HF-Technical Improvement Program

			Control	Control	Control	Control
			P1+2	P1+2	PCR/LTR	PCR/LTR
TIP	Designation	Position in Machine	RA	S+M	RA	S+M
01.001	Laser adjustment: LAP system	Machine	X	X	X	X
01.002	New Sick safety scanner system	Machine	X	X	X	X
01.003	New foot switches system	Machine	X	Х	Х	X
01.004	BST upgrade(complete machine - 4 cameras)	Machine	X		Х	Х
20.001	Permanent magnets under cutting belt	Belt Server	Х	Х	Х	X
20.002	Detector for non-application of breaker material	Belt Server	Х	Х	Χ	Χ
20.003	Lenght measurement photoeye	Belt Server	Х		Х	
20.004	E+L camera system upgrade center control	Belt Server	Х			
20.005	BST camera system upgrade center control	Belt Server	X		X	
20.006	Pneumaticly driven multi-disc roll	Pre Cut Tread Server			Х	X
20.007	Front and back side splice heating	Pre Cut Tread Server	X	Χ	Х	X
20.008	Lateral side guidance on both sides	Pre Cut Tread Server	X	X	Х	Χ
23.001	Spindle and handwheel angle adjustment for belt	cutter Belt Server	X	Х	Х	Χ
23.002	Belt cutter pizza knife floating version	Belt Server	X	Х	Х	Χ
23.003	Hook knife for belt cutter	Belt Server	X		Х	Χ
23.004	Servo drive for belt cutter movement	Belt Server	X		Χ	
33.001	Multi-disc roll for stitcher system	Transfer Ring	X		Χ	Χ
33.002	Optimized belt drive for pusher device	Transfer Ring			Χ	Χ
33.003	Automatic lubrication system	Transfer Ring			Χ	Χ
33.004	Bead setting device driven by electrical actuator	Transfer Ring			Χ	Χ
40.001	UltraSonic PA knife for ply cutter	Ply Server	X	Х	Χ	X
40.002	Multi-disc roll and hollow piston cylinder	Ply Server	X	Х		
40.004	More precise multidisc roll position adjustments	Ply Server	X	Χ	Х	Χ
40.005	Different surface type of foam (sponge) rolls	Ply Server	X	Х	X	X

			Control	Control	Control	Control
			P1+2	P1+2	PCR/LTR	PCR/LTR
TIP	Designation	Position in Machine	RA	S+M	RA	S+M
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40.006	BST Pro camera system	Ply Server	X		Х	
40.007	Light curtain for BP and PA material flow	Ply Server	X		Χ	
40.008	Permanent BP heating for hook knife	Ply Server	X		Χ	X
40.009	E+L camera System	Ply Server	X		X	
40.010	New Branson converter for US knife	Ply Server	X	Х	X	x
40.011	Leak detection by flow rate sensor	Ply Server	X	X	Х	x
40.012	Second SW cutter unit	Ply Server	X		Х	
46.001	Servo drive for ply server conveyor					
	Forward and reverse movement	Ply Server	X		X	
54.001	Separate rockerarm drive in let-off	Let-off	X		Χ	
56.001	BP hook knife motion servo controlled	Ply Server	X		Χ	
56.002	Precise guiding for BP cutting device	Ply Server	X	X	Χ	X
62.001	Optimized design of roller guides in applying device	Reel Tread Server	X		Χ	X
62.002	Optimized heating holder design	Reel Tread Server	X		Χ	X
62.003	Additional covering of reel tread heating	Reel Tread Server	X		Χ	X
62.004	Servo driven forward + rearward movement	Reel Tread Server	X		Χ	
71.001	Modification of knife in JLB head	JLB	X	Х	Χ	X
71.002	Controlled tension of JLB by pressure measuring device	JLB	X		Χ	X
71.003	Head guiding device for different width of JLB	JLB	X	X	Х	X
71.004	Optimized design of return stop	JLB	X	X	Χ	X
79.001	Material jam detector on JLB drive roll	JLB	X		Χ	X
79.002	Second JLB let-off system and conveyor	JLB	X		Х	
79.003	Optimized dancer return roll design	JLB	X	Х	X	Χ
81.001	Forward + reverse movement by ball screw drive	Shoulder Roll Unit	X	Χ	Χ	Χ