PERIPHERAL MILLING MACHINES IN WOOD INDUSTRY

BY

ZATI BAYANI BINTI ZULKIFLI

Final Project Submitted In Partial Fulfillment for the Diploma in Wood Industry

Faculty of Applied Science,

MARA University of Technology

November 2005

ACKNOWLEDGEMENT

I would like to express my deepest appreciation and my sincere gratitude to my advisor, Associate Professor Abdul Jalil b. Ahmad for his encouragement and guidance in designing and implementing this project.

Similar thanks are dedicated to my entire friend who offer help I needed most. Inclusively my parents, my family and my lover for their moral and financial support throughout the years of study and who give me the strength to keep up with the study and giving me encouragement leading towards the success of this final project.

Finally to every body who was involved directly and indirectly in the completion of my final project, I wish success in their life and thanks lots.

TABLE OF CONTENT

ABSTRACT

PERIPHERAL MILLING MACHINES IN WOOD INDUSTRY

BY

ZATI BAYANI ZULKIFLI

NOVEMBER 2005

The machined surface may be flat, angular, or curved. The surface may also be milled to any combination of shapes. The machine for holding the work piece, rotating the cutter, and feeding it is known as the milling machine. In peripheral (or slab) milling, the milled surface is generated by teeth located on the periphery of the cutter body. Milling cutter are available in many standard and special types, forms, diameters, and widths. The teeth maybe straight (parallel to the axis of rotation) or at a helix angle. CNC expert covers the keys factors behind making controls and the entire milling process move faster. A high speed control will gives you the ability to finish one task faster and move along to the next sooner. In drilling and tapping, this can result in faster hole-to-hole times, quicker spindle reversals for tapping, and substantial cycle-time reductions. Various milling machine components are being replaced rapidly with computer numerical control (CNC) machines. These machine tools are versatile and are capable of milling, drilling, boring and tapping with repetitive accuracy.