



INSTRUCTIONS FOR USE - ENGLISH

TOUCHLAM®

RANGE OF POLISHING AND SUPERFINISHING CLOTHS

For metallography applications and final flat polishing and aspect polishing

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1. Preparation of the cloths

Before installing the polishing cloths:

On FAS®: ensure that the active surface of the plate (green surface) has no scratches or dirt. If this is not the case, clean it with a soft cloth dipped in alcohol.

On X LAM®: ensure that the back side of the cloth and the surface of the machine platen are dry and clean. If necessary clean it with a cloth dipped in alcohol.

On FMS: ensure that the back side of the cloth and the FMS are dry and clean. If necessary clean it with a cloth dipped in alcohol.

2. Positioning the polishing cloths

Self-adhesive: Remove the protective film from the back side of the cloth. Apply the cloth to the plate by sticking part of the cloth situated on the outer diameter. Then carry out sweeping movements, by following the diameter of the cloth, in order to eliminate the risk of air bubbles.

Magnetic cloth: Centre the polishing cloth on the plate. Apply pressure to the centre of the pad in order to eliminate the risk of air bubbles.

3. First use of the cloths

If the cloth is new, during its first two utilisations increase the cycle time about one minute. We recommend the use of a LAM PLAN diamond stick or paste to load the polishing cloth with abrasive. If you do not use a paste or dosage stick, apply a sufficient quantity of NEODIA® or NEOLAP® liquid diamond during the first two times that you use the cloth.

4. Cleaning

Clean the pads only if you find more scratches than usual on the surface of the samples. This may be the result of pollution or dirt.

- Apply enough quantity of water onto the cloth,
- Start the plate spinning,
- With the help of a soft brush (nylon bristles) clean the pad, beginning in the centre and working outwards,
- Leave the pad to dry,
- Reload the abrasive liquid just before the next use.

5. Replacing of the cloth

Remove the cloth from the plate, start with a point on the outside of the cloth.

We recommend using BOX LAM 300 to store your cloths and protect them from ambient pollution.

6. Disposal

Treat the magnetic cloths like current regulatory any metallic materials, respecting the applicable norms. Our pads do not contain any dangerous substances.

7. Precautions and warning

During the pre-polishing or polishing stages, keep your hands well clear of the edge of the plate to avoid the risk of cutting yourself.

8. LAM PLAN fixing accessories

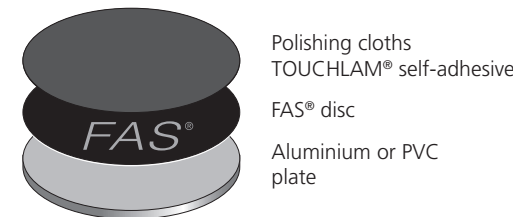
FAS® the solution for adhesive fixing.

The FAS® system facilitates the sticking and unsticking of all self-adhesive supports (abrasive papers, grinding and polishing cloths). It avoids the tedious cleaning of plates dirtied by glue remains whenever a self-adhesive cloth is removed.

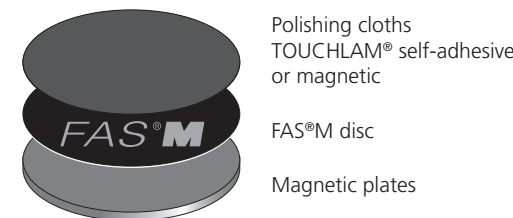
The patented material comprising the FAS® system allows combining the softness and regularity of the abrasion of a flexible coating with the inherent flatness obtained with a metal support.

Available in 2 versions:

FAS®: rigid self-adhesive, fixes to the plate of the machine, regardless of the diameter. Its small thickness (1 mm) guarantees the initial inherent flatness of the master plate.

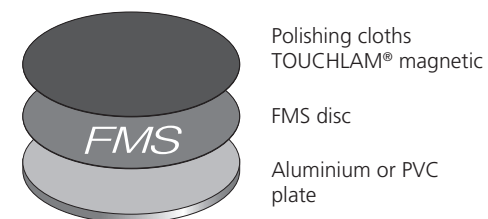


FAS®-M: magnetic, equipped with an adaptable support on a magnetic plate.



FMS the fixing system by magnetic attachment.

The FMS magnetic disc sticks to all types of support plates. It is also available in a FMS plate and can equip all existing machines.



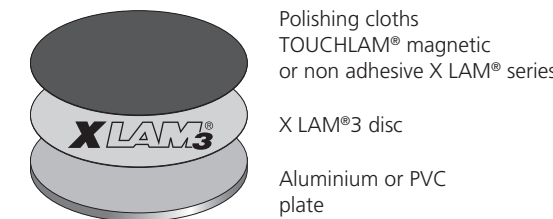
X LAM®3: the fixing system by contact.

The X LAM®3 disc consists of an adhesive or magnetic side which is fixed to the polishing machine plate and an active side which allows holding X LAM®3 series polishing cloths (without adhesive) and CAMEO®DISK magnetic grinding discs.

The new X LAM®3 is recommended when very high sticking is required. Long life.

The X LAM®3 is also available in large diameters:

- X LAM®3: adhesive back side.
- X LAM®3-M: magnetic back side.

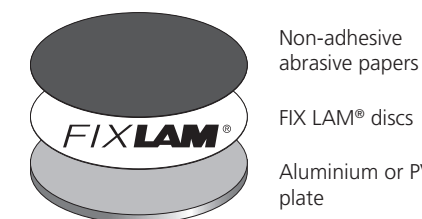


FIXLAM® the repositionable adhesive system.

The FIX LAM® allows maintaining the non-adhesive abrasive papers thanks to a repositionable adhesive surface.

Available in two versions:

- FIX LAM®: adhesive back side.
- FIX LAM®-M: magnetic back side.



9. Applications chart of fixing accessories

Machines equipments		
	Aluminium plate	Magnetic plate
- Non-adhesive abrasive paper	FIX LAM®	FIX LAM®-M
- Magnetic CAMEO DISK® - X LAM® series polishing cloths	X LAM®	X LAM®-M
- Self-adhesive CAMEO DISK® - Self-adhesive abrasive paper - Self-adhesive polishing cloths	FAS®	FAS®-M
- Magnetic CAMEO DISK® - Magnetic polishing cloths	FMS	-

10. Summary tables of the range of polishing cloths TOUCHLAM®

METALLOGRAPHY

Cloths	CHARACTERISTICS				Applications
	SR*	Flatness	Finish	Super finish	
2FC1	+	+			Fine grinding of soft materials Polishing of hard to extra hard materials
2TT1	+	+			Rough polishing on ductile materials
2TT2	+	+			Rough polishing, stock removal on ductile materials
2TS3		+	+		Fine polishing (intermediary) on all materials Final polishing on hard materials
2TS4		+	+		Fine polishing (intermediary) on all materials

*Stock removal

Cloths	CHARACTERISTICS				Applications
	SR*	Flatness	Finish	Super finish	
3SE2		+	+		Fine polishing (intermediary) on soft materials, preserves the flatness
3SA4		+	+		Fine polishing (intermediary) on soft materials
3TL1			+		Medium to fine polishing on semi-hard to hard materials
3FV1				+	Final polishing on semi-hard to hard materials
4FV3				+	Final polishing on semi-hard to hard materials
4MP1				+	Chemical/mechanical polishing on varied materials
4MP2				+	Chemical/mechanical polishing on varied materials. Long service life

FLAT POLISHING AND ASPECT POLISHING

Cloths	CHARACTERISTICS				Applications
	SR*	Flatness	Finish	Super finish	
1PU1	+	+			Fine grinding of soft materials Polishing of hard materials
1PU2	+	+			Fine grinding of soft materials Polishing of hard materials
1PU3	+	+	+		Fine grinding of soft materials Polishing of hard materials
1PU4		+	+		Fine grinding of soft materials Polishing of hard materials
1PC1		+	+		Finishing of soft materials Fine finishing of hard materials
1PC2		+	+		Finishing of soft materials Fine finishing of hard materials

*Stock removal

Cloths	CHARACTERISTICS				Applications
	SR*	Flatness	Finish	Super finish	
2PC1		+	+	+	Finishing on all materials especially developed for optics, micro-electronics and semi-conductors
2PC2		+	+	+	Finishing and super finishing on all materials especially developed for optics, micro-electronics and semi-conductors
1NT1	+				Semi-finish polishing of non ferrous materials
1NT2	+				Semi-finishing of precious metals
2TT2	+	+			Rough polishing on all materials
2TS1		+	+		Intermediary polishing of soft to medium-hard materials. Final polishing on hard materials
2TS2			+		Intermediary polishing of soft to medium-hard materials. Final polishing on hard materials
2FL1			+		Final polishing on glasses and plastics
2FL2			+		Final polishing on glasses and plastics (large size parts)
2MS1			+		Polishing / studding of various materials (watchmaking industry)
3FP1				+	Polishing on minerals and organic glasses
3SE2		+	+	+	Fine polishing on soft and semi-hard materials

*Stock removal

Cloths	CHARACTERISTICS				Applications
	SR*	Flatness	Finish	Super finish	
3SA4		+	+	+	Fine polishing on soft materials
3FV1				+	Final polishing on hard materials
3FV2				+	Final polishing on all materials
4FV3				+	Final polishing on soft to medium-hard materials
4MP1				+	Chemical/mechanical polishing on varied materials
MP2				+	Chemical/mechanical polishing on varied materials Especially developed for high production

*Stock removal