

2019 AIST Coke Oven Battery Roundup

AIST Roundup data is based on information submitted in the fourth quarter of 2018.

Company and location	Battery No. or operating unit designation	No. ovens each battery	Year of initial operation	Type of oven			Dimensions		
				Supplier	Heating system design	Current fuel gas used	Avg. oven width (mm)	Oven length between doors (m)	Oven height, floor to roof (m)

Brazil

SunCoke East Vitória	A, B, C, D	80	2007	SunCoke	Heat recovery	—	3,658	13.56	2.74
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Canada

Algoma Steel Inc. Sault Ste. Marie, Ont.	7	57	1959	Wilputte	Underjet	BFG and COG	450	12.50	4.03
	8	60	1967	Wilputte	Underjet	BFG and COG	460	14.10	5.13
	9	60	1979	Wilputte	Underjet	BFG and COG	460	14.10	5.13
ArcelorMittal Dofasco G.P. No. 2 CP Hamilton, Ont.	4,5	53, 53	1967	Koppers Becker	Gun type	BFG and COG	422	12.21	3.96
	No. 3 CP Hamilton, Ont.	6	35	1978	Dider	Underjet	BFG and COG	413	14.70
Stelco Inc. Lake Erie Works Nanticoke, Ont.	LEW #1	45	1981	Otto	Twin flue, underjet	COG	470	15.80	6.78
Hamilton Works Hamilton, Ont.	7	83	1972	McKee/Otto	Twin flue, underjet	COG	469	14.40	5.00

Slovakia

United States Steel Corporation Košice	VKB 1	100	1965	PVR- Giprokoks	Twin flue, gun type	BFG and COG	439	14.65	5.06
	VKB 3	30	1984	PVR- Giprokoks	Twin flue, underjet	BFG and COG	396	15.40	7.10

United States

AK Steel Corp. Middletown, Ohio	1	76	1953	Wilputte	Underjet	COG	457	13.11	3.96
ArcelorMittal USA Burns Harbor, Ind.	1	82	1983	Otto	Twin flue, underjet	BFG and COG	457	15.39	6.20
	2	82	1994	Still/Otto	Double pair flue, multiple stage, underjet	COG	457	15.42	6.25

BFG = blast furnace gas; COG = coke oven gas

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AIST Roundup data is intended for reference information only. No warranty is implied.

Calculated capacity of coal (m ³)	No. flues in heating wall	No. charging holes per oven	No. collecting mains	Type of oven doors	Charging method	Charging emissions control	Pushing emissions control	Stack emissions: continuous monitoring (Y/N)
54.45	—	—	—	SunCoke	Horizontal flight conveyor	Hood and cartridge dust collector	Flat push hot car w/Multiclone®	Yes
21.00	29	3	1	Wilputte	Screw feeder	Aspirating steam/stage charging with jumper pipe on cokeside battery top opening	Movable hood and fixed duct baghouse	Yes
30.50	32	3	1	Modified Wilputte (spring plunger design)	Turntable	Aspirating steam/stage charging with jumper pipe on third charge hole drop sleeve	Hooded coke guide and fixed duct wet scrubber	Yes
30.50	33	3	1	Modified Wilputte (spring plunger design)	Turntable	PROven system collector main at -30 mm with jumper pipe on third charge hole drop sleeve	Hooded coke guide and fixed duct wet scrubber	Yes
19.28	28	3	1	Cast door with flexible knife edge/self-sealing	Screw feeder	Aspirating steam	Hood car/baghouse	Yes
34.89	32	4	2	Semi-rigid steel door frame with flexible knife edge/self-sealing	Screw feeder	Aspirating steam	Hood car/Riley Venturi-Rod scrubber	Yes
45.06	34	4	2	Koppers	Screw feeder	Aspirating steam	Traveling hood and wet scrubber	Yes
31.55	32	4	4	Self-seal/spring	Screw feeder	High-pressure flushing liquor	Coke-side shed with bag filter	Yes
30.20	30	3	1	Saturn	Turntable	High-pressure flushing liquor	Guide car/spot hood/fixed duct baghouse	Yes
40.70	32	4	2	Saturn	Turntable	High-pressure flushing liquor	Guide car/spot hood/fixed duct baghouse	Yes
20.67	29	3	2	Saturn	Screw feeder	Aspirating steam	Movable hood and baghouse	Yes
39.11	32	4	1	Koppers self-sealing	Screw feeder	Stage charging/mini-stand pipes U-tube	Hooded coke guide and fixed duct baghouse	Yes
39.11	30	4	1	Still/Otto AUTOSEAL	Screw feeder	Stage charging/mini-stand pipes U-tube	Hooded coke guide and fixed duct baghouse	Yes

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ArcelorMittal USA (cont'd) Monessen, Pa.	1B	37	1981	Koppers-Becker	Underjet	COG	445	13.17	3.96
	2	19	1980	Koppers-Becker	Underjet	COG	445	13.17	3.96
Warren, Ohio	4	85	1979	Koppers	Gun type	COG	431	12.80	3.96
Drummond Co. Inc. ABC Coke Birmingham, Ala.	1A	78	1968	Wilputte	Twin flue	COG	467	14.85	5.00
	5	25	1947	Koppers	Gun type	COG	406	13.74	4.12
	6	29	1953	Koppers	Gun type	COG	406	13.74	4.12
DTE Energy Services EES Coke River Rouge, Mich.	5	85	1992	Krupp Wilputte	Underjet compound heating	COG	457	14.96	6.23
ERP Compliant Coke LLC Birmingham, Ala.	3	30	1952	Koppers	Gun type	COG	457	10.97	3.70
	4	30	1956	Koppers	Gun type	COG	457	10.97	3.70
	5	60	1958	Koppers	Gun type	COG	457	10.97	3.70
SunCoke Energy Gateway Energy and Coke Co. Granite City, Ill.	A, B, C	40	2009	SunCoke	Heat recovery	—	3,658	13.56	2.74
Haverhill North Coke Co. I Franklin Furnace, Ohio	A, B, C	2 x 40; 1 x 20	2005	SunCoke	Heat recovery	—	3,658	13.56	2.74
Haverhill North Coke Co. II Franklin Furnace, Ohio	D, E, F	2 x 40; 1 x 20	2008	SunCoke	Heat recovery	—	3,658	13.56	2.74
Indiana Harbor Coke Co. East Chicago, Ind.	A, B, C, D	67	1998	SunCoke	Heat recovery	—	3,658	13.56	2.74
Jewell Coke Co. Vansant, Va.	2D, 2E, 3B, 3C, 3F, 3G	17–36	1963	SunCoke	Non-recovery	—	3,658	13.56	2.74
Middletown Coke Co. Middletown, Ohio	A, B, C	2 x 40; 1 x 20	2011	SunCoke	Heat recovery	—	3,658	13.56	2.74
United States Steel Corporation Mon Valley Works Clairton Plant Clairton, Pa.	1, 2, 3	64	1955	Wilputte	Gun type	COG	475	11.39	3.61
	13, 14, 15	61	No. 13 and 14: 1989; No. 15: 1979	Carl Still	Gun type	COG	449	12.52	3.61
	19, 20	87	No. 19: 1976; No. 20: 1977	Koppers-Becker	Underjet	COG	449	13.17	4.33
	B	75	1982	Carl Still	Gun type	COG	457	16.14	6.10
	C	84	2012	UDHE	Twin flue hair pin underjet	COG	457	15.89	6.10

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23.22	28	4	2	Koppers	Gravity	Stage charging/ aspirating steam	Minister Stein - 4 module baghouse, fixed duct and pull with quench car hood	Yes (RATA testing in Dec 2018)
23.22	28	4	2	Koppers	Gravity	Stage charging/ aspirating steam	Minister Stein - 4 module baghouse, fixed duct and pull with quench car hood	Yes (RATA testing in Dec 2018)
20.33	29	3	2	Koppers	Screw feeder	Aspirating steam	Chemico car	Yes
31.15	32	3	1	Wilputte self-sealing	Gravity	Stage charging/ aspirating steam	Movable hood and baghouse	Yes
20.11	28	4	1	Becker	Gravity	Stage charging/ aspirating steam	Movable hood and baghouse	Yes
20.11	28	4	1	Becker	Gravity	Stage charging/ aspirating steam	Movable hood and baghouse	Yes
40.04	32	4	1	FLEXIT	Screw feeder	Flushing liquor	Baghouse and duct	Yes
16.45	25	4	1	USS-1 (pusher), Koppers (coke)	Gravity	Aspirating steam	Movable hood and baghouse	Yes
16.45	25	4	1	USS-1 (pusher), Koppers (coke)	Gravity	Aspirating steam	Movable hood and baghouse	Yes
16.45	25	4	1	USS-1 (pusher), Koppers (coke)	Gravity	Aspirating steam	Movable hood and baghouse	Yes
54.45	—	—	—	SunCoke	Horizontal flight conveyor	Hood and cartridge dust collector	Flat push hot car w/Multiclone	Yes
52.27	—	—	—	SunCoke	Horizontal flight conveyor	Hood and cartridge dust collector	Flat push hot car w/Multiclone	Yes
52.27	—	—	—	SunCoke	Horizontal flight conveyor	Hood and cartridge dust collector	Flat push hot car w/Multiclone	Yes
49.02	—	—	—	SunCoke	Horizontal flight conveyor	Hood and cartridge dust collector	Hot car shed and dust collector	Yes
49.02	—	—	—	SunCoke	Horizontal flight conveyor	Hood and cartridge dust collector	Hot car shed	No
54.45	—	—	—	SunCoke	Horizontal flight conveyor	Hood and cartridge dust collector	Flat push hot car w/Multiclone	Yes
17.73	28	4	2	USS-1	Gravity	Aspirating steam	Movable hood/baghouse	Yes
18.47	28	4	2	USS-2	Gravity	Aspirating steam	Movable hood/baghouse	Yes
23.67	28	4	2	Modified Koppers	Gravity	Aspirating steam	Movable hood/baghouse	Yes
41.68	33	4	2	USS-2	Gravity	Aspirating steam	Shed with baghouse	Yes
41.70	32	4	1	FLEXZED	Screw feeder	PROven	Hooded guide car	Yes

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