



WHITESSELL

Engineered Underbody Hangers and Wire Forms



Creative Solutions for

- **Tight Tolerances:** Whitesell exhaust and chassis hangers feature CNC bended and headed geometry that meet the tight tolerance required by today's demanding manufacturers.
- **Rapid New Product Development:** Whitesell's extensive in-house secondary capabilities allow for creative new design opportunities in the exhaust market with lead times that cannot be beat.
- **Cost Elimination:** Complete manufacture and supply of weldments, staked fasteners, and assembled components are part of Whitesell's core manufacturing and capabilities stack up. This broad range of capabilities quickly adds value to the product design and reduces costs by elimination of part numbers and assembly steps while ensuring high quality product.

Custom 3D configurations to meet your design requirements, from basic to the exotic.



Complete Capability

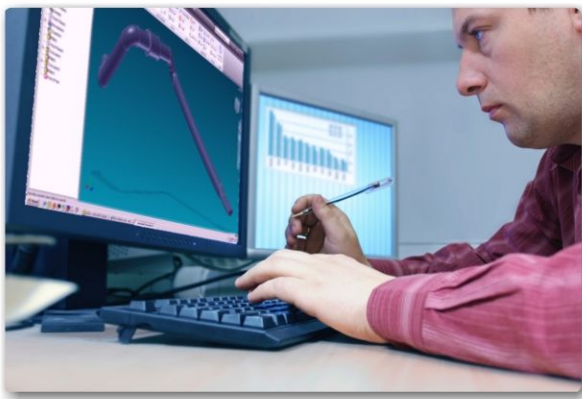
- Whitesell has extensive manufacturing experience in wide range of materials including low carbon steel, brass, copper, alloy steel, stainless steel in both solid rod and tube.

Whitesell Underbody Hangers are another example of how Whitesell delivers "Creative supply chain savings and solutions."

Contact Whitesell @ 1 800 826-3317 or underbodyhangers@whitesellcorp.com



Modeling and Manufacturing Solutions for wire and tube

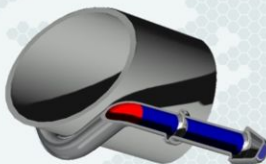


- Through the use of Solid Works™ and AutoCad™ Whitesell Engineers are able to clearly articulate design concepts to you and speed them through our in house tool design, R&D, manufacturing and testing.
- Whitesell's technical field sales team will be at your facility to aid in quick execution of your design.
- Our in house engineering team works closely with you and our technical field sales team in quick execution of your design, as well as advice on how to drive costs out of the product while adding value through innovative process capabilities.

Whitesell brings start-to-finish expertise to your project: from rapid product development and testing straight through to high precision CNC component forming.



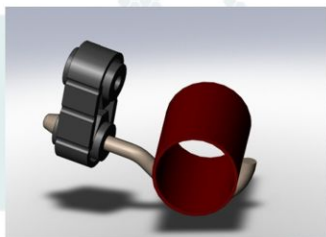
Initial 3D design modeling.



Design stress and performance analysis.



CNC production of component.



3D Surface Model



Manufactured Component



Manufacturing Capabilities

Capability	Wire Rod Based Processes	Tube Based Processes
Material sizes	.078"(2mm) to 1" (25.4mm)	Up to .500" (12.7mm)
Bending	CNC, Hydraulic, Servo, Pneumatic, Mechanical	
Flattening	Yes	Yes
Extruding	Yes	Yes
Heading/Upsetting	Multiple features, 2 blow (Hot and Cold)	
Holes	Pierce, Cross Drill, Punch	
Machining/Turning	CNC	
Threading/Knurling	Roll Form and Cut	Cut
Welding	MIG, TIG, Resistance	MIG, TIG
Component Assembly	Whitesell is a manufacturer and distributor for standard and custom fasteners, stampings, and hundreds of other assembly related products that can quickly be designed into your products.	



Precision CNC Wire & Tube Forming

