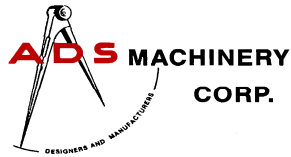


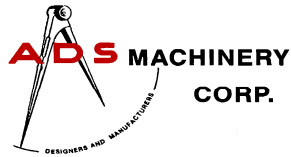
REFERENCE LIST
SHEARS
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YEAR	JOB	MATERIAL	WIDTH (inches)	THICKNESS (inches)	TYPE	REMARKS
1957	510	Silicon Steel	16	0.014	Pneumatic Double Toggle Downcut	Special High Speed Unit
1959	588	Silicon Steel	10	0.014	Pneumatic Direct Acting	Special High Speed Unit - Strip on Edge
1960	765	Silicon Steel	10	0.014	Pneumatic Direct Acting	Special High Speed Unit - Strip on Edge
1962	1073	Silicon Steel	24	0.014	Pneumatic Direct Acting Downcut	Special High Speed Unit
1962	1090	Silicon Steel	10	0.014	Pneumatic Direct Acting Downcut	Two Units-Miter Shears-Link Type Equalizer
1963	1184	Silicon Steel	10	0.014	Pneumatic Direct Acting	Special High Speed Unit - Strip on Edge
1964	1304	Silicon Steel	24	0.014	Pneumatic Direct Acting Downcut	Link Type Equalizer
1967	1525	Stainless Steel	48	0.250	Motorized Downcut	Handwheel Gap Adjust
1968	1583	Titanium	52	0.250	Hydraulic Double Toggle Upcut	Semi-Dovetail Gibs and Ways
1968	1739	Brass and Copper	28	0.080	Hydraulic Direct Acting Upcut	Two Units - Link Type Equalizer
1969	1825	Zinc	30	0.625	Hydraulic Double Toggle Downcut	Traveling Shear - Entry Clamp
1969	1883	Silicon Steel	36	0.016	Pneumatic Rotary Actuator	Special High Speed Unit
1969	1984	Stainless Steel	54	0.250	Motorized Downcut	Pinch Rolls
1970	1776	Silicon Steel	40	0.016	Pneumatic Double Toggle Downcut	Special High Speed Units - Two Pivoting Miter Shears - Two Notching Presses
1970	1819	Carbon Steel	52	0.375	Hydraulic Double Toggle Upcut	Semi-Dovetail Gibs and Ways
1970	1861	Silicon Steel	40	0.016	Pneumatic Double Toggle Downcut	Two Units - One Pivoting Miter Shear - One Fixed Miter Shear
1970	2002	Brass and Copper	44	0.125	Hydraulic Direct Acting Upcut	Crop Shear
1970	2062	Brass and Copper	5	0.090	Hydraulic Motor Driven Rocker	Scottish Yoke Mechanism
1971	1995	Brass and Copper	28.5	0.065	Hydraulic Direct Acting Upcut	Two Units
1971	2044	Brass and Copper	26	0.018	Hydraulic Direct Acting Upcut	Crop Shear
1971	2056	Silicon Steel	10	0.013	Electric Flying Die Accelerator	Knife Fired by Stationary Cam Follower
1972	2226	Stainless Steel	26	0.020	Pneumatic Direct Acting Downcut	Post Type
1973	2325	Steel	8.5	0.060	Electric Motor Driven Rocker	Scottish Yoke Mechanism
1974	2190	Stainless Steel	11.8	0.080	Hydraulic Direct Acting Downcut	Two Units - Post Type
1974	2207A	Brass and Copper	14.4	0.016	Hydraulic Direct Acting Downcut	Post Type
1974	2207B	Brass and Copper	14.4	0.016	Hydraulic Direct Acting Downcut	Post Type
1974	2208A	Brass and Copper	29.1	0.050	Hydraulic Direct Acting Upcut	Two Units
1974	2208B	Brass and Copper	29.1	0.050	Hydraulic Direct Acting Upcut	Two Units
1974	2280	Brass and Copper	25	0.020	Pneumatic Direct Acting Downcut	Post Type
1974	2282	Brass and Copper	29	0.080	Hydraulic Double Toggle Upcut	Cut-to-Length Shear - Semi-Dovetail Gibs and Ways
1974	2320	Brass and Copper	29.5	0.157	Hydraulic Direct Acting Upcut	Two Units
1975	2433	Silicon Steel	10	0.014	Pneumatic Direct Acting	Special High Speed Unit - Strip on Edge
1976	2212	Carbon Steel	N/A	N/A	Motorized Downcut	For Bars and Angles - 160 Ton



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1977	2696	Brass and Copper	48	0.125	Hydraulic Direct Acting Upcut	Two Units - Link Type Equalizer
1977	2332	Stainless Steel	26	0.080	Hydraulic Direct Acting Upcut	Two Units
1977	2530	Hard Brass	27	0.125	Hydraulic Direct Acting Downcut	Post Type
1978	2947	Silicon Steel	8	0.014	Pneumatic Double Toggle Downcut	Special High Speed Unit - Post Type
1978	2956	Aluminum	4	0.032	Pneumatic Double Toggle Downcut	Cutting and Corrugating Machine
1978	2986	Beryllium Copper	20	0.300	Hydraulic Double Toggle Upcut	Pivoting Base-Four Positions-Air Cushion-Semi-Dovetail Gibs and Ways
1978	3058	Silicon Steel	8	0.025	Pneumatic Double Toggle Downcut	Special High Speed Units - Two Miter Shears - One Notching Press
1979	2644	Stainless Steel	14	0.116	Hydraulic Direct Acting Downcut	Two Units - Post Type
1979	2964	Brass and Copper	26	0.100	Hydraulic Direct Acting Upcut	Two Units
1979	3014	Stainless Steel	54	0.250	Hydraulic Double Toggle Upcut	Pivoting Entry Shear
1979	3014	Stainless Steel	54	0.250	Hydraulic Double Toggle Upcut	Exit Shear
1979	2619	Carbon Steel	36	0.250	Hydraulic Direct Acting Upcut	Crop Shear
1979	2829	Stainless Steel	60	0.130	Hydraulic Single Toggle Upcut	Peeler - Pinch Rolls - Passline Roll - Semi-Dovetail Gibs and Ways
1979	3014	Stainless Steel	54	0.250	Motorized Downcut	Cut-to-Length Shear
1979	3146	Zirconium	24	0.750	Hydraulic Single Toggle Upcut	Crop Shear
1981	3211	Silicon Steel	10	0.016	Pneumatic Direct Acting	Special High Speed Unit
1981	3519	Carbon Steel	10	0.120	Hydraulic Direct Acting Downcut	Post Type
1981	3522	Steel	N/A	N/A	Flying Bar Shear	0.38 to 1.25 Diameter Round Bars
1982	3581	Brass and Copper	46	0.100	Hydraulic Direct Acting Upcut	Two Units - Link Type Equalizer
1983	3730	Aluminum	61.4	0.080	Hydraulic Direct Acting Downcut	Two Units-Post Type-Link Type Equalizer
1983	3907	Cast Iron	N/A	N/A	Hydraulic	Foundry Sprue Runner Breaker
1984	3834	Aluminum	64.6	0.080	Hydraulic Direct Acting Downcut	Two Units-Post Type-Link Type Equalizer
1985	3833	Aluminum	67	0.080	Hydraulic Direct Acting Downcut	Three Units-Post Type-Link Type Equalizer
1985	3977	Silicon Steel	14	0.016	Pneumatic Direct Acting Upcut	Special High Speed Unit
1985	4081	Silicon Steel	24	0.016	Pneumatic Double Toggle Downcut	Special High Speed Unit
1985	5226	Stainless Steel	13.8	0.080	Hydraulic Direct Acting Downcut	Two Units - Post Type
1989	5606	Carbon Steel	38	0.015	Pneumatic Direct Acting	Special Flying Snip Shear
1989	5996	Copper and Nickel	18	0.100	Hydraulic Direct Acting Upcut	Post Type
1989	6078	Aluminum	82	0.010	Hydraulic Direct Acting Downcut	Link Type Equalizer - Post Type
1989	6078	Aluminum	82	0.050	Hydraulic Roller Shear	Rotary Knives
1989	6138	Carbon Steel	42	0.035	Hydraulic Direct Acting	Three Units - Two Upcut - One Downcut



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1990	6243	Carbon Steel	72	0.150	Hydraulic Direct Acting Upcut	Three Units - Link Type Equalizer
1990	6260	Carbon Steel	50	0.063	Electric Motor Driven Rocker	Cut-to-Length Shear
1990	6260	Carbon Steel	50	0.063	Hydraulic Direct Acting Upcut	Three Units - Post Type - Pinch Rolls
1991	6384	Stainless Steel	51.2	0.118	Hydraulic Direct Acting Upcut	Link Type Equalizer-Handwheel Gap Adjust
1991	6384	Stainless Steel	51.2	0.118	Motorized Upcut	Handwheel Gap Adjust
1992	6324	Carbon Steel	72	0.058	Hydraulic Direct Acting Downcut	Link Type Equalizer-Post Type-Pinch Rolls
1992	6337	Aluminum	63	0.040	Hydraulic Direct Acting Upcut	Two Units - Link Type Equalizer
1992	6524	Beryllium Copper	13.8	0.059	Hydraulic Direct Acting Downcut	Two Units - Post Type
1992	6555	Carbon Steel	48	0.177	Hydraulic Double Toggle Downcut	Two Units - Pinch Rolls
1993	6604	Carbon Steel	51.2	0.177	Hydraulic Direct Acting Upcut	Two Units-Link Type Equalizer-Pinch Rolls
1993	6604	Carbon Steel	51.2	0.177	Hydraulic Direct Acting Downcut	Dual Miter Shear - Link Type Equalizer
1993	6686	Stainless Steel	13.8	0.032	Hydraulic Direct Acting Downcut	Two Units - Post Type
1994	6748	Stainless Steel	17.7	0.059	Hydraulic Direct Acting Downcut	Two Units - Post Type
1994	6851	Carbon Steel	49	0.060	Hydraulic Direct Acting Upcut	Two Units
1994	6873	Silicon Steel	14	0.016	Direct Acting Upcut	Special High Speed Unit
1994	6911	Carbon Steel	60	1.500	Dual Rotary Head Unit	Hot Strip Mill
1994	6958	Carbon Steel	28.5	0.040	Hydraulic Direct Acting	Vertical Strip Passline
1994	6978	Carbon Steel	50	0.095	Hydraulic Direct Acting Upcut	Three Units-Link Type Equalizer-Pinch Rolls
1995	7156	Carbon Steel	50	0.080	Hydraulic Direct Acting Upcut	Three Units-Link Type Equalizer-Pinch Rolls
1995	7742	Carbon Steel	60	0.040	Hydraulic Direct Acting Upcut	Three Units-Link Type Equalizer-Post Type
1996	7874	Carbon Steel	42	0.035	Hydraulic Direct Acting Upcut	Post Type
1996	7915	Stainless Steel	26	0.050	Hydraulic Direct Acting Upcut	Crop Shear
1997	7997	Carbon Steel	60	0.090	Hydraulic Direct Acting Upcut	Three Units-Link Type Equalizer-Post Type
1997	7906	Silver	24	1.000	Hydraulic Direct Acting Downcut	Link Type Equalizer - Entry Strip Clamp
1997	8008	Aluminum	82	0.130	Hydraulic Direct Acting Downcut	Special Cutting and Forming Shear - Link Type Equalizer
1997	8059	Carbon Steel	48	0.300	Hydraulic Direct Acting Downcut	Link Type Equalizer-Post Type
1998	10255	Carbon Steel	60	0.080	Hydraulic Direct Acting Upcut	Three Units-Link Type Equalizer-Post Type
1999	10223	Carbon Steel	50	0.180	Hydraulic Double Toggle	Two Units - One Upcut - One Downcut
2000	10577	Stainless Steel	16	0.300	Hydraulic Direct Acting Downcut	Two Units - Link Type Equalizer
2000	10832	Stainless Steel	16	0.250	Hydraulic Direct Acting Downcut	Link Type Equalizer
2001	10764	Carbon Steel	42	0.025	Pneumatic Direct Acting	Special Flying Snip Shear
2004	11410	Carbon Steel	60	0.125	Hydraulic Direct Acting Upcut	Link Type Equalizer
2005	12027	Carbon Steel	60	0.060	Hydraulic Direct Acting Upcut	Two Units - Link Type Equalizer
2005	12027	Carbon Steel	60	0.060	Motorized Upcut	60 Cuts Per Minute



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2007	12249	Silicon Steel	40	0.040	Hydraulic Upcut	Three Units-Link Type Equalizer-Post Type
2007	12188	Stainless Steel	52	0.030	Hydraulic Roller	Roller Type-Entry Strip Clamp
2008	12082	Carbon Steel	62	0.180	Hydraulic Direct Acting Upcut	Two Units-Link Type Equalizer-Pinch Rolls