ABSTRAK

Penelitian ini bertujuan untuk membuat jig proses *finishing frame* alternator yang sesuai untuk mesin cnc miling dengan menggunakan metode *quality fuction deployment (QFD).* Matriks *House of quality (HOQ)* digunakan Untuk menganalisis kebutuhan pengguna dan respon teknis dengan melihat bobot korelasi . Hasil akhirnya akan didapatkan urutan prioritas *rank* tertinggi sampai terendah pada matriks teknis. Berdasarkan hasil analisis matriks teknik didapatkan atribut prioritas *improvement* jig proses baru prioritas pertama yaitu jig dibuat *common* untuk kp-6575, kp-6669, kp-6829, kp-6671, kp-6673. Prioritas kedua yaitu jig perlu dibuat dua point setting untuk titik 0 benda kerja dan untuk titik setting *dial* agar memudahkan saat setting jig dan memudahkan saat ada perbaikan. Prioritas ketiga yaitu *design* Pengunci jig menggunakan *toggle* dan ulir agar pengunci produk kuat. Dengan jig proses baru yang dirancang menggunakan *metode quality fuction deployment* (QFD) membuat proses *finishing frame* alternator lebih cepat. Untuk menghasilkan satu produk *frame finish good* membutuhkan waktu proses selama 3 menit.

Kata Kunci : *quality fuction deployment, house of quality.*

ABSTRAC

This research to make a suitable alternator frame finishing process jig for cnc milling machines using the quality fuction deployment (QFD) method. The House of quality (HOQ) matrix is used to analyze user requirements and technical responses by looking at correlation weights. The end result will be the highest to lowest rank priority order in the technical matrix. Based on the results of the technical matrix analysis, the priority attributes of the new process jig improvement are obtained, the first priority is that the jig is made common for kp-6575, kp-6669, kp-6829, kp-6671, kp-6673. The second priority is that the jig needs to be made two setting points for the 0 point of the workpiece and for the dial setting point to make it easier when setting the jig and make it easier when there are repairs. The third priority is the design of the jig lock using a toggle and thread so that the product lock is strong. With the new process jig designed using the quality fuction deployment (QFD) method, the alternator frame finishing process is faster. To produce one frame finish good product requires a process time of 3 minutes.
for 3 minutes.

Keywords*: quality fuction deployment, house of quality.*