

UNIVERSITI TEKNOLOGI MARA PUNCAK ALAM

BLUE PRINT:

AUTOMATIC STRAP CUTTER MACHINE

TECHNOLOGY ENTREPRENEURSHIP (ENT600)

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CHAPTER 1 1.0 PRODUCT DESCRIPTION

1.1 Introduction

Demand for occupational therapy is expected to rise significantly over the coming decade in response to the health needs of the aging baby-boom generation and a growing elderly population. One of the Occupational Therapist (OTs) services is the fabrication of splinting (a low-temperature plastic material, custom-made and is fitted to each individual which is fasten by the straps). After initial observation towards the conventional ways of OTs cutting the straps using the scissor, the team had chosen a product that we believe can make the process much easier.





1.2 Purpose of development

- To reduce the time consuming for strap cutting process.
- To provide ergonomic wise to the user.
- To guaranteed accuracy of the straps length

1.3 Product Concept

This Automatic Strap Cutter Machine is to simplify the job and it can reduce possibility of user having musculoskeletal pain due to usage of heavy duty scissors.

1.4 Application

The most comprehensive line of work aid and labor saving device, specifically designed to rapidly and accurately cut for hook and loop fastener strips.



1.4.1 Functions

- Ideal for heavy production to cut Velcro®.
- Cut up to 4.33" (110mm) wide material or multiple rolls
- High-speed can cut up to 140 pieces per minute at 2" (50mm) in length
- All electric microprocessor controlled
- Easy to use set length, quantity and feed speed; then, press start
- · Adjustable pressure on feed roller for thin or smooth materials
- Accuracy by means of stepper motor
- · Cutter safety guard included
- No tooling required to cut different materials
- Cutting blade is made of high-speed steel (HSS)

1.5 Unique features

- Automatic shut-off stops automatically if material runs out during operation
- Multi-shape of cutting blades
- Touch screen
- Dual partitions for adhesive and non-adhesive material