

A Case Study on Aluminium Extrusion Press: Problems Identified and Probable Alternative Solution for its Problem Related to Guideways

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Abstract - Aluminum Extrusion Press (Capacity 425 MT) consists of various components such as bed, cylinder, Ram, Ram stem, container, shear blade, guideways etc. The case study was carried out at Saraswati Extrusions Pvt. Ltd., Aurangabad. The paper includes introduction of the Aluminium Extrusion Press. The problems (two) identified on same machine one is related to guide ways and other is improper lubrication. Also paper includes a probable alternative solution (Using a Recent Technology of Linear Motion Guideways) for the problems mentioned, Conclusion and References.

Keywords - Extrusion Press, guideways, Linear Motion Guideways.

I. INTRODUCTION

Extrusion is a plastic deformation process in which a block of metal (billet) is forced to flow by compression through the die opening of a smaller cross-sectional area than that of the original billet. The aluminum is used as a raw material for extrusion. The study carried out at above mentioned firm includes functions of various parts, identification of problems and solution for one of its problem. The maintenance manual of the above mentioned firm is referred for more information.

The rest of the paper is organized as follows. Components of Press are explained in section II. Problems identified in Press in section III. Probable alternative solution for the replacement of flat guideways in section IV. Concluding remarks are given in section V.

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