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CLEANING SYSTEMS

METHOD		CLEANING EFFECTIVENESS	ENVIRONMENTAL INFLUENCE	RISK OF DAMAGE	CLEANING TIME	COSTS	OPERATOR FRIENDLY	COMPLETE WASHING PROCEDURE	ADVISE
CHEMICAL PRODUCT WITH BRUSHING MANUAL	RECYL	Due to the thick size of the bristles only usable for rough screens (80l/cm) 	Toxic and flammable waste 	The bristle does not damage the roll, but the chemical can penetrate through the ceramics and causes corrosion. 	Very long , many hours for softening the inks , and after that brushing for hours 	Cost of the process is low no machinery is necessary. 	It is necessary to wear protective clothes, gloves and gas masque 	After cleaning with the chemical , rolls must be rinsed with water and dried by hand 	
ULTRASONIC	ALPHASONICS	The affectivity is high , but the bath has to be renewed often. 	The cleaning agent is more or less environmental friendly . It saturates quickly. This waste must be disposed professionally. 	The liquid can penetrate through the ceramics and causes blisters (corrosion) thin walls can be damaged by the vibrations 	It takes at least ¾ hour per roller to clean 	Equipment is expensive, spare parts are very valuable and the cost of the chemical is rises yearly with 30%. 	It is necessary to wear protective clothes, gloves and a gas masque 	After the ultrasonic bath, roll must be rinsed by water and dried by hand 	
SODIUM CARBONATE DISCHARGE	SIMEC/ APEX	The method can not be used for fine lines, so up to 200 l/cm 	Product is a natural product, can be only used ones (1 time). 	It will damage the cells by regular operation, it is an abrasive process 	Depending on the size of the roller is the process, so a 1 meter roller takes at least ½ hour. 	Equipment is expensive and can only be used for score line rollers and anilox sleeves (upto 200 l/ cm). Expensive consumables 	Can easily be operated , does need a special operator 	After the procedure, roll must be rinsed by water and dried by hand 	
PLASTIC MATERIAL DISCHARGE	MICROCLEAN	The method can not be used for fine lines, so up to 200 l/cm 	Material can be recycled , but it only can be used ones. 	It will damage the cells by regular operation and may easily plugs the cells 	Depending on the size of the roller the process takes long time. (1 meter roller takes at least ½ hour) 	Equipment is expensive and can only be used for anilox rollers and anilox sleeves. 	Can easily be operated , does need a special operator 	After the procedure, roll must be rinsed by water and dried by hand 	
DRY-ICE METHOD	DRYVERTEC	Effectiveness is almost zero 	Material is a natural product 	The excessive high pressure can damage the cell walls 	It takes many hours to see any result 	Equipment is medium priced , but is more or less useless to clean aniloxes. 	It is necessary to wear protective clothes, gloves and gas masque 	Roll is ready for use 	
LASER CLEANING SYSTEM	INELME	Is adaptable for all kind of engravings 	Material is evaporated, operator should wear protective clothes and gas must be filtered 	The laser must be adjusted very well otherwise it will damage the roller and the cells 	Depending on the size of the roller is the process, so a 1 meter roller takes at least ¾ hour. 	Equipment is 3 time more expensive than any other method 	Requires a highly schooled operator for a safe operation. 	After the procedure, roll must be rinsed by water and dried by hand 	
CHEMICAL WITH HIGH PRESSURE WATER	FLEXO WASH	Is adaptable for all kind of engravings 	Material is reused, and a small portion is rinsed away with the water, less then 50 ppm. 	Not an abrasive process, and rinses safe for all kind of anilox rolls and sleeves. 	Whole process is finished in 20 minutes maximum 	Medium priced equipment, can be used for aniloxes and plate sleeves 	Easy operation, can be done by any operator 	Roll is ready for use, is rinsed in process and dried by the equipment 