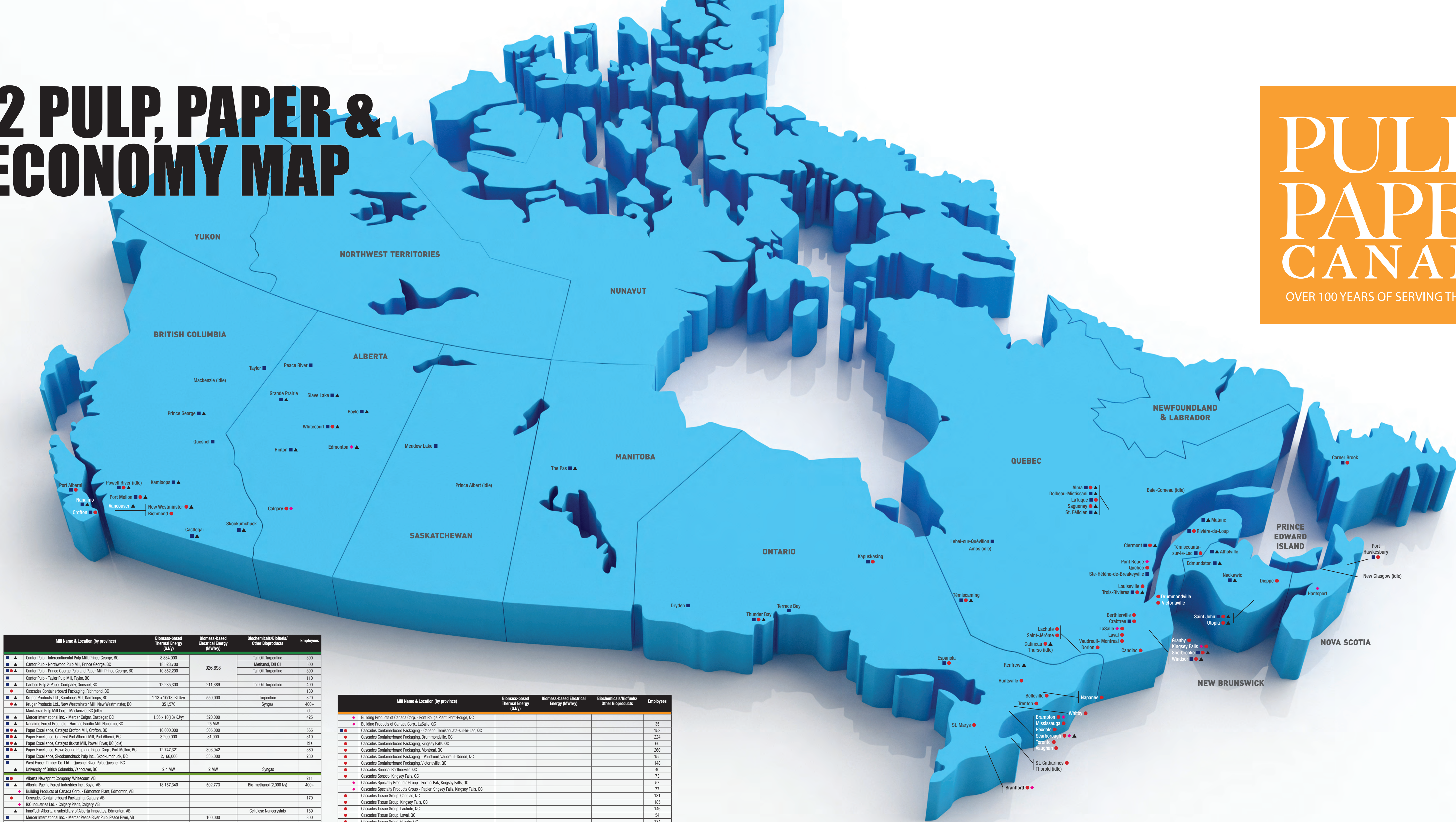


2022 PULP, PAPER & BIOECONOMY MAP

**PULP &
PAPER
CANADA**

OVER 100 YEARS OF SERVING THE INDUSTRY



	Mil Name & Location (by province)	Biomass-based Thermal Energy (GWh/yr)	Biomass-based Electrical Energy (MWh/yr)	Biorefineries/Biofuels/ Other Bioproducts	Employees
■	Cardo Pulp - International Pulp Mill, Prince George, BC	8,884,800		Tall Oil, Turpentine	300
■	Cardo Pulp - Northwood Pulp Mill, Prince George, BC	18,523,700		Methanol, Tall Oil	500
■	Cardo Pulp - Prince George Pulp and Paper Mill, Prince George, BC	10,622,200	906,698		300
■	Cardo Pulp - Taylor Pulp Mill, Taylor, BC				110
■	Cariboo Pulp & Paper Company, Duncan, BC	12,235,300	211,389	Tall Oil, Turpentine	400
■	Cascadian Containerboard Packaging, Richmond, BC				180
■	Kooper Products Ltd., Kamloops Mill, Kamloops, BC	1,193,100(13)Bt/yr	550,000	Turpentine	320+
■	Kooper Products Ltd., Westview Mill, Westview, BC	351,570		Syngas	400+
■	Macdonald Pulp Mill Corp., Melville, BC			Syngas	300
■	Merco International Inc. - Merco Cargill, Cragford, BC	1.36 x 10(13) Kwhr			42+
■	Nanaimo Forest Products - Herman Paper Mill, Nanaimo, BC	29,500			200
■	Nanaimo Forest Products - Herman Paper Mill, Cortis, BC	10,009,000	305,000		200
■	Paper Excellence, Catalyst Pulp Alberta Mill, Port Albert, BC	3,200,000, 81,000			484
■	Paper Excellence, Catalyst BakaMill, Powell River, BC				240
■	Paper Excellence, West Coast Pulp and Paper Corp., Port Mollay, BC	17,421,321	381,642		300
■	Paper Excellence, Skookumchuk Pulp Co., Skookumchuk, BC	2,966,000	335,000		280
■	West Fraser Timber Co. Ltd. - Quatlen Paper Mill, Duncan, BC	2,146,000			200
■	University of British Columbia, Vancouver, BC	2.4 MWh		Syngas	200+
■	Alberta Newsprint Company, Whitecourt, AB				271
■	Alberta Pulp & Forest Industries Inc., Boyle, AB	18,157,340	502,773	Bo-methanol (2,000 t/yr)	400+
■	Bulking Products of Canada Corp. - Edmonton Plant, Edmonton, AB				200
■	Cascadian Containerboard Packaging, Calgary, AB				170
■	IG Industries Ltd. - Calgary Plant, Calgary, AB				170
■	Investech Alberta, a subsidiary of Alberta Innovates, Edmonton, AB				189
■	Merco International Inc. - Merco Paper Pulp, Peace River, AB	107,400		Cellulose Nanofibrates	189
■	Millar Western Forest Products Ltd., Whitecourt Pulp, Whitecourt, AB	489,520		Bogus	110
■	West Fraser Timber Co. Ltd. - Hinton Pulp, Hinton, AB			Lignin	340
■	West Fraser Timber Co. Ltd. - Slave Lake Pulp, Slave Lake, AB	147 MWh		Lignin	342
■	International Paper Global Cellulose Fibres, Grand Prairie Mill, Grand Prairie, AB	10,323,448	4.7 MWh		334
■	Paper Excellence, Meadow Lake Mechanical Pulp Inc., Meadow Lake, SK				200
■	Paper Excellence, Prince Albert Pulp Inc., Prince Albert, SK (shut)				100
■	Canadian Kraft Paper Co. The Pac, MB	3,497,333	67,689		130
■	Cascadian Containerboard Packaging - Winnipeg, MB				285
■	Affya Sips Group - Timmins Bay Pulp Mill, Timmins, ON	0,007,174	89,704	Turpentine	350+
■	Atlantic Pulp Products Ltd. - New Forest Paper Mill, Scarborough, ON			Bogus	400
■	Atlantic Packaging Products Ltd., Toronto, ON				127
■	Cascadian Containerboard Packaging Ltd., Whitby, ON				127
■	Cascadian Containerboard Packaging, Belleville, ON				117
■	Cascadian Containerboard Packaging - Coyle, Scarborough, ON				122
■	Cascadian Containerboard Packaging - Lithwell, Scarborough, ON				127
■	Cascadian Containerboard Packaging - Milliken, Scarborough, ON				60
■	Cascadian Containerboard Packaging, Mississauga, ON				105
■	Cascadian Containerboard Packaging, St. Marys, ON				173
■	Cascadian Containerboard Packaging, Tipton, ON				134
■	Cascadian Containerboard Packaging, Vaughan, ON				268
■	Canter Corp. - Dryden Mill, Dryden, ON				355
■	Danforth Corp. - Espanola Mill, Espanola, ON				455+
■	Danforth Inc. - Colborne, ON				350
■	Enserco, Burnham, ON				180
■	Pharmacia, Thurston Bay, ON			RTG liquid (pyrolysis oil)	100
■	Herman Canada - Bradford, ON			Lignin plant (not a Residual mill)	180
■	IG Industries Ltd. - Brampton Plant, Brampton, ON				550
■	Key Consumer Products Inc., King, Ontario, Toronto, ON				
■	Greenleaf Forest Products Inc., Nepean, ON				
■	Kimberly-Clark Inc. - Brampton, ON				
■	Kooper Products L.P. - International Packaging Plant, Brampton, ON				
■	Kooper Products L.P. - Scarborough Converting Facility, Scarborough, ON				
■	Kooper Products L.P. - Trent Converting Facility, Trenton, ON				
■	Paper Works, Shelburne Paper L.P., Niagara, ON				
■	Reynolds Forest Products - Thorold Division, Thorold, ON (shut)				484
■	Reynolds Forest Products - Thurston Bay Operations, Thurston, ON	8,300,000	90 MWh	Turpentine, Tall Oil, Lignin	455
■	Sinco Canada Forest Products - Bradford, Ontario, ON				450
■	Sinco Canada Forest Products - Trent Valley Mill, Trenton, ON (shut)				450

	MRI Name & Location (by province)	Biomass-based Thermal Energy (GJ/y)	Biomass-based Electrical Energy (MWh/y)	Biochemicals/Biofuels/Other Biooutputs	Employees
■	Building Products of Canada Corp. - Port Hope Reg. Port Hope, ON				35
■	■ Building Products of Canada Corp. - Leaside, ON				33
■	■ Cascades Environmental Packaging - Coburn, Timmins-Coburn-Br-Hwy, ON				864
■	■ Cascades Environmental Packaging - Drummondville, QC				224
■	■ Cascades Environmental Packaging - Kingsley Falls, ON				60
■	■ Cascades Environmental Packaging - Montreal, QC				260
■	■ Cascades Environmental Packaging - Yaudetou, Naudetou, Ontario, ON				135
■	■ Cascades Environmental Packaging - Yorkville, ON				148
■	■ Cascades Sonoco, Belleville, QC				40
■	■ Cascades Sonoco, Kingsley Falls, ON				73
■	■ Cascades Specialty Products Group - Fortna Park, Kingsley Falls, ON				57
■	■ Cascades Specialty Products Group - Paper Kingsley Falls, Kingsley Falls, ON				77
■	■ Cascades Tissue Group, Canby, ON				131
■	■ Cascades Tissue Group, Kingsley Falls, ON				130
■	■ Cascades Tissue Group, Lachute, QC				149
■	■ Cascades Tissue Group, Laval, QC				174
■	■ Cascades Tissue Group, Gravelly, QC				54
▲	■ Cellulose, Windsor, ON			Cellulose Nanocrystals at Dextre Windsor	174
■	■ Chemtech Industries, Nardo, Kirk, Labbe, rue Quibou, QC				270
■	■ Dorian Corp. - Windsor MI, Windsor, ON	3,037,210	317,548.2 Mwh/y	Cellulose Nanocrystals	864
■	■ Fortna Specialty Chemicals, Thorne, QC				404
■	■ Glasse Canada Inc., Quebec, QC				88
▲	■ Kruger Brompton L.P. - Brompton MI, Brompton, QC		23 MWh		480
■	■ Kruger Brompton L.P. - Lachute Packaging Plant, Lachute, QC				480
■	■ Kruger Packaging L.P. - Tonn MI, Montreal, QC				480
■	■ Kruger Products L.P. - Canby MI, Canby, QC				660
■	■ Kruger Products L.P. - Galties MI - Lachute-Rochers, Galties, QC				480
■	■ Kruger Products L.P. - Brompton MI (Brompton) Tonn, Brompton, QC				480
■	■ Kruger Products L.P. - Brompton MI - Lachute, Brompton, QC				95
■	■ Kruger Tissue Industries L.P. - Tonn-Rivers MI, Tonn-Rivers, QC			Cellulose Nanocrystals	480
■	■ Kruger Westpac Inc., Westpac MI, Tonn-Rivers, QC				480
■	■ Macmillan Specialties, Lachute, QC				480
■	■ Residual Forest Products - Amos, Amos, QC	250,000			335
■	■ Residual Forest Products - Amos, Amos, QC (JMI)				142
■	■ Residual Forest Products - Bois-Corbin, Bois-Corbin, QC (JMI)				142
■	■ Residual Forest Products - Deseront, Deseront, QC (JMI)	133,000			142
■	■ Residual Forest Products - Deseront, Deseront, QC (JMI)	3,100,000			142
■	■ Residual Forest Products - Galties, Galties, QC	1,400,000	15 MWh		127
■	■ Residual Forest Products - Kengami MI, Saguenay, QC			Nanofibrillated cellulose (c. 2021)	213
■	■ Residual Forest Products - Saint-Felipe MI, Saint-Felipe, QC	8,000,000	43 MWh		245
■	■ Reland Enterprises Inc., Saint-John, QC				300
■	■ Reland Enterprises Inc., Ste-Helene de Breasay, QC				200
■	■ Techwood Inc., Drummondville, QC				148
■	■ Rayonier Advanced Materials - Temont-High Pulp Division, Temont-High, QC			Lignosulvates	700
■	■ Rayonier Advanced Materials - Reson Group, Temont-High, QC			Bogus	700
■	■ Rayonier Advanced Materials - Specialty Chemicals, Temont-High, QC			Phenolic Resins, Anisole Resins, PMES Glubase Glubase, Formadhesive	700
■	■ Rayonier Advanced Materials - Paperboard Group, Temont-High, QC				700
■	■ Rayonier Advanced Materials - Specialty Chemicals, Temont-High, QC		50 MWh (est)		700
■	■ Rayonier Advanced Materials - Specialty Chemicals, Temont-High, QC			Bogus	150
■	■ White Birch Paper - J.F. Soud, Riviere-du-Loup, QC				150
■	■ White Birch Paper - Paper Masson (Lac), Galties, QC				150
■	■ White Birch Paper - Galties, Galties, QC				150

MPL Location (by Province)		Burned-based Thermal Energy (GJ/y)	Burned-based Electricity (MWh/y)	Biochemical/Biomethane or Other Subproducts	Employees
■	Aditya Bala Group, Aditya Bala, Andhra Pradesh, India	2,750 TJ/y	109,200	Lignocellulosic (grass 85-75% methane)	260
■	Aditya Bala Group, Aditya Bala, Andhra Pradesh, India	1,300 TJ/y	130,900		275
■	Energy Converter Products, Energy Converter, Dehra Dun, India				210
■	J.D. Kulkarni Ltd., Jyoti Paper Mills, Pune, India	10,341,729	793,361 TJ/y	Salt Adipate	133
■	J.D. Kulkarni Ltd., Jyoti Paper Mills, Pune, India				140
■	J.D. Kulkarni Ltd., Jyoti Paper Mills, Pune, India	977,000		Methane	138
■	Jyoti Paper Mills, Jyoti Paper Mills, Pune, India	6,457,789 BTU/y	45 MWh		280+
●	ORF Inc., Hartwood, NC				
■	Paper Conversions, Northern Pulp Inc. New South Corp., New Glasgow, NS, Canada				
■	Pied Mountain Paper, Pied Mountain Paper, NC		40 MWh		
■	Reynolds Paper Mills, Reynolds Paper Mills, NC				930

Notes: List includes operating (and temporarily closed) pulp, paper and board mills, plus other producers of forest biomass-based electricity and chemicals. Figures are from published sources and are as up-to-date as possible. Listed biomass-based energy and bioproducts may be for internal use or external sale.

MAP LEGEND

■ Pulp

● Paper, board and tissue

▲ Bioenergy and bioproducts

◆ **Other**

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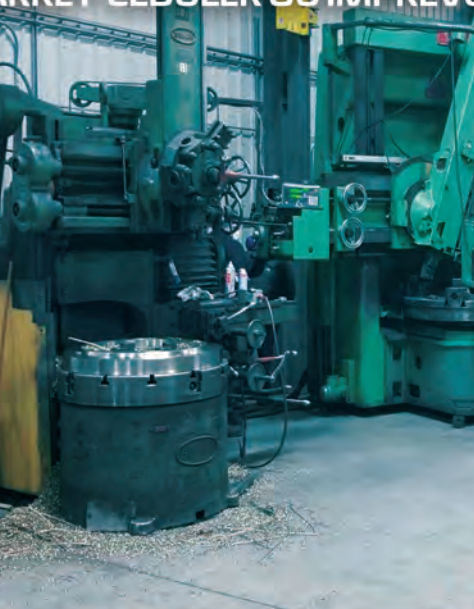


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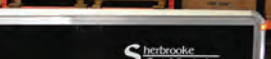
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