

Weight reduction is important in the automotive industry. To achieve this, Tailor Welded Blanks (TWBs) are used: body panels consisting of sheets with different thicknesses and/or materials, welded together and stamped into the desired shape. Aluminium TWBs have been introduced only recently. Laser welding is a joining technique that shows high potential to produce the required strong yet deformable welds. In this work various aspects of the laser welding of these thin aluminium sheets are treated, like the development of a control system to ensure full penetration keyhole welding and a camera based monitoring system that allows coaxial in-situ process monitoring. Furthermore several models are presented which help to gain a better understanding the welding behavior. Finally five different laser based welding techniques are compared, among which laser welding with cold wire feeding, twin spot laser welding and laser/GMA hybrid welding.

GARDEN DESIGN, The Captains Lady (Mills & Boon Love Inspired), Animal Sneezes, The Guide to the Galaxy, Blepharospasm And Related Disorders: A Historical Review Of Etiology And Treatment (Advances In Ophthalmic Plastic and Reconstructive Surgery, Volume 4), SUN-TSE Les treize articles sur LART MILITAIRE (French Edition), Gospel Pulpit Volume VII, Personal Safety for Health Care Workers (Published in association with Suzy Lamplugh Trust), At the Back of the North Wind (Everymans Library Childrens Classics), Energizing People,

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