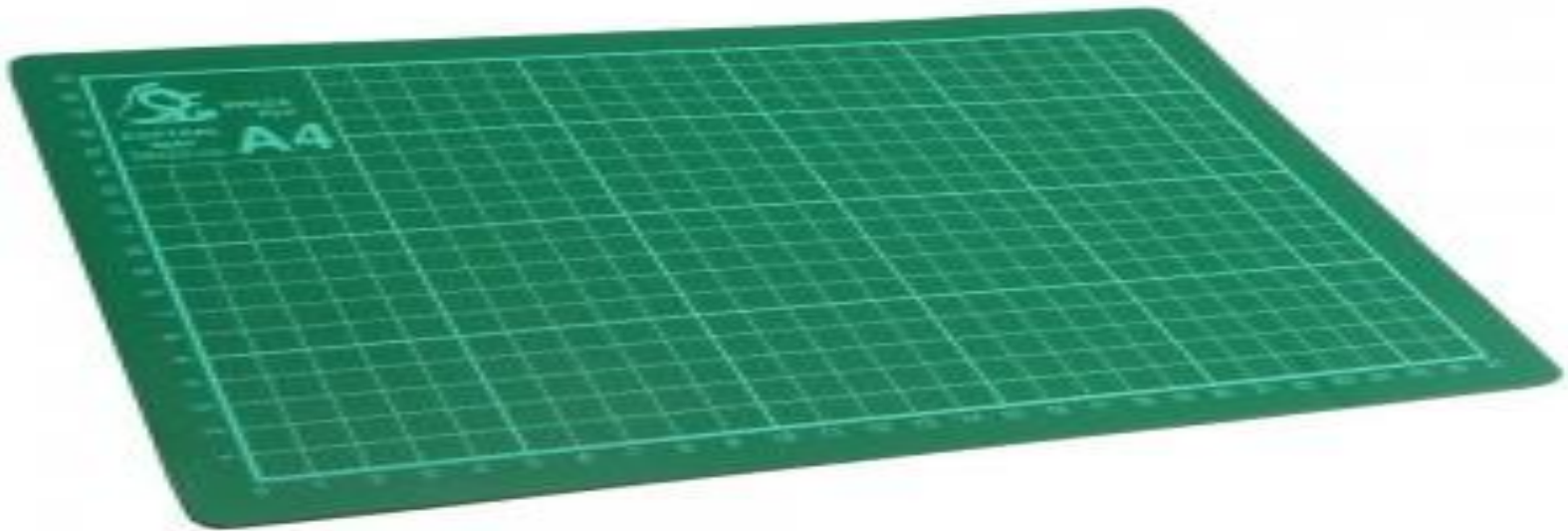


CUTTING TOOLS AND MANUAL



PU LEATHER CUTTING MATE.

- PU cutting mate is high density and hardness .
- Manual leather cutting and footwear and garments goods samples components cutting is used for this PU mate.
- This PU mate no cracking during more pressure by cutting.
- PU mate is used for sharp cutting than other wooden boards.

HAND CUTTING KINIFE.



HAND CUTTING KINIFE.

- Hand cutting knife mainly used for manual leather cutting in household leather industry.
- Cutting blade is more heat resistance and durable.
- Small leather components and sample making purposes ,this hand cutting knife is used.
- Cutting edges is very sharp than other ordinary cutting knives.

HEAVY HAND KNIFE.

Leather Tools



HEAVY HAND KNIFE

- This heavy knife mainly used for heavy thickness leather cutting .e-x Vegetable tanned Belt leather and heavy thickness chrome tanned leather.
- Cutting edges is very sharp than other ordinary cutting knives.
- Manual leather goods maker mainly used for this heavy knives.

HAND CUTTING KURBI KNIFES.



KURBI KNIFES

- This KURBI knife mainly used for manual heavy leather cutting.
- Small leather cottages industry mainly used for types of knives.
- Heavy thickness and leather goods maker normally used for this KURBI knives.
- Cutting edges very sharp and it have more heat resistances.

ROTTERY LEATHER CUTING KNIFES.



Skiving knives

- the skiving process, meaning "to slice", can be applied to a variety of applications and materials. In leather, skiving knives trim the thickness of the leather, often around the edges, to thin the material and make it easier to work



Strap cutter

- in this machine leather are cut into stripes of different width .
This machine uses a set of disc knives and spacers used determine the width of each straps

Manual strap cutter Works great at cutting all different weights of leather.

- Can easily adjust to cut 1/8" to 4" strips.
- Handy cross bars add support.
- Includes one regular blade Additional replacement blades #3081-00.)

Measure in inches or centimeters

Works right or left handed



Strap cutters



Splitting machine

- Leathers available from the original is the generally found to be thicker than the required amount the components thus will cut have verity thickness. but some articles are not required split leather

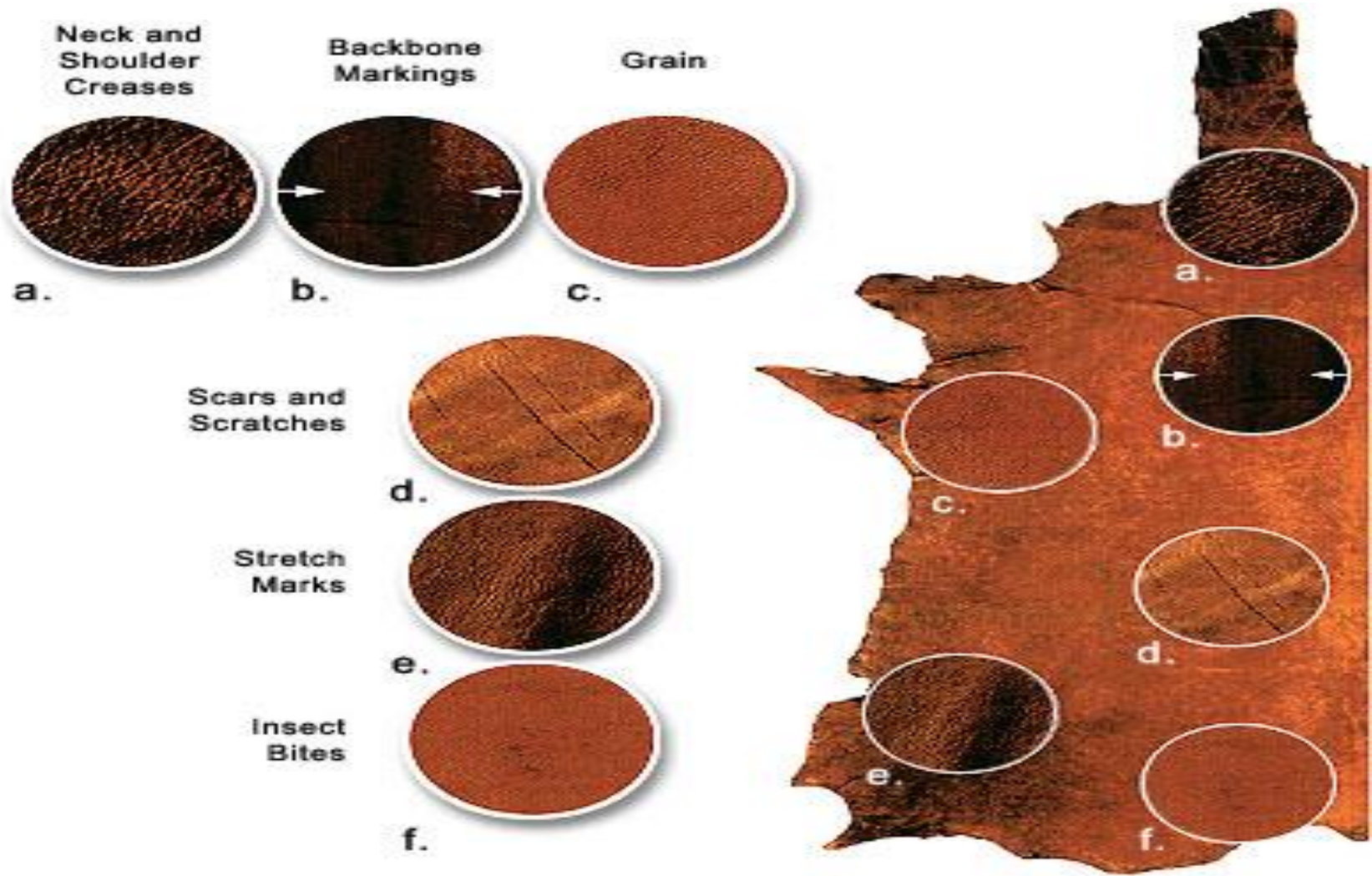
ROTTERY LEATHER CUTTING KNIFES.

- This knife mainly used for leather garments components cutting purposes.
- Round knife is available in this Tools.
- Cutting edges is very sharp than normal blade cutting.
- Small substances leather is suitable for this cutting knives.

LEATHER STRETCH DIRECTION.



FINISHED LEATHER DEFECTS.



LEATHER QUALITY AREA

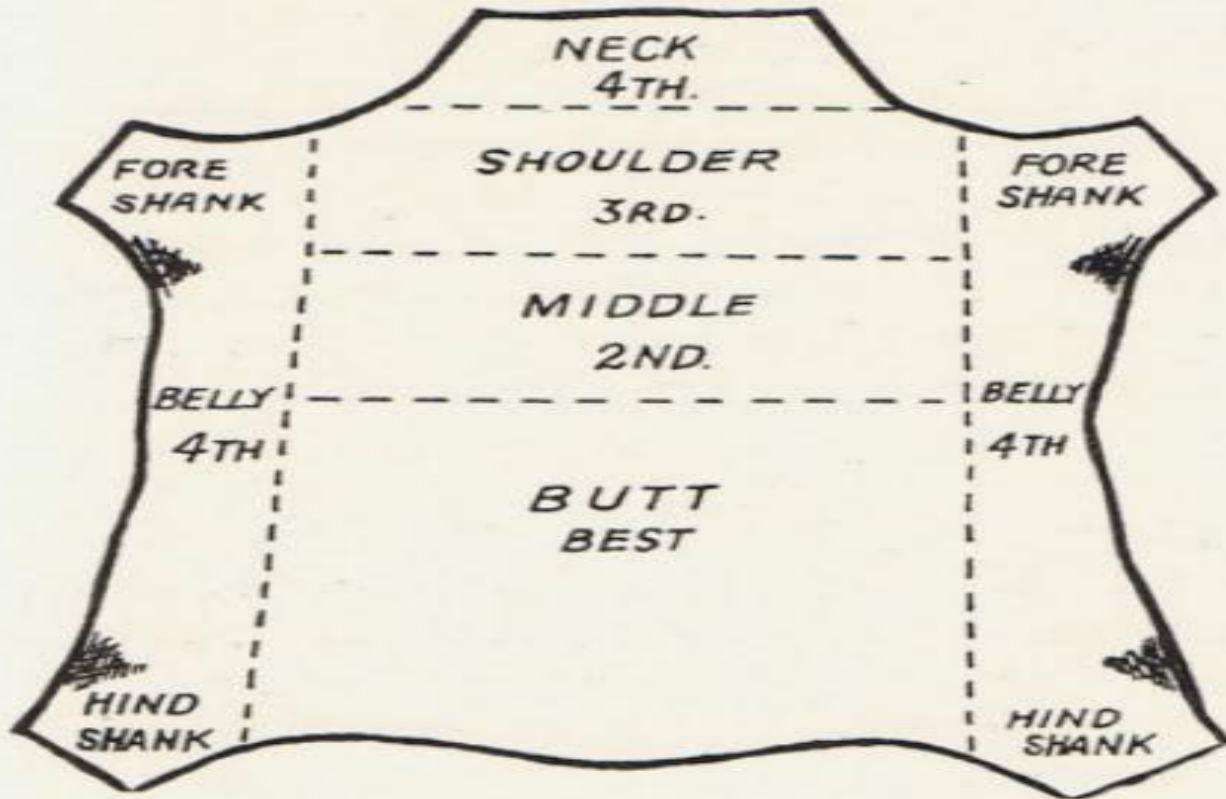
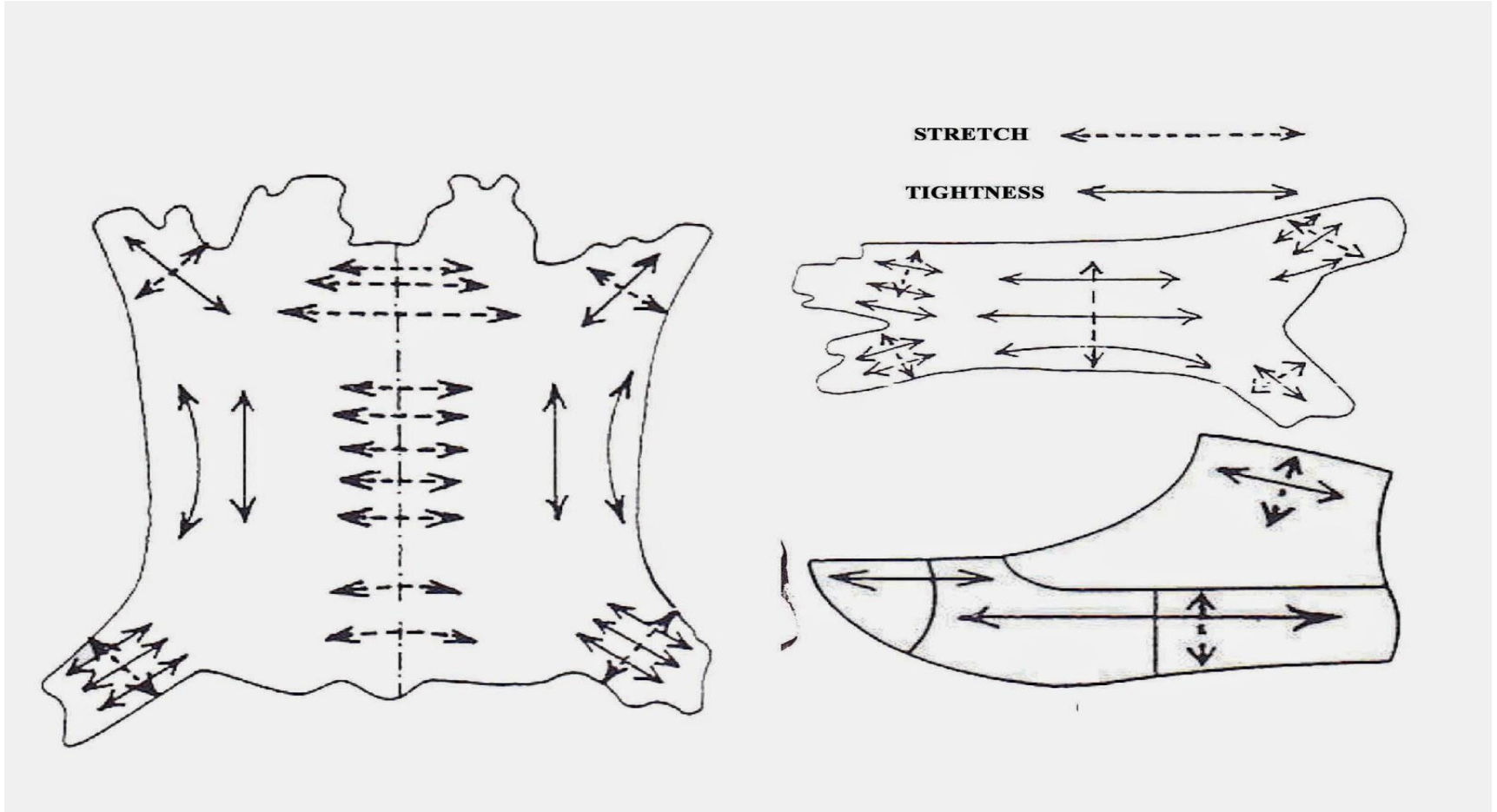


FIG. 20. QUALITY

COMPONENTS CUTTING STRETCH DIRECTION.



LEATHER GRADE DETAILS.

- A GRADE LEATHER -- 98% (Midpoint)
- B GRADE LEATHER -- 93%
- C GRADE LEATHER ---88%
- D GRADE LEATHER -- 83%
- E GRADE LEATHER -- 78%
- F GRADE LEATHER ---73%
- G GRADE LEATHER -- 67%
- H GRADE LEATHER -- 63%(Below)

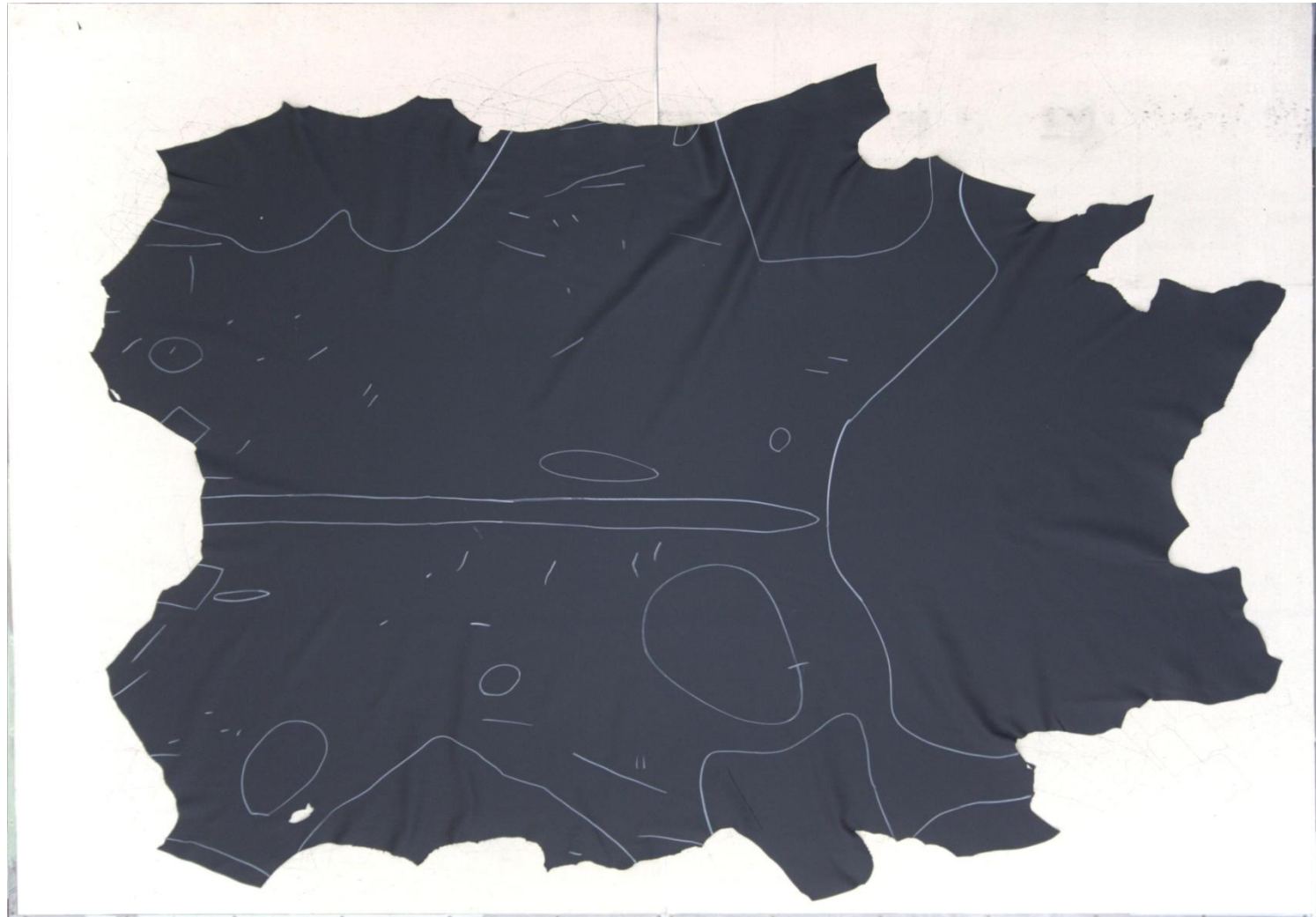
LEATHER GRADING FORMULA

- LEATHER GRADING is very important for leather cutting operation.
- Commonly SATRA SUM grading rule is followed worldwide.
- GRADING FORMULA

Total leather Area- Defected Area(sq.f)

- ----- x100
- Total leather AREA,

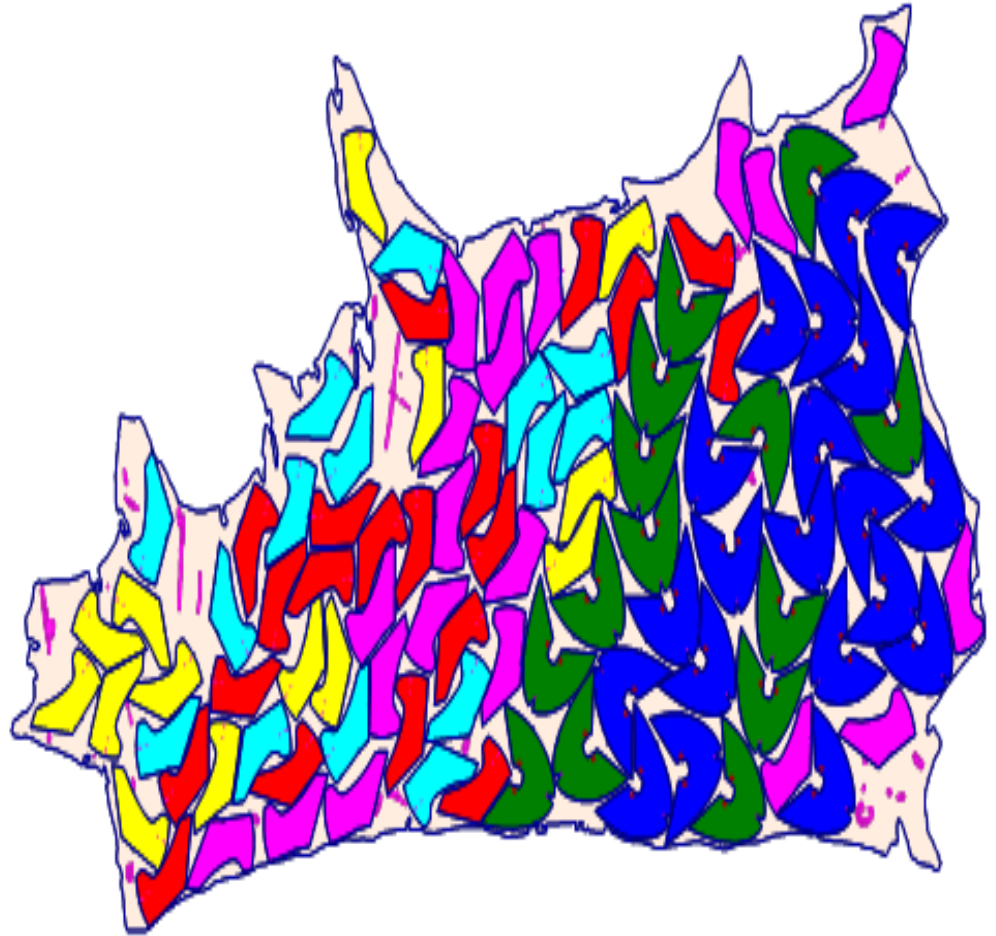
LEATHER DEFECT MARKING



LEATHER MARKING IMPORTANCE

- Leather is a valuable material each square feet is very important for leather cutting operation.
- Before cutting finished leather defect will clearly marked after that cutting followed , it
- will improve the cutting quality and reduce the cost and components defect problems.
- Leather defect such as scratches , wain mark ,
- Growth mark ,deep grain, colour feef off will avoided in cutting process.
- This defect components cutting is leading to final product quality issues.

LEATHER NESTING



LEATHER NESTING DISCRPTION.

- Before cutting leather operator having more knowledge about quality and nesting knowledge because leather is valuable material than synthetic .
- So each components is properly nested after that die cutting or manual cutting will started.
- Die interlocking and nesting practice and Time consumption is very important role for leather cutters.
- LEATHER defect should be avoided and leather stretch Direction for each components is very important for Footweras and leather goods .
- Proper nesting and cutting is economically valuable and reduce the production losess.

LEATHER DIE DISCRPTION.



Leather Clicking Die



CUTTING DIE DISCRPTION.

- 1. Heavy steel metal used for leather cutting Die Making process, Normally 18 MM -25 MM
- Steel plate used for Die making process.
- Cutting edges is not easily damaged more pressure.
- leather Cutting edges is very smooth than computer laser cutting.
- Cutting Die maintenance is very important for cutting section.

Die cutting

- is used for cutting intricate patterns with peak precision. It involves pressing a rigid blade through the lay of fabric.
- Two basic type of die cutters-Clickers (impact) & Hytronic (presseshydraulic and electronic)
- Clickers- a single press on the die.
- Presses- continuous pressure on the die until it cuts the layers and make the contact with the base.
- Mainly used for smaller parts like collars, pockets, etc.
- Different pattern dies should be spaced with at least 2-3 mm

DIE CUTTERS



Features:

- Max. Pressure: 25 Ton

- Max. Stroke: 100 mm



Features:

- Max. Pressure: 24 Ton

- Max. Stroke: 100 mm

- Cutting Table: 2000 x 500 mm

Advantages of Die Cutter

advantages

- Very accurate and excellent for small components
- The greater the blade movement , the faster the blade cuts the leather & the more rapidly.
- The operate can be easily & push the Machine.

Die Cutter Uses:

- Mainly used for mass production of slow change items.
- Dies having the exact shape of the garment pieces.
- Some dies are sued over a long period.

Disadvantages:-

- Cannot be used for very dense fabrics
- Cannot be used for knits
- With every style & size change, a new frame is required