



# CONTUR<sup>®</sup> MODULAR SCAFFOLD

# BIL-JAX<sup>®</sup>



# CONTUR<sup>®</sup> MODULAR SCAFFOLD IS THE BEST ALL-AROUND SYSTEM ON THE MARKET.

Engineered for versatility, durability and strength, Bil-Jax Contur modular scaffold is a universal application system with professional performance. It's ideal for use on structures with complicated shapes, plans and elevations, and the perfect choice when angular flexibility is important.

Contur modular scaffold is cost effective and outperforms the competition. You can read more about the product's features and benefits. You'll also find additional information on our web site: [www.biljax.com](http://www.biljax.com). Or just give us a call at 800-537-0540 to find out how Contur modular scaffold can take your productivity to new heights.



Contur modular makes it easy to scaffold even the most difficult structures, such as the ones pictured above.

## EXPERIENCE FOR THE FUTURE

Since our beginning in 1946, Bil-Jax has earned a reputation for developing and producing the highest quality, most innovative scaffold systems available. Today, our line of 6,000 different finished parts makes us one of the premier scaffold manufacturers in North America and Europe.

To maximize the practical application of our products, Bil-Jax conducts intensive research and works in close cooperation with designers, craftsmen and scaffold erectors. We also use finite element analysis (FEA) and computer-controlled manufacturing processes to optimize safety, longevity and economy, and to ensure our systems are user friendly.

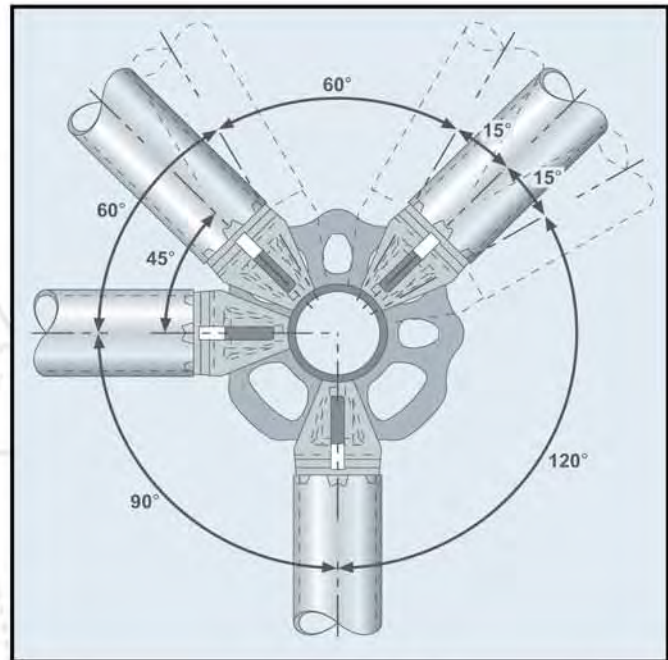
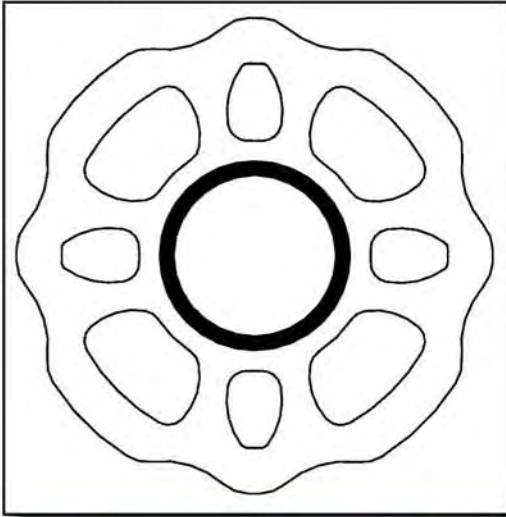
## BUILD YOUR REPUTATION WITH US

Quality ranks first at Bil-Jax in materials, price, performance, production, capacity, delivery and service. In fact, Bil-Jax has achieved accreditation to meet stringent ISO 9001 quality standards.

Beyond quality, you also get value-added benefits like safety training, engineering expertise and responsive customer service. In addition, our efficient systems are engineered with fewer parts to reduce set-up and dismantling time. Bottom line? Your Operation is more productive and more profitable.

# A MORE INTELLIGENT JOINT SYSTEM

At the heart of the Contur modular scaffold system is our patented rosette joint design. This unique plate has eight openings that allow up to eight horizontals and diagonals to be connected to each rosette. As a result, Contur modular scaffold offers incredible adaptability to meet the requirements of varied building elevations and plans.



## THE ADVANTAGE OF “AUTOMATIC ANGLES”

The Contur modular rosette joint is engineered with eight holes so that members connect quickly and easily at “automatic angles.”

When modular scaffold is being used on an uncomplicated, “normal” structure, scaffold horizontals connect to the rosette at 90° angles to ensure intersecting right angles. However, the joint also has four elongated holes that allow members to be connected at any angle between 30° and 60°.

That means Contur modular scaffold offers virtually unlimited angular adjustment and design, making it ideal for triangular, polygonal, and curved scaffold designs.

However, the advantages of this special rosette joint don't end there. Here are other ways the Bil-Jax system outperforms other conventional designs:

- Using finite element analysis (FEA), the size and material strength of the modular rosette have been optimized for the applied loads.
- The joint's exterior profile has wave-like hollows in areas of low applied load, allowing us to reduce the weight of the rosette by more than 10%.
- The simple, easy-to-use design enhances safety during erection and use.
- Strong, secure connections ensure joint stability.
- To expand safety reserves within the junction, Bil-Jax increased the height of the horizontal and diagonal connection heads and matched their profiles and wall thicknesses to the actual applied loads.

# SAFE & MANAGEABLE BY DESIGN

Contur modular scaffold is engineered to be safer to erect and safer to use. How? By simplifying the system and maximizing the performance of each individual component. As a result, Bil-Jax Contur modular provides numerous advantages.

## MANAGEABLE COMPONENTS

- Only four basic parts: high-quality prefabricated verticals, starters, horizontals, and diagonals.
- Flexible assembly can accommodate virtually every height, length, width, and combination of angles.
- Rugged components are engineered for fast, safe assembly and long-term use.

## SAFE CONNECTIONS

- Load-optimized rosette accepts up to eight connections in one plane.
- Drop the wedge in position and rosette immediately secures the horizontals to vertical.

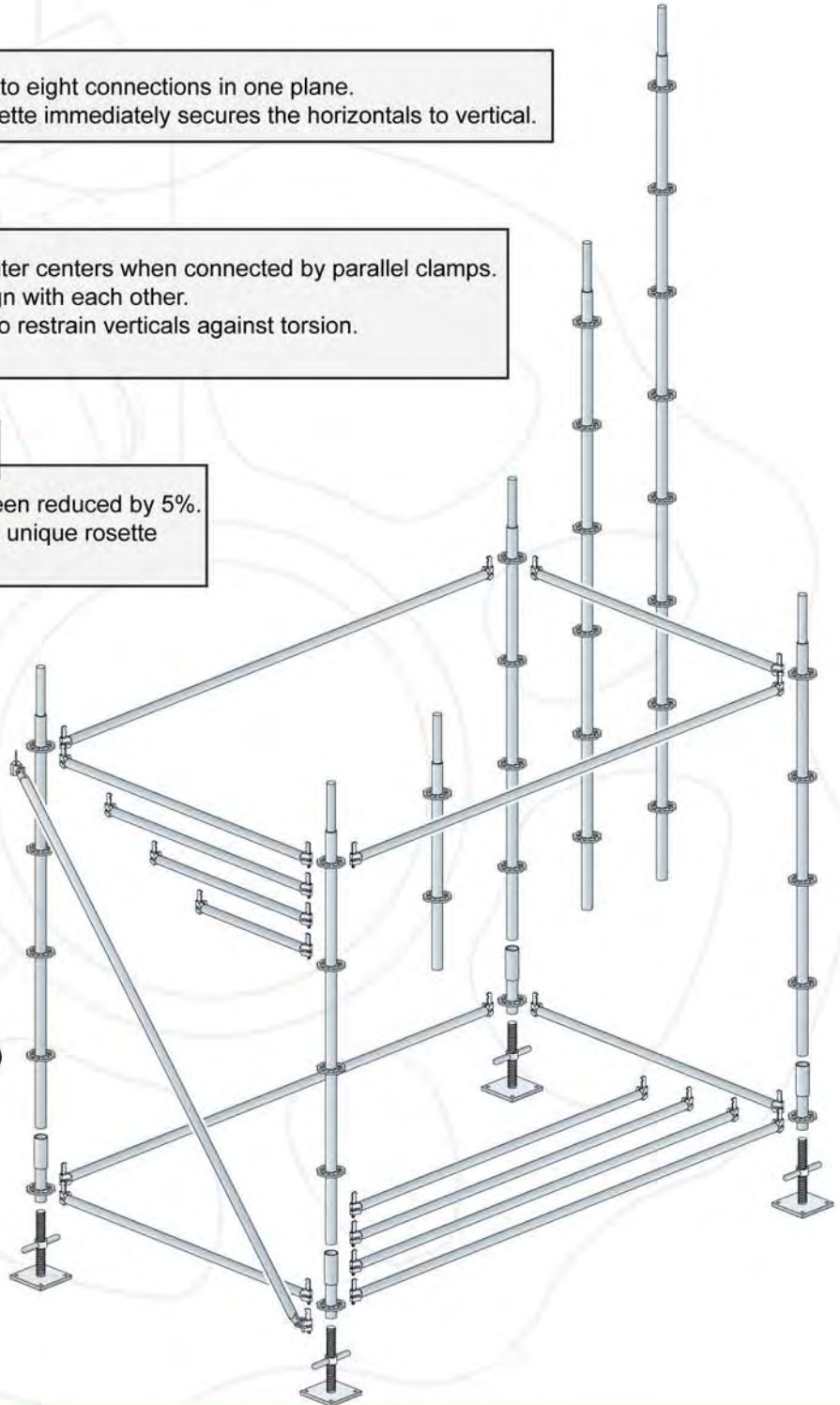
## CLOSE NEIGHBORING

- Rosette permits neighboring at tighter centers when connected by parallel clamps.
- Ensures verticals automatically align with each other.
- Provides an easier and safer way to restrain verticals against torsion.
- Allows quicker handling.

## CONVENIENT & COMPACT

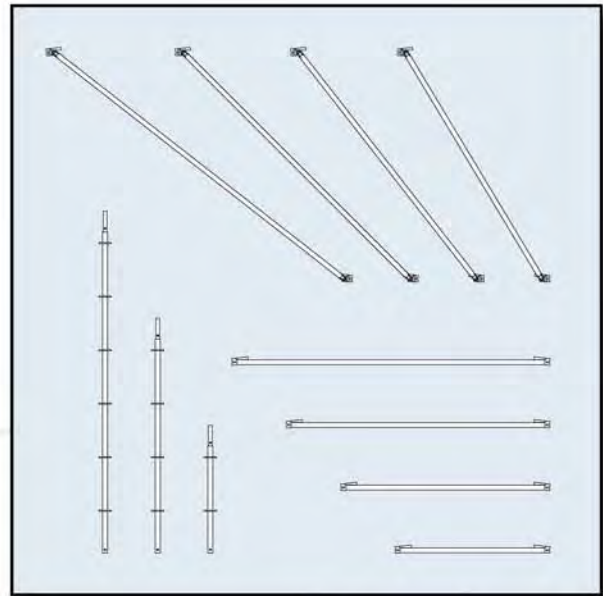
- Volume of stacked verticals has been reduced by 5%.
- Increased rolling resistance due to unique rosette shape makes storing safer.

The modular nature of the Contur scaffold allows a wide variety of vertical and horizontal positioning. Vertical positioning is varied by selecting one of the many available feet/inch and metric length horizontals. Horizontal positioning is varied by utilizing any of the available rosettes, positioned every .5m (19 3/8")



# BETTER PERFORMANCE FROM FEWER PARTS

Contur modular scaffold proves that less is more. Using just four basic components - verticals, starters, horizontals and diagonals - the system offers you the ultimate in versatility and performance, and because there are so few parts, assembly couldn't be easier.



## INSTALLATION

- The base begins with a single rosette starter. Horizontals are connected to the rosette. Alignment is automatically achieved when the horizontal wedge is tapped by a hammer.
- Once the base created by the starters and first lift of horizontals is complete and level, additional lifts are created by inserting verticals into the sockets provided by the starters.
- A total of seven different vertical heights are available. Our three basic verticals include lengths of 1m (3'3"), 2m (6'6"), and 3m (9'9"). Rosettes are spaced at .5m (19 3/8") intervals along the vertical's height.
- Up to eight horizontals and diagonals can be connected at any single point.
- Verticals, horizontals and diagonals are all secured before scaffold planks are added. Scaffold planks are available in a wide variety of imperial and metric lengths.
- Vertical diagonals carry wind loads and stabilizing forces to the support points.
- Diagonals are available in commonly used lengths. They connect to the verticals using elongated holes in the rosette.



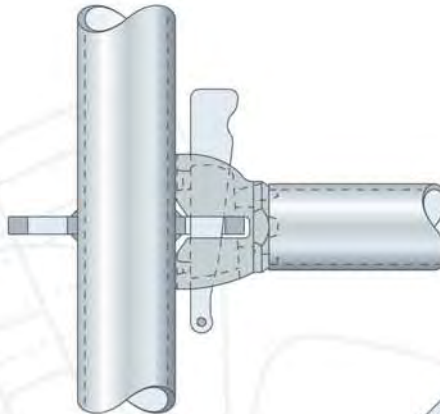
## COMPATIBILITY PLUS

Contur modular scaffold is compatible with most Bil-Jax "all around" system scaffolds. That means the Contur system can be used as a support scaffold for modular roofs.

# RAPID, ACCURATE ERECTION

Contur modular scaffold eliminates time-consuming layout procedures. Assembly is quick and accurate because the rosette hole patterns ensure that right angles are precisely aligned.

Connections between horizontals, verticals and diagonals are also designed for speedy erection:

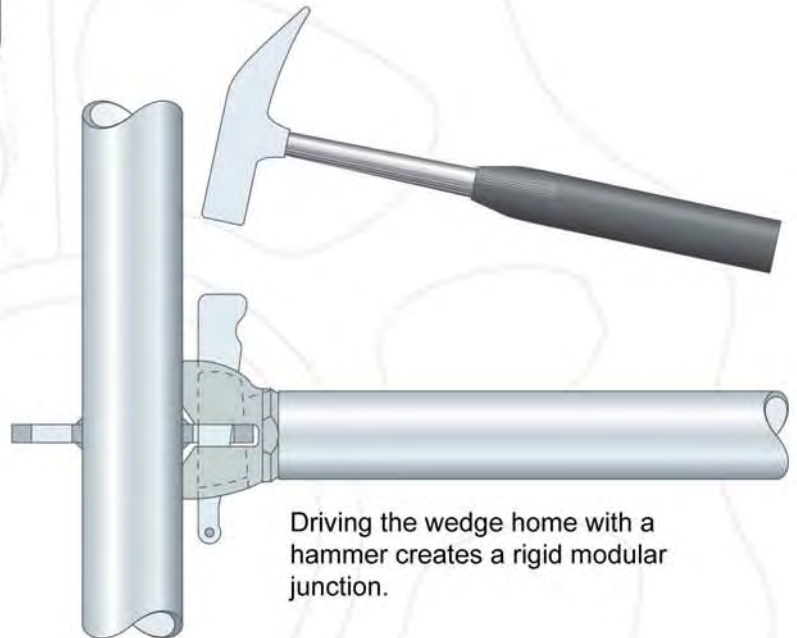


A secure connection between the vertical and horizontal is formed as soon as the wedge is positioned through the rosette.

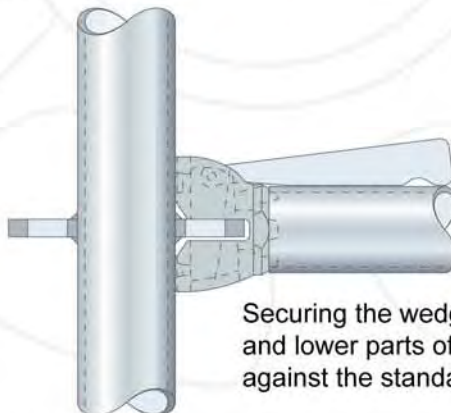
- Contur horizontals and diagonals are fitted with a wedge housing that is pushed over the rosette. During erection, the wedge is positioned parallel to the horizontal. A rivet at the tip of the wedge secures it within the housing.

- The horizontal is held securely as soon as the wedge is in place. In fact, the wedge creates a tight connection between the rosette, horizontal and vertical, even without the use of a hammer.

- Tapping the wedge with a hammer creates a secure connection by forcing the upper and lower parts of the wedge housing against the vertical.



Driving the wedge home with a hammer creates a rigid modular junction.



Securing the wedge forces the upper and lower parts of the wedge housing against the standard.

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# TECHNOLOGY, QUALITY & SERVICE



At Bil-Jax, our state-of-the-art technology and design capabilities ensure compliance with standards required by today's U.S. and European scaffold industries. Our expertise extends from materials and testing to site controls and more, which is why the Contur modular scaffold system can be used universally for all access applications.

## EXCEPTIONAL QUALITY CONTROL

Outstanding performance and quality are inherent characteristics of every Contur modular scaffold system. Connection heads are precision-cast components. Rosettes are stamped from high quality steel.

## PRACTICAL, SUPERIOR DESIGN

The Contur modular scaffold system offers enhanced production and improved assembly precision. These practical improvements boost safety margins and demonstrate our commitment to pro-actively develop new products and solutions to help advance the global scaffold industry.

## BETTER BENDING MOMENT

By raising the height of the wedge housing and maximizing the wall profile and thickness, Bil-Jax provides a higher safety factor. That means we've significantly increased the bending moment and shear force capacities - a distinct safety bonus with the Contur modular scaffold line.

## TECHNICAL SERVICE AND EXPERTISE

Our experienced technical staff can provide you with specimen calculations for facade, interior, and load bearing scaffold. So when you have particularly demanding tasks, think of Bil-Jax as your partner. We'll help you find the most technically advanced cost-effective solutions.



# PRACTICAL EXAMPLES

With its flexible modular units and unlimited angular capabilities, the Contur modular scaffold system makes it easy to scaffold a variety of complex building plans and elevations. In other words, it's the universal scaffold system for all applications in any type of industry.

- Construction
- Maintenance
- Energy production
- Overhead cabling
- Chemical plants
- Refineries
- Aircraft
- Shipyards
- Most building trades



Scaffold for complicated structures like this pit head lift tower doesn't have to be complex. In fact, the Contur modular system is engineered with only four basic components, so assembly is always simple and quick.

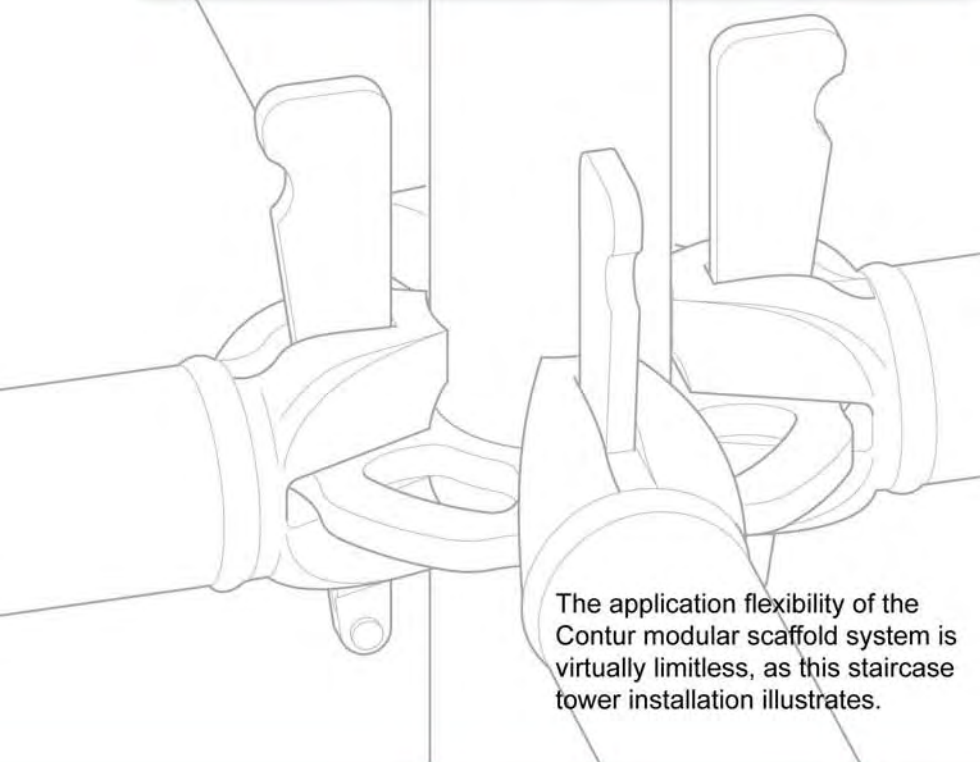


# THE SKY'S THE LIMIT



(On The Cover)

Assembled in six weeks, the 150 tons of Contur modular scaffold surrounding this airport tower was erected in five sections. A room overhangs the tower, 98 ft. up and at a 30° angle, so the scaffold required numerous intersections, corners and angles to handle the varied depths and widths. Extremely adaptable, Contur modular scaffolding offers unlimited angular adjustment for angles that deviate from 90°.



The application flexibility of the Contur modular scaffold system is virtually limitless, as this staircase tower installation illustrates.



**800-794-1112**

# BASIC COMPONENTS

## TECHNICAL SPECIFICATIONS & APPLICATIONS

### VERTICAL COMPONENTS

Hot-dipped galvanized tubing, 1.9" diameter with welded rosettes at .5m (19 3/8") centers.

- **VERTICALS** - (fig.1) Each rosette takes up to eight horizontals, diagonals, brackets or other parts. Each vertical provides pinning holes so scaffold can be lifted by crane.

- **VERTICALS W/ REMOVABLE INSERT PINS** - (fig.2) Handles high tension loads (hanging applications) and allows the inserts to be removed for stages, shoring and passages.

- **STARTER (COLLAR)** - (fig.3) Fits onto the leveling jack on initial setup. Allows for easy leveling prior to erection.

- **CASTER ADAPTER** - (fig.4) For use with 8" and 12" plate casters.

- **SWIVEL LEVELING JACK** - (fig.5) Threaded tube, 1.5" diameter.

- **STANDARD LEVELING JACK** - (fig.6) Hot-dipped galvanized, 1.5" diameter tube 6" x 6" plate. Trapezoidal fast-screw thread with safety stop prevents nut from unscrewing completely.

### HORIZONTAL COMPONENTS

Hot-dipped galvanized tubing, 1.9" diameter with wedge housing welded at ends.

- **HORIZONTALS** - (fig.7) Provide support for plank, horizontal bracing, and guardrails for perimeter of scaffold.

- **TRUSSES** - (fig.8) For heavier loads, trusses provide plank support in lengths of 5' to 10' for imperial lengths; and 2m, 2.5m, and 3m in metric lengths.

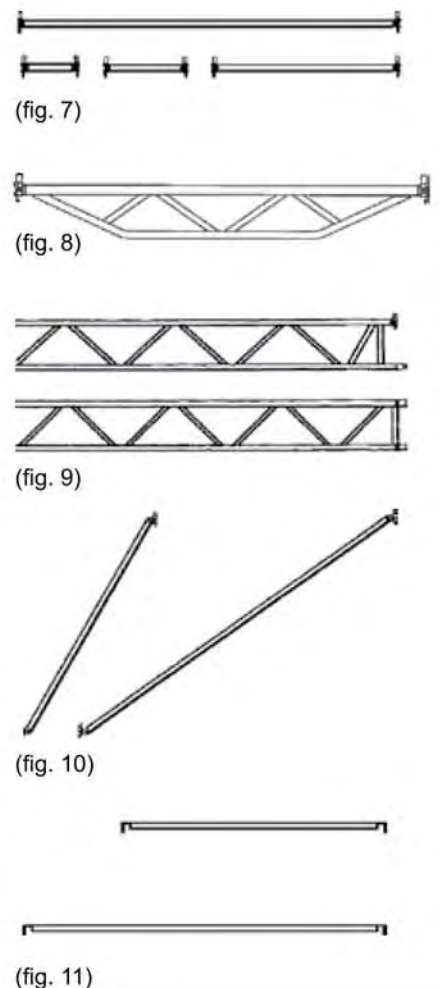
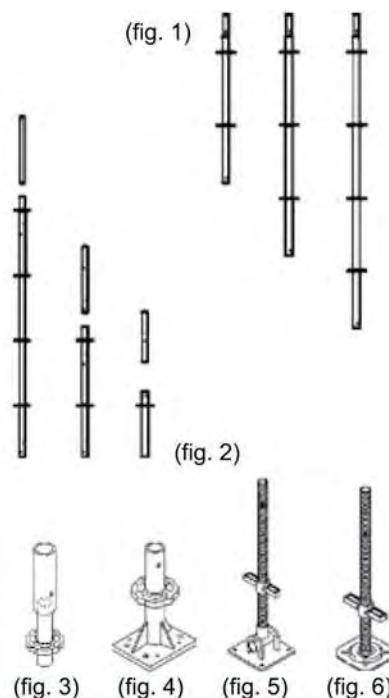
- **LATTICE GIRDERS** - (fig.9) Designed for large spanning applications, lattice girders are available with or without Cantur connectors. Imperial lengths available in foot sizes from 12' to 26'. Metric lengths available in .5m increments from 4m to 7.5m.

### DIAGONALS

Hot-dipped galvanized tubing, 1.9" diameter

- **VERTICAL DIAGONALS** - (fig.10) Provides scaffold bracing. A swivel connector positioned at each end of the tube provides quick assembly.

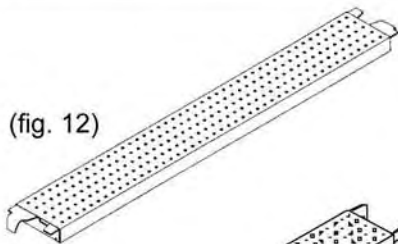
- **HORIZONTAL DIAGONALS** - (fig.11) Hooks on each end ensure speedy assembly without pins or bolts. Use to brace tall structures without scaffold planks and to ensure bays are aligned and square.



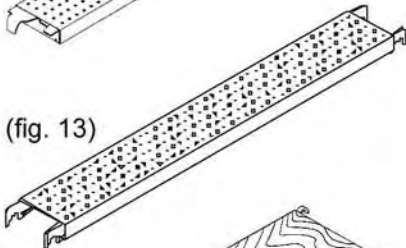
# PLATFORMS & ACCESSORIES

## PLATFORMS

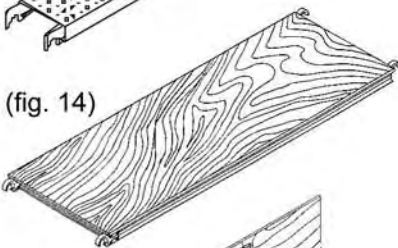
- **FLUSH STEEL** - (fig. 12) 9.5" wide flush design supports 50-75 lb/sq ft. depending on the length of the platform.
- **RAISED STEEL** - (fig. 13) 9" wide raised design supports 50-75 lb/sq ft. depending on the length of the platform.
- **TUF-N-LITE** - (fig. 14) 19" wide aluminum / plywood walkboard supports 50-75 lb/sq ft. depending on the length of the platform.
- **TUF-N-LITE w/ ACCESS DOOR** - (fig. 15) Platform is 28" plywood on aluminum rail.



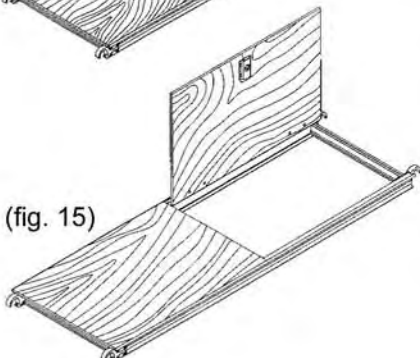
(fig. 12)



(fig. 13)



(fig. 14)



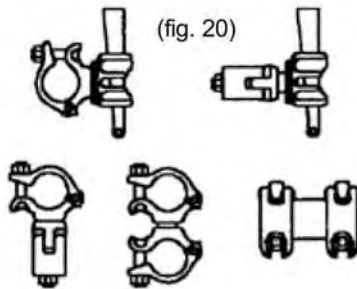
(fig. 15)

## ACCESSORIES

- **SHORING CLAMP** - (fig. 16) A forged clamp welded to the end of a leveling jack.
- **SHORING HEAD** - (fig. 17) For shoring, 7.75" wide.
- **END CLAMP** - (fig. 18) Attaches verticals to horizontals.
- **ATTACHMENT CLAMP** - (fig. 19) Attaches horizontals to verticals
- **HALF-CLAMPS w/ CONTUR MODULAR ENDS** - (fig. 20) Connects 1.9" diameter tubes and rosettes on the verticals.
- **CONTUR ROSETTE PLATE** - (fig. 21) For welding the tubes or sheet metal.



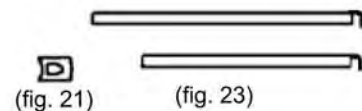
(fig. 16) (fig. 17) (fig. 18) (fig. 19)



(fig. 20)

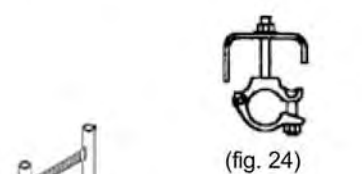
## ACCESSORIES

- **SCAFFOLD WALL TIE** - (fig. 23) Galvanized steel with angled hook. Attaches to the verticals using straight or swivel clamps.
- **SCAFFOLD TUBING** - Galvanized steel, 1.9" diameter.
- **BEAM CLAMP** - (fig. 24) For clamping the structural steel sections.
- **LADDER** - (fig. 25) Provides access to platforms.
- **LADDER BRACKET** - (fig. 26) Attaches ladder to scaffold.
- **STEM CASTER** - 8" diameter available in 500 and 1,000 lb capacities. Leveling extension available.
- **PLATE CASTER** - 12" diameter supports up to 2,000 lb. Adapter required with the use of plate caster.

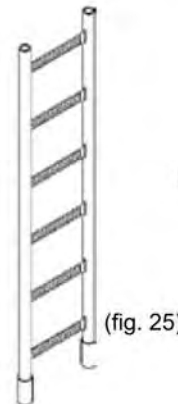


(fig. 21)

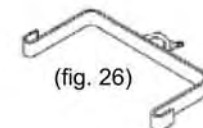
(fig. 23)



(fig. 24)



(fig. 25)



(fig. 26)

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