ABSTRAK

Nama	:	M. Alfath Friansyah
NPM	:	062230200232
Jurusan		Teknik Mesin
Program Studi	:	D–III Teknik Mesin
Judul Laporan Akhir	:	Rekondisi Mesin Bor Bangku *Rockwell type* 420M Bengkel Produksi Teknik Mesin Politeknik Negeri Sriwijaya (Perawatan)

(2025: xi + 54 Halaman, 18 Gambar, 13 Tabel + 13 Lampiran)

Laporan Akhir ini berjudul "Rekondisi Mesin Bor Bangku Rockwell type 420M Bengkel Produksi Teknik Mesin Politeknik Negeri Sriwijaya (Perawatan)". Laporan Akhir ini dilakukan untuk mengetahui bagaimana cara melakukan rekondisi dalam rangka perawatan pada Mesin Bor Bangku Rockwell Type 420M pada Bengkel Produksi Teknik Mesin Politeknik Negeri Sriwijaya. Laporan ini ditulis dengan menggunakan beberapa metode pengumpulan data seperti riset lapangan, wawancara, dan dokumentasi. Berdasarkan riset lapangan yang telah dilakukan diketahui bahwa keadaan mesin tidak optimal dan mengalami penurunan kinerja sehingga perlu dilakukan rekondisi dalam bidang perawatan. Rekondisi pada Mesin Bor Bangku Rockwell type 420M Bengkel Produksi Teknik Mesin Politeknik Negeri Sriwijaya (Perawatan) bertujuan untuk membuat perencanaan dan prosedur perawatan mesin, agar mesin dapat berfungsi dengan baik dan optimal seperti semula. Langkah perawatan meliputi pemeriksaan visual awal, pembersihan permukaan mesin, pengecekan sistem penggerak, pelumasan ringan, pemeriksaan sistem kelistrikan, dan uji fungsi sementara. Penerapan perawatan ini diharus dilakukan oleh staff petugas pemeliharaan mesin sesuai dengan jangka waktu perawatan yang telah ditentukan. selain itu, perawatan harus sesuai dengan hasil laporan checklist yang diperoleh ketikan pengecekan harian/bulanan dilakukan. penerapan standarisasi berupa standar operasional prosedur (SOP) dalam penggunaan alat dan K3 perlu diperhatikan dalam pelaksanaan perawatan ini. Pengunaan APD yang terstandarisasi membuat pekerjaan menjadi lebih aman dan terhindar dari kecelakaan kerja. Adanya kegiiatan rekkondisi ini, diharapkan mesin bor bangku Rockwell Type 420M dapat kembali beroperasi secara maksimal, meningkatkan efisiensi kerja, serta memperpanjang umur pakai mesin.

Kata Kunci: Rekondisi, Perawatan Mesin, Perancanaan Perawatan

ABSTRACT

**Reconditioning of Bench Drill Machine Rockwell Type 420M,
Mechanical Engineering Productiom Workshop,
Sriwijaya State Polytechnic (Maintenance)**

(2025: xi + 54 pp. + 18 Figures + 13 Tables + 13 Attachments)

M. Alfath Friansyah
062230200232
DIPLOMA–III MECHANICAL ENGINEERING STUDY PROGRAM
MECHANICAL ENGINEERING DEPARTMENT
STATE POLYTECHNIC OF SRIWIJAYA

This Final Report is entitled "Reconditioning of Rockwell Bench Drill Machine Type 420M, Mechanical Engineering Production Workshop, State Polytechnic of Sriwijaya (Maintenance)". This Final Report was conducted to find out how to perform reconditioning in the context of maintenance on the Rockwell Bench Drill Machine Type 420M at the Mechanical Engineering Production Workshop, State Polytechnic of Sriwijaya. This report was written using several data collection methods such as field research, interviews, and documentation. Based on the field research that has been conducted, it is known that the condition of the machine is not optimal and has decreased in performance so that reconditioning is necessary in the field of maintenance. Reconditioning on the Rockwell Bench Drill Machine Type 420M, Mechanical Engineering Production Workshop, State Polytechnic of Sriwijaya (Maintenance) aims to create a plan and procedure for machine maintenance, so that the machine can function properly and optimally as before. Maintenance steps include initial visual inspection, cleaning the machine surface, checking the drive system, light lubrication, checking the electrical system, and temporary function testing. The implementation of this maintenance must be carried out by machine maintenance staff according to the specified maintenance period. Additionally, maintenance must be in accordance with the checklist report obtained during daily/monthly inspections. Standardization in the form of standard operating procedures (SOP) for tool use and K3 must be considered in carrying out this maintenance. The use of standardized PPE makes work safer and prevents workplace accidents. With this reconditioning activity, it is hoped that the Rockwell Type 420M bench drill machine can return to maximum operation, increase work efficiency, and extend the machine's service life.

Keywords: Reconditioning, Machine Maintenance, Maintenance Planning