

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

Colour Code → Operating HD Lines

EG Lines

Under Construction

Idle Lines

METRIC (SI) VERSION

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

Producer	Location	Line ID	Date Built	Latest Rebuild	Thickness (mm)		Width (mm)		Furnace Type(*)	Annual Hot-Dip Capacity - metric tonnes (MT)					Annual EG Capacity - MT				Roll Coatings	Total Company Hot-Dip - MT	Annual Zinc Usage - MT	Comments	
					Min	Max	Min	Max		GI only	GA/GI	AZ	GF	AL	Total	Zn	Zn-Ni	Zn-Fe					Total
AK Steel Corp	Ashland, KY	#3	1967	1982	0.43	2.0	610	1524	V-DFRT	-	336,000	-	-	-	336,000	-	-	-	-	-	2,631,000	14,300	Induction GA; nitrogen wiping
	Dearborn, MI	#1	2011	2015	0.50	2.7	914	1829	V-RT	-	454,000	-	-	-	454,000	-	-	-	-	Pre-phos		11,000	Exposed GI, GA; AHSS; Severstal NA to 2014
	Middletown, OH	#2 EG	1991	1995	0.48	1.9	1900	1900	NA	-	-	-	-	-	-	454,000	-	-	-	-		10,000	Gravitel process, 21 plating cells
		#3	1961	2002	0.53	3.5	810	1880	H-DFRT	508,000	-	-	-	-	508,000	-	-	-	-	-		22,000	Nitrogen wiping; not automotive exposed
		#4	1971	-	0.38	3.5	610	1575	V-DFRT	-	-	-	-	426,000	426,000	-	-	-	-	-		0	2 coreless pots; Aluminized type I, II and stainless
Rockport, IN	CGL	1998	2003	0.46	2.0	1040	2032	V-RT	-	907,000	-	-	-	907,000	-	-	-	-	Prephos	29,000	Max speed 750 fpm, coil weight 70,000 lb.; Widest NAFTA Ctg line		
ArcelorMittal	Bums Harbor, IN	HDCL	1992	-	0.51	2.0	915	1829	V-RT	-	550,000	-	-	-	550,000	-	-	-	-	Prephos, CT	18,000	Induction GA; roll coater; entry & exit auto inspection	
	Cleveland, OH	HDGL	2006	2013	0.55	2.5	990	1830	V-DFRT	-	650,000	-	-	-	650,000	-	-	-	-	CT	25,000	Converted LTV CAL to auto CGL; added GA '07; electromag. Stabilizer. 1000 fpm drives	
	Columbus, OH	HDGL	2000	2005	0.50	1.7	800	1829	V-RT	-	400,000	-	-	-	400,000	-	-	-	-	Prephos	19,950	L-S II EG line converted to CGL; 100% GA, 2 main pots + pre-melt; e-mag stabilizer	
	AM Dofasco Hamilton, ON	#1	1955	1995	0.25	2.3	610	1293	H-DFRT	-	-	-	-	-	0	-	-	-	-	Acrylic, CT	0	IDLE - May convert to GI after #4 fully capable on AZ	
		#3	1967	2005	0.20	1.1	610	1321	H-DFRT	-	220,000	-	-	-	220,000	-	-	-	-	Acrylic, CT	12,000	Gas fired GA furnace installed 1989	
		#4	1981	2016	0.25	2.3	610	1538	H-DFRT	135,000	-	135,000	-	-	270,000	-	-	-	-	-	11,000	Dual pots, cleaner for FH AZ, Blowstab APC, 2 vertical acrylic coaters	
		#5	1999	2003	0.50	2.1	863	1829	V-RT	-	490,000	-	-	-	490,000	-	-	-	-	-	7,300	Originally "DSG", a Dofasco/Usinor(Sollac) 80/20 JV; exposed GI & GA; AHSS	
	ArcelorMittal Windsor Windsor, ON	#6	2014	-	1.00	4.3	610	1651	H-DFRT	-	650,000	-	-	-	650,000	-	-	-	-	-	7,900	Began operating 2015 (GI, GA, HR HDG, AHSS)	
		#1	1993	2017	0.41	2.0	610	1829	V-DFRT	-	440,000	-	-	-	440,000	-	-	-	-	Prephos + Cr3, Cr6	6,000	100% AM Dofasco 2013, formerly JV with JFE Steel; formerly DNN Galvanizing renamed DJ Galvanizing Corp. in '04; premelt pot '97	
		Indiana Harbor-West, East Chicago, IN	#2	1963	2016	0.38	4.8	610	1830	H-DFRT	-	577,000	-	-	-	577,000	-	-	-	-	28,800	Gas fired GA; horizontal fce.	
Indiana Harbor-East, East Chicago, IN		5 GGL	1968	2004	0.51	2.5	610	1830	H-RT	-	0	-	-	-	0	-	-	-	-	0	IDLE - Gas fired GA; hot bridge & new RT furnace 1997; ceramic tubes; formerly ISPAT-Inland		
AM Coteau-du-Lac Coteau-du-Lac, PQ	31	1991	1995	0.23	3.4	610	1372	H-DFRT	-	227,000	-	-	-	227,000	-	-	-	-	-	10,000	Formerly Sorevco; 1kg ctg wt golf ball finish; induction GA		
AMNS Calvert (JV of ArcelorMittal Steel and Nippon Steel & Sumitomo Metal Corp.)	Calvert (Mobile), AL	HDGL1	2011	2015	0.50	2.3	920	1870	V-RT	-	500,000	-	-	-	500,000	-	-	-	-	Pre-phos	-	GI, (Zn-Al-Mg?); GA; DEMCO e-mag stabilizer; 2 main pots; side trim; Drever furnace w/oxidation control chamber	
	HDGL3	2012	2015	0.50	2.5	800	1670	V-RT	-	500,000	-	-	-	500,000	-	-	-	-	Pre-phos, CT	-	GI, GA (likely begins production 2014, after sale- included in totals); 2 main pots		
	HDGL4	2011	2014	0.30	2.5	800	1670	L-DFRT	220,000	-	-	-	300,000	520,000	-	-	-	-	CT, Acrylic	-	GI, 55Al-Zn, Al-Si, CMI-EFCO; side trim; 2 main pots, 1 pre-melt; space for future 3rd main+ pre-melt. Aluminizing announced April		
Big River Steel	Osceola, AK	HDGL	2016	-	0.30	2.5	800	1829	V-RT	400,000	-	-	-	400,000	-	-	-	-	-	-	12,000	Construction line, SMS-Seimag, Drever, Fontaine	
California Steel Industries	Fontana, CA	#1	1966	1999	0.38	4.3	610	1524	H-DFRT	-	430,000	-	-	-	430,000	-	-	-	-	-	730,000	12,000	Subsidiary of JFE Steel and CVRD.
		#2	1998	-	0.25	1.5	610	1321	V-DFRT	-	300,000	-	-	-	300,000	-	-	-	-	-	11,000		
Galvasid (Grupo Ind. L.M.)	Apodaca, NL, Mexico	#1	2005	-	0.20	2.0	610	1575	V-DFRT	109,000	-	109,000	-	-	218,000	-	-	-	-	-	-	-	-
Gregory Industries	Canton, OH	#1	1980	-	0.76	4.3	51	495	L-IND	-	68,000	-	-	-	68,000	-	-	-	-	-	-	1,800	Cold line with preheat induction furnace; thick ctgs, no cut edge
JN Kote (JV of ArcelorMittal and Nippon Steel & Sumitomo Metal Corp.)	New Carlisle, IN	#1	1991	2004	0.38	2.3	610	1829	V-RT	-	454,000	-	-	-	454,000	-	-	-	-	Prephos	7,600	In-line side trimmer	
EG		1991	-	0.43	2.0	610	1829	NA	-	-	-	-	-	-	363,000	-	-	-	-	6,800	24 Gravitel plating cells; Ni flash in 25th		
Material Sciences Corp.	Rexdale, ON	#1 EG	1968	-	0.20	2.03	356	1524	NA	-	-	-	-	-	-	41,000	-	-	-	-	800	Can coat UHSS YS up to 1517 MPa (220 ksi)	
National Galvanizing L.P.	Monroe, MI	#1	1984	1997	1.52	6.35	610	1219	H-DFRT	-	204,000	-	-	-	204,000	-	-	-	-	-	-	9,600	Push/Pull line - POG only, induction GA
New Star Metals (Insight Equity)	Canfield Metal Coating (CMC), Canfield, OH	EG	1957	2003	0.20	2.0	610	1219	NA	-	-	-	-	-	-	60,000	-	-	60,000	-	1,200	Org. Wheeling-Pittsburgh until 2001; acquired by New Star Metals Jul-2013	
	Walbridge, OH	#1 EG	1986	-	0.46	2.5	610	1829	NA	-	-	-	-	-	263,000	100,000	-	-	363,000	Organic	7,300	Formerly Materials Sciences; was JV with ArcelorMittal, Gravitel plating process, 20 cells; can coat 1000 MPa AHSS	
	Electric Coating Technologies, East Chicago, IN	EG	1996	-	0.25	2.20	610	1829	NA	-	-	-	-	-	181,000	-	-	-	181,000	-	-	-	Able to coat UHSS up to 1585 MPa (230 ksi) yield strength; acquired by Insight Equity 2012; started as Metro Metals, 1996
NMLK Pennsylvania	Sharon, PA	#2	1998	-	0.30	1.8	610	1524	L-DFRT	250,000	-	-	-	250,000	-	-	-	-	-	-	704,000	10,300	NMLK since 2011; formerly Sharon Coating, a 2008 JV of Duferco-Novolipetsk (NMLK) and Severstal; in past was Winner Steel
	#3	2004	-	0.51	2.5	610	1829	L-DFRT	-	454,000	-	-	-	454,000	-	-	-	-	-	-	20,000		
Nucor	Berkeley, SC	#1	1998	2007	0.25	2.7	762	1676	V-DFRT	-	635,000	-	-	-	635,000	-	-	-	-	Acrylic	14,300	Robot skimmer, roll coater	
	Crawfordsville, IN	#1	1993	-	0.38	3.3	762	1346	H-DFRT	318,000	-	-	-	318,000	-	-	-	-	-	-	10,000	Construction & appliance; coats Castrip S-killed steel	
	Decatur, AL	#1	2009	-	0.51	2.0	762	1829	V-RT	-	544,000	-	-	-	544,000	-	-	-	-	-	18,000	Electromagnetic stabilizer	
	Ghent, KY	#1	2019	-	?	?	1829	?	-	500,000	-	-	-	500,000	-	-	-	-	-	-	20,000	Combined hot band pickling & vertical galvanizing; start 2019	
	Hickman, AK	#1	1999	-	0.30	2.7	762	1575	H-DFRT	544,000	-	-	-	544,000	-	-	-	-	-	-	20,000	Construction, HVAC	
Nucor-JFE	Mexico	#1	2019	-	0.40	2.6	800	1880	V-RT	-	400,000	-	-	-	400,000	-	-	-	-	-	-	-	GI & GA automotive quality; start 2nd half of 2019
POSCO	Altamira, Mexico	#1	2009	-	0.40	2.3	800	1860	?	-	400,000	-	-	-	400,000	-	-	-	-	-	900,000	15,000	Exposed GA, GI and AHSS
		#2	2014	-	?	?	?	?	-	500,000	-	-	-	500,000	-	-	-	-	-	-	-	15,000	Start Jan. 2014; exposed GI & GA; AHSS 780

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Producer	Location	Line ID	Date Built	Latest Rebuild	Thickness (mm)		Width (mm)		Furnace Type(*)	Annual Hot-Dip Capacity - metric tonnes (MT)					Annual EG Capacity - MT			Roll Coatings	Total Company Hot-Dip - MT	Annual Zinc Usage - MT	Comments			
					Min	Max	Min	Max		GI only	GA/GI	AZ	GF	AL	Total	Zn	Zn-Ni					Zn-Fe	Total	
Precoat Metals	Elkridge, MD	EG	?	?	0.18	1.6	508	1264	NA	-	-	-	-	-	-	64,000	-	-	64,000		1,400	Chesapeake Finished Metals (Precoat Metals division of Sequa); 2.90 sq. in max cross-section for EG		
Steel Dynamics	Butler, IN	#1	1997	-	1.02	4.2	914	1575	H-DFRT	-	363,000	-	-	-	363,000	-	-	-	-		14,000	POG substrate		
		#2	1997	-	0.25	1.9	914	1575	H-DFRT	-	327,000	-	-	-	327,000	-	-	-	-		14,000	CR substrate		
	Columbus, MS	#1	2007	-	0.25	1.5	914	1829	V-RT	-	408,000	-	-	-	408,000	-	-	-	-		11,000	SMS-Siemag (former SeverCorr line)		
		#2	2011	-	0.46	3.3	914	1829	L-DFRT	454,000	-	-	-	-	454,000	-	-	-	-		9,000	SMS-Siemag-Drever; GI only. No roll coater (former SeverCorr line)		
	Terre Haute, IN	#1	1999	-	0.25	1.5	864	1854	?	318,000	-	-	-	-	318,000	-	-	-	-		14,000	Construction line. Until 2018, a subsidiary of Companhia Siderurgica Nacional. Prior to 2001 was Heartland Steel.		
	Jeffersonville, IN	-	1999	2007	0.30	1.1	890	1524	H-DFRT	91,000	-	181,000	-	-	272,000	-	-	-	-	Acrylic	3,031,000	14,000	2007: added 2nd pot for AZ ctg; N-IR roll coater; former GalvPro JV	
	The Techs																							
GalvTech Hays, PA	#1	1996	2011	0.38	1.0	610	1524	H-DFRT	407,000	-	-	10,000	-	417,000	-	-	-	-	Acrylic		23,000	Commercially produces GALFAN		
MetalTech Pittsburgh, PA	#1	1961	1994	1.02	3.3	610	1219	H-DFRT	308,000	-	-	10,000	-	318,000	-	-	-	-	Acrylic		16,000	Commercially produces GALFAN		
NexTech Turtle Creek, PA	#1	1990	-	0.18	0.4	610	1067	H-DFRT	154,000	-	-	-	-	154,000	-	-	-	-	Acrylic		6,800	Roll coater		
Steelscape (NS BlueScope Coated Products)	Rancho Cucamonga, CA	#1	1995	1996	0.30	0.9	860	1270	V-DFRT	-	-	200,000	-	200,000	-	-	-	-	Acrylic, tinted resin	391,000	2,300	2013: NS Bluescope Coated Products, a JV with NSSMC; Formerly Steelscape/Ternium;		
	Kalama, WA	#2	1997	-	0.28	1.2	610	1321	V-DFRT	191,000	-	-	-	191,000	-	-	-	-	Yes		6,000	2013 JV with NSSMC; Formerly Steelscape/Ternium;		
Stelco	Hamilton, ON	#3	1968	1997	0.25	1.2	762	1422	L-DFRT	181,000	-	-	-	-	181,000	-	-	-	-		635,000	8,300	Selas vertical NOx furnace line; nitrogen wiping	
		Z-Line	1991	2006	0.58	2.2	1016	1829	V-RT	-	454,000	-	-	-	454,000	-	-	-	-			17,100	Orig. JV with Metal One 40%; at start a CGL-CAL Combo; world's highest pot - 390 MT first robot skim; nitrogen wipe	
Tenigal SRL de CV	Monterrey, NL, Mexico	CGL	2013	-	0.40	2.6	700	1850	V-RT	-	400,000	-	-	-	400,000	-	-	-	L-treatment		15,000	Sept., 2013 startup; 51% Ternium, 49% NSSMC; Exposed & AHSS to 980; 2 pots (GI, GA); \$300M facility		
Ternium	HYSLA-GALVAK San Nicholas de los Garza, NL, Mexico	H-G#1	1975	2004	0.20	1.9	610	1295	H-DFRT	130,000	-	-	-	-	130,000	-	-	-	-					
		H-G#2	1992	2000	0.25	2.7	610	1295	H-DFRT	-	136,000	-	-	-	136,000	-	-	-	-					
		H-G#3	1998	2000	0.20	1.2	686	1270	H-DFRT	91,000	-	59,000	-	-	150,000	-	-	-	-					
	IMSAC Acero																							
	Monclova, Mexico	IMSAC	1996	-	0.20	1.9	610	1270	H-DFRT	159,000	-	91,000	-	-	250,000	-	-	-	-					
	Monterrey, Mexico	#2	1968	2003	0.25	2.0	610	1270	L-DFRT	-	145,000	-	-	-	145,000	-	-	-	-					
		#3	1981	2003	0.28	3.4	610	1219	H-DFRT	136,000	-	73,000	-	-	209,000	-	-	-	-					
Temium, USA, Shreveport, LA	#4	1996	-	0.28	0.9	610	1270	V-DFRT	272,000	-	-	-	-	272,000	-	-	-	-						
		1966	2007	0.33	3.2	610	1372	H-DFRT	118,000	-	118,000	-	-	236,000	-	-	-	-						
U. S. Steel	Double G Coatings Byram (Jackson), MS	DGC	1994	2003	0.23	0.8	610	1245	H-DFRT	91,000	-	181,000	-	-	272,000	-	-	-	-					
	Fairfield Works, Fairfield, AL	#5 DualLine	1996	2003	0.30	1.0	860	1257	H-DFRT	91,000	-	181,000	-	-	272,000	-	-	-	-	Acrylic		4,300	Construction; 2 roll coaters	
	Granite City Works Granite City, IL	Triple G	1996	2004	0.23	0.9	610	1245	V-RT	91,000	-	163,000	-	-	254,000	-	-	-	-					
	Great Lakes Works																							
	EGL at Dearborn Dearborn, MI		1986	1998 2002	0.56	1.7	914	1854	NA	-	-	-	-	-	317,500	-	317,500	635,000						
	Ecource Plant Ecource, MI	#1 CGL	2000	2015	0.58	2.0	711	1854	V-RT	-	472,000	-	-	-	472,000	-	-	-	-					
	Gary Complex Midwest Plant Portage, IN	#3 CL	72" GACT	1970	2006	0.56	3.2	610	1829	V-RT	-	454,000	-	-	-	454,000	-	-	-	Prephos, CT	3,627,000	4,400	Induction GA, roll coater; GI & GA UHSS	
			#3 CL	1998	2006	0.23	0.9	610	1245	H-DFRT	245,000	-	-	-	-	245,000	-	-	-	Acrylic		4,400	Junkers coreless main & PM pots; 55Al-Zn until 2006	
	Mon Valley Complex	Irvin Plant, Dravosburg, PA	GAL1	1948	2004	0.91	4.3	560	1321	L-DFRT	200,000	-	-	-	-	200,000	-	-	-	-				
			GAL2	1949	1998	0.36	1.6	610	1219	V-DFRT	160,000	-	-	-	-	160,000	-	-	-	-	Acrylic		2,500	Construction & appliance. Converted to dual line in 1997
Fairless Plant, Fairless Hills, PA	GAL3	1968	1999	0.37	2.0	610	1626	H-RT	-	299,000	-	-	-	299,000	-	-	-	-						
		1993	2007	0.58	2.6	914	1880	V-RT	-	635,000	-	-	-	635,000	-	-	-	-	Prephos, CT, DFL		9,500	US Steel/Kobe Steel JV; 2 roll coaters; UHSS & exposed GA; robot skim; LIBS pot chem. Sensor		
PRO-TEC Coating Co., Leipsic, OH	CGL 3	CGL 2	1998	2006	0.38	1.7	610	1702	V-RT	-	499,000	-	-	-	499,000	-	-	-	Prephos		9,500	US Steel/Kobe JV; roll coater, exposed GA & AHSS; robot skim		
		2019	-	0.38	1.7	610	1702	V-RT	-	500,000	-	-	-	500,000	-	-	-	-			0	USS/Kobe JV; to produce UHS HDG - start July 2019 (AMM - Sep '17)		
UPI (USS-POSCO Industries)	Pittsburg, CA	#2CC	1963	1997	0.38	2.7	610	1372	V-RT	-	363,000	-	-	-	363,000	-	-	-	-					
Villacero	Cintacero Guadalupe, NL, Mexico	EG	1990	-	0.30	3.2	610	610	NA	-	-	-	-	-	48,000	-	-	48,000						

Minus 50% of Double G Coatings

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

Colour Code → Operating HD Lines

EG Lines

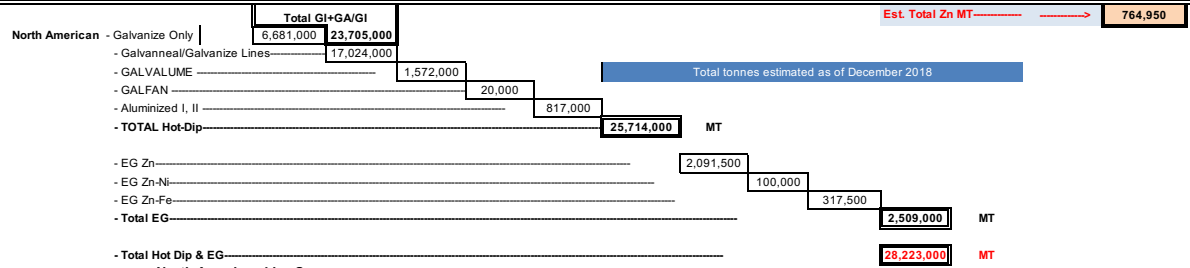
Under Construction

Idle Lines

METRIC (SI) VERSION

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Producer	Location	Line ID	Date Built	Latest Rebuild	Thickness (mm)		Width (mm)		Furnace Type(*)	Annual Hot-Dip Capacity - metric tonnes (MT)					Annual EG Capacity - MT				Roll Coatings	Total Company Hot-Dip - MT	Annual Zinc Usage - MT	Comments			
					Min	Max	Min	Max		GI only	GA/GI	AZ	GF	AL	Total	Zn	Zn-Ni	Zn-Fe					Total		
Zincacero	Apodaca, NL, Mexico	HDGL	1994	-	0.25	1.8	914	1245	H-RFT	91,000	-	-	-	-	91,000	-	-	-	-	-	-	-	-	3,000	
Wheeling Nisshin	Follansbee, WV	#1 AGL	1988	-	0.36	2.7	610	1549	H-DFRT	-	272,000	-	(ZAM™)	91,000	363,000	-	-	-	-	-	-	-	662,000	5,400	ZAM™ added in 2013-2014; Makes Aluminized stainless; Gas fired GA furnace; 100% Nisshin Steel Co., Ltd. since 2008
		#2 CGL	1993	2000	0.20	1.2	610	1270	H-DFRT	218,000	-	81,000	-	-	299,000	-	-	-	-	-	Acrylic	-	9,600	Construction; Carousel reels; roll coater	
Worthington Industries	Delta, OH	Spartan Steel Coating Monroe, MI	#1	1997	2008	0.64	6.35	813	1575	L-DFRT	-	363,000	-	-	-	363,000	-	-	-	-	-	907,000	13,600	CQ, culvert, guardrail markets (mostly HR substrate)	
			#1	1998	2009	0.43	1.9	711	1575	V-DFRT	-	544,000	-	-	-	544,000	-	-	-	-	Prephos, CT, acrylic	-	8,000	Worthington 52%/AK Steel 48% JV	



North American Line Summary

Type	Total	Operating	Being Built	Idle
Hot Dip Lines - TOTAL (all coatings)	75	70	3	2
Hot Dip Galvanize Lines (GI but no GA)	31	30	0	1
HDG Lines with GI & GA capability	48	44	3	1
Lines with GALVALUME capability	12	12	0	0
Lines with Galfan capability	2	2	0	0
Lines with ZAM™ capability	1	1	0	0
Lines with Aluminizing capability	3	3	0	0
EG Lines	9	9	0	0

- NOTES:
- Production tonnes based on most recent data
 - GI = Galvanize - GF = Galfan
 - GA = Galvanneal - AL = Aluminized I, II
 - AZ = 55Al-Zn (GALVALUME, ZINCALUME, etc.)
 - ZAM™ Zn-Al-Mg alloy coating
 - Zinc usage from 2004 ILZSG World Directory; CG Lines
 - (*) Furnace types
 - V = Vertical
 - H = Horizontal
 - L = Vert & Horiz (may or may not be "L" shaped)
 - NA = not applicable / not available

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