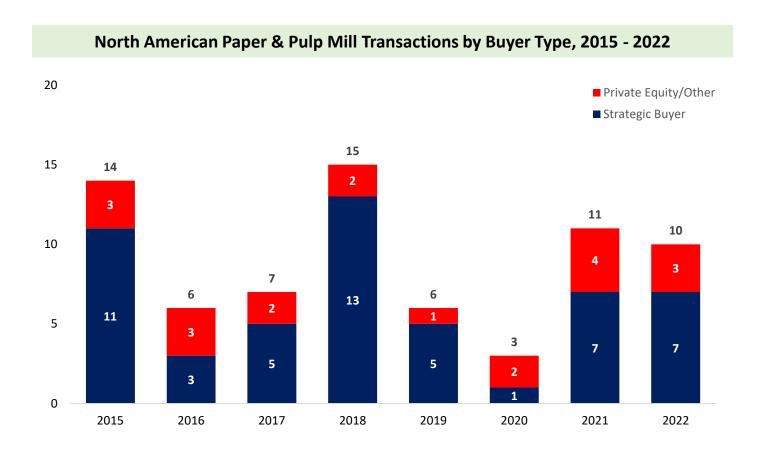
Mill-Related Transactions by Year and Buyer Type

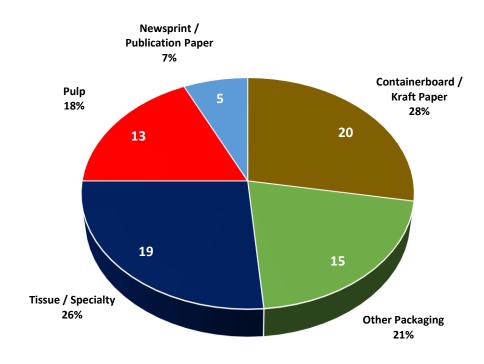
Strategic buyers have driven the majority of paper and pulp mill M&A activity



Mill-Related Transactions by Sector

Packaging grades represent nearly half of the 72 mill-related transactions from 2015 through 2022

North American Paper & Pulp Mill Transactions by Sector, 2015 - 2022



Note: Categorizes conversion transactions based on the planned conversion grade. Categorizes Paper Excellence acquisition of Domtar and Resolute as pulp transactions. Domtar has equal capacity in publication paper and pulp, but the acquiror, Paper Excellence, is primarily a pulp producer. Resolute had larger publication papers capacity than pulp, but equivalent profitability in the two grades since 2019. Categorizes Blackstone acquisition of Sustana as pulp as these grades constitute 61% of capacity; Sustana also produces specialty and publication papers

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2022 featured 10 sector transactions primarily in packaging, specialty papers, pulp and tissue. The two largest transactions were Paper Excellence's acquisition of Resolute Forest Products and the SWM / Neenah merger that formed Mativ

Acquiror	Target	Announced
Marcal	VONDREHLE CORPORATION	Dec. 2022
WYNNCHURCH CAPITAL	DUNN PAPER	Nov. 2022





Nov. 2022





Nov. 2022

Target / Transaction Description

- Von Drehle produces tissue paper at mills in Cordova, NC and Natchez, MS with total capacity of 94,000 tons of parent rolls. The Company also has three tissue converting locations (NC, NV and TN) and an injection-molding plant. Purchase price undisclosed
- Dunn Paper, renamed BiOrigin Specialty Products upon consummation of the transaction, produces tissue and machine-glazed specialty papers at six mills with 270,000 tons of annual capacity. Applications including standard tissue/towel, absorbent products, medical grades, colored tissue, foodservice and standup pouch papers, filtration products and tape base. Transaction involved debt to equity conversion after prior ownership by Arbor Investments
- Sonoco acquired JV partner WestRock's 65% interest in RTS Packaging which converts paperboard partitions, folding cartons and other products at 15 locations (11 US, 2 Mexico, 2 South America).
 Transaction included WestRock's 140,000 ton uncoated recycled board mill in Chattanooga, TN, which supplied RTS. Purchase price of \$330 million
- Eaton, IN and Aurora, IL mills produce uncoated recycled paperboard (URB) with combined annual capacity of 96,000 tons. Purchase price of \$50 million, 50% in cash and 50% seller financing. With the two Nov. 2022 transactions, WestRock largely exits URB other than a gypsum board IV

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Atlas Holdings	CROWN PAPER GROUP	Oct. 2022	 Crown Paper includes the Port Townsend, WA mill, with approximately 266,000 tons of containerboard and kraft paper capacity as well as 95,000 tons of unbleached kraft pulp capacity. The company also operates two corrugated converting plants in British Columbia. Purchase price undisclosed
PAPER EXCELLENCE	resolute Forest Products	July 2022	 Resolute Forest Products produces market pulp (1.3 million metric tons annual capacity), newsprint and publication papers (1.6 million metric tons), tissue (128,000 tons) and lumber (2.9 billion board feet). Purchase price of approximately \$2.6 billion
R Kruger	Domtar Kamloops, BC Mill	May 2022	 The Kamloops mill has capacity to produce 408,000 annual metric tons of NBSK pulp. The sale was required by regulatory authorities as a condition of Paper Excellence's acquisition of Domtar. Purchase price of \$243 million
H. I. G.	Pixelle Specialty solutions**	Apr. 2022	 Pixelle produces specialty papers at four mills in OH, PA, WI and ME with annual capacity of over 1 million tons. Purchase price undisclosed

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Neenah merger that formed Mativ
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Acquiror



Target

Mar. 2022

Announced





Feb. 2022

Target / Transaction Description

- SWM and Neenah combined in an all-stock merger under which SWM's shareholders would hold 58% of the new company shares and Neenah shareholders 42%. The new company was subsequently renamed Mativ. The transaction valued Neenah at a 7% premium to its closing share price the day prior to announcement and an enterprise value of \$1.2 billion. The transaction implied a \$3.3 billion combined enterprise value of Mativ. Neenah produces specialty papers for a range of technical applications as well as premium communication papers and packaging. SWM produces specialty materials (films, nonwovens, foams, netting and tapes) for a range of applications and engineered papers, primarily for cigarettes
- Midwest Paper is a manufacturer and distributor of recycled containerboard, natural kraft & bleached packaging, and printing & writing grades. Midwest Paper has capacity to make 500,000 tons annually on three machines at its Combined Locks, WI, mill. Purchase price of \$204 million

There has been significant transaction activity involving pulp, paper and paper packaging mills since the beginning of 2017. While the acquirors have been strategic buyers for the most part, private equity activity picked up in 2021

Acquiror	Target	Announced	Target / Transaction Description
BILLERUDKORSNÄS	VERSO.	Dec. 2021	 Verso is a manufacturer of coated papers as well as pulp. Two operating mills in MI with 1.4 million annual tons of capacity plus the idled Wisconsin Rapids mill. BillerudKorsnäs intends to invest approximately \$1 billion to convert the Escanaba mill to produce 1.2 million annual tons of paperboard. Purchase price of \$693 million plus \$308 million of assumed unfunded pension liabilities
NORDIC PAPER	GLASSINE CANADA INC.	Dec. 2021	 Glassine Canada is a Quebec based manufacturer of specialty papers with grades including baking pan liners, bacon layout paper, tube winding paper and cupstock. The Company had average annual sales of \$27 million over the prior 3 years with an EBITDA margin of approximately 29%. Purchase price of between \$62 and \$71 million depending upon full year 2021 financial performance
WC WYNNCHURCH CAPIT	APPVION	Dec. 2021	 Appvion produces specialty and high-performance coated products with a focus on direct thermal paper and film offerings as well as fiber- based consumer and industrial packaging. Purchase price undisclosed
Blackstone	SUSTANA	Dec. 2021	 Sustana produces bleached recycled pulp at facilities in QC and WI and specialty papers at a facility in QC. Purchase price undisclosed

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H. I. G.	JACKSON PAPER MANUFACTURING NORTH CAROLINA'S LANGIST PRODUCER OF RICYCLED PAPER	Sep. 2021	 Jackson Paper operates a 115,000 annual ton recycled corrugating medium mill in Sylva, NC and two corrugated sheet feeders in Dalton, GA and Morganton, NC. Purchase price undisclosed
ProAmpac	APC PAPER GROUP	Jul. 2021	 APC Paper Group manufactures recycled kraft paper at mills in Claremont, NH and Norfolk, NY with combined capacity of 100,000 annual tons. The purchase represents a backward integration for packaging converter ProAmpac, making it the only integrated North American producer of bag grades. Purchase price undisclosed
ST Paper [™]	VERSO. Duluth, MN Mill	May 2021	 Verso's Duluth, MN mill produced supercalendered printing papers and recycled pulp until its indefinite closure in June 2020. ST Paper acquired the mill for the purpose of converting it to tissue paper production. Purchase price of \$7 million
PAPER EXCELLENCE	5 Domtar	May 2021	 Domtar is the largest North American producer of uncoated freesheet papers with 2.2 million tons of capacity at 7 mills and a significant producer of market pulp with 2.1 million metric tons of capacity, primarily at 4 dedicated pulp mills. Domtar is also in the process of

converting its shut Kingsport, TN mill to produce 600,000 tons of recycled containerboard. Purchase price of approximately \$3 billion

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ALLRISE CAPITA	PONDERAY NEWSPRINT COMPANY	April 2021	 AllRise Capital acquired the former Ponderay Newsprint mill in Usk, WA in a Chapter 7 bankruptcy auction. AllRise has indicated its intention to convert the site, which had ceased newsprint operations in June 2020, to recycled packaging papers production and cryptocurrency mining. Purchase price of \$18.1 million
PRODUITS FORESTIER GREENFIRS FOREST PRODUCTS	RAYONIER Advanced Materials Sawmill Assets and Kapuskasing Newsprint Mill	April 2021	 Primary assets are 7 sawmills (one idle) in Ontario and Quebec with 905 MMBF of lumber capacity. Acquisition includes the 205,000 annual metric ton Kapuskasing, ON newsprint mill. Purchase price of approximately \$214 million plus \$6 million five year chip offset credit note
Pixelle Specialty solutions	APPVION Carbonless Rolls and Security Papers Business	Feb. 2021	 Sale includes the business but no manufacturing assets. Appvion previously produced carbonless rolls at the 137,000 annual ton Roaring Spring, PA paper mill and announced it will shut down the facility in conjunction with the transaction. Pixelle produces carbonless rolls at its Chillicothe, OH mill. Purchase price not disclosed

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Acquiror	Target	Announced	Target / Transaction Description
Green Shield Limited, LLC	FiberCorr Mills, LLC	Dec. 2020	 FiberCorr operates a corrugated packaging facility in Massillon, OH including a 90,000 ton recycled corrugating medium mill, a corrugator installed in 2019 with 840 MMSF of annual capacity and a single face corrugator with 180 MMSF of annual capacity. Acquired for \$6.8 million in a Section 363 sale under Chapter 11 bankruptcy
BEHRENS INVESTMENT GROUP	WHITE MOUNTAIN TISSUE State of the Art Tissue Manufacturing	Nov. 2020	 Gorham Paper & Tissue and White Mountain Tissue historically produced tissue and away-form-home towel on two paper machines at the Gorham, NH mill. Going forward, the buyer anticipated operating only the tissue machine, with capacity of 36,000 tons. Acquired for approximately \$13 million in a Section 363 sale under Chapter 11 bankruptcy
OX INDUSTRIES	Graphic Packaging INTERNATIONAL White Pigeon, MI Mill	June 2020	 The White Pigeon, MI mill had capacity to produce 70,000 tons of coated recycled board. Graphic Packaging shut the mill in June 2020. Ox Industries acquired the facility to convert it to produce 80,000 tons of uncoated recycled board

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INDUSTRIAL OPPORTUNITY PARTNERS	MI PAPER GROUP	Dec. 2019	 Midwest Paper is a manufacturer and distributor of recycled containerboard, natural kraft & bleached packaging, and printing & writing grades. Midwest Paper has capacity to make 450,000 tons annually on three machines at its Combined Locks, WI, mill. Purchase price undisclosed
PIXELLE SPECIALTY SOLUTIONS"	Jay, ME and Stevens Point, WI Mills	Nov. 2019	 Verso's Androscoggin mill in Jay, ME has the capacity to produce 425,000 tons annually of flexible packaging papers, release liner base, specialty labels, and kraft linerboard and kraft paper. The Stevens Point mill has capacity of 210,000 tons per annum of coated flexible packaging papers, release liner base, thermal papers, and other specialty labels. Purchase price of \$400 million
sappi	RAYONIER Advanced Materials. Matane, QC Pulp Mill	Aug. 2019	 Rayonier Advanced Materials' Matane, QC high-yield/BCTMP hardwood pulp produces 270,000 metric tons annually. Purchase price of \$175 million
Graphic Packaging	ARTISTIC CARTON COMPANY MAKING THE INSIDE COUNT.	July 2019	 Artistic Carton consists of the White Pigeon Paper coated recycled paperboard mill in southwest Michigan, with annual production capacity of 70,000 tons, and two Midwest converting facilities. Purchase price of \$50 million

Acquiror	Target	Announced	Target / Transaction Description
Cascades	ORCHIDS PAPER	July 2019	 Orchids Paper is a producer and converter of recycled and virgin tissue products with parent roll and converting capacity of 110,000 tons and 114,000 tons per annum at facilities in Pryor, OK and Barnwell, SC. Purchase price of \$207 million; acquired through a bankruptcy sale process
SONOCO	CORENSO Holdings America	May 2019	 Corenso Holdings America is a leading U.S. manufacturer of uncoated recycled paperboard (URB) and high-performance cores. Corenso operates a 108,000 ton per year uncoated recycled paperboard mill in WI as well as converting facilities in Wisconsin Rapids, WI and Richmond, VA. Purchase price of \$110 million

Acquiror	Target	Announced	Target / Transaction Description
GREIF. PACKAGING SUCCESS TOBETHER*	☆ Caraustar	Dec. 2018	 Caraustar produces coated and uncoated paperboard and specialty paperboard products, folding cartons and set-up boxes. The Company operates 12 paperboard mills and 52 converting plants (45 industrial and 7 consumer) throughout the North America. Purchase price of \$1.8 billion
FALLS PAPERBOARD	Brattleboro, VT Mill	Nov. 2018	 Neenah's Brattleboro, VT single machine paperboard mill manufactured products for the office products market and other specialty applications. Neenah had announced its intent to shut the facility if it could not locate an operator acquiror. Purchase price of \$5 million
N E W OINDY	resolute Forest Products Catawba, SC Mill	Oct. 2018	 Resolute's Catawba, SC paper and pulp mill produces coated papers and market pulp with total annual capacity of 546,000 tons. New Indy Containerboard intends to convert some output to high-quality, virgin, ultra-lightweight linerboard. Purchase price of \$300 million
OX INDUSTRIES		Oct. 2018	 Carthage Specialty Paperboard in New York has annual capacity of 60,000 tons, producing uncoated recycled specialties for picture framing, pharmaceutical cap closures, rigid and folding cartons, and other applications. Purchase price of \$10 million; acquired through a bankruptcy sale process

Acquiror	Target	Announced	Target / Transaction Description
PAPER EXCELLENCE	Catalyst	Oct. 2018	 Catalyst Paper operates three pulp and paper mills in British Columbia total capacity of 1.3 million tons/yr of NBSK market pulp and paper products including coated mechanical grades, directory paper, newsprint, industrial packaging and food service papers. Purchase price undisclosed
ND PAPER	Old Town, ME Pulp Mill (OTM Holdings)	Oct. 2018	 The Old Town mill, with annual capacity of 155,000 metric tons of market pulp, had been idle since 2015. ND Paper acquired the facility with plans to produce 275,000 annual metric tons of unbleached softwood pulp. Purchase price undisclosed
DUNN PAPER	CLEARWATER PAPER Ladysmith, WI Mill	Aug. 2018	 Clearwater Paper's Ladysmith, WI mill has capacity of 53,000 tons annually on two machines, producing recycled-content tissue parent rolls. Purchase price of \$72 million
LINDSAY GOLDBERG	GLATFELTER Specialty Papers	Aug. 2018	 Glatfelter's Specialty Papers Business Unit produces a range of specialty paper grades at mills in PA and OH with total capacity of 735,000 annual tons. Purchase price of \$360 million

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GWCC 北美麗创 Global Win / Shanying International	VERSO. Wickliffe, KY Mill	Aug. 2018	 Verso's Wickliffe, KY mill had manufactured coated and uncoated paper as well as market pulp with total capacity of 285,000 tons. The mill had been idle since August 2015. Global Win Corp., a subsidiary of Shanying International, announced plans to invest \$150 million to enable the mill to produce pulp and brown paper packaging. Purchase price of \$16 million
ND PAPER	resolute Forest Products Fairmont, WV Mill	Aug. 2018	 Resolute's Fairmont, WV recycled bleached kraft pulp mill has capacity of 218,000 tons per annum. Purchase price of \$55 million
AHLSTROM MUNKSJÖ	EXPERA specialty solutions	July 2018	 Expera Specialty Solutions produces specialty papers including unbleached and bleached food packaging, release liner / label papers, and technical/ industrial products such as backings, barriers and tape. Its four paper mills have combined capacity of 560,000 tons per annum. Purchase price of \$615 million
ND PAPER	Catalyst Rumford, ME and Biron, WI Mills	May 2018	 Catalyst's mills in Rumford, ME and Biron, WI have annual capacity of 980,000 tons of coated papers and, at Rumford, 120,000 metric tons of market pulp. Purchase price of \$175 million

Acquiror	Target	Announced	Target / Transaction Description
SONOCO	conitex sonoco	May 2018	 Conitex Sonoco is a vertically integrated manufacturer of paper-based cones and tubes for the textile industry. Sonoco acquired the remaining 70% interest in the joint venture for \$133 million in cash
TWIN RIVERS PAPER COMPANY	mondi Pine Bluff, AR Mill	April 2018	 Mondi's Pine Bluff, AR mill produces multiwall, converting, and grocery bag unbleached papers with an annual capacity of 140,000 tons. Purchase price undisclosed
WestRock	KAPSTONE	Jan. 2018	 KapStone is a leading producer of containerboard, corrugated products and kraft/specialty papers. It operates four mills with 3 million tons of production capacity, 23 corrugating converting facilities and a packaging distribution business with 60 locations. Purchase price of \$4.9 billion in cash, stock and assumed debt

Acquiror	Target	Announced	Target / Transaction Description
CRANE	CRANE CURRENCY	Dec. 2017	 Crane Currency operates a currency papers production facility (2 paper mills) in Dalton, MA, a currency security thread manufacturing facility in Nashua, NH, a banknote papers production facility in Sweden and a banknote printing facility in Malta. Purchase price of \$800 million
Graphic Packaging	INTERNATIONAL PAPER North America Consumer Packaging	Oct. 2017	 International Paper's North America Consumer Packaging business operates two U.S. coated bleached paperboard mills with 1.2 million tons three U.S. converting facilities, and one U.K. converting facility. Graphic Packaging assumed \$660 million in debt as part of the agreement
INDUSTRIAL ASSETS REAL ESTATE • FINANCE • MACHINERY • AUCTION: industrial assets.com		Sept. 2017	 Appleton Coated had capacity to produce 400,000 tons of paper on three paper machines with off-line coating capacity of 280,000 tons. The mill had historically produced coated and uncoated papers, and recently entered the containerboard market. Acquired for \$21.5 million in a receivership auction. Mill was in a "hot idle" state at the time of purchase
DS Smith	INTERSTATE RESOURCES	June 2017	 Interstate Resources manufactures containerboard at two mills, Riceboro, GA (kraft linerboard, 373,000 tons of annual capacity) and Reading, PA (recycled medium, 207,000 tons of annual capacity). The Company also operates 12 corrugated converting facilities in the Eastern US. DS Smith acquired an 80% stake at an enterprise value of \$1.4 billion

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RAYONIER Advanced Materials.	tembec	May 2017	 Publicly traded producer of dissolving pulp, specialty chemicals, paper pulp, bleached board, newsprint and lumber with operations primarily in Eastern Canada (one dissolving pulp mill in France, one US chemicals facility). Combined annual capacity of 1.3 million tons per year. Purchase price of \$807 million
Atlas Holdings	MILLAR WESTERN	March 2017	 Millar Western is an Alberta, Canada producer of market pulp (BCTMP) at one mill with 320,000 metric tons of annual capacity and two softwood lumber mills (one co-located with the pulp mill). Transaction involved debt exchange (45% reduction of the prior principal of US\$210 million), with private equity investor Atlas Holdings further exchanging its new debt for an 80% equity stake
Bro PAPPEL® el papel sustentable*	NIPPON PAPER GROUP Port Angeles, WA Mill	March 2017	 Nippon Paper's Port Angeles mill had capacity to produce 165,000 annual tons of uncoated groundwood and unbleached bag papers on two machines. It shut down in January 2017, operating only a single 100,000 ton machine prior to the shut. BioPappel acquired the mill intending to convert to 220,000-260,000 tons of containerboard and

specialty packaging papers production. Purchase price of \$20.6 million