

Uniloy Milacron LLC Industrial Blow Molding Upgrades



Upgrade Description	Major Benefit of Upgrade				
	Machine Uptime / Reliability	Cycle Time	Job Change Time	Mach/Oper Safety	Machine Versatility
1.) Control replacement with a Mosaic control	X	X	X	X	X
2.) Sigmatek Control Update to Flash drives / 16 to 32 bit	X				
3.) Replace Linear Pots on BEL control machines to LVDT's	X				
4.) Convert PTO to Hydraulic Belt drive or Electric Belt drive	X				
5.) Replace PTO position transducer with Prox switches	X				
6.) Update the Extruder Drives and Motors to an AC Vector system	X				
7.) Replace MS heads with FS heads	X	X			X
8.) ANSI standards update				X	
9.) Retractable blow stick					X
10.) Groove feed extruder conversion	X				
11.) Bottom blow unit (many different combinations)					X
12.) Head sync on dual head machine with 486 control must be 4 meg memory		X	X		X
13.) Update software to add operator ID and operator passwords must be 4 meg memory					X
14.) SPC for 486 controls must be 4 meg memory		X			X
15.) Boot card 486 machines	X	X			X
16.) Robot interface for inserts or part removal		X		X	X
17.) Additional Core/s / blow air / needle / blow pin and eject circuits					X
18.) Heater band burnout detection to machines that don't have it	X				
19.) Mold Area Scanner to detect presence in the mold area to eliminate the Safety Mat			X	X	X
20.) Mold set key switch to allow clamp slow movement w gate open Xtream and Mosaic only			X	X	
21.) Extruder rupture disk material detection	X			X	
22.) Hopper material level detection		X			
23.) Auto Extruder Hopper material shutoff				X	X
24.) Convert MS heads to Gang cylinder configuration 1like the FS Heads	X	X			X
25.) Material Shutoffs in manifold for dual head machines			X		X
26.) Bottom pinch unit					X
27.) Top pinch unit					X
28.) TCS Thickness Compensation System for variable wall thickness		X			X
29.) THK Platen Skates and rails for the T1600	X				
30.) Solid state heat cntactors to replace the Mercury contactors	X			X	
31.) Gate cut out for Jerry cans		X			X
32.) Replace extruder groove feed housing with new design, no weld, on 90, 120 and 150 mm	X	X			X
33.) Split Platen Bushings / replacement	X	X			
34.) Commercial Prefill valve upgrade on T1100, T2000, T3000	X				

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35.) Head Tooling			X		X
36.) Bushings & Skates Platens	X				
37.) Head repair	X				
38.) Software upgrades	X	X			
39.) 2nd Clamp timing rack T1600	X				X
40.) Convert Extruders from Groove Feed to Smooth Feed	X				X
41.) Software upgrade for PWDS control		X			
42.) Add Power safety gates Pneumatic	X	X			X
43.) Covert or add Servo electrical powered gates (Mosaic Only)	X	X			X
44.) Replace worn Barrel and Screw on Extruders	X	X			X