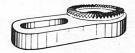


No.146 - Plunger Lever Hub



No.147 - Link for Plunger Level



No. 148 - Release for Slide Block



No. 149 - Adjusting Nut for Plunger Spring





No.151 - Lock Pin Pusher



No.152 - Adjusting Nut for Plunger Lever





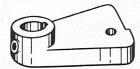
No.155 - Lock Pin Spring

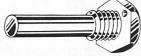


No.156 - Pin for Plunger Lever



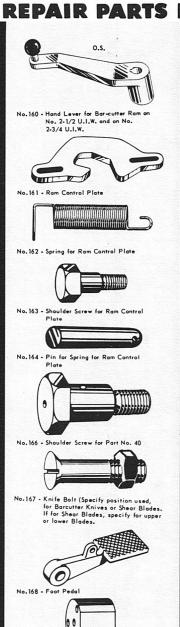
No.157 - Bushing for Plunger Spring





No. 159 - Spec. Shoulder Screw for Ram fo Built-In Coper on Shear End

O.S. Old Style



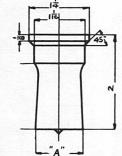
Extension for Punch Stem, #0, #1/2 and #1-1/2 S.l.W.

No.171 - Extension for Punch Ster #2 U.I.W., #2-1/2 S.I.W.

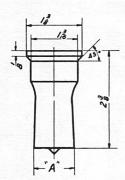
No. 172 - Lever for Foot Pedal Linkage

No. 175 - Rod End for B.C. Ram

No. 170 -



No. 664

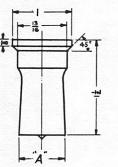


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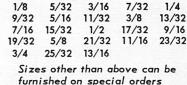
No. 903

No. 3T-10220

BUFFALO PUNCHES



No. 362



Punches for No. 0 U.I.W. & No. 45P

Maximum Diameter 13/16" CARRIED IN STOCK IN "A" SIZES

furnished on special orders

Punches for No. 1/2, No. 1/2, U.I.W. No. 46 - No. 1/2 & No. 11/2 5.1.W. Maximum Diameter 1-1/16"

CARRIED IN STOCK IN "A" SIZES 1/8 7/32 1/4 5/32 9/32 5/16 11/32 3/8 13/32 7/16 15/32 1/2 17/32 9/16

19/32 5/8 21/32 11/16 23/32 3/4 25/32 13/16 27/32 7/8 29/32 15/16 31/32 1-1/32 1-1/16

Sizes other than above can be furnished on special orders.

Punches for No. 25-21/2 U.I.W.-47-P. Maximum Diameter 1-3/16"

CARRIED IN STOCK IN "A" SIZES

3/16 7/32 9/32 11/32 3/8 13/32 7/16 15/32 1/2 9/16 19/32 5/8 21/32 11/16 23/32 3/4 25/32 13/16 29/32 31/32 1-5/32 1-3/16

Sizes other than above can be furnished on special orders

Punches for No. 21/2 STR. I.W. Maximum Diameter 1-7/16"

CARRIED IN STOCK IN "A" SIZES

7/32 9/32 3/16 1/4 15/32 11/32 3/8 13/32 7/16 1/2 9/16 19/32 5/8 21/32 11/16 23/32 3/4 25/32 13/16 7/8 29/32 27/32 15/16 31/32 1" 1-1/32 1-1/16 1-3/32 1-1/8 1-5/32 1-3/16 1-7/32 1-1/4 1-9/32 1-5/16 1-3/8 1-7/16

Sizes other than above can be furnished on special orders

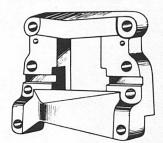
	No.1	- Plunger Cover - Punch End	No.54	- Double Washer for Knife E
	No.2	- Plunger Cover - Punch End (For	No.55	- Eccentric Shaft
	140.2		No.56	- Main Bearing Housing - Fro
		Built-In-Notcher)		- Main Bearing Bushing - Fro
	No.3	- Punch Plunger (Without Built-In	No.57	
		Notcher)	No.58	- Main Bearing Housing - Rec
	No.4	- Punch Plunger (With Built-In	No.59	- Main Bearing Bushing - Rec
		Notcher)	No.60	- Washer for Flywheel Shaft
	No.5	- Punch Plunger Guide (Without	No.61	 Special Cap Screw for Flyw Shaft Washer
		Built-In Notcher)	No.62	- Front Stud for Spring Washe
	No.6	- Punch Plunger Guide (With		그리고 있는 어느 그리고 없는 맛들었다고 하는 것은 하는데 모양이다.
		Built-In Notcher)	No.63	- Rear Stud for Spring Washer
	No.7	- Special Upper Shear Knife for Flats	No.64	- Upper Spring Washer - B.C.
	No.8	- Handwheel for Floating Head	No.65	- Ram for Built-In Coper or N
	No.9	- Pin for Ram & Eyebolts		on Shear End
	No. 10	- Adjusting Screw for Punch plunger	No.66	- Lower Spring Cap - B.C.
		gib	No.67	- Ram Block for Barcutter Pl
	No.11	- Punch Ram and Bushing (For	No.68	- Clamp for Barcutter Block
	1.45	Large Sizes)	No.69	- Sheave for Chain Arrangeme
	No 12	- Punch Ram (For Small Sizes)	No.70	- Eye Bolt for Barcutter Sprin
		- Socket for Punch	No.71	- Spring for Barcutter Plunger
		- Socket for Triple Punch Tools	No.72	- Liner for Main Frame
			No.73	- Special Fillister Head Scre
		- Die Block (Single)	140.73	
	No. 15	- Die Block (For Triple Punching		Main Frame Liner
		Tools)	No.74	- Gib for Barcutter Plunger
		- Stop Screw for Punch Block	No.75	- Adjusting Screw for Gib for
		- Block (Upper) for Punch		Plunger
	No.18	- Pawl Latch	No.76	- Stud for Barcutter Ram Cha
	No. 19	- Stripper for Triple Punching		Arrangement
		Attachment	No.76A	- Stud for Barcutter Ram
	No. 20	- Stripper for Single Punch	No.77	- Swivel for Chain Arrangeme
		Specify if for High or Low Die	No.78	- Hook Bolt for Chain Arrang
		Block		or 78-A
	No.21	- Middle Die Holder - Triple Punch	No.79	- Trip Lever for Chain Arrang
		Attachment		for Shear & Barcutter
	No.21A	- Outside Die Holder - Triple Punch	No.80	- Special Screw for Sheave
		Attachment	No.81	- Special Shoulder Screw for
	No 22	- Rocker Arm for Punch		- Chain Arrangement
		- Punch Block	No.82	- Bracket for Lever for Chair
		- Gag Holder for Triple Punch Tools		Arrangement
		- Single Punch Holder	No.83	- Stripper for Mitering
		- Gag-Block for Single Punch Tools	No.84	- Angle Mitering Block
		- Retainer Bar for King Pin	No.85	- Stop Pin for Mitering
: *		- Link for Block (Inside)	No.86	- Support for Angles
		- Bracket for Pedal	No.87	- Stripper Screw for Angles 8
			No.88	- Lock Screw for Mitering Str
	No.29	- Inside or Outside Lever for Block	No.89	- Lock Pin for Stripper Screw
	No.30	- Jaw Hub for Handwheel	No.90	- Washer for Lock Screw
	No.31	- Adjustable Wedge for Punch		- Lower Knife Holder for Bar
		Plunger	No.91	
	No.32	- Adjustable Spring Plug for Punch	No.92	- Stripper Screw Nut for Angl
		Plunger	No.93	- Stripper Screw Holder for A
	No.33	- Pawl for Punch Plunger	No.94	Pin and Cam for Plunger St
	No.34	- Plunger Stop for Float, Head		(Barcutter)
		Punch	No.95	- Pivot Pin for Barcutter Plu
	No.35	- Spring for Punch Plunger		(With Link)
	No.36	- Spring Cap for Punch Plunger	No.96	- Stripper for Barcutter
		Spring	No.97	- Driving Gear for Shear Strip
	No.37	- Fork for Foot Pedal Linkage	No.98	- Driven Gears for Shear Stri
	No.38	- Pin for Handwheel	No.99	- Stripper Housing - Shear St
	No.39	- Punch Holder for Triple Punch	No. 100	- Stripper for Shear
		Tools	No. 101	- Handle for Shear Stripper
	No.40	- Bell Crank for Foot Pedal	No. 102	- Barcutter Plunger with She
	No.41	- Pin for Pawl	No. 103	- Upper Knife Holder for Cop
	No.42	- Shaft for Levers - Foot Pedal		Shear End
	No.43	- Shaft of Levers & Counterweight	No.103A	- King Pin for Upper Knife H
	No.44	- Counterweight for Punch Block		for Coper
		- Counterweight for Shear	No. 104	- Upper Knife Holder for Not
		- Shoulder Screw for Pedal		Shear End
	No.46	- Clamping Screw for Punch	No. 104 A	- King Pin for Upper Knife H
	140.40	The state of the s		for Notcher - Shear End
	VI	Stripper	No. 105	- Lower Die Holder for Cope
	No.47	- Eye Bolt for Punch Rocker Arm	1,5.105	Shear End
	No.48	- Eye Bolt for Die Block	No 104	- Lower Die Holder for Notch
	No.49	- Pin for Punch Plunger	No. 106	
	No.50	- King Pin for Punch Rocker Arm	No. 107	Shear End
	No.51	- Link for Punch Rocker Arm	No. 107	- Intermediate Shaft (Large A
	No.52	- Ram for Barcutter	No.108	- Intermediate Bearing (Larg
	No.53	- Bushing for Barcutter Ram		Machine
			25	

No.110 - Flywheel (V-Belt Drive) Front No.111 - Trunion Support for Flywheel shaft Front (Small Machine) Rear No.112 - Flywheel Bearing (Large Machine) Rear No.113 - Bushing for Main Pinion No.114 - Pinion (Main) of t lywheel No.115 - Pinion (Intermediate) No.116 - Gear (Main) asher - B.C. No.117 - Gear (Intermediate) sher - B.C. No.118 - Adjustable Depth Gauge for Coper B.C. or Notcher (See Assembly) or Notcher No.119 - L'ow Die Block for #0 U.I.W. #1/2 & #1-1/2 S.I.W., # 2-1/2 S.I.W. r Plunger No. 120 - High Die Block for #0 U.I.W., ock #1/2 & #1-1/2 S.I.W., #2-1/2 gement S.I.W. No.121 - Special Die Block for Web for 3", Spring 4" and 5" IBs and Cs ınger No.122 - Left Hand Knife Clamp for #0 U.I.W. Screw for only No.123 - Right Hand Knife Clamp for # 0 U.I.W. only b for B.C. No.124 - Old Style Notcher Punch No.125 - Old Style Notcher Die Chain No.132 - Pin for Plunger No.133 - Special Stud for Barcutter Plunger Return Link (Old Style Machines Only) No.134 - Lock Plug for No. 133 gement No.135 - Return Link for Barcutter Plunger rangement (Old Style Machines Only) No.136 - Foot Pedal for Punch rrangement No.137 - Plunger Lever No. 138 - Cap for Plunger Spring No. 139 - Ball for Plunger Lever for Swivel No. 140 - Stud for Pin for Plunger Lever No.141 - Lock-pin for Pawl hain No.142 - Pin for Plunger No.143 - Pawl No.144 - Shaft for Block releasing Lever No.145 - Spring Rod for Plunger No.146 - Plunger Lever Hub No.147 - Link for Plunger Lever es & Tees No. 148 - Release for Slide Block g Stripper No. 149 - Adjusting Nut for Plunger Spring crew Holder No.150 - Counterweight Shaft No.151 - Lock Pin Pusher Barcutter No.152 - Adjusting Nut for Plunger Lever Angles No.153 - Washer for Plunger Lever or Angles No.154 - Plunger Spring er Stop No.155 - Lock Pin Spring No.156 - Pin for Plunger Lever Plunger No.157 - Bushing for Plunger Spring No. 158 - Inside Lever for Block No. 159 - Spec. Shoulder Screw for Ram for Stripper Built-In Coper on Shear End Stripper No.160 . Hand Lever for Bar-cutter Ram on ar Stripper No. 2-1/2 U.I.W. and on No. 2-3/4 U.I.W. No.161 - Ram Control Plate Shear No.162 - Spring for Ram Control Plate Coper -No.163 - Shoulder Screw for Ram Control Plate fe Holder No. 164 - Pin for Spring for Ram Control Plate Notcher -No. 166 - Shoulder Screw for Part No. 40 No. 167 - Knife Bolt ife Holder No.168 - Foot Pedal No. 170 - Extension for Punch Stem, oper -#0, #1/2 and #1-1/2 S.I.W. No.171 - Extension for Punch Stem, lotcher -# 2 U.I.W., # 2-1/2 S.I.W. No.172 - Lever for Foot Pedal Linkage ge Machine) No. 173 - Ball Joint for Foot Pedal Linkage Large No. 174 - Spring for Foot Pedal Linkage No.175 - Rod End for B.C. Ram

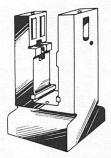
No.109 - Flywheel Shaft



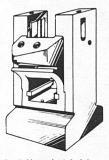
No.1 - Plunger Cover - Punch End



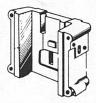
Plunger Cover - Punch End (For Built-In-Notcher)



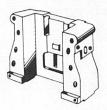
Punch Plunger "Floating Head for U.I.W. without built-in-notcher



No.4 - Punch Plunger (With Built-In Notcher)



No.5 - Punch Plunger Guide (Without Built-In Notcher)



No.5 - Punch Plunger Guide (With Built-In Notcher)



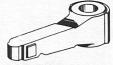
- Special Upper Shear Knife for Flats



- Handwheel for Floating Head (See No. 30 for Jaw Hub) No.8







No.11 - Punch Ram and Bushing (For Large Sizes)





(For Single Punches only)



Coupling Nut



No. 13A - Socket for Triple Punch Tools and for Single Punch Tools built before 1936



No.14 - Die block (Single) (For No. ½ and No.1½ U.I.W. Only) (See Nos. 119, 120 and 121 for Die Blocks on other I.W.s)



No. 15 - Die Block (For Triple Punching Tools)



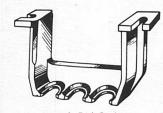
No.16 - Stop Screw for Punch Block



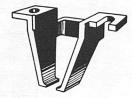
No. 17 - Block (Upper) for Punch



No.18 - Pawl Latch



No.19 - Stripper for Triple Punching Attachment





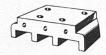
No.21 - Middle Die Holder - Triple Punch Attochment No.21A - Outside Die Holder - Triple Punch



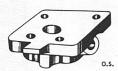
No.22 - Rocker Arm for Punch



No.23 - Punch Block



No.24 - Gag Holder for Triple Punch Tools



No.25 - Single Punch Holder



No.25A - Gag-Block for Single Punch Tools (1-Req'd.) for Triple Punch Tools (3-Req'd.)



No.26 - Retainer Bar for King Pin





No.28 - Bracket for Pedal



No.29 - Inside or Outside Lever for Block Specify position used. See part No for inside lever on machines built



No.30 - Jaw Hub for Handwheel



No.31 - Adjustable Wedge for Punch



No.32 - Adjustable Spring Plug for Punch Plunger



No.33 - Pawl for Punch Plunge



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No.35 - Spring for Punch Plunger For No. 0-1/2-1-11/2-2-21/2-21/2 U.I.W. 21/2 U.D.



No.36 - Spring Cap for Punch Plunger Spring



No.37 - Fork for Foot Pedal Linkage



No.38 - Pin for Handwheel



No.39 - Punch Holder for Triple Punch Tools





No.41 - Pin for Pawl



No.42 - Shaft for Levers - Foot Pedal



No.43 - Shaft of Levers & Counterweight or Spring Specify position used.



No.44 - Counterweight for Punch Block No.44A - Counterweight for Shear



No.45 - Shoulder Screw for Pedal







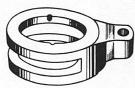
No.48 - Eye Bolt for Die Block



No.49 - Pin for Punch Plunger No longer available replaced by No. 132



No.50 - King Pin for Punch Rocker Arm
O.S. New Style without Retainer Bar



No.51 - Link for Punch Rocker Arr

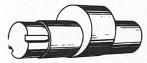


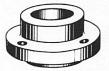


(Two for No. 51) (One for No. 52



No.54 - Double Washer for Knife "E" for Barcutter

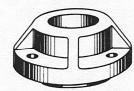




No.56 - Main Bearing Housing - Front



No.57 - Main Bearing Bushing - Front



No.58 - Main Bearing Housing - Rear



No.59 - Main Bearing Bushing - Rear





No.61 - Special Cap Screw for Flywheel Shaft Washer



No.62 - Front Stud for Spring Washer - B.C.



ring Washer - B.C.



- Upper Spring Washer - B.C.







- Ram Block for Barcutter Plunger



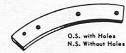
- Clamp for Barcutter Block







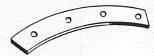
No.71 - Spring for Barcutter Plunger



- Liner for Main Frame - B. C.

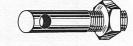


Special Fillister Head Screw for Main Frame Liner





Adjusting Screw for Gib for B.C. Plunger



No.76 - Stud for Barcutter Ram Chain

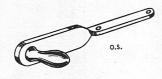








No. 78-A Eye Bolt for Chain Arrange



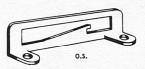
- Trip Lever for Chain Arrangement for Shear & Barcutter



No.80 - Special Screw for Sheave



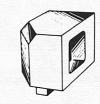
No.81 - Special Shoulder Screw for Swivel
- Chain Arrangement



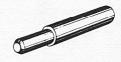
No.82 - Bracket for Lever for Chain



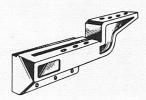
No.83 - Stripper for Mitering



No. 84 - Angle Mitering Block B. C.



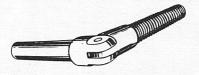
No.85 - Stop Pin for Mitering Angles



No.86 - Support for Angles



No.87 - Stripper Screw for Angles & Tees



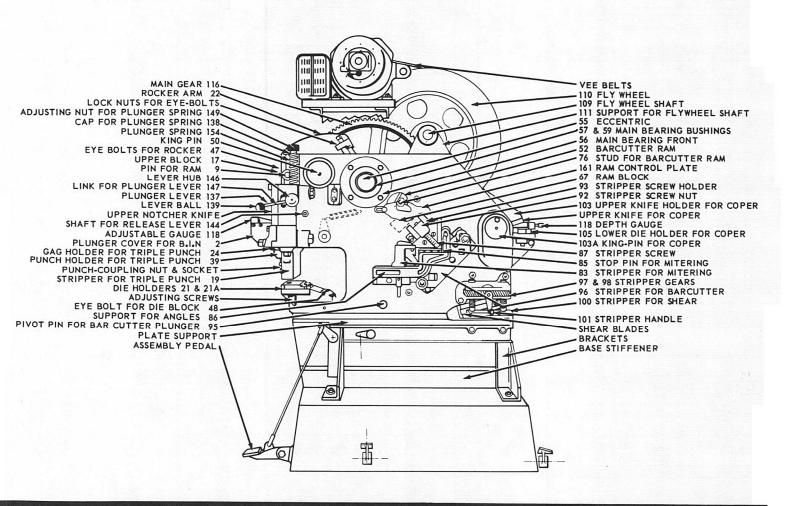
No.88 - Lock Screw for Mitering Stripper



No.89 - Lock Pin for Stripper Screw Holder

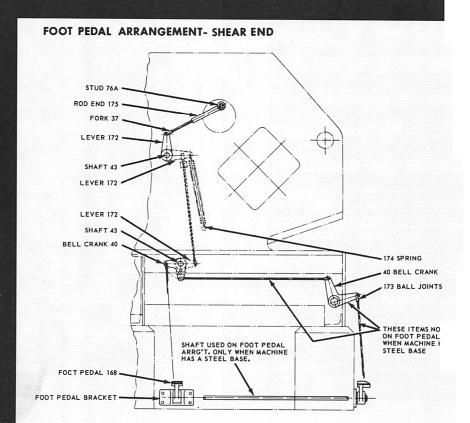
O.S. Old Style

EXTERNAL ASSEMBLY CHART



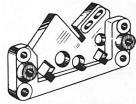
FOOT PEDAL ARRANGEMENT- PUNCH END 174 SPRING RELEASE 148 RELEASE SHAFT 144 INSIDE LEVER 158 SHAFT 43 LEVER 172 BELL CRANK 40 BALL JOINT 173 LEVER 172 SHAFT 42

FOOT PEDAL BRACKET

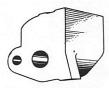




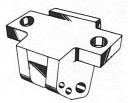
No.90 - Washer for Lock Screw



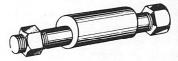
No.91 - Lower Knife Holder for Barcutter



No.92 - Stripper Screw Nut for Angles



No.93 - Stripper Screw Holder for Angles



No.94 - Pin and Cam for Plunger Stop (Barcutter)



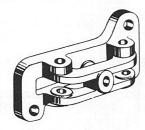
O.S. New Style without Retainer Bar No.95 - Pivot Pin for Barcutter Plunger (With Link)



No.96 - Stripper for Barcutter



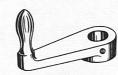
No.97 - Driving Gear for Shear Stripper No.98 - Driven Gears for Shear Stripper



No.99 - Stripper Housing - Shear Stripper



No. 100 - Stripper for Shear



No. 101 - Handle for Shear Stripper



No.102 - Barcutter Plunger with Shear



No.103 - Upper Knife Holder for Coper -Shear End (Specify with or without Bushing)



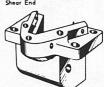
No.103A - King Pin for Upper Knife Holder for Coper



No. 104 - Upper Knife Holder for Notcher -Shear End (Specify with or without Bushing) No. 104A - King Pin for Upper Knife Holder for Notcher - Shear End



No.105 - Lower Die Holder for Coper -Shear End



No. 106 - Lower Die Holder for Notcher Shear End



No. 107 - Intermediate Shaft (Large Machine



No.108 - Intermediate Bearing (Large





No.110 - Flywheel (V-Belt Drive) New Style without Grooves



No.111 - Trunion Support for Flywheel Shaft (Small Machine)

No.112 - Flywheel Bearing (Large Machine)



No. 113 - Bushing for Main Pinion (2 Pc.,



No.114 - Pinion (Main) No.115 - Pinion (Intermediate)



No.116 - Gear (Main) No.117 - Gear (Intermediate)



or Notcher (See Assembly)



No.119 - Low Die Block for #0 U.I.W., #1/2 % #1-1/2 S.I.W., #2-1/2 S.I.W.



No.120 - High Die Block for #0 U.I.W., #1/2 & #1-1/2 S.I.W., #2-1/2 S.I.W.



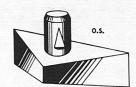
No.121 - Special Die Block for Web for 3'
4" and 5" IBs and Cs



No.122 - Left Hand Knife Clamp for #0 U.I.W



No.123 - Right Hand Knife Clamp for



No.124 - Old Style Notcher Punch



No.125 - Old Style Notcher Die



No. 132 - Pin for Plunger (Replaces No. 49) (Discontinued after 1-1-50)



o.s.

No.133 - Special Štud for Barcutter Plunger Return Link (Old Style Machines Only



0.5.

No.134 - Lock Plug for No. 13



No.135 - Return Link for Barcutter Plunger (Old Style Machines Only)



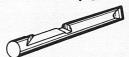
No. 138 - Cap for Plunger Spring



No. 139 - Ball for Plunger Lever



No. 140 - Stud for Pin for Plunger Leve



No.141 - Lock-pin for Pawl



No.142 - Pin for Plunge



No.143 - Pawl



No.144 - Shaft for Block releasing Lever



No.145 - Spring Rod for Plunger