



**THE BACKBONE OF  
EVERY BUILD**

**Leading Manufacturer of MS Pipes | Scaffolding | Formwork & Shuttering**



## ABOUT US

**Transforming Construction with Quality MS Tubes and Scaffolding Materials**

**Vision** : To attain prominence and leadership in the manufacturing of Scaffolding and Shuttering materials in India by leveraging the latest technology.

**Mission** : Embrace innovation and technology in our operations, striving to exceed customer expectations consistently.

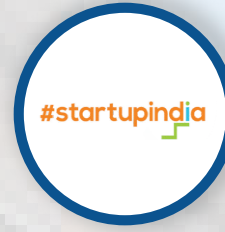
Foster a healthy and sustainable environment for our employees and stakeholders through continuous improvement.

Champion sustainability across all aspects of our business operations.

**Values** : Sustainability | Customer-Centric Approach | Employee Well-being

Based in the industrial hub of Baidyabati, Hooghly, Avanza Steel boasts a state-of-the-art manufacturing facility that stands as a testament to their dedication to excellence. This facility serves as the heart of their operations, producing top-notch materials that are reshaping the way construction projects are executed in India.





Avanza Steel's vision is clear: to play a pivotal role in the growth and development of India's construction and infrastructure sectors. With a strong commitment to quality, safety, and innovation, they aim to be a leading supplier of MS Tubes and Scaffolding Materials that empower construction projects across the nation.

**Product Excellence:** At Avanza Steel, quality is non-negotiable. Our dedication to delivering the finest MS Tubes and Scaffolding Materials is evident in every product we manufacture.

**Supporting India's Growth :** As India continues to witness rapid urbanization and infrastructure development, Avanza Steel sees itself as a catalyst for positive change. By providing reliable and durable scaffolding, shuttering and formwork solutions, we aim to enhance the efficiency and safety of construction projects across the country. This, in turn, contributes to the nation's progress by ensuring the timely completion of infrastructure and construction initiatives.

**Sustainability Commitment :** Avanza Steel is not just about growth; it is about sustainable growth. They are committed to eco friendly practices and responsible sourcing of materials. Their manufacturing processes are designed to minimize waste and reduce the environmental impact, aligning with India's broader sustainability goals.





## WE MANUFACTURE

### 1 CUPLOCK SCAFFOLDING

- Vertical Cuplock
- Horizontal Ledger
- MS Working Platform (Jaali)
- Anti Skid MS Plank
- Adjustable U Head
- Adjustable Base Jack

### 2 SHUTTERING MATERIALS

- Adjustable Props
- Adjustable Span
- MS Channel / MS Angle / MS Beam
- Shuttering Plywood
- Sheet Pile

### 3 FORMWORK AND SHUTTERING

- Pier Cap Steel Shuttering
- Shuttering Plates
- Haunch Plates
- Girder Shuttering

### 4 MATERIAL HANDLING EQUIPMENTS

- MS Scaffolding Tower
- Scaffolding Staircase
- Builder Hoist
- Aluminium Ladder

### 5 SCAFFOLDING ACCESSORIES

- Pipe Clamps
- Joint Pin
- Tie Rod
- Waller Plate
- Prop Sleeve
- Sleeve Coupler
- Anchor | Wing Nut
- Gogo Bolt & Machine
- Box-Type Ladder Clamp

### 6 SCAFFOLDING PIPES

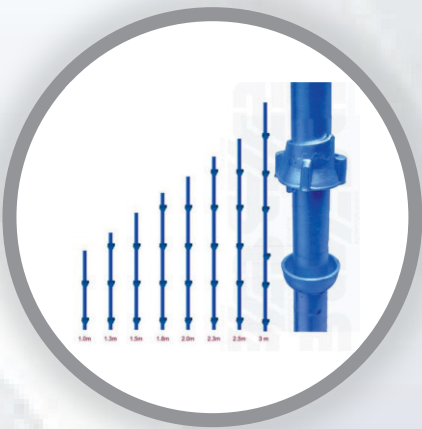
- MS ERW Pipes  
As per IS 1161  
Also Available in Painted



# CUP LOCK SCAFFOLDING

## VERTICAL CUPLOCK:

AVANZA Vertical Cuplock are made from 48.3 mm diameter, with a thickness of 3.00 mm high grade steel tube. Also, bottom cup is welded at the pre-located intervals (i.e., 500 mm or 1000 mm) with a sliding top cup.



VERTICAL CUPLOCK		
Product Code	Length (in meter)	Weight (in Kgs)
AV-05	0.50	2.30
AV10	1.00	4.60
AV-15	1.50	6.90
AV-20	2.00	9.20
AV-25	2.50	8.70
AV-30	3.00	13.70

## HORIZONTAL LEDGER:

AVANZA Horizontal Ledger are made from 48.3 mm diameter, with a thickness of 3.00 mm high grade steel tube. The ledger blades are welded with the help of MIG welding at both ends, giving it strength, which is the best quality in the industry.



HORIZONTAL LEDGER		
Product Code	Length (in meter)	Weight (in Kgs)
AL-05	0.50	2.05
AL--10	1.00	3.70
AL-15	1.50	5.50
AL-20	2.00	7.20



ADJUSTABLE BASE JACK



MS BASE PLATE



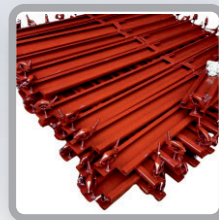
MS WORKING PLATFORM



MS PLANK  
(also available in GI)



ADJUSTABLE U HEAD



TELESCOPIC  
TOE GUARD



# SHUTTERING MATERIALS

## Adjustable Prop Jack

AVANZA Adjustable Prop Jack is made out of MS ERW Pipes with inner dimension of 48.3 mm (40 NB) 3.00 mm thickness and outer dimension of 60.5 mm (50 NB) 3.2 mm thickness, along with roll threaded Prop Sleeve and L&T nut. The end-product is dip painted for longevity.



HEAVY DUTY PROPS SPECIFICATION WITH WEIGHT		
Product Code	Size	Weight
APJ-22	2.00/3.65	17.5 Kgs
APJ-23	3.00/4.65	21.0 Kgs
APJ-33	3.00/5.65	25.5 Kgs

## Adjustable Span

AVANZA Adjustable Span are made up of 14/12 gauge MS Seet. Bottom of the outer member is made up of 50\*6 mm MS Plate and the inner member is produced using 40\*40\*6 mm T angle. Lattice is made of 10 mm diameter MS round bar. Bearing angle are of 75\*75\*8 mm size. The end-product is dip painted for longevity.



ADJUSTABLE SPAN SPECIFICATION WITH WEIGHT		
Product Code	Size	Weight
AS-23	2360 mm - 4250 mm	40.0 Kgs
AS-33	3000 mm - 5500 mm	50.0 Kgs



MS ANGLE



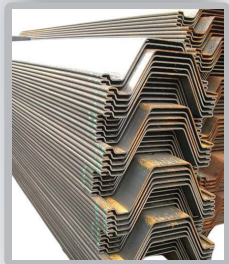
MS BEAM



SHUTTERING PLYWOOD



MS CHANNEL



SHEET PILE



# FORMWORK AND SHUTTERING

## An Overview

Formwork and shuttering are crucial in construction, providing temporary support during concrete casting to ensure structures achieve desired shape and strength. Crafted from premium materials, these systems offer durability and rust resistance.

### Key Features of AVANZA Formwork & Shuttering

- ✓ **Excellent Design for Ideal Construction:** Engineered for optimal performance in diverse construction scenarios.
- ✓ **Easy-to-Handle Modular Panels:** Facilitates quick assembly and disassembly, reducing time and labor costs.
- ✓ **Complete Support System:** Includes tie rods with anchor nuts and a powerful waler support system, enhancing stability and alignment.

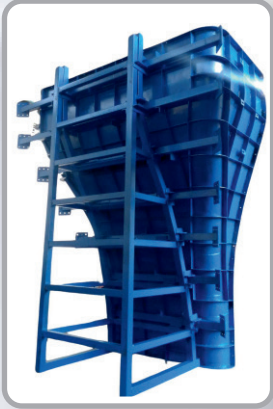
## USAGE IN CONSTRUCTION

### Girder Shuttering

Bridge Construction	Tunnels and Underpasses	High-Rise Buildings
Supports casting of concrete bridge decks and piers.	Forms concrete lining, ensuring smooth, stable surfaces.	Essential for forming concrete floors, beams, and columns.

### Pier Cap Steel Shuttering

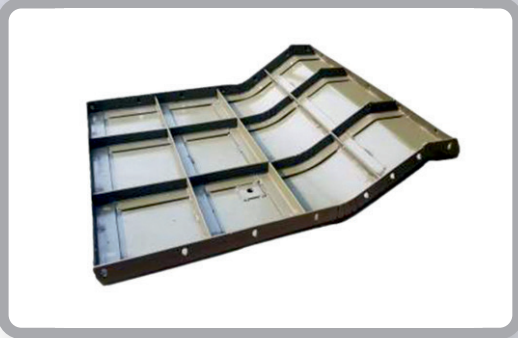
Bridge Construction	Elevated Highways	Railway Overpasses
Shapes pier caps that support bridge decks.	Provides stability and strength for highway sections.	Ensures safe, stable rail infrastructure.



**PIER CAP STEEL SHUTTERING**



**SHUTTERING PLATES**



**HAUNCH PLATES**



**GIRDER SHUTTERING**



## MATERIAL HANDLING EQUIPMENT



### SCAFFOLDING TOWER:

Scaffolding Tower is made out of either H-frame or Cuplock Scaffolding Materials. These towers are portable, and come with wheels (lockable). It can be extended upto a height of 8 meters.



### SCAFFOLDING STAIRCASE:

Our team will help you create custom scaffold stair towers to fit your needs or we can manufacture directly from your specifications. It can be extended upto a height of 15 meters.



### BUILDER HOIST:

AVANZA Steel Pvt Ltd introduces the Builder Hoist, a durable and efficient solution for material handling in construction. Crafted from premium materials, it boasts a high lifting capacity and advanced safety features, including overload protection and secure locking mechanisms. Its user-friendly controls and compact design ensure easy setup and operation, enhancing on-site productivity and safety.



### ALUMINUM LADDER:

An aluminum ladder is a lightweight yet sturdy access tool commonly used in scaffolding systems for safe and efficient vertical movement. It provides workers with a secure means to climb up and down scaffolding structures during construction, maintenance, or repair work.





# SCAFFOLDING ACCESSORIES



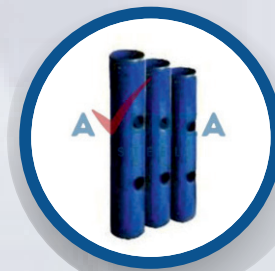
**TIE ROD**



**ANCHOR NUT**



**WING NUT**



**JOINT PIN**



**FORGED SWIVEL CLAMP**



**FORGED FIXED CLAMP**



**SHEET METAL SWIVEL CLAMP**



**SHEET METAL FIXED CLAMP**



**PROP SLEEVE**



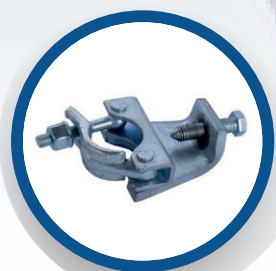
**SLEEVE COUPLER**



**GOGO BOLT**



**GOGO MACHINE**



**BEAM-CLAMP**



**BRC CLAMP**



**BOX TYPE LADDER CLAMP**



**WALLER PLATE**

# SCAFFOLDING PIPES

We manufacture scaffolding pipes under the brand name "AVANZA" as per IS 1161:2008 All our pipes are made from TATA/SAIL HR Coils

Steel Tubes for Structural Purpose conforming to IS: 1161-1996.

Application: Electrical Poles & Telecom Tower.

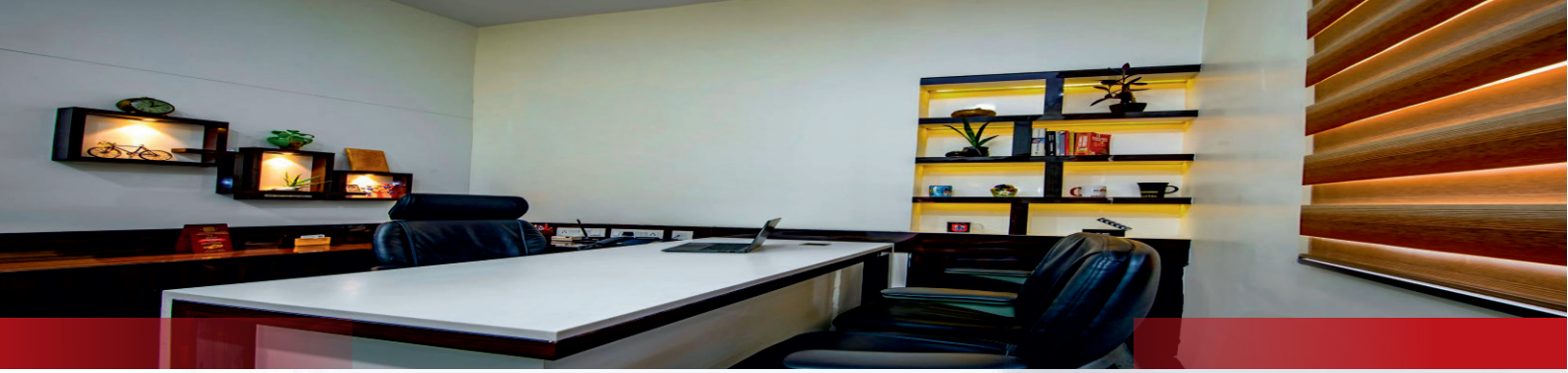
NB & Series mm	Outside Diameter mm	Thickness mm	Nomina weight of Block Tubes plain end		Area of Cross Section cm <sup>2</sup>	Moment of Inertia cm <sup>4</sup>	Madatus of Section cm <sup>5</sup>	Radius of gyration cm
			Kg/m	M/Ton				
15L	21.3	2	0.947	1056	1.21	0.57	0.54	0.69
M		2.6	121	826	1.53	0.69	0.64	0.66
H		3.2	1.44	694	1.82	0.75	0.7	0.55
20L	26.9	2.3	1.38	725	1.78	1.36	1.01	0.87
M		2.6	1.56	641	1.98	1,48	1.1	0.86
H		32	1.87	535	2.38	17	126	0.84
25L	33.7	2.6	1.98	505	2.54	3.09	1.83	1.1
M		32	2:41	415	3.06	3.61	2.14	1.08
H		4	2.93	341	3.73	419	2.48	1.05
32L	42.4	2.6	2.54	394	3.25	6.47	3.05	141
M		3.2	31	323	3.94	7.62	3.50	1.39
H		4	3.79	264	4.82	8.99	4.24	1.36
40L	48.3	2.9	3.23	310	413	10.7	4.43	1.61
M		3.2	3.56	281	4.56	11.59	4.8	1.59
H		4	4,37	229	4.56	13.77	5.7	1.57
50L	60.3	2.9	4.08	245	5.23	21.59	7.16	2.03
M		3.6	5.03	199	6.41	25.88	8.58	2
H		4.5	6.19	162	7.88	30.9	102	1.98
65L	76.1	3.2	5.71	175	7.32	48.79	12 82	258
M		3.6	6.42	156	8.2	54.02	14.2	2.57
H		4.5	7.93	126	101	65.12	17.1	2.54
BOL	88.9	3.2	6.72	149	8.61	79.23	17.82	3.03
M		4	8.36	120	10.7	96.36	21.68	3
H		4.8	9.9	101	12.7	112.52	25.31	2.98
90L	101.6	3.6	8.7	115	11.1	133.27	26.23	3.47
M		4	9.63	104	12.3	146.32	28.8	3.45
H		4.8	11.5	87	14,6	171,44	33.75	3.43
100L	14.3	3.6	9.75	103	12.5	192.03	35.6	3.92
M		45	12.2	82	15.5	2343	41	3.89
H		5.4	14.5	69	18.5	274.5	48	3.85

WEIGHT	TOLERANCE
Single tube	±105%
10 Ton lot	±7.5%

TOLERANCE
1. On outside diameter up to 6 Including 48.3 mm 0.4 mm/-0.8 mm
2. Over 48.3 mm=1th

THICKNESS
For all sizes
Welded tubes

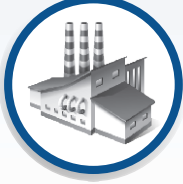
TOLERANCE
±10%



# WHY AVANZA STEEL

## Key Advantages

At Avanza Steel, we believe in creating lasting partnerships with our clients by delivering outstanding value and service. Here are the key reasons why choosing Avanza Steel is a smart decision for your scaffolding needs:



FEATURE	BENEFITS
<b>Dedicated Customer Relationship Officer</b>	Each client is assigned a dedicated Customer Relationship Officer (CRO) who provides personalized service, ensuring all your needs and concerns are addressed promptly and effectively.
<b>Production Management System</b>	Our state-of-the-art Production Management System keeps you updated on the status of your orders, ensuring timely delivery and transparency throughout the manufacturing process.
<b>Premium Raw Materials</b>	We use only the finest raw materials in our manufacturing process, sourced from reputable suppliers.
<b>High-Quality Consumables</b>	All consumables used in our manufacturing process are from well-known, respected brands.
<b>Top Manufacturer in Eastern India</b>	As the leading scaffolding manufacturer in Eastern India, Avanza Steel is trusted by numerous construction companies and contractors.
<b>Integrated Manufacturing</b>	Our integrated manufacturing facilities are designed to optimize production efficiency and quality control.

# AVANZA STEEL PVT. LTD.

Trusted Across the Nation:

AVANZA Steel Pvt Ltd  
supply states in  
India



## FACTORY ADDRESS

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