



REFERENCE LIST
BRUSHING MACHINES
 Designed and Built by
A·D·S Machinery Corp

YEAR	JOB	CUSTOMER	APPLICATION			
1961	959	Crucible Steel USA Cleaning and MgO Coating Line	Silicon Steel Four Brush Unit	36" Wide 0.012"-0.025" Thick	Timing Belt Brush Drive Manual Screwdown No Quick Open	Clean or Remove MgO Coating Tampico Brushes
1962	1031	Crucible Steel USA No. 3 Anneal and Pickle Line	Stainless Steel Two Brush Unit	52" Wide 0.012"- 0.187" Thick	Roller Chain Brush Drive Manual Screwdown No Quick Open	Brush Strippers Tampico Brushes
1962	1052	J & L Steel USA Electroplating Line	Four Brush Unit	36" Wide	Timing Belt Brush Drive Manual Screwdown Rack & Pinion Equalizer for Quick Open	"Scotch-Brite" Brushes Surface Condition Prior to Plating
1962	1055	J & L Steel USA Electroplating Line	Two Brush Unit	36" Wide	Timing Belt Brush Drive Powered Screwdown Rack & Pinion Equalizer for Quick Open	"Scotch-Brite" Brushes Remove Rolling Oil Prior to Plating
1962	1075-1	Sharon Steel USA Hot Dip Galvanizing Line	Carbon Steel Four Brush Unit	36" Wide	Timing Belt Brush Drive Powered Screwdown Rack & Pinion Equalizer for Quick Open	"Scotch-Brite" Brushes Surface Condition between Cleaning Section and Furnace
1962	1075-2	Crucible Steel USA Hot Dip Galvanizing Line	Carbon Steel Two Brush Unit	36" Wide	Timing Belt Brush Drive Powered Screwdown Rack & Pinion Equalizer for Quick Open	Nylon Brushes Remove Rolling Oils
1963	1126	Reverse Brass & Copper USA Color Coating Line (Aluminum)	Six Brush Unit	24" Wide 0.006"-0.032" Thick	V-Belt Brush Drive Manual Screwdown No Quick Open	Nylon Brushes
1962	1131	Crucible Steel USA No. 2 Anneal and Pickle Line	Stainless Steel Four Brush Unit	52" Wide 0.012"-0.187" Thick	Roller Chain Brush Drive Manual Screwdown Brush Strippers	Tampico Brushes
1963	1133	Allegheny Ludlum USA Sheet Scrubber	Four Brush Unit	48" Wide 0.012"-0.187" Thick	V-Belt Brush Drive Manual Screwdown No Quick Open	
1962	1172	Armco Steel USA Anneal & Pickle Line	Stainless Steel Five Brush Unit	25" Wide 0.003"-0.080" Thick	V-Belt Brush Drive	Tampico Brushes
1963	1212	Armco Steel USA Silicon Steel Scrubber	Four Brush Unit	48" Wide	Direct Brush Drive Manual Screwdown of Backup Rolls No Quick Open	Tampico (Flow Thru) Brushes Fixed Brush
1964	1260	Republic Steel USA	Carbon Steel Four Brush Unit	48" Wide	Spindle/Timing Belt Brush Drive Powered Screwdown	Wire Brushes Remove Zinc Coating



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		Hot Dip Galvanizing Line			Quick Open on Backup Rolls	
1964	1283	Sharon Steel USA Pickle Line	Carbon Steel Four Brush Unit	50" Wide	Direct Drive Manual Screwdown Rack & Pinion Equalizer for Quick Open	Tampico Brushes
1964	1308	Crucible Steel USA No. 9 Line	Stainless Steel Two Brush Unit	52" Wide 0.050"-0.140" Thick	Timing Belt Brush Drive Manual Screwdown No Quick Open	Brush Strippers Rubber Lined Housing
1964	1332	Union Carbide Haynes Stellite USA Sheet Cleaning Line	Stainless Steel Two Brush Unit	60" Wide 0.005"-0.250" Thick	Timing Belt Brush Drive No Quick Open	Tampico Brushes
1965	1340	Republic Steel USA Hot Dip Galvanizing Line	Carbon Steel Four Brush Unit	48" Wide	Spindle/Timing Belt Brush Drive Powered Screwdown Quick Open on Backup Rolls	Wire Brushes Remove Zinc Coating
1965	1405-1	Ingersoll Steel USA Grinding Line	Stainless Steel Six Brush Unit	50" Wide	V-Belt Brush Drive Manual Screwdown No Quick Open	Tampico Brushes
1965	1405-2	Ingersoll Steel USA Anneal & Pickle Line	(Stainless Steel) Four Brush Unit	50" Wide 0.005"-0.125" Thick	V-Belt Brush Drive Manual Screwdown No Quick Open	
1966	1511	Wheeling Steel USA Color Coating Line	Carbon Steel Four Brush Unit	48" Wide 0.062" Thick	Direct Brush Drive thru Spindles Manual Screwdown Rack & Pinion Equalizer for Quick Open	Flow-Thru Brushes Alkali Cleaning
1966	1547	Armco Steel USA Bright Anneal Line	Stainless Steel Six Brush Unit	50" Wide 0.015"-0.090" Thick	V-Belt Brush Drive No Quick Open	Synthetic Fiber Brushes
1966	1548	Armco Steel USA No. 25 Bright Anneal Line	Silicon Steel Six Brush Unit	49" Wide 0.014"-0.031" Thick	V-Belt Brush Drive No Quick Open	Tampico Brushes Clean Prior to Decarburizing Furnace
1966	1561	Armco Steel USA Silicon Steel Anneal & Coating Line		37" Wide 0.009"-0.014" Thick	Direct Brush Drive Powered Screwdown on Backup Roll ..Through Link Type Equalizer Mechanism	Fixed Brush No Quick Open
1966	1564	Armco Steel USA Silicon Steel Anneal & Coating Line	Two Brush Unit	37" Wide 0.009"-0.014" Thick	Direct Brush Drive Powered Screwdown on Backup Roll ..Through Link Type Equalizer Mechanism	Fixed Brush No Quick Open
1967	1620	Crucible Steel	Stainless Steel	50" Wide	Roller Chain Brush Drive	Tampico Brushes



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		USA No. 6 Anneal and Pickle Line	Four Brush Unit	0.010"-0.075" Thick	Powered Screwdown No Quick Open	Brush Strippers
1969	1753	Allegheny Ludlum USA Bright Anneal Line	Stainless Steel Two Brush Unit	18" Wide 0.0005"-0.030" Thick	V-Belt Brush Drive Manual Screwdown No Quick Open	Tampico Flow-Thru Brushes Remove Rolling Oils
1969	1825	Ball Brothers USA Continuous Casting Line (Zinc)	Two Brush Unit	28" Wide	Direct Brush Drive thru Spindles & Pinion Stand No Quick Open	Wire Brushes Surface Conditioning & Spray Cooling
1970	2002	Anaconda USA Non-Ferrous Anneal & Pickle Line	Brass and ..Copper Alloys Two Brush Unit	44" Wide 0.050"-0.125" Thick	V-Belt Brush Drive Manual Screwdown Manual Quick Open on Backup Rolls Thru Linkage	Flow-Thru Brushes Sulfuric Acid Rinse
1971	2140	Texas Instruments USA Cleaning Prior to Cladding	Two Brush Unit	13" Wide	V-Belt Brush Drive Manual Screwdown No Quick Open	
1974	2190	Metallugimport Soviet Union Bright Anneal Line	Stainless Steel Four Brush Unit	12" Wide 0.002"-0.080" Thick	Roller Chain Brush Drive Manual Screwdown No Quick Open	Flow Thru Brushes Alkali Cleaner
1974	2214	Texas Instruments USA Cleaning Prior to Cladding	Four Brush Unit	28" Wide	V-Belt Brush Drive Manual Screwdown No Quick Open	
1973	2266	Texas Instruments USA Cleaning Prior to Cladding	Two Brush Unit	15" Wide	V-Belt Brush Drive Manual Screwdown No Quick Open	Alkali Cleaning
1974	2320	Centrozap Poland Non-Ferrous Anneal & Pickle Line	Brass and ..Copper Alloys Two Brush Unit	30" Wide 0.050"-0.157" Thick	V-Belt Brush Drive Manual Screwdown Manual Quick Open on Backup Rolls Thru Linkage	Flow-Thru Brushes Sulfuric Acid Rinse
1977	2478	S.A. Marvin Brazil Non-Ferrous Pickle Line	Brass and ..Copper Alloys Two Brush Unit	27" Wide 0.032"-0.200" Thick	Direct Brush Drive Manual Screwdown on Backup Rolls No Quick Open	Fixed Brush Flow-Thru Brushes
1979	2668-3	Texas Instruments USA Cleaning Prior to Cladding	Four Brush Unit	24" Wide	V-Belt Brush Drive Manual Screwdown No Quick Open	Alkali Cleaning
1979	2668-7	Texas Instruments USA Cleaning Prior to Cladding	Four Brush Unit	24" Wide	V-Belt Brush Drive Manual Screwdown No Quick Open	Alkali Cleaning



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1976	2695	Texas Instruments USA Cleaning Prior to Cladding	Four Brush Unit	15" Wide	V-Belt Brush Drive Manual Screwdown No Quick Open	Alkali Cleaning
1977	2788	Texas Instruments USA Cleaning Prior to Cladding	Four Brush Unit	15" Wide	V-Belt Brush Drive Manual Screwdown No Quick Open	Alkali Cleaning
1979	2964	National de Cobre Mexico Non-Ferrous Anneal & Pickle Line	Brass and ..Copper Alloys Two Brush Unit	26" Wide 0.015"-0.100" Thick	V-Belt Brush Drive Manual Screwdown No Quick Open	
1980	3379	Republic Steel USA Electrolytic Galvanizing Line	Carbon Steel Two Brush Unit	48" Wide 0.015"-0.036" Thick	Direct Brush Drive thru Spindles Manual Screwdown Pivoting Brush Arms with Quick Open	Flow-Thru Brushes Polypropylene Tank
1981	3519	Southwestern Pipe USA Hot Dip Galvanizing Line	Carbon Steel Two Brush Unit	10" Wide 0.015"-0.125" Thick	Direct Brush Drive Manual Screwdown	Cantilevered Brushes Alkali Cleaning
1982	3581	Anaconda USA Non-Ferrous Anneal & Pickle Line	Brass and ..Copper Alloys Two Brush Unit	46" Wide 0.015"-0.100" Thick	Direct Brush Drive thru Spindles Manual Screwdown Pivoting Brush Arms with Quick Open	Sulfuric Acid Rinse
1982	3736	Brush Wellman USA Non-Ferrous Pickle Line	Beryllium Copper Two Brush Unit	18" Wide 0.002"-0.060" Thick	Direct Brush Drive thru Spindles Manual Screwdown Pivoting Brush Arms with Quick Open	Internal Brush Dressing Boards Surface Conditioning
1982	3781	Brush Wellman USA Non-Ferrous Pickle Line	Beryllium Copper Two Brush Unit	18" Wide 0.002"-0.060" Thick	V-Belt Brush Drive Manual Screwdown Pivoting Brush Arms with Quick Open	Surface Conditioning
1984	5017	Brush Wellman USA Non-Ferrous Bright Anneal Line	Two Brush Unit	25" Wide 0.010"-0.100" Thick	Direct Brush Drive thru Spindles Manual Screwdown Pivoting Brush Arms with Quick Open	Dual Backup Rolls Internal Brush Dressing Boards Driven Wringer Rolls Alkali Cleaning
1987	5079	Allegheny Ludlum USA Bright Anneal Line	Stainless Steel Four Brush Unit	36" Wide 0.005"-0.030" Thick	V-Belt Brush Drive Powered Screwdown No Quick Open	Dual Backup Rolls Alkali Cleaning
1985	5213	S.A. Marvin Brazil Non-Ferrous Pickle Line	Brass and ..Copper Alloys Two Brush Unit	27" Wide 0.032"-0.200" Thick	Direct Brush Drive thru Spindles Manual Screwdown Pivoting Brush Arms with Quick Open	Dual Backup Rolls Sulfuric Acid Rinse
1986	5241	Texas Instruments	Stainless Steel	26" Wide	Direct Brush Drive	Fixed Brush



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		USA Bright Anneal Line	Four Brush Unit	0.008"-0.080" Thick	Manual Screwdown on Backup Roll No Quick Open	Alkali Cleaning
1986	5297	Thomas Steel USA Nickel Plating Line	Carbon Steel Two Brush Unit	42" Wide 0.004"-0.070" Thick	Timing Belt Brush Drive Manual Screwdown No Quick Open	Alkali Cleaning
1986	5467	Brush Wellman USA Non-Ferrous Bright Anneal Line Two Machines	Beryllium Copper Two Brush Unit	18" Wide 0.002"-0.060" Thick	Timing Belt Brush Drive Manual Screwdown on Backup Roll Rack & Pinion Equalizer for Quick Open ...on Backup Rolls	Fixed Brush Dual Backup Rolls Rinse and Surface Conditioning
1991	6260	Federal Iron Works Malaysia Hot Dip Galvanizing Line	Carbon Steel Six Brush Unit	50" Wide 0.008"-0.062" Thick	Direct Brush Drive thru Spindles Manual Screwdown Pivoting Brush Arms with Quick Open	Driven Wringer Rolls Alkali Cleaning
1992	6402	Precision Galvanizing USA Hot Dip Galvanizing Line	Carbon Steel Two Brush Unit	60" Wide 0.012"-0.105" Thick	V-Belt Brush Drive Manual Screwdown No Quick Open	Dual Backup Rolls Alkali Cleaning
1992	6524	Northwest Copper PRC Non-Ferrous Anneal & Pickle Line	Beryllium Copper Two Brush Unit	14" Wide 0.002"-0.060" Thick	Direct Brush Drive thru Spindles Manual Screwdown Pivoting Brush Arms with Quick Open	Synthetic Fiber Brushes Sulfuric Acid Rinse
1993	6589-1	Great Lakes Metals USA Non-Ferrous Anneal & Pickle Line	Brass and ..Copper Alloys Vertical Two Brush Unit	30" Wide 0.004"-0.040" Thick	V-Belt Brush Drive Hydraulic Powered Screwdown No Quick Open	Pivoting Brush Arms Automatic Brush Load Control
1993	6589-2	Great Lakes Metals USA Non-Ferrous Anneal & Pickle Line	Brass and ..Copper Alloys Vertical Four Brush Unit	30" Wide 0.004"-0.040" Thick	V-Belt Brush Drive Hydraulic Powered Screwdown No Quick Open	Pivoting Brush Arms. No Quick Open Automatic Brush Load Control
1994	6748	Poongsan Metals South Korea Stainless Steel Bright Anneal Line		18" Wide 0.008"-0.060" Thick 50 FPM	Pre-clean Section plus Two Brushes Timing Belt Brush Drives Fixed Brushes Quick Change Brush Doors	Dual Brush Backup Rolls (non-driven) with Equalizer and Pneumatic Quick Open
1994	6851	IMSA Mexico High Speed Cleaning Line Two Machines	Carbon Steel & ..Galvanized Steel Four Brush Units (2) 2000 FPM	49" Wide 0.008"-0.060" Thick	Directly Opposing Brush Backup Rolls (driven) with Pneumatic Quick Open Quick Change Brush Drawers	Driven Wringer Rolls Direct Brush Drive with Automatic Load Control Offline Tank
1995	6978	IMSA Mexico Hot Dip Galvanizing Line	Carbon Steel & ..Galvanized Steel One Four-Brush &	50" Wide 0.008"-0.048" Thick 600 FPM	Directly Opposing Brush Backup Rolls (driven) with Pneumatic Quick Open	Driven Wringer Rolls Direct Brush Drive with Automatic Load Control



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YEAR	JOB	CUSTOMER	APPLICATION			
		Two Machines	..One Two-Brush		Quick Change Brush Drawers	Offline Tank
1995	7147	Hamilton Precision Metals USA Stainless Steel Bright Anneal Line		18" Wide 0.002"-0.070" Thick 50 FPM	Timing Belt Brush Drives Dual Brush Backup Rolls (non-driven) with Equalizer and Pneumatic Quick Open	Pre-clean Section plus Two Brushes Fixed Brushes Quick Change Brush Doors
1996	7156	US Steel Fairfield, AL USA Hot Dip Galvanizing Line	Carbon Steel	49" Wide 0.009"- 0.040" Thick 600 FPM	Directly Opposing Brush Backup Rolls (Driven) with Pneumatic Quick Open Quick Change Brush Drawers Offline Tank	Driven Wringer Rolls Direct Brush Drive with ..Automatic Load Control
1996	8016	US Steel Irvin PA USA Hot Dip Galvanizing Line	Carbon Steel Four Brushes .. (All Flow-Thru)	49" Wide 0.009"-0.040" Thick 330 FPM	Directly Opposing Brush Backup Rolls (Driven) with Pneumatic Quick Open on Backup Rolls Quick Change Brush Drawers	Driven Wringer Rolls Direct Brush Drive with Automatic Load Control Offline Tank
1996	3986	Warren Consolidated Industries Warren, OH USA Silicon Steel Anneal Line Two Machines	Four Brushes	48" Wide 0.014"-0.037" Thick 350 FPM	Single Offset Brush Backup Rolls (Non-Driven) Non-Driven Wringer Rolls	Direct Brush Drive Offline Tank
1997	8081	Armco Steel Middletown, OH USA Stainless Steel Anneal & Pickle Line Two Machines	Two Brush	12", Wide 0.080"-0.120" Thick 100 FPM	Dual offset Brush Backup Rolls (Non Driven) Direct Brush Drives Pilot Line	
1997	7997	Winner Steel Services Sharon, PA USA Hot Dip Galvanizing Line	Four Brush	60" Wide 0.008" – 0.065" Thick 675 FPM	Directly Opposing Brush Backup Rolls (Driven) Direct Brush Drives	Manual Brush Adjust Gas Heating Online Reservoir
1998	10255	GalvPro Jeffersonville, IN USA Hot Dip Galvanizing Line	Two Brush	60" Wide 0.008" – 0.040" Thick 500 FPM	Directly Opposing Brush Backup Rolls (Driven) Direct Brush Drives	Gas Heating Offline Reservoir
2000	10403	Dofasco Canada Annealing Line	Four Brushes	48" Wide .0067-.0020 Thick 1500 FPM	Directly Opposing Brush Backup Rolls (Driven) with Pneumatic Quick Open Quick Change Brush Drawers Offline Tank (By Others)	Driven Wringer Rolls Direct Brush Drive with Automatic Load Control
2006	11835	Allegheny Ludlum USA Annealing Line	Two Brushes	28" Wide 0.012"-0.065" Thick	Directly Opposing Brush Backup Rolls (driven) with Adjustable Stops and Pneumatic Quick Open	Online (Poly & Propylene) Tank Quinch Open on Brushes Timing Belt Drive



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2011	11626	US Steel USA Galvanizing Line	Two Brushes	50" Wide 0.009"-0.040" Thick 600 FPM	Directly opposing brushes Dry brushing Zinc Removal after pot stop	
2014	12711	SDI USA Hot Dip Galvanizing Line	Two Brushes Timing Belt Drive	60" Wide 0.008"-0.040" Thick 650 FPM	Directly Opposing Brush Backup Rolls (Driven) Direct Brush Drives	Gas Heating Offline Reservoir
2015	13327	US Steel - Greatlakes USA Galvanizing Line	Four Brushes	73" Wide 0.018-0.080 Thick 600 FPM	Directly Opposing Brush Backup Rolls (Driven) Direct Brush Valves	
2016	13485	National Galvanizing Galvanizing Line	Four Brushes	48" Wide 0.030"-0.250" Thick 150 FPM	Directly Opposing Brush Backup Roll (Driven) Direct Brush Drives Gas Heating	
2020	13981	Materion Brush Performance Cleaning Line 76 Machines thru 13981	Four Brushes	18" Wide 0.008"-0.030" Thick 60 FPM	Quick Open on Backup Rolls Manual Screw Down	