



TWB Company LLC

A ThyssenKrupp Steel / Worthington Industries Joint Venture

Weight Savings

Material Utilization

Manufacturing development

Part Consolidation

Improved Performance



Product development



"TWB is committed to create value by providing global solutions to our customers through people, trust and technology"
— Christian Dohr, President and CEO



Tailored Product Benefits

- General
 - Product Benefits
 - Part Reduction/Integration
 - Mass/Weight Savings
 - Improved Functionality
 - Manufacturing Benefits
 - Reduce Manufacturing Complexity
 - Improve Dimensional Control
 - Cost Benefit
 - Lower Tooling & Labor
 - Reduced Number of Operations
 - Less Material Handling & Enhanced Logistics
- Material Cost Reduction (MCR)
 - Improved Material Utilization
 - Nesting
 - Scrap Reduction
 - Optimize steel grades where needed
 - Produce oversized panels
 - Expand coil width capabilities

TWB Advantage

- Continuous feed welding machines
- Linear & non-linear capabilities
- Each weld is computer monitored and serialized
- Proprietary weld profile monitoring and Magnetic Flux Leakage Detection (MFL) systems used
- Statistical sampling
- Cross sectional analysis
- Visual inspection

Material Combinations Include:

*Stainless, CR, HR, DP, TRIP, CP and boron grades.
Coated and non-coated.*

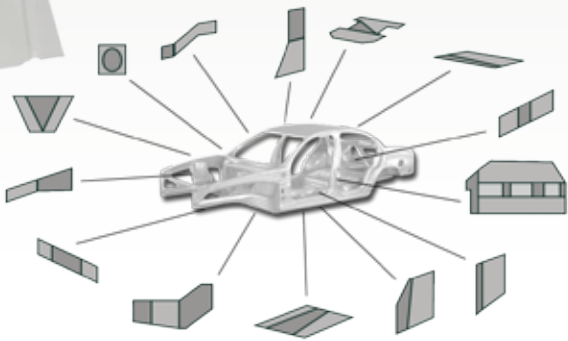
Six Sigma Quality Levels
(External PPM 3 or less!)



TWB Specialized Services

The TWB team provides customers with advanced technological support in all aspects of the use of tailor welded products. TWB product, manufacturing and technical service engineers assist customers from product development through production implementation. TWB is well positioned to meet the requirements of the highly competitive automotive industry. TWB continues to strengthen its position as the premier supplier of tailor welded blanks and tailor welded coils.

Tailor Welded Blank Applications



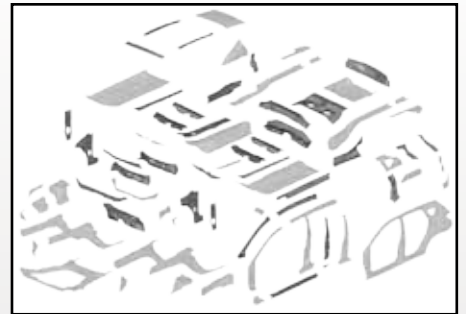
Tailor welded products provide specific product benefits:

- Exact grade, coating and gage of steel where it is needed.
- Cost reduction with part consolidation.
- Lighter weight and improved part performance.
- Optimized material utilization.
- Blank and coil fed products used in transfer press, tandem lines, progressive die and roll-forming operations.

Tailor Welded Coil Applications



- lower die & assembly investment
- material savings
- part weight savings
- improved part performance
- improved dimensional control



25 kg of potential weight savings with TWC in BIW

There are potentially 18 tailor welded blanks and 35 tailor welded coil applications in most automotive BIWs today. With increasing AHSS and the need to lower vehicle mass, tailored products offer a cost effective approach toward meeting vehicle program requirements for lower mass, lower investment and optimized cost.



TWB facilities are certified by ISO / TS 16949, ISO 14001 and Q1

TWB was created in 1992 as a joint venture between ThyssenKrupp Steel AG and Worthington Industries and has held an industry leading position since its creation. In addition, our parent company ThyssenKrupp Steel has 12 global tailored blank facilities throughout Europe and Asia that TWB has leveraged for technological and customer support. Combined, TWB and ThyssenKrupp Tailored Blanks are the largest and most advanced tailor welded blank company in the world.

TWB Company invites collaboration with customers on application projects to achieve cost effective weight savings

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TWB LOCATIONS



Monroe, MI - Greenfield opened 1995



Ramos Arizpe, Mexico – Opened in 2000



Puebla, Mexico – Opened 2001



Hermosillo, Mexico – Opened 2005



Prattville, AL plant – Opened 2007

