

7E & 7Ex Consumables & Repair Parts List

KEYPAD

NEW PN	Old PN	Description
20-057-235	NOP-29200	Keypad Assembly (Both 7e / 7ex)
20-054-375	NOP-94559	Keypad Cable (7E/7EA/7EX)

DISPLAY

NEW PN	Old PN	Description
02-061-819	NOP-29424	Display Assembly 7EX
20-054-212	NOP-2906	Display Interface Board (Inside lid of machine) - 7E all lines
20-059-642	NOP-94426	Display Cable 7EX
05-064-953	NOP-29290	Hinge Block Right (Display 7EX)
05-064-954	NOP-29292	Hinge Block Left (Display 7EX)
35-053-267	NOP-22100121	Longer Screw for Hing Block 7EX - 8-32 x 1/2 Button head cap Screw

MOTION CONTROL

NEW PN	Old PN	Description
20-057-715	NOP-94428	NOP Cable Assembly Noise Supresion 7EX
02-054-126	NOP-90543	Size Lead Screw (Full Assembly)
60-053-041	NOP-28261	Size Lead Screw Nut Assembly (No bearings/blocks)
15-050-491	NOP-70186	Bearing (Front Size Lead-srew)
15-050-494	NOP-70311	Bearing (Rear Size Lead-Screw)
05-057-953	NOP-28257	Rail - Size Short
05-057-952	NOP-28255	Rail - Size Long
15-050-480	NOP-70153	Bearing Insert Replacements (need 4)
20-057-583	NOP-55323	Servo Motor
20-053-094	NOP-65520	Coupler - Servo
05-057-991	NOP-29103	Home Switch Vane
02-060-390	NOP-48338	Size Home Switch Kit (Includes below *)
02-060-397	NOP-91009	Home Switch (only)*
05-058-001	NOP-29142	Home Switch Bracket*
05-062-503	NOP-29434	Home Switch Plate*
35-051-714	NOP-22100153	Screws (Quantity 4) 4-40 x 1/4 SHCS*
60-053-079	NOP-73126	Carriage Ground Spring

Bevel		
NEW PN	Old PN	Description
02-054-125	NOP-90548	Bevel LeadScrew w/Left Support Block
60-053-040	NOP-28211	Bevel LeadScrew nut assembly (No bearings/blocks)
05-057-947	NOP-28216	Block Bearing 3/8-8 LeadScrew .69 Thk; Right Side Support Block
15-050-491	NOP-70186	Bearing (Left-Bevel Lead-Srew)
15-050-494	NOP-70311	Bearing (Right-Bevel Lead-Screw)
05-057-945	NOP-28205	Rails Bevel (need 2)
15-050-480	NOP-70153	Bearing Insert Replacements (need 4)
20-057-583	NOP-55323	Servo Motor
20-053-094	NOP-65520	Coupler - Servo

05-057-991	NOP-29103	Home Switch Vane
02-060-387	NOP-48337	Bevel Home Switch Kit (Includes below *)
02-060-397	NOP-91009	Home Switch (Only) *
05-058-001	NOP-29142	Home Switch Bracket*
05-062-503	NOP-29434	Home Switch Plate*
35-051-714	NOP-22100153	Screws (Quantity 4) 4-40 x 1/4 SHCS*

Axis		
NEW PN	Old PN	Description
20-057-583	NOP-55323	Servo Motor
20-053-094	NOP-65520	Coupler - Servo
02-061-343	NOP-28332	Axis Gearbox - Encoder Style (Bearing) v2
90-051-100	NOP-65168	Shim .002
90-051-101	NOP-65169	Shim .001
90-051-102	NOP-65171	Shim .003

WIRING/BOARDS

NEW PN	Old PN	Description
20-054-208	NOP-94535	50 Pin Cable
20-053-099	NOP-2901	Size Interface Card
20-054-209	NOP-94537	Wire - Size Interface to Chuck Inter face
20-053-100	NOP-2902	Chuck/Axis Interface Card - Electric Chuck
20-054-400	NOP-94609	Service Jumper
20-059-085	NOP-94665	Main Wiring Harness (7EX Only)
20-057-715	NOP-94428	Noise Supression Cable - 7EX

POWER SUPPLY

NEW PN	Old PN	Description
02-066-229	NOP-90476	Power Supply Plate Assembly (New style - black supplies 7EX only)* Contains parts below*
02-066-228	NOP-90474	5V Supply (New style)*
02-066-227	NOP-90473	24V Power Supply (new style)*
20-060-706	NOP-94302	Wiring Harness Ouput From Supply (DC output)
20-060-705	NOP-94301	Wiring harness input for Supply (AC input)*
20-054-279	NOP-77205	Main Power Switch 15Amp
20-054-356	NOP-94520	Wire (AC input to Switch) white
20-054-357	NOP-94521	Wire (AC input to Switch) black
20-054-358	NOP-94522	Wire (Switch to line filter) white
20-054-359	NOP-94523	Wire (Switch to line filter) black
90-051-434	NOP-77099	Power Cord 7E
90-051-600	NOP-87445	Non-Conductive Screw Driver
20-054-288	NOP-77361	Power Receptical AC (Rear of machine)

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PROBING					
NEW PN	Old PN	Description			
02-061-148	NOP-29430	Probe Assembly (7EX Only)	05-061-581	NOP-73127	Chuck Ground Spring
02-054-130	NOP-90922	C-Body Assembly	05-058-167	NOP-87262	Force Gauge
92-007-957	NOP-27092	Probe Tips	05-058-194	NOP-90369	Force Gauge Assembly Kit (With instructions)
90-051-115	NOP-87246	Step Calibration Disk	05-058-170	NOP-87433	Chuck Alightment Tool
			92-007-952	NOP-90089	Right side Clamp - vario 22mm (Short white)
			02-054-872	NOP-90043	Right side Clamp- vario 19mm (Short white)
			92-007-953	NOP-90083	Right side Clamp - vario 17mm (Short white)
			02-055-340	NOP-90077	Right side Clamp 22mm (Long black)
			02-071-444	NOP-90044	Right side Clamp 19mm (Long black)
			02-055-341	NOP-90076	Right side Clamp 17mm (Long black)
			92-007-962	NOP-90177	Taper Plug (6 pk) 22mm
			92-007-963	NOP-90178	Taper Plug (6 pk) 17mm
			92-008-211	NOP-73168	Taper Plug (individual) 17mm
			60-053-081	NOP-73162	Taper Plug (individual) 19mm
			90-051-109	NOP-73166	Taper Plug (individual) 22mm
			90-051-110	NOP-73182	Right side Clamp O-Rings (need 2)
VACUUM			ELECTRONICS ENCLOSURE		
NEW PN	Old PN	Description	NEW PN	Old PN	Description
02-076-058		New Dayton Vac - c19 plug config	02-071-557	NOP-29064	Card Cage - 7EX New
02-073-806	NOP-29043	Replacement Motor Kit (Silver can vacuum = for ShopVac UM2S250) 115V	20-054-303	NOP-77920	I/O Board (interior Left)
92-007-959	NOP-90140	Vacuum Bag Set (25 count)	02-066-455	NOP-29496	Interface Board - Front of cage (configured 7EX Only)
92-015-145	NOP-90145	Vacuum Bag Set (10 count)	90-051-469	NOP-77341	Fuse - Drill rotation/ 1.25 A
90-050-864	NOP-87150	Foam Filter Sleeve	02-071-564	NOP-95519	System Update & Backup USB Key/ Thumb Drive (USB cage only)
90-051-573	NOP-87175	Vacuum Crevice Tool	05-058-241	NOP-90978	Chemisty Kit, Upgrade Universal
90-051-567	NOP-87155	Vacuum Hose 1.5" x 12'			
90-051-571	NOP-87164	Vacuum Hose 2.5" x 6'	COOLANT & CHIP CHUTE		
02-054-667	NOP-90500	Static Discharge Hose Assembly (Machine to vacuum)	NEW PN	Old PN	Description
90-054-378	NOP-87169	Inlet Deflector, Vacuum	02-054-299	NOP-28471	Coolant Bottle Assembly Internal
20-054-345	NOP-94504	Power Cable Adapter (Standard Vac plug to C-19)	02-054-135	NOP-90938	Coolant Bottle Assembly External
02-054-134	NOP-90900	Relay (Main) - Vacuum/Cutter Motor	02-054-300	NOP-90946	Water Solenoid - External Bottle
02-054-143	NOP-90913	Vacuum Switch Assembly - 3 position	20-054-399	NOP-94604	Cable Assembly - External Bottle
20-054-290	NOP-77371	Vacuum Receptical (New Style - C-19 vacuum)	02-054-154	NOP-90694	Filter Assembly - Coolant Bottle
CUTTER MOTOR			90-050-982	NOP-75158	Filter Element
NEW PN	Old PN	Description	20-053-101	NOP-94598	Coolant Interface Board Assembly - Wired
02-071-073	NOP-80733	Cutter Motor - No break	20-053-362	NOP-77339	Fuse - Coolant - 2.5 amp
20-070-145	NOP-90604	Motor Controller Dynamic Breaking (7EX Only)	92-007-958	NOP-29104	Sponge - 7E/7EX (pack of 10)
20-053-361	NOP-77320	Fuse (Universal Controller) - 15 Amp	92-013-982	NOP-75169	Tri - Cool (gallon)
02-054-140	NOP-77336	Fuse (Controller 7EX) - 6.3 Amp (Slow blow)	60-053-083	NOP-74241	Blue Water Line
02-059-535	NOP-77344	Wall - Switch - Motor / lid (7E Only) * New UL part number	02-054-138	NOP-90901	Chip Chute Assembly
02-054-134	NOP-90900	Relay (Main) - Vacuum/Cutter Motor	05-056-675	NOP-29106	Chip Chute Top (Clear part only)
CHUCK MOTOR / CLAMPING			05-058-208	NOP-90531	Chip Chute Top Assembly (With manifold)
NEW PN	Old PN	Description	60-053-076	NOP-73061	Spring (Chip chute)
02-070-143	NOP-90537	Chuck Motor Full Assembly (7E/7EX product lines)	05-057-966	NOP-28456	Hinge - Chip Chute Cover
02-054-131	NOP-90539	Clamp Arm Replacement Kit (contains parts below*)	02-054-137	NOP-90373	Solenoid Assembly (Chip chute cover lift)
05-057-961	NOP-28374	Clamp Arm *			
35-051-478	NOP-22100481	Shoulder Screw*			
02-070-144	NOP-90538	Lead-Screw Assembly*			
60-053-072	NOP-65163	Chuck Arm Bumper O-Ring (rubber washers)			

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CUTTER BODY		
NEW PN	Old PN	Description
02-054-033	NOP-90833	High Luster Cutter Body Assembly
02-054-036	NOP-90812	Multi Flute Cutter Assembly
05-057-841	NOP-93148	Cutter Clamp - Long
05-058-245	NOP-93131	Cutter Clamp - Short/Multi-Flute
35-051-505	NOP-65232	Torx Screws - Cutter Clamp
90-051-586	NOP-87256	Torx Driver
92-007-960	NOP-93930	Groove Wheel - Large
92-008-080	NOP-93410	Groove Wheel - Small ** not often used ** limits small "b" groove that machine can cut to 27mm
92-007-884	NOP-93072	Carbide Cutter (10 pk)
92-008-052	NOP-93074	Coated Carbide Cutter

DRILL LIMIT SWITCHES		
(7Ex needs only switch; 7E needs all with switch*)		
NEW PN	Old PN	Description
20-057-670	NOP-90013	Upper Limit Switch - Drill
20-057-671	NOP-90014	Lower Limit Switch
05-063-434	NOP-29044	Bracket, Switch Drill 7EX (need 1 if 7E)*
35-053-090	NOP-22100542	Screw - 2-56 x 5/16 Button Head Cap Screw (7E will need 4)*
35-051-663	NOP-22100018	Screw - 6-32 x 1/4 Socket Set Screw, Cup Point (7E will need 2)*
35-053-081	NOP-22100089	Screw - 4-40 x 3/8 Button Head Cap Screw (7E will need 2)*
35-051-717	NOP-22100156	Screw - 4-40 x 3/8 Socket Head Cap Screw (7E will need 2)*
20-054-398	NOP-94602	No Drill Jumper
20-054-380	NOP-94568	Drill Cable Harness/Solenoid - to Card Cage

DRILL		
NEW PN	Old PN	Description
02-072-181	NOP-29468	Drill Upgrade Kit (7EX) - If no drill in machine contains drill & accessories
02-061-093	NOP-29195	Combo Drill Assembly (7EX) - Full Drill
02-060-463	NOP-91004	Drill Spindle - Combo Drill (7EX)
92-007-907	NOP-29209	Drill Bit - Left Hand- Long life - 7ex / combo drill
92-008-220	NOP-29218	Drill Bit - Right Hand- Long life - Standard
92-007-879	NOP-93936	Groove Blade - Drill
02-054-156	NOP-90915	Motor - Spindle
02-054-157	NOP-90916	Motor - Pivot
02-054-155	NOP-29207	Belt - Drill
02-070-151	NOP-90692	Pin Gauge - 1.4 mm
90-051-469	NOP-77341	Fuse - DrillRotation/ 1.25 A
35-051-742	NOP-22100207	Screw 8/32 by 1/2 shcs ss (Drill Screws to base of machine)

DOOR / CASE TOP		
NEW PN	Old PN	Description
7Ex Door Components		
02-061-615	NOP-90079	Door Assembly 7EX ONLY (contains below*)
05-058-004	NOP-29154	Door bushings (clear Door)*
20-057-513	NOP-77820	Magnetic Safety Switch "Pilz" (7EX)
20-057-514	NOP-77825	Cable Magnetic Saftety Switch (7EX)
02-061-836	NOP-29483	Door Roller Assembly, pinned "shaft & o-rings" (7EX)
02-061-831	NOP-29482	Door Motor Assembly, pinned (7EX)
05-063-104	NOP-29270	Bracket Mount, Switch - Lower/Door Closed (7EX)
05-076-227	NOP-29271	Bracket Mount, Switch - Upper/Door Open (7EX)
35-051-721	NOP-22100161	Screw (Bracket mount to machine) 4-40 x 5/8 SHCS
02-054-148	NOP-90910	Door Switch (Single)
60-053-020	NOP-73184	Door O-Rings
35-051-681	NOP-22100077	Screw -(Door Switch to bracket) 2/56 by 3/8 bhcs
20-058-443	NOP-94666	Door Cable Harness (7EX)

OTHER CASE TOP COMPONENTS		
NEW PN	Old PN	Description
20-058-389	NOP-90121	Fan Assembly "24V" (7EX Only)
60-053-018	NOP-3068	Fan Filter w/ Cover
90-051-158	NOP-3069	Fan Filter w/o cover
60-054-007	NOP-29296	Lid Support Lift Cylinder (7ex)
60-053-106	NOP-82227	Ball socket - Lift Cylinder (need 2)

SAFETY RELAYS & SWITCHES (7Ex)		
NEW PN	Old PN	Description
20-056-716	NOP-77221	E-Stop (7EX)
20-059-978	NOP-94692	E-Stop Wiring Harness (7EX)
20-057-513	NOP-77820	Magnetic Safety Switch "Pilz" (7EX)
20-057-514	NOP-77825	Cable Magnetic Saftety Switch (7EX)
20-058-825	NOP-77397	Pilz Relay - (Same for both in 7EX) (Advise customer to switch the red dial to 1o-clock position)
20-059-977	NOP-94690	AC Pilz Relay Cable
20-060-238	NOP-94691	Cable Pilz - Interface to card cage

7E & 7Ex Consumables & Repair Parts List

ACCESSORIES & CONSUMABLES		
NEW PN	Old PN	Description
92-007-956	NOP-87605	Pattern Blanks (ST-109C)
60-053-023	NOP-88501	6 base x 3mm Test Poly Lenses (Use this until in stock 92010571)
92-009-360	NOP-88516	8 base x 3mm Test Blanks
90-056-106	NOP-88514	4mm Plano Essilor Lens (flat lens)
90-051-598	NOP-87410	Multi-Meter/ Volt Meter
90-051-114	NOP-87200	Brass brush (like tooth brush)
02-070-148	NOP-65411	Cleaning Wheel
60-053-119	NOP-87400	Dial Caliper
60-053-313	NOP-87418	Digital Caliper
90-051-601	NOP-87450	3/16 - Long Handle Ball Driver
90-051-602	NOP-87452	3/16 - Tee Handle Wrench (Allen)
90-051-603	NOP-87462	3/32 - Tee Handle Wrench (Allen)
90-051-575	NOP-87179	Hex Key Set - 1/16 to 1/4 -L Shape Allen
90-051-116	NOP-87501	Pin Extractor Tool
90-051-583	NOP-87227	Drill Wrench
02-054-030	NOP-50060	Barcode Scanner (Serial)
90-054-950	NOP-87607-11	User Manual 7EX
02-055-257	NOP-88026	7e cabinet w/ fan
05-058-202	NOP-90440	Cabinet Fan
90-051-642	NOP-90462	Oma Router - Allows 4 devices hookup
20-058-810	NOP-77676	Serial Communication Cable - 10ft male to female