

3000, 4000, 4100, 7500, 7700 Drum & Disc Brake Lathes www.comermo



Parts Identification

www.comermass.com READ these instructions before placing unit in service. KEEP these and other materials delivered with the unit in a binder near the machine for ease of reference by supervisors and operators.

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com	7900 Twin Cutter & Safety Sheild
	Crossfeed Assemlby
	Spindle—750015
	7900 Twin Cutter & Safety Sheild

The following pages include full parts breakdowns with exploded view illustrations to help with factors replacement or contractions. where it is recommended that individual parts not be ordered separately. These parts are available only as assemblies because some parts are staked, pinned, or press fitted, then drilled, machined, or bored. Close tolerances must be maintained in assembly. Every effort is made to supply accurate exploded views, however, due to interim changes in manufacturing operations, some units may not be exactly as illustrated.

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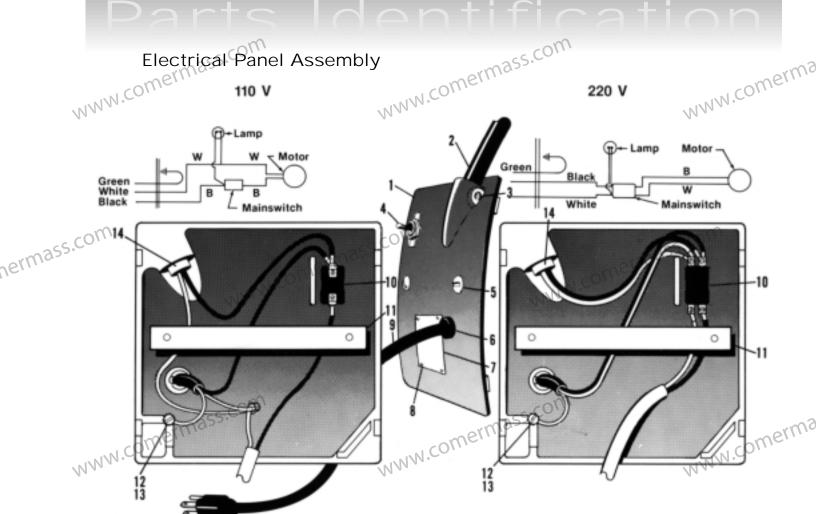
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Item	Qty	Description
1	1	Panel, Electrical
2	1	Lamp
« CO// *		Replacement Lamp Switch & Sprocket
* *********		Replacement Dust Boot for Lamp
nermass.com *	1	Set Screwomen
4	1	Switch, Plate
5	2	Lamp Replacement Lamp Switch & Sprocket Replacement Dust Boot for Lamp Set Screw Switch, Plate Screw, Round Head Machine
6	1	Grip, Cord, 110 V
	1	Grip, Cord, 220 V
7	1	Plate, Electrical Caution
8	4	Screw, Drive
9	1	Cord, Set, 110 V
	1	Cord, Set, 220 V
10	1 ~359	Switch, 110 V
	inernia.	Switch, 220 V
. 11.0	0111	Strap, Clamp
NN 12	1	Cord, Set, 110 V Cord, Set, 220 V Switch, 110 V Switch, 220 V Strap, Clamp Screw, Self-tapping Washer Lock
13	1	Washer, Lock
14	1	Bushing, Insulation

^{*} not shown

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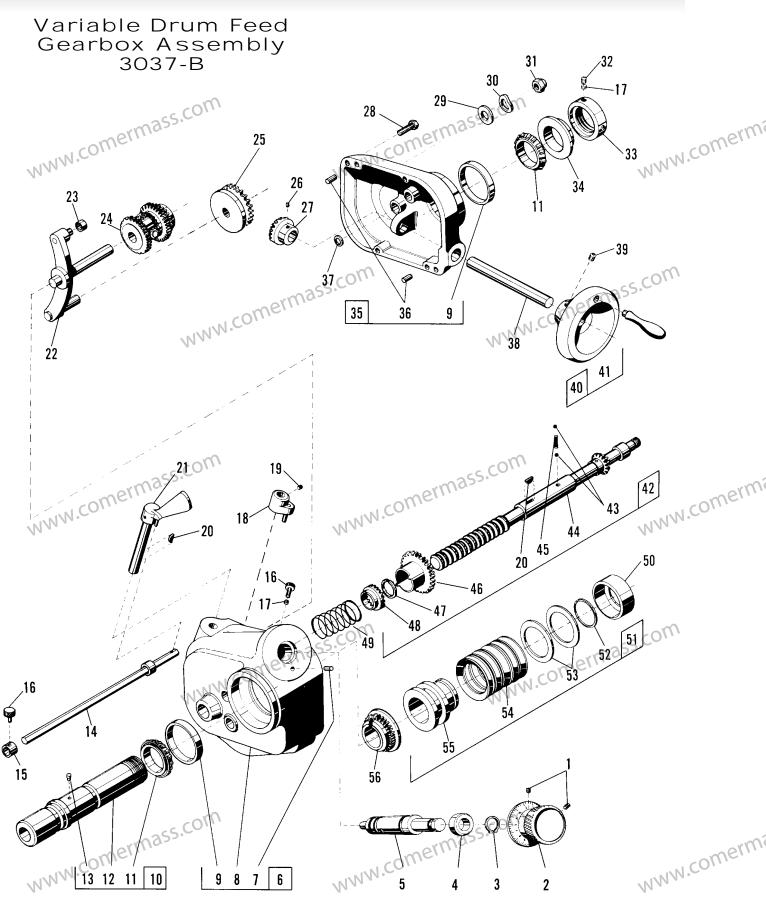
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www.comermass.com com Main Frame Assembly Spindle-3000, 4000, 4100, & 7700 NNN.C WWW.comermass.com www.comermass.com -25 omermass.com www.comernass.com om NNN.C www.comermass.com nww.comerma ٥ www.comermass.com om NNN.C "" comermass.com comermass.com com

4 · AMMCO Drum & Disc Brake Lathes

ltem Oty	Description ermass.com	
1 1		
2 1 3 1	Arbor	
	Ring, Retaining	www.comermass.com
4 1	Ring, Adapter	355.001.
5 2	Boot	nermas
6 1	Seal, Oil DDL Lin	COMIC
6A 1	Seal, Oil, DBL Lip	WW.
7 2	Ring, Oil Seal Adapter	NA .
9 2	Washer, Thrust	
10 1	Spindle Body, 3000/4000	
11 merma	Spindle Body, 4100/7700	
1100/10	Key, Drive	
12 1	Screw, Socket Head Cap	
9 2 10 1 11 onermas 11 onermas 11 13 1	Screw, Cuppoint Set	. (0
14 1	Quiii, Drive, 3000/4000	mass.co
15 1	Washer, Lock, 3000/4000	merilis
16 1	Screw, Hex Hd. Cap, 3000/4000	INN.COV.
17 1	Quill, Drive, 4100/7700	www.comermass.co
18 1	Screw, Flat Hd., 4100/7700	•
10 1 10 1 20 * 21 1	Block, Keyway, 4100/7700	
ass. 20 *	Shim (* Quantity As Required)	
21 1	Nut, Lead Screw, 4000/7000	
l l	Nut, Lead Screw, 4100/7700	
22 1	Rear Flange Assy., 3000/4000	
1	Rear Flange Assy., 4100/7700	
23 6	Screw, Skt. Hd. Cap, 3000/7700	www.comermass.com
4	Screw, Skt. Hd. Cap, 4000,4100	"mass.
24 1	Nut, Take Up	omer".
25 1	Screw, Skt. Hd. Set	W.Co.
26 1	Ring, Boot, 4000/4100	MAA
1	Spring, Boot, 3000/7700	
27 1	Clamp, Front	
1 27 1 28 1 29 hermas 30 2 31 1	Plug, Brass	
29 herri	Knob	
30.0.2	Screw, Skt. Hd. Cap, 4000/4100	
N 31 1	Rod, Lock, 4000	
		-cs.CO
32 1	Clamp, Rear, Lower	www.comermass.co
33 1	Clamp, Rear, Upper	cower.
34 2	Screw, Skt. Hd. Cap	INW.Co
35 1	Screw, Set	Mas
36 1	Drawbar & Nut Assy, 3000/4000	
-cs.CO ^N 1	Drawbar & Nut Assy, 4100/7700	
37 1	Boot & Spring, 3000/4000	
35 1 1 37 1	Boot & Spring, 3000,4000 Boot & Spring, 4100, 7700	
38 1	Feed Mechanism, 3000/4000	
1	Feed Mechanism, 4100/7700	
•	. 304 1/100/14/100/77/00	- 1
		ce.co//,
		armass.
		cower.
		INN.CO.
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	Item	Qty		Description	Item	Qty		Description	
	1	2		Screw, Allen Set	31	1		Nut, Stop	
	2	1		Feed Dial Assembly	32	1		Screw, Allen Set	
	3	1		Ring, Retaining	33	1		Nut, Bearing Lock	
com	4	1		Bearing, Thrust	34	1		Washer, Spherical	
Co	5	1		Screw, Feed Adjusting	35	1		Gear Case Cover Assembly	
	6	1		Gear Case Assembly	36	2	mer	Pin, Dowel	
	7	1	ant.C	Pin, Groove	37	.1.1	comer	Washer, Bone Fiber	- A
	8	1/N	MAA.	Gear Case	381	$M_{1}^{N_{N}}$	•	Shaft	NNN
	9	1		Cup, Bearing	39	1		Screw, Set	
	10	1		Spindle Extension Assembly	*40	1		Handwheel Assembly	
	11	1		Bearing, Taper Roller	41	1		Handle, Crank	
	12	1		Spindle Extension	42	1		Lead Screw and Clutch Assembly	
	13	1		Pin, Groove				3000/4000	
	14	1	-00	Shut-Off Assy, 3000/4000		1		Lead Screw and Clutch Assembly	-00
		-1C	2W	Clause Off A 4100/7500/7700	ے د د	D_{III}		Lead Screw and Clutch Assembly 4100/7500/7700 Ball, Steel	O(I)
MMM.COM	-v152	123.		Collar, Stop Screw, Knurled Plug, Brass Clutch Shifter Assembly	43	2		Ball, Steel	
-011	16 1e	2		Screw, Knurled	*44	1		Lead Screw/Miter Gear Assembly	
WIN.Co.	17	2		Plug, Brass				3000/4000NN	
Ma.	*18	1		Clutch Shifter Assembly		1		Lead Screw/Miter Gear Assembly	
	19	1		Screw, Allen Set				4100/7500/7700	
	20	2		Key, Hy-Pro	45	1		Spring, Clutch	
	*21	1		Clutch Handle And Shaft Assy.	46	1		Gear, Sliding Clutch	
	*22	1		Feed Control Lever and	47	1		Ring, Retaining	
				Differential Assembly	48	1		Clutch Jaw	
	23	1		Roller	49	1		Spring, Coil	
mo	24	1		Pinion Bushing Assy.	50	1		Cup, Spring Loading	
com	*25	1		Driven Friction Disc and Bearing	51	1		Friction Disc Assy.	
				Assembly	52	1	-01	Ring, Retaining	
	26	1		Screw, Dog Point Set	53	2	.comer	Washer	
	27	1, 1	MM.CC	Gear, Miter	54	N10 ^N		Spring, Belville	NNN
	28	4	-	Screw, Socket Hd. Cap	55	1		Disc, Sliding Friction	4 .
	29	4		Washer	56	1		Clutch, Fixed Friction	
	30	1		Washer, Wave					
				•					

^{*}Sold as assembly only.

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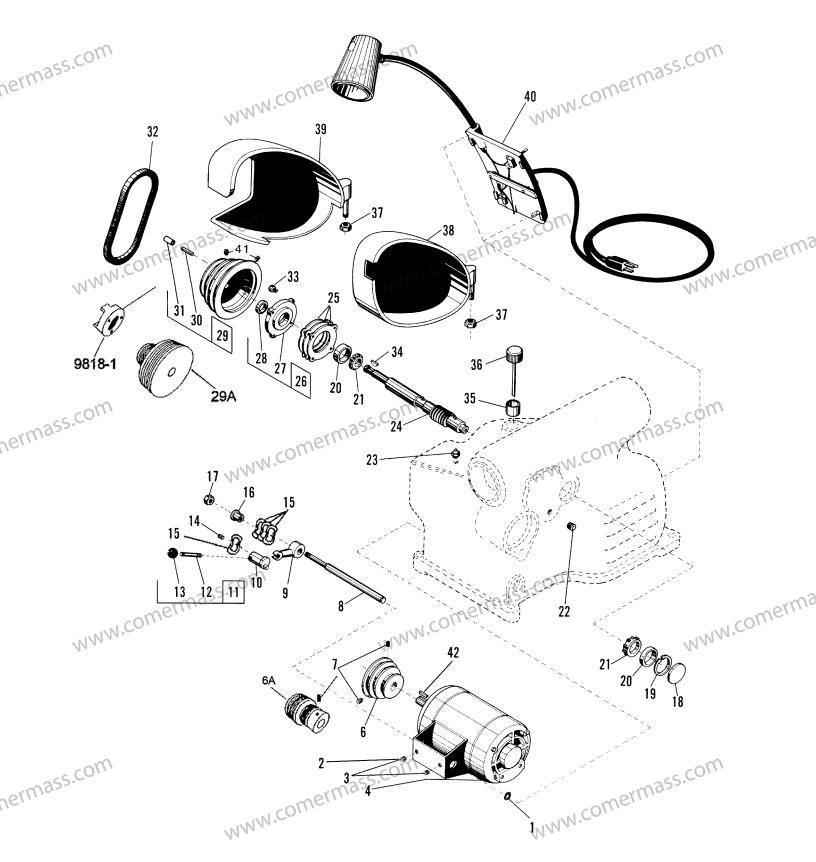
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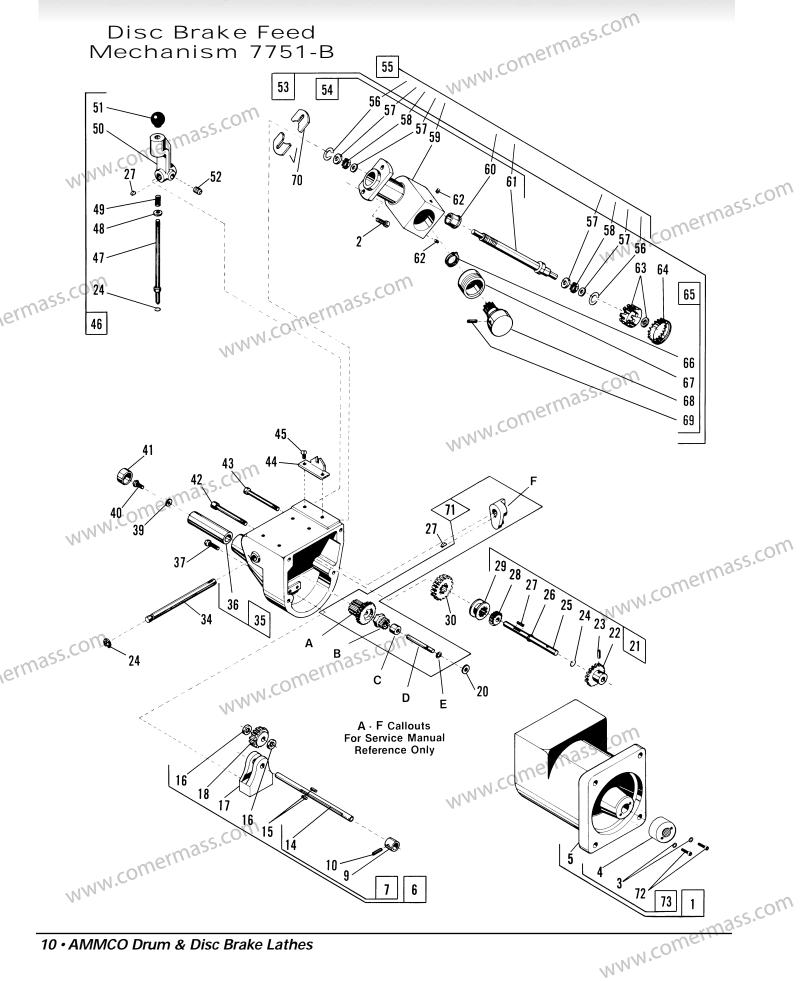
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Motor Mount and Drive Shaft



	Item	Qty	Description		
	1	1	O-Ring		
	2	2	Screw, Hex Hd. Cap		
	3	2	Washer Lock		
uww.comer	4	1-000	Motor/Bracket Assy. Pulley, Drive, 3000/4000** Pulley, Drive, 4100/7700** Pulley, Drive, Poly-V-Belt** Set Screw, 3000/4000/7500**	s.com www.comermass.com	Ω
	6.9	5,000	Pulley Drive 3000/4000**	S.CO.,	
- 61	Wa	1	Pulley Drive 4100/7700**	ermass	
· come	6Δ	1	Pulley Drive Poly-V-Rel+**	come.	
INN.C	7	1	Set Screw, 3000/4000/7500**	NWW.C	
1 -	,	2	Set Screw, 4100/7700**		
	8	1	Shaft, Motor Mount		
	9	1	Lever, Belt Tension		
	10	1	Pin, Eccentric Belt Release		
	11				
		1	Lever Belt Release Assy.		
-om	12	1	Handle, Belt Release	-om	
3011	13	1	Knob, Ball	255.00	
	14	Ţ	Screw, Socket Hd.	aermas	
	15		Screw, Socket Hd. Washer, Wave (*Qty As Required) Bushing, Motor Mount Shaft Nut, Hex	Course	. 1
	16	1 _{NN} N.	Bushing, Motor Mount Shaft	MMM.CO	11/1
	17			www.comermass.com	
	18	1	Plug, Welch		
	19	1	Ring, Retaining I.D.		
	20	2	Cup, Bearing		
	21	2	Bearing, Cone		
	22	1	Plug, Allen Pipe		
	23	1	Fitting, Grease		
_{vww.come} r	24	1 ~~	Shaft, Worm W/Woodruff Keyway	m	Ω
		51CO	Shaft, Worm W/Woodruff Keyway Shaft, Worm W/Square Keyway Shim, 0.005" (*Qty As Required) Shim, 0.007" (*Qty As Required)	www.comermass.com	
- 01	(25)	*	Shim, 0.005" (*Qty As Required)	ormass	
come		*	Shim, 0.007" (*Qty As Required)	come	
UNIN.C.		*	Shim, 0.020" (*Qty As Required)	N.V.	
	26	1	Cap And Seal Assy.		
	27	1	Cap, Bearing Seal		
	28	1	Seal, Oil		
	29	1	Pulley W/Pin And Tube		
	29A	1	Pulley W/Pin And Tube, Poly-V-Belt		
	30	1	Pin, Groove, 4000/4100		
com	31	1	Tube, Rubber, 4000/4100	www.comermass.com	
	32	1	V-Belt, 3000,4000	255.00	
	-	1	V/ Pal+ //100/7700	mermin	
		1	Poly V-Belt,	COMI	, , 1
	33	1 WWW.CC	Screw, Hex Hd. Cap	MMN.CO.	11/4
	34	1	Key, Woodruff	14	
	J -1	1	Key, Vvoodran Key, Square		
	35	1	Sleeve, Oil Filler	** The parts listed are for models manufactured	
	36	1	Dipstick	prior to late 1996. Models manufactured from	
	37	1	Nut, Self-Locking	late 1996 use a 2-groove pulley and poly V-belt.	
	38	1	<u> </u>	Check your unit to see if it uses the original 3-	
			Guard, Belt, 3000/7700	groove pulley and standard V-belt (the part num-	
	39	1-000	Guard, Belt, 4000/4100/7500	hars provided) or the newer 2 groove nulley	Ω
	40	55000	Panel Assy., Electrical	and poly V-belt (part numbers listed for 7500).	-
-e1	140	2	Screw, Set	Order the pulley, set screw, and V-belt that	
" cours	42	1	Key, Square	matches your unit	
INN.	*	1	Kit, Poly-V-Belt	matches your unit.	
uww.comer			Screw, Set Key, Square Kit, Poly-V-Belt	Ma	

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		Description Gear Case Assembly			Description Shifter Handle Assy.
Item	Oty me	Description	Item	Qty (Description Shifter Handle Assy. Pin, Shifter Handle
110111 1112 1123	1.£0111	Gear Case Assembly	46 47	1	Shifter Handle Assy.
$N_{N_{2}}$	4	Screw, Socket Head	47	1	Pin, Shifter Handle
3	2	Washer, Lock	48	1	Washer
5	1	Case, Gear	49	1	Spring
4	1		50	1	Body, Shifter Handle
*6	1	Drive Rod and Coupling Assy.	51	1	Knob, Ball
*7	1	Universal Coupling Assy.	52	1	Screw, Set
*9	1	Coupler Pin, Roll Rod, Drive Pin, Dowel Washer, Thrust	5 3	1	Driven Assy., Right Angle Drive
*10	1	Pin, Roll	54	1	Worm Drive Assy. 35.00
14	1	Rod, Drive	*55	1	Worm Shaft Repair Kit
15	2	Pin, Dowel	*56	1	C Clip On C
16	2	Washer, Thrust	*57	2	Washer, Travel
17	1	Trap	58	1	Bearing, Needle Thrust
18	1	Gear, Drive	59	1	Housing, Drive
20	1	Washer, Bone Shim	60	1	Bushing, Oilite
21	1	Shifter Shaft Assy.	*61	1	Worm Drive Assy.
22	1	Gear, Helix	62	2	Screw, Cone Point Set
23	1	Pin, Roll	63	1	Shear Gear And Ring Assy.
24	2	Ring, Retaining	64	1	Plug, Dot
25	1	Shaft, Clutch	65	1	Coupling Assy.
26	1	Ring, Retaining	66	1	Ring, Retaining Spacer And Bushing Assy.
27	5 mel	Key, Woodruff	67	u&KI	Spacer And Bushing Assy.
28	1. (O//,	Gear, Fine Feed	(68)	1	Coupling And Gear Assy.
N 29	1 5 0 1 1	Clutch	67 68 69	1	Spacer And Bushing Assy. Coupling And Gear Assy. Pin, Roll Shim, 0.005"
30	1	deal, Coalse Feed	70	2	311111, 0.000
34	1	Shaft, Shift		2	Shim, 0.010"
35	1	Gear Case Cover and Tube Assy.		2	Shim, 0.020"
36	1	Tube		2	Shim, 0.030"
37	2	Screw, Socket Hd. Cap	71	1	Shifter & Intermediate Gear Assy.
39	1	Washer	72	2	Screw, Cap
40	1	Screw, Socket Hd. Cap Cap, Tube	73	1	Lead Screw Nut Kit
41	1	Cap, Tube			armass
42	2	Screw, Hex Hd. Machine		as as	sembly only.
43	2	Screw, Hex Hd. Machine			MINN
44	1	Plate, Index			Shim, 0.020" Shim, 0.030" Shifter & Intermediate Gear Assy. Screw, Cap Lead Screw Nut Kit ssembly only.
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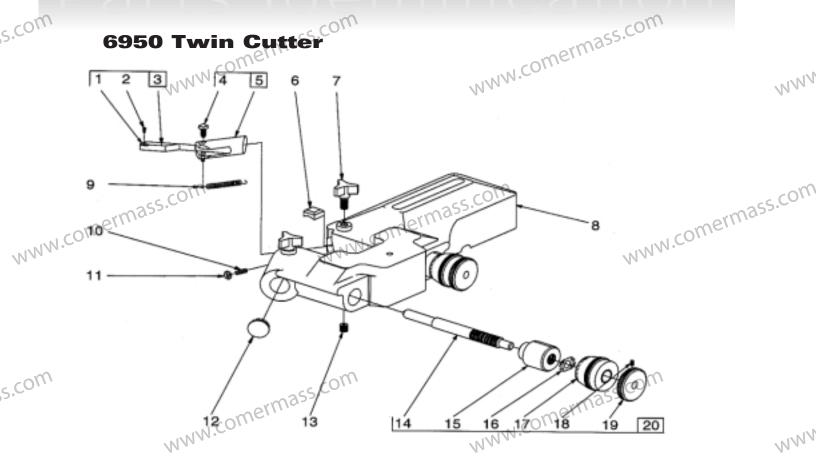
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Screw, Round Hd. Machine

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	ltem	Qty	Description	lt
	*1	2	Carbide Insert, Positive Rake	
	* *	2	Carbide Insert, Negative Rake	
	2	2	Screw, #4-40 X .25 Oval Head	
	*3	1	Holder, Tool Bit, RH, Positive Rake	
	*	1	Holder, Tool Bit, LH, Positive Rake	
	* *	nerm	Holder, Tool Bit, RH, Neg. Rake	
	* *	wei	Holder, Tool Bit, LH, Neg. Rake	nc
NN	N - 4	2	Screw, Square Head Set	0 .
Mar	5	1	Tool Holder, Left Hand	
		1	Tool Holder, Right Hand	N
	6	2	Gib, Brass, Tool Holder	C
	7	1	Screw, Lock	
	8	1	Twin Cutter Housing	F
	9	1	Spring	
	10	2	Screw, Locating	
-10	11	2	Nut, Hex	
s.com	12	2	Plug, Dot	
, , ,			Nut, Hex Plug, Dot WWW.comermass.com	

Item	Qty	Description
13	2	Screw, 3/16-16 Set
14	2	Rod, Dial
15	2	Plug, Dial
16	2 2 2 2 2 2	Washer, Spring
17	2 cc CO\\\\	Dial, Micrometer
18	U5922	Screw, Set
(19)	2	Knob, Dial Rod
20	1	Washer, Spring Dial, Micrometer Screw, Set Knob, Dial Rod Dial Assembly

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Note: These parts are not included with the 6950 Twin Cutter tool.

For a complete assembly, order one of the following:

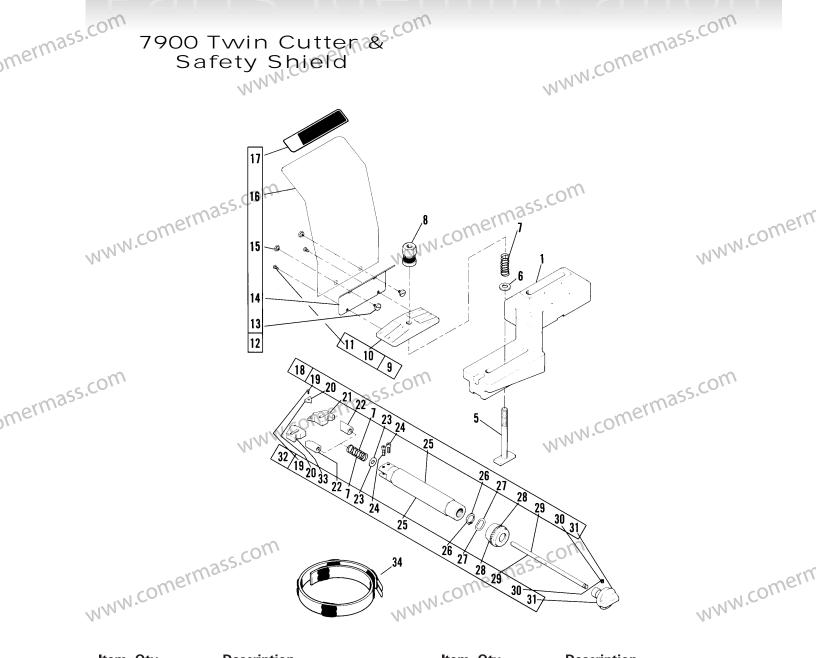
*28800 twin cutter with positive rake tool holders and bits.

**29800 twin cutter with negative rake tool holders and bits. www.comerm

ermass.com

7900 Twin Cutter & Com Safety Shield

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ltem	Qty	Description	ltem	Qty	Description
1	1	Support, Tool Bar	20	1	Bit, Carbide, Package Of 2
5	1	Bolt, T	21	1	Holder
6	1	Washer, Flat	22	1	Sleeve
7	3	Spring, Compression	23	1	Washer, Flat
20 CO18,	1	Nut/Washer, Hex, Self-Align, Assy	24	1	Screw, Shoulder
nermass.com	1	Clamp Assy.	25	1	Bar, Boring
ner 10	1	Clamp	26	1	Ring, Retaining, External
11	2	Screw, Pan Hd., Machine	27	1	Washer, Wave
12	1	Shield Assy.	28	1	Dial, Micrometer
13	2	Screw, Retainer	29	1	Rod, Dial
14	1	Bracket	30	1	Screw, Set, Cup Point
15	2	Insert, Nut	31	1	Dial, Depth
16	1	Shield	32	1	Bar, Tool, LH, Assy.
17	1	Decal, Safety	33	1	Holder
18	1	Bar, Tool, RH, Assy.	34	1	Band, Silencer, HD, Assy.
19	1	Screw, Oval Hd., Machine			255.CO
		erma		orm	10-
MNN	COLLI	NN _N	COL	A	MMCO Drum & Disc Brake Lathes 13
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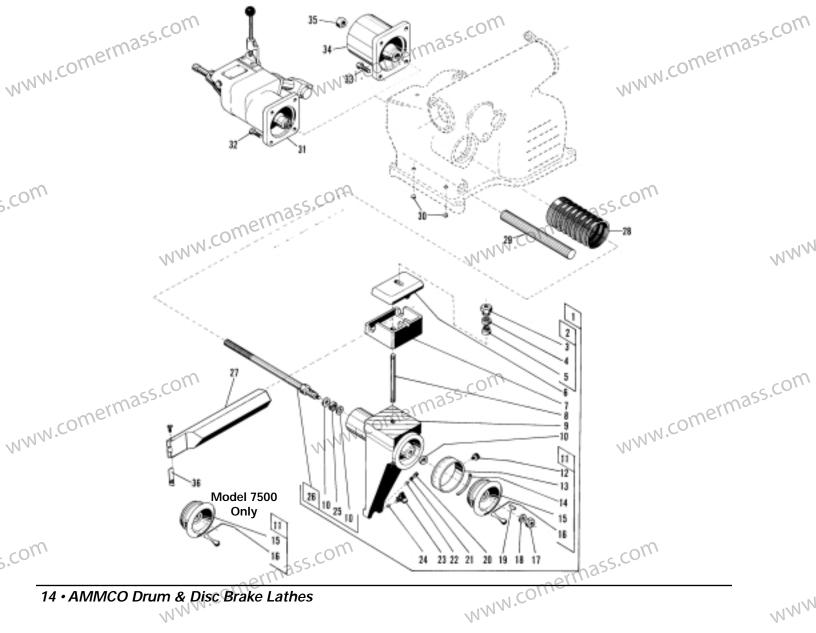
Cross Feed Assembly

Models 4000, 4100 & 7500 Only

1.	ltem	Qty	Description	ltem	Qty	Description
	1	1	Cross Feed Assembly	14	1	Spring, Dial
	2	1	Nut/Washer, Hex, Self-Align, Assy.	15	1	Handwheel
	3	1	Nut, Locking	16	1	Crank, Handwheel
	4	1	Retainer	20	1	Screw, Set
-100	5	1	Washer	21	1	Spring
. CO/,	6	1	Clamp, Boring Bar, Upper (Except	22	1	Plug
			7500)	25	1	Bearing, Needle Thrust
	7	1	Clamp, Boring Bar, Lower (Except	26	1	Lead Screw Assembly
			7500)	29	1	Bar, Guide
	8	1	Stud, Boring Bar	31	1	Gearbox Assy., 4000/4100/7500
	9	1	Crossfeed	32	4	Screw, Cap 4000/4100/7500
	10	3	Race	33	4	Screw, Cap 3000/7700
	11	1	Crossfeed Handwheel Assembly	34	1	Cap, Lead Screw, 3000/7700
	12	1	Screw, Set	35	1	Nut, 3000/7700
	13	1	Dial			

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O www.comermass.co NW.comern Spindle—7500

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Item Qty	Description	www.comermass.com
1 1	Nut, Arbor	armass.co.
2 1 4 1	Arbor Seal, Oil	Comer
5 1	Spindle And Gear Assy.	WWW.
*5A 1 *5B 1	Spindle Gear Roll Pin	
*5A 1 *5B 1 6 1 7 2	Spacer Spacer	
7 2 8 1	Spindle Gear Roll Pin Spacer Bearing Shim Flange, Rear	
9 1	Flange, Rear	12
10 6 11 1	Screw Washer, Lock	11 -000
12 1	Nut, Lock	-vend55.CO.
13 1	Drawbar	11 Jarradss.com
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		"mass.co."
		"Cowelli.
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