Zinc/Zinc-Alloy/Aluminum Continuous Sheet Coating Lines - North America

Colour Code ➔ Operating HD Lines | EG Lines | Under Construction | Publicly Announced | Idle Lines

TBA = To Be Announced

METRIC (SI) VERSION

(Master Sheet - CoatingLinesInLb sheet calculates sizes and tons from this sheet)

Country	Producer	Location	Line ID	Date Built	Latest Rebuild	Thickness (mm)		Width (mm)		Furnace Type(*)	Annual Hot-Dip Capacity - 1000's of metric tonnes (k MT)							Total Company H-D MT	Annual EG Capacity - k MT				Roll Coatings	Status	Est. Zn Usage: MT/yr.	Comments
						Min	Max	Min	Max		GI only	GA/GI	AZ	GF or ZM	Al, Al-Si	Combi.	Total		Zn	Zn-Ni	other	Total				
Canada	ArcelorMittal	ArcelorMittal Dofasco G. P., Hamilton, ON	No.3	1967	2005	0.20	1.1	610	1321	H-DFRT	-	220	-	-	-		220	2,266	-	-	-	-	Chem. Treat.	OP	12,000	Gas fired GA furnace installed 1989
Canada			No.4	1981	2016	0.25	2.31	610	1537	H-DFRT	100	-	136	-	-		236		-	-	-	-	Acrylic, Chem. Treat.	OP	6,300	Dual pots, cleaner for FH AZ, CMI Blowstab APC; new cleaner; furnace upgrades; new ctg. Pot hardware; dual roll coater
Canada			No.5	1999	2022	0.51	2.1	863	1829	V-RT	330	-	-	-	160		490		-	-	-	-	-	OP	7,300	12/23'/20 announced upgrade make 160kT Al-Si 2H'22, stop GA; Originally "DSG", a Dofasco/Sollac 80/20 JV; exposed GI & GA; AHSS
Canada			No.6	2014	-	1.00	4.3	610	1651	H-DFRT	-	650	-	-	-		650		-	-	-	-	Chem. Treat.	OP	7,900	Began operating 2015 (GI, GA, HR HDG, AHSS)
Canada		ArcelorMittal Windsor Windsor, ON	No.1	1993	2019	0.40	2.1	610	1829	V-DFRT	-	440	-	-	-		440		-	-	-	-	Prephos., Chem. Treat.	OP	6,000	100% AM Dofasco 2013, formerly JV with JFE Steel; formerly DNN Galvanizing renamed DJ Galvanizing Corp. in '04; premelt pot '97
Canada		AM Coteau-du-Lac Coteau-du-Lac, PQ	No. 1	1991	1995	0.23	3.4	610	1372	H-DFRT	-	230	-	-	-		230		-	-	-	-	-	OP	7,000	Formerly Sorevco; 1kg ctg wt golf ball finish; induction GA, Cr^3 & Cr^6 CT
Canada	Materials Science Corp. (MSC)	Rexdale (Toronto), ON	No.1 EG	1968	-	0.20	2.38	450	1524	NA	-	-	-	-	-		-		41	-	-	41	-	OPE	800	Can coat UHSS YS up to 1517 MPa (220 ksi)
Canada	Stelco	Hamilton Works, Hamilton, ON	3CGL	1968	1997	0.30	1.2	825	1320	L-DFRT	181	-	-	-	-		181	651	-	-	-	-	-	OP	8,300	Selas vertical NOx furnace line; nitrogen wiping
Canada			Z-Line	1991	2006	0.58	2.1	910	1830	V-RT	-	470	-	-	-	orig. CAL capable	470		-	-	-	-	-	OP	17,100	Orig. JV with Metal One 40%; at start a CGL-CAL Combo; world's biggest pot - 390 MT, first robot skim; nitrogen wiping
Mexico	Galvasid (Grupo Ind. L.M.)	Apodaca, NL, Mexico	No.1	2005	2019	0.34	2.75	610	1525	V-DFRT	160	-	180	-	-		340	340	-	-	-	-	-	OP	6,200	
Mexico	Nucor-JFE Steel México (NJSM)	Silao, Guanajuato, Mexico	No.1	2020	-	0.40	2.6	800	1850	V-RT	-	400	-	-	-		400	400	-	-	-	-	-	OP	12,100	GI & GA automotive quality; start 5 Mar. 2020
Mexico	POSCO Mexico	Altamira, Mexico	CGL 1	2009	-	0.40	2.0	800	1900	V-RT	-	400	-	-	-		400	900	-	-	-	-	Pre-phos, CT	OP	15,000	Exposed GA, GI and AHSS; premelt pot
Mexico			CGL 2	2014	-	0.40	2.3	800	1860	V-RT	-	500	-	-	-		500		-	-	-	-	Pre-phos, CT	OP	15,000	Start Jan. 2014; exposed GI & GA; AHSS 780; premelt pot
Mexico	Ternium SRL de C.V.	San Nicholás de los Garza, NL, Mexico	H-GNo.1	1975	2004	0.20	1.9	610	1295	H-DFRT	130	-	-	-	-		130	2,065	-	-	-	-	-	OP	5,500	In-line paint line added
Mexico			H-GNo.2	1992	2000	0.25	2.7	610	1295	H-DFRT	-	136	-	-	-		136		-	-	-	-	-	OP	5,300	Formerly HYSLA-GALVAK
Mexico			H-GNo.3	1998	2000	0.20	1.2	686	1270	H-DFRT	91	-	59	-	-		150		-	-	-	-	-	OP	2,000	
Mexico		Planta Monclova, Coahuila De Zaragoza, Mexico	IMSA	1996	-	0.20	1.9	610	1270	H-DFRT	159	-	91	-	-		250		-	-	-	-	-	OP	5,600	Formerly IMSA Acero
Mexico		Planta Universidad, Monterrey, Mexico	No.2	1968	2003	0.25	2.0	610	1270	L-DFRT	-	145	-	-	-		145		-	-	-	-	-	OP	5,800	Formerly IMSA Acero
Mexico			No.3	1981	2019	0.206	3.4	610	1219	H-DFRT	136	-	90	-	-		226		-	-	-	-	-	OP	6,500	
Mexico			No.4	1996	-	0.28	0.9	610	1270	V-DFRT	272	-	-	-	-		272		-	-	-	-	-	OP	10,300	
Mexico		Centro Industrial Ternium, Pesquería, NL, Mexico	No. 1	2019	-	0.31	1.5	610	>1650	V-RT	-	356	-	-	-		356		-	-	-	-	-	OP	15,000	Start-up Dec. 16, 2019, also with a new adjacent paint line
Mexico		Tenigal SRL de CV, Pesquería (Monterrey), NL	Tenigal 1	2013	-	0.40	2.6	700	1850	V-RT	-	400	-	-	-		400		-	-	-	-	L-treatment	OP	15,000	Sept., 2013 startup; 51% Ternium, 49% Nippon Steel. Exposed & AHSS to 980; 2 pots (GI, GA); $300M facility
Mexico			Tenigal 2	TBD	-	TBD	TBD	TBD	TBD	TBD		430	-	-	-		430		-	-	-		-	PA	10,900	$300M investment publicly announced April 2016 for planned late 2019 start-up.
Mexico	Grupo Villacero	Cintacero Guadalupe, NL, Mexico	EG	1990	-	0.30	3.17	6	711	NA	-	-	-	-	-		-		48	-	-	48	-	OPE	100	Acquired in 1998 by Villacero from Fisacero
Mexico		Zincacero Apodaca, NL, Mexico	HDGL	1994	2020	0.254	1.524	609	1244	H-RT	-	91	-	-	-		91	91	-	-	-	-	-	OP	3,000	SMS rebuild. SAE 1006, 1008 and 1010 and steel strip products with yield strengths between 210 and 560 MPa
United States	AM/NS Calvert (JV of Arcelor Mittal Steel and Nippon Steel Corp.)	Calvert (Mobile), AL	HDGL1	2011	2015	0.50	2.3	920	1870	V-RT	-	500	-	-	-		500	1,520	-	-	-	-	Pre-phos	OP	14,600	Exposed GI, GA; e-mag stabilizer; 2 main pots; side trim; Drever furnace w/oxidation control chamber
United States			HDGL3	2012	2017	0.50	2.5	800	1670	V-RT	-	500	-	-	-		500		-	-	-	-	Pre-phos, CT	OP	14,600	GI, GA; 2 main pots; Q&P GEN3
United States			HDGL4	2011	2014	0.30	2.5	800	1670	L-DFRT	220	-	stop 2013	-	300		520		-	-	-	-	CT, Acrylic	OP	7,700	GI, 55Al-Zn until stop 42013, Al-Si, CMI-EFCO; side trim; 3 main pots, 1 pre-melt; Al-Si announced Apr.'16
United States	BlueScope Steel	Eval. "Eastern US" site to be announced	TBA	TBA	-	TBA	TBA	TBA	TBA	TBA	TBA	-	TBA	-	-		TBA		-	-	-	-	-	PA		Sept. 21, 2021" Australian steelmaker BlueScope may build a new greenfield EAF mill with a steel painting and coating facility ..." "East coast of the US."
United States	Cleveland-Cliffs Inc.	Burns Harbor, Burns Harbor, IN	HDCL	1992	-	0.51	2.0	915	1829	V-RT	-	550	-	-	-		550	5,049	-	-	-	-	Prephos, CT	OP	18,000	Induction GA; roll coater; entry & exit auto inspection
United States		Cleveland Works, Cleveland, OH	HDGL	2006	2013	0.55	2.5	990	1830	V-DFRT	-	650	-	-	-		650		-	-	-	-	CT	OP	25,000	Converted 1000 fpm LTV CAL to auto CGL; added GA '07; electromag. Stabilizer
United States		Columbus, OH	HDGL	2000	2005	0.50	1.7	800	1829	V-RT	-	400	-	-	-		400		-	-	-	-	Prephos	OP	19,950	L-S II EG line converted to CGL; 100% GA, 2 main pots + pre-melt; e-mag stabilizer
United States		Dearborn Works, Dearborn, MI	HDGL	2011	2016	0.57	2.7	914	1829	V-RT	-	454	-	-	-	CAL mode	454		-	-	-	-	Pre-phos	OP	11,000	Exposed GI, GA; NexMet™ Q&P GEN3 AHSS; Severstal NA up to 2014
United States		Indiana Harbor-West, East Chicago, IN	No.2	1963	2016	0.38	4.8	610	1830	H-DFRT	-	557	-	-	-		557		-	-	-	-	-	OP	28,800	Gas fired GA; horizontal fce.; 577k MT cap.; 28.8 kT Zn
United States		Indiana Harbor-East, East Chicago, IN	5 CGL	1968	2004	0.51	2.5	610	1830	H-RT	-	0	-	-	-		0		-	-	-	-	-	ID	0	**IDLE** - Gas fired GA; hot bridle & new RT furnace 1997, ceramic tubes; formerly ISPAT-Inland; 376 kMT cap.
United States		Middletown Works, Middletown, OH	No.2 EG	1991	1995	0.48	1.9		1900	NA	-	-	-	-	-		-		454	-	-	454	-	OPE	10,000	Gravitel process, 21 plating cells
United States			No.3	1961	2002	0.53	3.5	810	1880	H-RFRT	508	-	-	-	-		508	Includes 50% of Double G tonnes	-	-	-	-	-	OP	22,000	Nitrogen wiping; not automotive exposed
United States			No.4	1971	-	0.38	3.5	610	1575	V-DFRT	-	-	-	-	426		426		-	-	-	-	-	OP	0	2 coreless pots; Aluminized type I, II on C-steel & 40x stainless
United States		Rockport Works, Rockport, IN	CGL	1998	2003	0.46	2.0	1040	2032	V-RT	-	907	-	-	-		907		-	-	-	-	Prephos	OP	29,000	Max speed 750 fpm, coil wt.t 70,000 lb.; Widest N.A. Ctg line
United States		Cleveland-Cliffs Kote L.P., New Carlisle, IN	KCGL	1991	2004	0.38	2.3	610	1829	V-RT	-	454	-	-	-		454		-	-	-	-	Prephos	OP	7,600	In-line side trimmer; exposed GA; all GA
United States			EG	1991	-	0.43	2.0	610	1829	NA	-	-	-	-	-		-		454	-	-	454	-	OPE	6,800	24 Gravitel plating cells; Ni flash in 25th
United States	Gregory Industries	Canton, OH	No.1	1980	2018	0.76	4.57	51	495	L-IND	-	132	-	-	-		132	132	-	-	-	-	-	OP	6,185	Cold heat to coat line with preheat induction furnace; thick ctgs, no cut edge
United States		Canfield Metal Coating (CMC), Canfield, OH	EG	1957	2003	0.20	2.0	610	1219	NA	-	-	-	-	-		-		60	-	-	60	Organic & inorganic	OPE	1,200	Orig. Wheeling-Pittsburgh until 2001; acquired by New Star Metals Jul-2013

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Country	Producer	Location	Line ID	Date Built	Latest Rebuild	Thickness (mm)		Width (mm)		Furnace Type(*)	Annual Hot-Dip Capacity - 1000's of metric tonnes (k MT)							Total Company H-D MT	Annual EG Capacity - k MT				Roll Coatings	Status	Est. Zn Usage: MT/yr.	Comments
						Min	Max	Min	Max		GI only	GA/GI	AZ	GF or ZM	Al, Al-Si	Combi.	Total		Zn	Zn-Ni	other	Total				
United States	Materials Science Corp. (MSC)	**Electric Coating Technologies** (ECT), East Chicago, IN	EG	1996	-	0.25	2.20	610	1829	NA	-	-	-	-	-		-		181	-	-	181	-	OPE	6,000	Able to coat UHSS up to 1585 MPa (230 ksi) yield strength; acquired by Insight Equity 2012; started as Metro Metals, 1996
United States		**MSC Walbridge Coatings Inc.**, Walbridge, OH	No.1 EG	1986	-	0.46	2.5	610	1829	NA	-	-	-	-	-		-		263	100	-	363	Organic	OPE	7,300	Formerly Materials Sciences; was JV with ArcelorMittal, Gravitel plating process, 20 cells; can coat 1000 MPa AHSS
United States	National Galvanizing L.P.	Monroe, MI	No.1	1984	2017	1.52	6.35	610	1219	H-DFRT	-	204	-	-	-		204	**204**	-	-	-	-	-	OP	9,600	HRP & CR galv., induction GA
United States	NMLK Pennsylvania	Sharon, PA	No.2	1998	-	0.30	1.8	610	1524	L-DFRT	250	-	-	-	-		250	**704**	-	-	-	-	-	OP	10,300	NMLK since 2011; formerly Sharon Coating, a 2008 JV of Duferco-Novolipetsk (NMLK) and Severstal; in past was Winner Steel
United States			No.3	2004	-	0.51	2.5	610	1829	L-DFRT	-	454	-	-	-		454		-	-	-	-	-	OP	20,000	
United States	Nucor Steel	**Nucor Steel Arkansas**, Blytheville (Hickman), AR	No.1	1999	-	0.30	2.7	762	1575	H-DFRT	544	-	-	-	-		544	**4,379** Does not include Nucor-JFE tons	-	-	-	-	-	OP	20,000	Construction, HVAC
United States			No.2 CAGL	2021	-	0.23	2.70	890	1900	V-DFRT	-	454	-	capable	-	CAL capable	454		-	-	-	-	-	BB	13,000	Nucor: 5/11/2018: Combi. CAGL $240 MM; Andritz PR 11/3/2018; GEN3 steels
United States		**Nucor Steel Berkeley**, Huger, SC	No.1	1998	2007	0.25	2.7	762	1676	V-DFRT	-	635	-	-	-		635		-	-	-	-	Acrylic	OP	14,300	Robot skimmer; roll coater
United States		**"Nucor Steel Apple Grove,** Maple County , WV"	No. 1 AHSS	2024	-	TBA	TBA	TBA	TBA	TBA		454	-	-	-		454		-	-	-	-	-	PA	13,500	Nucor Sept. 20, 2021 announced $2.7 Bn to build a new 3mn sT/yr flat-rolled mill, "including a tandem cold mill, annealing capabilities and initially two galvanizing lines. Galvanizing capabilities will include an advanced high-end automotive line with full inspection capabilities as well as a construction-grade line." Site to be selected from OH, PA, WV; 1.1 MM st/yr galv
United States			No. 2 Constr.	2024	-	TBA	TBA	TBA	TBA	TBA	TBA		-	-	-		544		-	-	-	-	-	PA	15,000	
United States		**Nucor Steel Decatur LLC**, Trinity, AL	No.1	2009	-	0.51	6.3	762	1829	V-RT	-	544	-	-	-		544		-	-	-	-	-	OP	18,000	Electromagnetic stabilizer
United States		**Nucor Steel Gallatin**, Ghent, KY	No.1 PAGL	2019	-	TBA	6.35	TBA	1854	H-IND-**HTC**	-	454	-	-	-	Pickle	454		-	-	-	-	-	OP	13,500	Combined hot band pickling & vertical galvanizing; started coating 9/27/2019
United States		**Nucor Steel Indiana**, Crawfordsville, IN	No.1	1993	-	0.38	3.30	762	1346	H-DFRT	318	-	-	-	-		318							OP	10,000	Construction & appliance; coats Castrip Si-killed steel
			No.2	2024	-	TBA	TBA	TBA	TBA	TBA	TBA	-	-	-	-		300		-	-	-	-	-	PA	10,000	Nucor Feb. 1, 2022 announced a $290 million investment to expand the product capabilities of its Crawfordsville, that includes a construction grade continuous galvanizing line and prepaint line
		California Steel Industries (CSI) Fontana, CA	No.1	1966	1999	1900	1900	1901	1904	H-DFRT	-	430	-	-	-		430		-	-	-	-	-	OP	12,000	Nucor Feb. 3, 2022 announced it completed its acquisition of a majority ownership position in California Steel Industries, Inc. (CSI) by purchasing a 50% equity interest in a joint venture with Nucor-JFE Steel México
			No.2	1998	-	1900	1900	1901	1903	V-DFRT	-	300	-	-	-		300		-	-	-	-	-	OP	11,000	
United States	Precoat Metals Baltimore	Elkridge, MD	EG	1969	?	0.18	1.46	508	1372	NA	-	-	-	-	-		-		64	-	-	64	-	OPE	1,400	Chesapeake Finished Metals (Precoat Metals division of Sequa); 2.90 sq. in max cross-section for EG
United States	Steel Dynamics Incorporated (SDI)	**Butler Division**, Butler, IN	No.1	1997	2018	1.02	4.2	914	1575	H-DFRT	-	544	-	-	-		544	**4,305**	-	-	-	-	CT, Acrylic	OP	14,000	2017 added cleaner, CR substrate to HRP, hot bridle, upgrades to Fce., motors, capacity increase
United States			No.2	1997	-	0.25	1.9	914	1575	H-DFRT	-	327	-	-	-		327		-	-	-	-	-	OP	14,000	CR substrate
United States		**Columbus Division**, Columbus, MS	CGL#1	2007	2021	0.25	1.5	914	1829	V-DFRT	-	408	-	-	-		408		-	-	-	-	CT & Acrylic	OP	11,000	SMS-Siemag; Andritz 2020 upgrades to new DFF, DRJC, APC, anneal model for AHSS,ex. DP980
United States			CGL#2	2011	2016	0.46	3.3	914	1829	L-DFRT	163		186	-	-		349		-	-	-	-	CT & Acrylic	OP	8,500	Added 55Al-Zn capability to former SeverCorr GI-only line
United States			CGL#3	2020	-	0.33	4.07	914	1829	H-DFRT	263		-	-	100		363		-	-	-	-	-	OP	9,000	Also coats Al-Si Type 1 aluminized; Fives, $140MM
United States		**Jeffersonville Plant**, Jeffersonville, IN	-	1999	2007	0.30	1.1	890	1524	H-DFRT	91	-	181	-	-		272		-	-	-	-	Acrylic	OP	6,600	2007: added AZ pot 2; N-IR roll coater; former GalvPro JV
United States		**SW Sinton Division**, Sinton (Corpus Christi), TX	No. 1	2021	-	0.25	4.0	914	1930	H-DFRT		249	250				499		-	-	-		Chem. Treat., Acrylic	OP	13,300	SMS, Drever, space future fast cool AHSS, 2 pots- Z, AZ, DumaBandZink, 2 horiz coaters, https://www.sms-group.com/press-media/press-releases/press-detail/thinking-and-producing-in-new-dimensions-1213/
United States			No.2	2022	-	TBA	TBA	TBA	TBA	TBA	100	-	200	-	-		300		-	-	-		-	PA	6,000	Apr. 15, 2021 SDI announcement
United States		**Heartland Division**, Terre Haute, IN	No.1	1999	-	0.25	1.5	864	1854	L-DFRT	318	-	-	-	-		318		-	-	-	-	-	OP	10,100	Construction line. Until 2018, a subsidiary of Companhia Siderúrgica Nacional. Prior to 2001 was Heartland Steel.
United States			No.2	2023	-	TBA	TBA	TBA	TBA	TBA	100	-	200	-	-		300		-	-	-		-	PA	6,000	Jul. 28, 2021 announcement, adding a 300kT galv. Line and a 240kT paint line
United States		**GalvTech** Hays, PA	No.1	1996	2011	0.38	1.15	610	1550	H-DFRT	417	-	-	14	-		431		-	-	-	-	Acrylic, CT	OP	23,000	Commercially produces GALFAN; upgrades: electro-mag stabilizer, automated inspection
United States		**MetalTech** Pittsburgh, PA	No.1	1961	1994	1.02	4.07	610	1320	H-DFRT	325	-	-	15	-		340		-	-	-	-	Acrylic, CT	OP	16,000	Commercially produces GALFAN
United States		**NexTech** Turtle Creek, PA	No.1	1990	-	0.18	0.50	700	1092	H-DFRT	144	-	-	10	-		154		-	-	-	-	Acrylic, CT	OP	6,800	Roll coater
United States	**Steelscape LLC** (NS BlueScope Coated Products)	Rancho Cucamonga, CA	No.1	1995	1996	0.30	0.91	660	1270	V-DFRT	-	-	200	-	-		200	**391**	-	-	-	-	Acrylic, tinted resin	OP	2,300	Part of NS BlueScope Coated Products North America (CPNA), a joint venture between BlueScope Steel and Nippon Steel Corporation
United States		Kalama, WA	No.2	1997	-	0.26	1.2	610	1295	V-DFRT	191	-	-	-	-		191		-	-	-	-	Yes	OP	6,000	
United States	Tata Steel Plating	**Apollo Metals**, Bethlehem, PA	-	1915	-	0.1	1.8	3	830	NA	-	-	-	-	-	-			-	-	50	50	-	OPE	100	Cu, brass, Ni, Cr plated CR steel strip products; pre-finished non-ferrous metals; developer of ElectroJet technology; est., actual published prod. Capacity n/a
United States		**Thomas Steel Strip Corp.**, Warren, OH		1920	-	0.1	1.7	3	724	NA									-	70	10	80	-	OPE	2,000	Zn-Ni, Ni electroplating; est. production capacity, actual published n/a
United States	Ternium, USA	**Ternium, USA**, Shreveport, LA	No.1	1966	2007	0.33	3.2	610	1372	H-DFRT	118	-	118	-	-		236		-	-	-	-	-	OP	6,600	Former Steelscape (IMSA) moved from Richmond, CA
United States	United States Steel Corporation	**Big River Steel (BRS)**, Osceola, AR	HDGL1	2016	2019	0.36	3.0	900	1850	V-DF_H-RT	475	-	-	-	-	CAL capable	475	**475**	-	-	-	-	-	OP	12,000	Construction line, SMS-Siemag, Drever, Fontaine; can operate as a combination CAGL; a U. S. Steel company since Jan. 2021
United States			HDGL2	2024	-	TBA	TBA	TBA	TBA	TBA	150	-	175	-	-		325		-	-	-	-	-	PA	6,600	Oct. 28, 2021 earnings call announcement: $280MM new AZ & GI CGL; est. Ctg tons
United States		**Double G Coatings** Byram (Jackson), MS	DGC	1994	2003	0.23	0.8	610	1245	H-DFRT	86	-	200	-	-		286		-	-	-	-	-	OP	6,600	U. S. Steel/Cleveland-**Cliffs** 50/50 JV; Construction prepainted **(50% tons in Cleveland-Cliffs section**)
United States		**Fairfield Works**, Fairfield, AL	No.5 Dualine	1996	2003	0.30	1.0	660	1257	H-DFRT	91	-	181	-	-		272		-	-	-	-	Acrylic	OP	4,300	Construction; 2 roll coaters
United States		**Granite City Works**, Granite City , IL	Triple G	1996	2017	0.23	0.9	610	1245	V-RT	91	-	163	-	-		254		-	-	-	-	-	OP	6,400	Vertical Drever furnace
United States		**Great Lakes Works**, Ecorse, MI	No.1 CGL	2000	2020	0.58	2.0	711	1854	V-RT	-	472	-	-	-		472		-	-	-	-	Prephos, Chem. Treat.	OP	3,800	NKK-SE line; robot skim, roll coater for Prephos, CT; upgraded cleaner; furnace GJC
United States			No.1 EGL	1985	-	0.41	1.8	914	1880	NA	-	-	-	-	-		-		-	-	-	-	-	IDE	0	20 vert. plating cells, 100% auto. - **IDLE Jan 2016**; 300k cap.; used 6.4k Zn
United States		GLW EGL at Dearborn, Dearborn, MI	DESCCo	1986	1998 2002	0.56	1.7	914	1854	NA	-	-	-	-	-		-		-	-	-	-	-	IDE	0	U. S. Steel purchased AK Steel's interest 6/2015; **IDLE 2020**; 635k MT EG, EGA cap.; used 16.3k Zn

Zinc/Zinc-Alloy/Aluminum Continuous Sheet Coating Lines - North America

Colour Code ➔ Operating HD Lines | EG Lines | Under Construction | Publicly Announced | Idle Lines

TBA = To Be Announced

METRIC (SI) VERSION

(Master Sheet - CoatingLinesInLb sheet calculates sizes and tons from this sheet)

Country	Producer	Location	Line ID	Date Built	Latest Rebuild	Thickness (mm) Min	Thickness (mm) Max	Width (mm) Min	Width (mm) Max	Furnace Type(*)	Annual Hot-Dip Capacity - 1000's of metric tonnes (k MT) GI only	GA/GI	AZ	GF or ZM	Al, Al-Si	Combi.	Total	Total Company HDMT	Annual EG Capacity - k MT Zn	Zn-Ni	other	Total	Roll Coatings	Status	Est. Zn Usage: MT/yr.	Comments
United States	United States Steel Corporation	**Midwest Plant,** Portage, IN	72" GACT	1970	2018	0.56	3.2	610	1829	H&V-RT	-	454	-	-	-		454	5,114 Minus 50% of Double G Coatings tonnes, includes BRS	-	-	-	-	Prephos, Chem. Treat.	OP	4,400	Induction GA, roll coater; GI & GA UHSS
United States			No.3 CL	1998	2006	0.23	0.9	610	1245	H-DFRT	245	-	-	-	-		245		-	-	-	-	Acrylic	OP	4,400	Junkers coreless main & PM pots; 55Al-Zn until 2006
United States		**Mon Valley Works, Irvin Plant,** Dravosburg, PA	GAL1	1948	2004	0.91	4.3	560	1321	L-DFRT	200	-	-	-	-		200		-	-	-	-	-	OP	5,400	HRS and CRS substrate; Selas NOx DFF line
United States			GAL2	1949	1998	0.36	1.6	610	1219	V-DFRT	160	-	stop 2000	-	stop 1982		160		-	-	-	-	Acrylic	OP	2,500	Construction & appliance. Converted to dual line in 1997
United States		**Mon Valley Works, Fairless Plant,** Fairless Hills, PA	GAL3	1968	1999	0.37	2.0	610	1626	H-RT	-	299	-	-	-		299		-	-	-	-	n/a	OP	5,400	Horizontal RT fce.; gas-fired GA; 1999 new Clecim TM, TL, CT, etc.
United States		"Mini-mill" location to be announced	TBA	-	-	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	-	-		TBA		-	-	-	-	-	PA	**13,000**	Oct. 29, 2021 earnings call: $3 Bn new flat rolled mini-mill, start construction 1H22; includes AHSS galv., HR galv., painting, slitting
United States		**PRO-TEC Coating Company,** Leipsic, OH	CGL1	1993	2007	0.58	2.6	914	1880	V-RT	-	544	-	-	-		544		-	-	-	-	Prephos, CT	OP	9,500	US Steel/Kobe Steel JV; 2 roll coaters; UHSS & exposed GA; robot skim; LIBS pot chem. Sensor
United States			CGL2	1998	2006	0.38	1.7	610	1702	V-RT	-	454	-	-	-		454		-	-	-	-	Prephos	OP	9,500	US Steel/Kobe Steel JV; roll coater, exposed GA & AHSS; robot skim
United States			CGL3	2020	-	0.6	2.7	870	1670	TBA	-	454	-	-	-		454		-	-	-	-	Prephos, CT	OP	10,000	U. S. Steel/Kobe Steel JV; UHSS GEN3 GI, GA - start 2020 (AMM - Sep '17); 2 coating pots
United States		**USS UPI**, Pittsburg, CA	No. 2CC Line	1963	1997	0.38	3.21	610	1410	V-RT	-	363	-	-	-		363		-	-	-	-	n/a	OP	11,200	Induction GA, RoHS CT; was 50-50 JV of U. S. Steel and POSCO since 1984 to 100% U. S. Steel Feb. 29, 2020
United States	**Wheeling-Nippon Steel, Inc.**	Follansbee, WV	No.1 AGL	1988	-	0.36	2.7	610	1549	H-DFRT	-	260	-	**12**	91		363	635	-	-	-	-	-	OP	5,400	ZAM™ added in 2013-2014; Makes Aluminized stainless; Gas-fired GA furnace; 100% Nisshin Steel Co., Ltd. since 2008
United States			No.2 CGL	1993	2000	0.20	1.2	610	1270	H-DFRT	190	-	82	-	-		272		-	-	-	-	Acrylic	OP	8,600	Construction; Carosel reels; roll coater
United States	**Worthington Industries**	Delta, OH	No.1	1997	2008	0.64	6.35	813	1575	L-DFRT	-	363	-	-	-		363	907	-	-	-	-	-	OP	13,600	CQ, culvert, guardrail markets (mostly HR substrate)
United States		**Spartan Steel Coating,** Monroe, MI	No.1	1998	2019	0.46	1.9	711	1575	V-DFRT	-	544	-	-	-		544		-	-	-	-	Prephos, CT, Acrylic	OP	8,000	Worthington 52%/Cleveland-Cliffs 48% JV; DFF lining change to fiber; RJC upgrade

Production Capacity:	Canada	Mexico	USA										
North American - Galvanize Only	611	948	5,408	**6,967**	**24,811**	<-- **Total GI+GA/GI**	**1,000's MT**					Est. Total Zn MT----------	**863,067**
- Galvanneal/Galvanize Lines	2,010	2,428	13,860		**18,298**							**CGLs:**	**837,367**
- GALVALUME® & 55Al-Zn	136	420	1,561			**2,117**							
- GALFAN® , ZM or ZAM™	0	0	51				**51**						
- Aluminized Types I, II	160	0	917					**1,077**					
- TOTAL Hot-Dip	2,917	3,796	21,797						**28,540**	**1,000's MT**			
- EG Zn	41	48	1,476								**1,565**		
- EG Zn-Ni	0	0	170									**170**	
- EG Zn-Fe/other metallic plating	0	0	60										**60**
- Total EG	41	48	1,706									**1,795**	**1,000's MT**
- Total Hot Dip & EG	**2,958**	**3,844**	**23,503**									**30,335**	**1,000's MT**

Total capacity estimated as of November 2021 - DOES NOT include BB and PA lines

North American Line Summary

Type	Total Coating Lines Canada	Mexico	USA	N.A. Total	Operating Canada	Mexico	USA	N.A. Total	Being Built, Major Coating Upgrade Canada	Mexico	USA	N.A. Total	Combi. (Combination CGL & CAL or Pickle & CGL) Canada	Mexico	USA	N.A. Total	Idle Canada	Mexico	USA	N.A. Total	Publicly Announced Canada	Mexico	USA	N.A. Total
Hot Dip Lines - TOTAL (all coatings)	**9**	**15**	**65**	**89**	8	14	55	**77**	1	0	1	**2**	0	0	4	**4**	0	0	1	**1**	0	1	8	**9**
Hot Dip Galvanize Lines (GI but no GA)	**3**	**6**	**28**	**37**	3	6	22	**31**	0	0	0	**0**	0	0	1	**1**	0	0	0	**0**	0	0	6	**6**
HDG Lines with GI & GA capability	**5**	**10**	**36**	**51**	5	9	31	**45**	0	0	1	**1**	0	0	3	**3**	0	0	1	**1**	0	1	3	**4**
Lines with 55Al-Zn, GALVALUME capability	**1**	**4**	**13**	**18**	1	4	9	**14**	0	0	0	**0**	0	0	0	**0**	0	0	0	**0**	0	0	4	**4**
Lines with Galfan capability	**0**	**0**	**3**	**3**	0	0	3	**3**	0	0	0	**0**	0	0	0	**0**	0	0	0	**0**	0	0	0	**0**
Lines with ZM, ZAM™ capability	**0**	**0**	**1**	**1**	0	0	1	**1**	0	0	0	**0**	0	0	0	**0**	0	0	0	**0**	0	0	0	**0**
Lines with Aluminizing capability	**1**	**0**	**4**	**5**	0	0	4	**4**	1	0	0	**1**	0	0	0	**0**	0	0	0	**0**	0	0	0	**0**
EG Lines	**1**	**1**	**10**	**12**	1	1	8	**10**	0	0	0	**0**	0	0	0	**0**	0	0	2	**2**	0	0	0	**0**
Total EGLs + CGLs				**101**				**87**				**2**				**4**				**3**				**9**

Revised Mar 2022 by GalvInfo Center, a Program of the International Zinc Association, Gary Dallin, with input from AIST GTC members, including E. A. Silva

NOTES:

- Production tonnes based on most recent data or recent estimates
- Zinc usage cited is mainly from the 2004 ILZSG World Directory: CG Lines or estimated

Abbreviations:

- **GI** = Galvanize
- **GA** = Galvanneal
- **AZ** = 55Al-Zn (GALVALUME®, ZINCALUME®, etc.)
- **AL** = Aluminized ASTM A463 type I (Al-non 9% Si (5 to 11%)), type II (Al, <=0.35%Si)
- **ZAM™** Zn-Al-Mg alloy coating
- **GF** = GALFAN®, 5Al-Zn
- **CT** = Passivation chemical treatment
- **CAGL =** (Combination) Continuous Annealing Galvanizing Line
- **PGL = (Combination)** Pickling-Galvanizing Line

(*) Furnace types

- **V** = Vertical
- **H** = Horizontal
- **L** = Vert & Horiz (may or may not be "L" shaped)
- **NA** = not applicable / not available

*Furnace Suffix: **DF** = Direct Fired; **RT** = Radiant Tube; **IND** = Induction; **HTC** = Heat to Coat

Status Abbreviations	
BB	Being Built
BBE	Being Built EGL
ID	Idle Hot-Dip Line
IDE	Idle EGL
OP	Operating Hot-Dip Line
OPE	Operating EGL
PA	Publicly Announced Line
TBA	To Be Announced