds received from contributions, investment sales, interest and dividend income and makes benefit payments to participants. Transaction fees and certain administrative fees are paid by the participant. The remaining administrative fees are netted against the investment income in the Statement of Changes in Net Assets Available for Benefits. All other fees are paid by the Plan Sponsor and are excluded from these financial statements.

**Payment of Benefits**

Benefit payments to participants are recorded when paid.

**Recent Accounting Standard**

In August 2018, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") No. 2018-13, *Disclosure Framework - Changes to the Disclosure Requirements for Fair Value Measurement*. ASU No. 2018-13 modifies the disclosure requirements for fair value measurements in Topic 820, *Fair Value Measurement*. The amendments are based on the concepts in the FASB Concepts Statement, *Conceptual Framework for Financial Reporting-Chapter 8: Notes to Financial Statements*, which the FASB finalized on August 28, 2018. ASU No. 2018-13 is effective for fiscal years beginning after December 15, 2019. Early adoption is permitted. Management is currently assessing the impact that ASU No. 2018-13 will have on the Plan's financial statements.

**Subsequent Events**

Effective January 1, 2020, the Plan changed its name to Amega West 401(k) Retirement Plan.

The Plan Sponsor has announced that the Company will close on or before June 30, 2020. The Plan Sponsor has not yet determined the impact to the Plan.

**Savings Plan of Amega West Services, LLC  
Notes to Financial Statements**

**3. Fair Value Measurements**

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). The three levels of the fair value hierarchy under authoritative guidance are described as follows:

*Level 1 Inputs:* Quoted prices (unadjusted) in active markets for identical assets or liabilities that the Plan has the ability to access.

*Level 2 Inputs:* Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.

*Level 3 Inputs:* Unobservable inputs for the asset or liability.

Following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in the methodologies used at December 31, 2019 and 2018.

*Registered investment companies* - Valued at closing price reported on the active market on which the individual funds are traded. These funds are required to publish their daily net asset value ("NAV") and to transact at that price, and are considered to be actively traded.

*Carpenter Technology Stock Fund held within the Master Trust* - Valued at closing price of the Plan Sponsor's common stock as reported on the active market on which the securities are traded.

*Common collective trust* - Valued at the NAV of units of a collective trust. The NAV is used as a practical expedient to estimate fair value and is based on the fair value of the underlying investments held by the fund less its liabilities.

The asset or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques maximize the use of relevant observables and minimize the use of unobservable inputs.

**Savings Plan of Amega West Services, LLC**  
**Notes to Financial Statements**

The following table sets forth by level, within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2019 and 2018.

<i>Dollars in thousands</i>	Fair Value Measurement Using Inputs Considered as	2019	2018
Registered investment companies	Level 1	\$ 6,011	\$ 4,565
Interest in Carpenter Technology Master Trust Fund:			
Carpenter Technology Stock Fund	Level 1	168	96
Common collective trust	(1)	70	38
<b>Total investments at fair value</b>		<b>\$ 6,249</b>	<b>\$ 4,699</b>

(1) Investments that are measured at NAV or its equivalent per share as a practical expedient are excluded from the fair value hierarchy. The fair value presented herein permits reconciliation to the Statements of Net Assets Available for Benefits.

The following table represents the investment at fair value based on NAV per share as of December 31, 2019 and 2018.

<i>Dollars in thousands</i>	2019	2018	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Common collective trust (1)	\$ 70	\$ 38	None	Daily	30 days

(1) The Plan invests in the Prudential Core Plus Bond Fund Collective Trust, which invests in investment-grade fixed income securities, and seeks to outperform the Barclays Capital U.S. Aggregate Bond Index, which broadly represents the performance of debt securities publicly traded in the U.S.

#### **4. Investment in the Master Trust**

The Master Trust is comprised of two funds – the Carpenter Technology Stock Fund and the Standish Mellon Stable Value Fund.

*Carpenter Technology Stock Fund* - The Carpenter Technology Stock Fund holds investments in the common stock of the Plan Sponsor. These investments are reported at fair value.

*Standish Mellon Stable Value Fund* - This fund holds investments in a short-term investment fund which is reported at fair value, as well as investments held in fully benefit-responsive guaranteed investment contracts ("GICs") which are reported at contract value.

**Savings Plan of Amega West Services, LLC**  
**Notes to Financial Statements**

The Master Trust, which is administered by the Trustee, holds the investments of these funds for the Plan Sponsor's participating plans, which include the Plan, the Savings Plan of Carpenter Technology Corporation and the Latrobe Steel Company Voluntary Investment Program. Use of the Master Trust permits the commingling of trust assets for investment and administrative purposes. Although the assets of each plan are commingled in the Master Trust, the Trustee maintains separate supporting records for the purpose of tracking the individual activity of each plan. The investments held in the Master Trust are accounted for at the plan level since the participating plans have a divided interest in assets held in the Master Trust.

The net assets of the Master Trust and the Plan's divided interest in the Master Trust as of December 31, 2019 and 2018 are as follows:

<i>Dollars in thousands</i>	2019	
	Master Trust	Plan's Divided Interest
Investments, at fair value:		
Standish Mellon Stable Value Fund		
Short-term investment fund	\$ 3,840	\$ —
Carpenter Technology Corporation Stock Fund	23,439	168
Total investments at fair value	<u>27,279</u>	<u>168</u>
Investments, at contract value:		
Standish Mellon Stable Value Fund		
Fixed maturity synthetic GIC	5,501	—
Constant duration synthetic GICs	45,134	—
Total investments at contract value	<u>50,635</u>	<u>—</u>
Net assets in Master Trust	<u>\$ 77,914</u>	<u>\$ 168</u>

**Savings Plan of Amega West Services, LLC**  
**Notes to Financial Statements**

<i>Dollars in thousands</i>	2018	
	Master Trust	Plan's Divided Interest
<b>Investments, at fair value:</b>		
Standish Mellon Stable Value Fund		
Short-term investment fund	\$ 4,779	\$ —
Carpenter Technology Corporation Stock Fund	20,852	96
<b>Total investments at fair value</b>	<b>25,631</b>	<b>96</b>
<b>Investments, at contract value:</b>		
Standish Mellon Stable Value Fund		
Fixed maturity synthetic GIC	6,076	—
Constant duration synthetic GICs	44,041	—
<b>Total investments at contract value</b>	<b>50,117</b>	<b>—</b>
<b>Net assets in Master Trust</b>	<b>\$ 75,748</b>	<b>\$ 96</b>

The change in the net assets of the Master Trust for the year ended December 31, 2019 was as follows:

<i>Dollars in thousands</i>		
<b>Investment income:</b>		
Appreciation in fair value of investments		
Carpenter Technology Corporation Stock Fund	\$	8,466
Interest and dividends		
Standish Mellon Stable Value Fund		1,137
Carpenter Technology Corporation Stock Fund		417
<b>Total investment gain</b>		<b>10,020</b>
Net transfers out		(7,854)
<b>Net increase in net assets available for benefits</b>		<b>2,166</b>
Net assets available for benefits, beginning of year		75,748
<b>Net assets available for benefits, end of year</b>	<b>\$</b>	<b>77,914</b>

## 5. Related Party and Party-in-Interest Transactions

The Plan issues loans to participants, which are secured by the participants' account balances. These transactions qualify as party-in-interest. Fees paid by the Plan in 2019 for loan services totaled \$1,000.

**Savings Plan of Amega West Services, LLC  
Notes to Financial Statements**

Certain of the Plan's investments are managed by the Trustee, and therefore, these transactions qualify as party-in-interest transactions. Fees paid by the Plan in 2019 to the Trustee for investment management services related to these funds totaled \$9,000.

The Carpenter Technology Stock Fund held in the Master Trust at December 31, 2019 is invested in shares of the Plan Sponsor, therefore these transactions qualify as related party and party-in-interest transactions. Fees paid to the Trustee by the Plan in 2019 for investment management services related to this fund were nominal. In addition, total purchases and sales in 2019, at market value, were \$37,000 and \$5,000, respectively. The Plan's interest in the Carpenter Technology Stock Fund included 3,387 and 2,701 of equivalent shares with a share price of \$49.78 and \$35.61 as of December 31, 2019 and 2018, respectively.

Certain administrative functions of the Plan are performed by officers or employees of the Company or Plan Sponsor. No such officer or employee receives compensation from the Plan.

**6. Plan Termination**

Although it has not expressed any intent to do so, the Company has the right to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of plan termination, participants will remain fully vested in their accounts.

**7. Tax Status**

The IRS has determined and informed the Company by a letter dated October 10, 2017 that the Plan and related trust are designed in compliance with Section 401(a) of the IRC. Although the Plan has been amended since receiving the determination letter, the plan administrator believes that the Plan is currently designed and being operated in compliance with the applicable requirements of the IRC and therefore believes that the Plan is qualified and the related trust is tax exempt.

Accounting principles generally accepted in the United States of America require management to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The plan administrator has analyzed the tax positions taken by the Plan, and has concluded that as of December 31, 2019, there are no uncertain positions taken or expected to be taken that would require recognition of a liability (or asset) or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress. The plan administrator believes it is no longer subject to income tax examinations for years prior to 2016.

**Savings Plan of Amega West Services, LLC  
Notes to Financial Statements**

**8. Risks and Uncertainties**

The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market and credit risks. Due to the level of risk associated with certain investment securities, 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 participants' account balances and the amounts reported in the Statements of Net Assets Available for Benefits.

As of December 31, 2019 and 2018, the Plan had investments of \$2,192,000 and \$2,108,000, respectively, that were concentrated in two and three funds, respectively.

**Savings Plan of Amega West Services, LLC**

**Schedule of Assets (Held at End of Year)**  
**Form 5500 - Schedule H - Line 4(i)**  
**December 31, 2019**

**EIN: 23-0458500**  
**PN: 025**

(a)	(b)	(c)	(e)
Identity of Issue, Borrower, Lessor or Similar Party	Description of Investment, including Maturity Date, Interest Rate, Collateral, Par or Maturity Value		Current Value
Registered Investment Companies:			
American Funds	American Funds EuroPacific Growth Fund; Class R-6		\$ 6,000
Dodge & Cox	Dodge & Cox Stock Fund		8,000
T. Rowe Price	T. Rowe Price Inst Large Cap Growth Fund; Inst Class		232,000
* Vanguard	Vanguard Institutional Index Fund		402,000
* Vanguard	Vanguard Mid-Cap Index Fund; Institutional Shares		207,000
* Vanguard	Vanguard Small-Cap Index Fund; Institutional Shares		17,000
* Vanguard	Vanguard Institutional Target Retirement 2015 Fund		339,000
* Vanguard	Vanguard Institutional Target Retirement 2020 Fund		190,000
* Vanguard	Vanguard Institutional Target Retirement 2025 Fund		1,322,000
* Vanguard	Vanguard Institutional Target Retirement 2030 Fund		203,000
* Vanguard	Vanguard Institutional Target Retirement 2035 Fund		628,000
* Vanguard	Vanguard Institutional Target Retirement 2040 Fund		225,000
* Vanguard	Vanguard Institutional Target Retirement 2045 Fund		870,000
* Vanguard	Vanguard Institutional Target Retirement 2050 Fund		593,000
* Vanguard	Vanguard Institutional Target Retirement 2055 Fund		302,000
* Vanguard	Vanguard Institutional Target Retirement 2060 Fund		41,000
* Vanguard	Vanguard Institutional Target Retirement 2065 Fund		18,000
* Vanguard	Vanguard Total Bond Market Index Fund; Inst Shares		176,000
* Vanguard	Vanguard Total International Stock Index Fund; Inst Shares		196,000
* Vanguard	Vanguard Treasury Money Market Fund		7,000
Wasatch Computer Tech	Wasatch Core Growth Fund; Institutional Class		29,000
<b>Total Registered Investment Companies</b>			<b>6,011,000</b>
Common Collective Trust:			
Prudential	Prudential Core Plus Bond Fund Collective Trust; Class 6		70,000
* Participant Loans	Loans to Participants - Interest rate range 4.25% - 6.50%		233,000
<b>Total</b>			<b>\$ 6,314,000</b>

*Cost information not included, as all investments are participant-directed*

*The investment in the Interest in Carpenter Technology Master Trust Fund has been excluded from this schedule.*

\* indicates Party-in-Interest

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, Carpenter Technology Corporation has duly caused this annual report to be signed on its behalf by the undersigned hereunto duly authorized.

Savings Plan of Amega West Services, LLC  
(Name of Plan)

June 18, 2020

/s/ Timothy Lain

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Timothy Lain

Vice President and Chief Financial Officer  
(Principal Financial Officer)

EXHIBIT INDEX

Exhibit No.	Description
23.1	Consent of Independent Registered Public Accounting Firm

**Consent of Independent Registered Public Accounting Firm**

We consent to the incorporation by reference in the Registration Statement No. 333-173830 on Form S-8 of our report dated June 18, 2020, which appears in this Annual Report on Form 11-K of the Savings Plan of Amega West Services, LLC for the year ended December 31, 2019.

/s/ Baker Tilly Virchow Krause, LLP

Wyomissing, Pennsylvania  
June 18, 2020