



PRESS CUTTING TECHNOLOGY

Presented by
PARTWELL LTD.



Press Cutting

The Conversion of Materials - Sheet or Rolls
into Specific Component Shapes

Converting shapes out of materials through
a combination of :

- ⌚ Knives
- ⌚ Press Machines
- ⌚ Cutting boards





*To cut material using the
minimum pressure possible.*





Aim

*To cut material using the
minimum pressure possible.*

This

- Reduces knife distortion
- Reduces wear & tear on boards
- Reduces wear & tear on machine



Press Cutting - Knives

Consider the following;

- ⦿ Edge Finish (Rolled or Ground)
- ⦿ Bevel type
- ⦿ Welding/shape quality
- ⦿ Size of knife
- ⦿ Steel Body Hardness



Press Cutting - Press Machine

Consider the following;

- ⌚ Pressure required
- ⌚ Size of head / Bed Size
- ⌚ Distance 'daylight' of stroke
- ⌚ Condition of machine
- ⌚ Safety requirements
- ⌚ Type of Machine ie SAP/leather/THP/Roll material



Press Cutting - Cutting Boards

Consider the following;

- ⦿ Material to be cut
- ⦿ Resistance required / Shore Hardness
- ⦿ Flatness
- ⦿ Condition of surface
- ⦿ Weight
- ⦿ Quality of application



Features of a difficult or poor quality cutting operation

- ⦿ Cutting Board deeply penetrated
- ⦿ Components not cut first time
- ⦿ Components frayed or damaged at the edges
- ⦿ Knife ends up distorted
- ⦿ Deflection in the Press beam
- ⦿ Machine max. cutting force is required to complete cut
- ⦿ Depth of lay - too deep for the knife





Features of a good cutting operation

- ⌚ Kiss cutting (minimum board penetration)
- ⌚ Components completely cut first time
- ⌚ Cleanly cut components
- ⌚ No deflection in the beam
- ⌚ Clinical completion of machine stroke.
- ⌚ Knife is not distorted
- ⌚ Appropriate knife depth for lay depth





Why Partwell?

- ◌ Range of cutting boards
- ◌ Range of sizes
- ◌ Large stocks
- ◌ Planing service
- ◌ Technical Back-up and Advice Service
- ◌ Corrective action

