RUGGLI
swiss precision

No	Retrofit	Description	Category					Machine							Status
			Performance	Quality	Security	Innovation	ost saving	CL2	CL3	TLD	PAD	KAD	TPA	TC6i	
1	Nonwoven Camera System	More reliable detection of the Nonwoven and Ribbon presence		x					x	x	x	x			available
2	External vaccum unit CL3	External vaccum unit which improves the daily cleaning time due to external tanks	x						x						available
3	External vaccum unit PAD / TLD	External vaccum unit which improves the daily cleaning time due to external tanks	x							x	x				available
4	Conversion Radialpress to Linearpress	Improving the stability of the tampon due to linear press type		x				x	x	x	x	x			available
5	Conversion tampon head colsing unit with folding link	To be able to reduce the wrapping foil widht by using this new unit	x	x				x	x						available
6	Conversion to CL3 Cello Unwinwind Stand (without Cello device)	More reliable CL3 Cello Undwind Stand	x						x						available
7	Upgrade Cello device CL3 for CL2	More reliable CL3 Cello device	x					x							available
8	Upgrade turning spoon PAD / TLD	More reliable truning spoon, especially developed for higher speeds than 85 P/min	x							x	x				available
9	New feeding system TLD without magazin	More reliable feeding stystem for applicator transport	x							x					available
10	Speed-Upgarde PAD for machine built until 2012	PAD Speedupgrade to 120 P/min	x								x				available
11	Speed-Upgarde PAD for machine built after 2012	PAD Speedupgrade to 120 P/min	x								x				available
12	Shorter string lenght for CL-3, PAD, TLD	Cost reduction due to shorter string lenght					x	x	x	x	x				available
13	TC6 Finger Grip	Forming a finger grip on cardboard applicators				x								x	available
14	CL3 Head froming unit 6 ways	Better cello head shape due to multiply head forming		x				x	x						available
15	Cello control camera system	More reliable cello detection with a camera system		x				x	x						available
16	String guide unit with ionizer	Better handling electrical-charded string		x				x	x	x	x	x			available
17	Perforation station	Perforation opening aid instead of teartape				x		x	x						available
18	Winding drum 16 stopps	More reliable winding drum	x					x							available
19	Conversion complete head forming unit to CL3 design	More realible unit for the head forming	x	x				x							available
20	Upgrade Cellostar CL3	Higher life expectancy of the Cello star due to new manufactering process	x					x	x						available
21	String positioning with Ecostepmotor	More reliable unit to postion the string on the wickel	x					x	x						available
22	Knotter CL3 upper part	More reliable knotter for old knotter system	x			x		x	x						available
23	Nonwovenperforation CL3		x					x	x						available
24	Nonwoveneinheit with Vaccum	Better positioning of the Nonwoven on the ribbon		x				x	x	x	x	x			available
25	ATM	To prevent telescoping on the tampon		x	x	x		(x)	x	x	x	x			In progress
26	Upgrade localization Cello error	Fast detection on damaged insertion tubes		x				x	x						vorhanden
27	Upgarde transport belt after sewing machine on TC6i	Realiable transport of thin wadding pledges	x											x	vorhanden
28	Upgrade ribbon transport with vaccum	More reliable ribbon transport into CL2 / CL3 machin	x					x	x						vorhanden
29	CL2 Speedupgarde	CL2 Speedupgrade to 120 P/min						x							not available