



FORMWORK
SCAFFOLDING
TUBES
ROLL-FORMING
FORGING



*FORMWORK
SCAFFOLDING
SYSTEMS*

ERW Steel
Pipes & Tubes

2024

SINCE'2000



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ABOUT US

WTD Industries is considered as one of the major manufacturers & suppliers of Scaffolding and Formwork in the Middle East, GCC countries and North Africa.

WTD is offering wide range of services such as formwork planning- including project analysis, detailed formwork study, initial cost estimation & computer-aided formwork planning with structural calculations-design, manufacturing, engineering services, sales, rental business & technical support after sales.

All WTD products adhere to international standards and undergo rigorous laboratory testing, including tests for safe working load requirements, deformation resistance, damage resistance, tensile strength, and stress tests.

In 2000, WTD Industries began its journey as a small steel factory in Tanta, Egypt, focusing on decorative steel frames under the name Nefertiti Forge. Over the following decade, our focus shifted towards scaffolding and formwork manufacturing, driven by collaboration with esteemed partners in the construction industry.

By 2010, WTD Industries had established itself as a prominent supplier of scaffolding and formwork in the GCC countries and North Africa. Our comprehensive production facility, spanning over 30,000 square meters in the Beni Sweif Industrial area of Egypt, was home to a workforce of over 150 engineers, technicians, and laborers.

In 2014, as part of our strategic growth plans, we inaugurated the WTD Misr factory in the Hamriya Free Zone of the UAE. This expansion aimed to bolster our sales network, meet market demand, and streamline material delivery across the Gulf region.

By 2017, furthering our capabilities, we established another factory in the 10th of Ramadan in Sharqia, Egypt, dedicated to scaffolding accessories. These strategic moves align with our ongoing mission to provide comprehensive scaffolding solutions to the global market.

In 2023, The road was paved to WTD Industries to flourish in Saudi Arabia, WTD Industries established شركة وتد حلول الانشاء المحدوده WTD Construction Solution LM. Company with two giant stores in Jeddah & Riya, then successes continued.

Such a success is the result of dedication and team spirit.

WTD FORMWORK & SCAFFOLDING SYSTEMS.

Over 20 Years of Trust, WTD remains offering the most economical formwork solutions for any types of construction project.

The values of our strong specialists & workforce are reliability, Accountability ,proficiency & highest commitment.

WTD perceives our team as an asset and a trustworthy success partner.

Customers satisfaction is our utmost goal.

As we measure our achievements against the success of our customers and their satisfaction by offering the most economical Formwork & scaffolding solutions.

Digitalization & Disruptive Innovation are WTD fundamental structures for sustainable success.

WTD organizational structure & consistent enthusiasm facilitate our local presence in many markets, our representatives are capable of providing the best services with excellence & maintain strong connections with our loyal customers.



M. Bastawesy

Eng. Mostafa Bastawesy
WTD President & CEO

WTD CORPORATION

EGYPT



UAE



KSA



INDIA



WTD Network

HEADQUARTER

El Sharqia Govern, Industrial Area- A5-10th of Ramadan city, Plot No.175.



PIPE, COLD-FORMING & SCAFFOLDING
FACTORIES



Beni Sweif Govern, Industrial Area, Metal Sector, Bayad Al-Arab,
Plot No. 26.

ERW Steel Pipes & Tubes



FACTORY & STORES

Wtd Factor Extends Over 36,000m² (30,000m² In Egypt and 6000m² In UAE).



WTD ERW STEEL PIPES & TUBES

WTD ERW Steel Pipes are wide range of pipe products providing a total solution to customers fluid transfer needs. In Oil & Gas, Petrochemical & water piping sectors beside Agricultural & Construction Sectors.

WTD ERW Steel Pipes are produced with different sizes starting from ½" up to 3" with maximum thickness up to 4.00 mm, conforming to the most popular and international pipes standards such as EN 10025.



MAIN FEATURES

Electrical Resistance Welding (ERW).

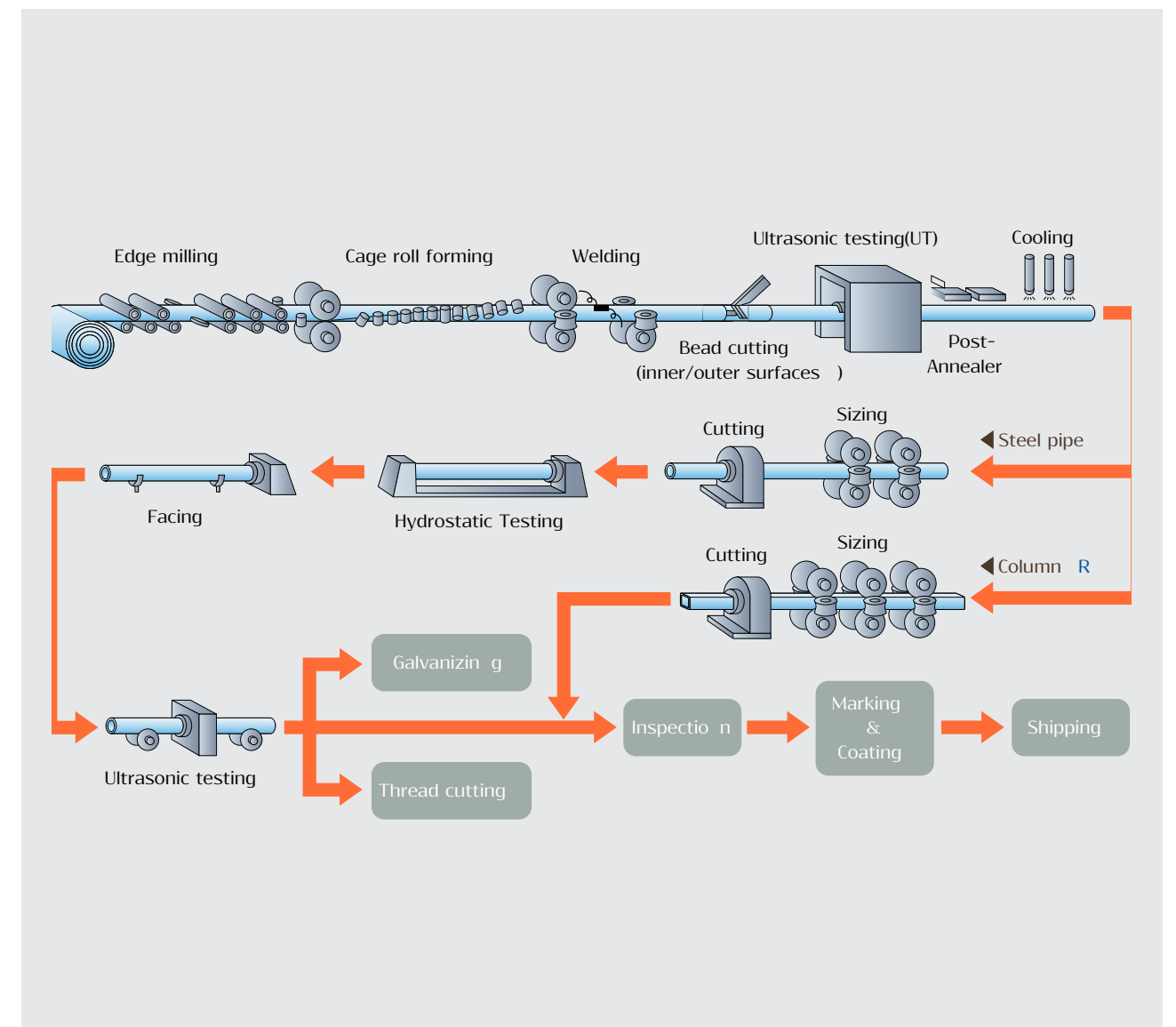
A controlled high precision welded steel pipes formed by rolling hot rolled coil (HRC) according to EN 10111, EN 10025 and galvanized coils according to EN 10346 and welding is the seam with High Frequency Induction Heating (HFI) process.

Pressure is used to forge the material under elevated temperature to melt together, and no filler material is added to the weld (only Forging).

The welding apparatus contains an induction coil that is energized with a high-frequency electric current. This generates a high-frequency electromagnetic field that acts on work piece with no contact between the coil and the pipe surface.



Manufacturing Flowchart



PRODUCTS INFORMATION

Description	ERW CS Pipes Longitudinal HFI Welded Pipes
Size Range	½ inch - 3 Inches
Specifications	ASTM A53 GR-A / ASTM A53 GR-B BS 387 (M.L UL6, EN10219-1/2 / EN-10255).
Thickness	UP to 4 mm
Length	12 - 3 m / Special Lengths Could be Provided With Special Arrangements
End Finish	Bevel End (BE) Plain End (PE)
Surface Condition &Insulation	Mill finish (uncoated) Galvanized

Materials Properties

Standard Specification	Grade	Chemical Composition(Max%)				Mechanical Properties (MPa)			
						Yield Strength		Tensile Strengt	
		C MAX	Mn) (Max	P (Max	S (Max	Min	Max	Min	Max
ASTM A 53	G-A	0.25	0.95	0.05	0.045	205		330	
EN 10111	DDII	0.12	0.6	0.045	0.045	170	340		440
EN 10346	S250GD	≤0.2	≤0.7	≤0.1	≤0.045	-	≥250		≥330
EN 10025	S235 JR	≤0.17	≤1.4	≤0.035	≤0.035	-	235 MPA	360	510
ASTM A 53	G-B	0.3	1.20	0.05	0.045	240		415	
BS 1387	(L/M)	0.20	1.20	0.045	0.045	195		320	

MAIN TESTS AS PER PIPES INTERNATIONAL STANDARD REQUIREMENTS

Standard Specification	Grades	Flattening Test	Hydrostatic Test
ASTM	GA	Apply for standard weight pipe of ND > 2"	Specified respectively in size and grade as per ASTM standard
	GB	Ductility of the weld: H = 2/3 D or 2/3 D Ductility base metal: H = 1/ 3 D (>5T) the test shall be made alternatively with the weld at 0° at 90°	
1387 BS	L/M	½Apply for NB ≥ 2 - Weld Portion : H = ¾ D, at 90° The other side of weld : H - 3/5 D	P = 700 psi (50) Kg/cm²

Note: H = Distance between exterior Surface
D = Outside Diameter
T = Wall Thickness in mm



SCAFFOLDING TUBES (EN 39, EN 10025, BS 1139)

Scaffolding Tubes EN 10219

Nominal Size	(OD (mm)			(Wall Thickness (mm)			Kg/m	mm
	Min	Std	Max	Min	Std	Max		
1-1/2	47.8	48.3	48.8	2.88	3.2	3.52	3.56	600

Note:
Tolerances: Outside Diameter: ±1% with a minimum of ±0.5mm and a maximum of ±1.0mm.
Wall Thickness: ± 10%
Length: 0, +15mm
Mass: ± 6% on individual delivered lengths

SCAFFOLDING TUBES BS 1139

Grade	Outside Diameter		Wall Thickness	Weight of Pipe	Pieces per Bundle
	mm	in			
	48.3	1-1/2	4	4.37	36

ANSI / EN 10025

American national standard pipe threads, general purpose (INCH)

(Shown exaggerated thread height dimensions in diagram)

Truncation Frs = frn		Height of Thread hs = hn		Height of Sharp V Thread	Pitch	Thread per Inch
min	max	min	max	h	p	n
0.0024	0.0056	0.05000	0.05714	0.06186	0.07143	14
0.0029	0.0063	0.06261	0.06957	0.07531	0.08696	11-½
0.0041	0.0078	0.9275	0.10000	0.10825	0.12500	8

SCAFFOLDING TUBES ASTM A500

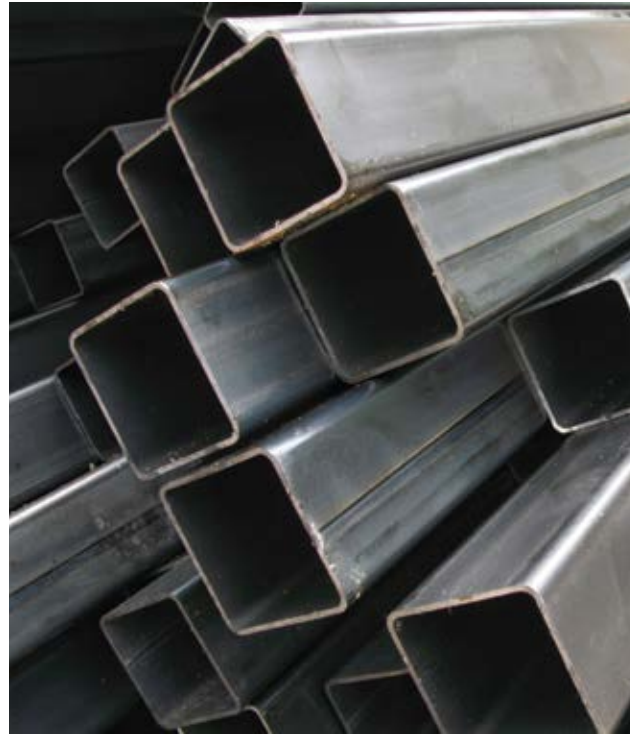
Grade	Outside Diameter		Wall Thickness	Yield Strength (N/mm²)	% Elongation
	mm	inch			
A	48.3	1-1/2	4.00	235	24
B	48.1	1-1/2	3.68	260	22
C	48.1	1-1/2	3.20	275	20

ERW PRODUCTS

Round Pipes



Square Tubes



Hot Rolled Steel Sheets



Cold Rolled Steel Sheets



Rectangular Tubes



Galvanized Steel Sheets



Round Pipes

Dimension and Weight for Structural Round Pipes

Outside diameter	Nominal size	1	1.20	1.50	2.00	2.50	2.60
OD mm	inch	Weight (Kg/m)					
22	½	0.518	0.616	0.758	0.986		
25.0		0.592	0.704	0.869	1.134	1.387	1.436
32.0		0.764	0.911	1.128	1.480	1.819	1.885
35	1	0.838	1.000	1.239	1.628	2.004	2.077
38		***	1.089	1.35	1.776	2.189	2.270
42.2	¼1	***	1.213	1.505	1.983	2.448	2.539
48.0	½1	***	1.394	1.731	2.284	2.824	2.930
51.0		***	1.474	1.831	2.417	2.990	3.103
60.0	2	***	1.749	2.175	2.875	3.563	3.699
63.0		***	***	2.275	3.009	3.730	3.873
76.3	½2	***	***	2.767	3.664	4.550	4.725
88.9	3	***	***	3.233	4.286	5.327	5.553

SQUARE TUBES

Dimension and Weight for Structural Square Tubes

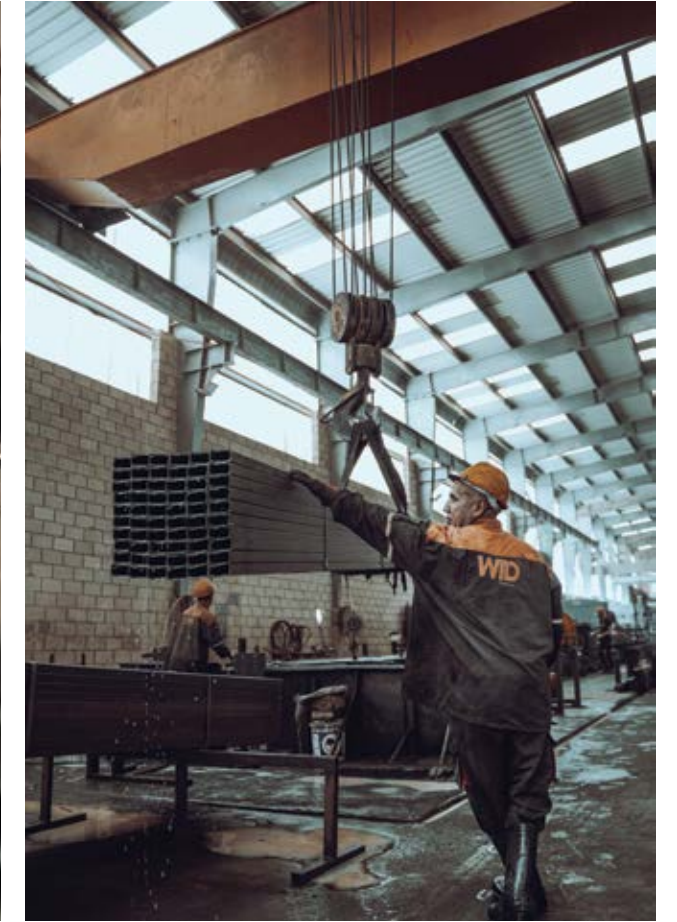
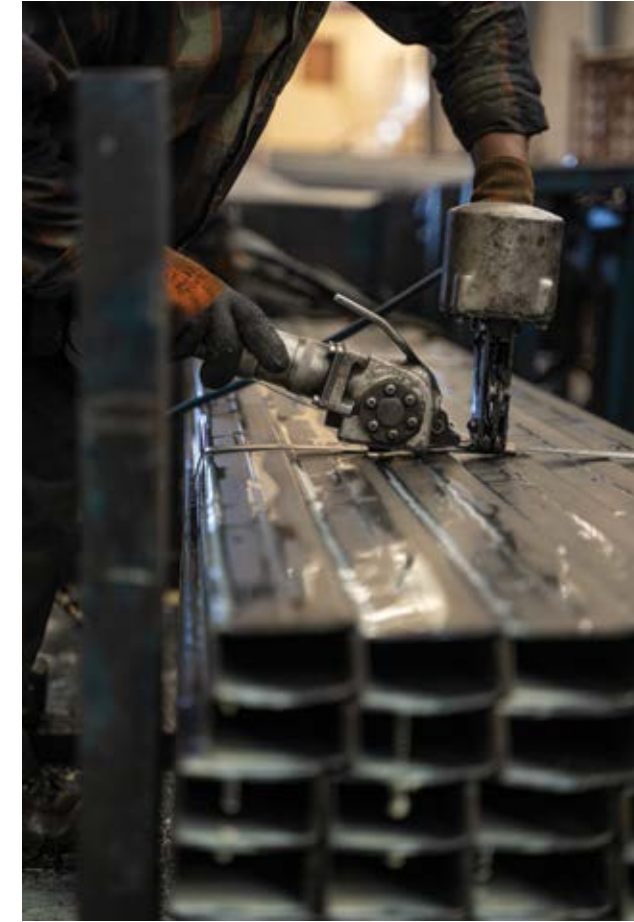
Size (mm)	Wall Thickness (mm)						
	1.00	1.20	1.50	2.00	2.50	3.00	4.00
	Weight (kg/m)						
20x20	0.595	0.707	0.859	1.126	1.367		
25x25	0.752	0.85	1.104	1.44	1.759		
30x60	0.909	1.084	1.34	1.754	2.152	2.533	***
40x40	1.223	1.46	1.811	2382	2.937	3.475	4.504
50x60	1.47	1.837	2.282	3.01	3.722	4.417	5.759

2.80	3.00	3.20	3.60	4.00	5.00	6.00	7.00
Weight (Kg/m)							
		***	***	***	***	***	***
1.533	1.628	***	***	***	***	***	***
2.016	2.145	***	***	***	***	***	***
2.223	2.368	***	***	***	***	***	***
2.431	2.589	2.746	3.054	3.354	***	***	***
2.720	2.900	3.078	3.427	3.768	***	***	***
3.142	3.351	3.559	3.968	4.370	***	***	***
3.328	3.551	3.772	4.208	4.636	***	***	***
3.970	4.239	4.506	5.034	5.553	***	***	***
4.157	4.439	4.719	5.273	5.820	***	***	***
5.075	5.423	5.768	6.454	7.132	8.791	10.402	11.963
5.945	6.355	6.763	7.573	8.375	10.345	12.266	14.138

RECTANGULAR TUBES

Dimension and Weight for Structural Rectangular Tubes

Size (mm)	Wall Thickness (mm)						
	1.00	1.20	1.50	2.00	2.50	3.00	4.00
	Weight (kg/m)						
						***	***
						2.062	***
40x120	0.909	1.084	1.34	1.754	2.152	2.533	***
50x130	1.16	1.3	1.74	2.32	2.9	3.45	4.6
60x40	1.47	1.76	2.2	2.94	3.67	4.4	5.87
80x40	1.86	2.214	2.7531	3.638	4.507	5.359	7.015



Pipe Factory



WTD OFFICES WORLD WIDE



RELATED SYSTEMS

1. WTD Smart Beam
2. Waler System
3. Cuplock System
4. H-Frame System
5. Shore Load System
6. Steel Blank
7. **ERW Steel Pipes & Tubes**
8. Accessories
9. Column Clamp
10. Staking System
11. Circular Column
12. Props
13. Panel Special Steel



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*A LEADING GLOBAL
CONSTRUCTION GROUP*

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