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Abstract:

Cutting fluid is essential for the better performance in any machining operation; it is desirable for the cutting tool life and degree of accuracy of the operation to supply proper cutting fluid. The quality of the finish product largely depends on it. But in light machine shop the aspect of cutting fluid are ignored. Though there is high energy consumption, huge maintenance works, and complicated system used by machine shop but there is little use of any lubrication system. In such situation a work force need to develop an optimize system for the proper supply of cutting fluid during operation. In this research the system is used mainly mechanical energy of air pressure through foot pumper use to supply the adequate amount of cutting fluid in to the cutting area. The system developed in this research is handy and portable so it is useable for any machine in the machine shop and provides the flexibility of use with low maintenance and also very much cost effective