

PIPES



Dongbu Steel

Pipes

Electric Resistance Welding Pipe

> Product Introduction

⊞ Production features

The high-frequency electricity-resistant welding method developed by the ThermoTool Group of the United States is used in the production of our ERW pipes. ThermoTool's technology renders superb weldability to our products. Customer's preference for Dongbu Steel's ERW pipes over other available products is attributed to its wide range of applications.

⊞ Excellent quality

Dongbu Steel produces pipes of outstanding quality. Our rigorous quality control combined with 30 years of accumulated know-how and technology, are contributors behind our top-quality products.

⊞ Immaculate finish on welded sections

In order to enhance the ductility of the welded portion Dongbu Steel applies seam annealing, which uses a high-frequency induction heating procedure after the welding process.

⊞ A wide range of production capabilities

With production equipment designed based on our extensive experience, we produce a wide range of pipes with wall thickness ranging from extremely light to heavy from 5" to 20"(125A ~ 500A) in outside diameter.

> Major products

Classification	Spec. No.	Application
Steel pipes for ordinary piping	KS D3507 JIS G3542 ASTM A120 ASTM A135 GrA ASTM A53 GrA BS 1387	Water supply and sewage, industrial water, irrigation, oil & gas supply, sprinkler, fire hydrant, ship piping etc.
Galvanized steel pipes for water service	KS D3537 JIS G3442	
Steel pipes for pressure service	KS D3562, JIS G3454, ASTM A53 GrB, ASTM A135 GrB	For pressure service at temperature not exceeding 350°C
Steel pipes for general structural purposes	KS D3566, JIS G3444 ASTM A500, BS1775	Building, bridge, harbor, steel tower, electric light post, scaffold, etc.
Steel tubes for machine structural purposes	KS D3517, JIS G3466	
Steel pipe piles	KS F4602, ASTM A252	
Line pipe	API 5L & 5LX	Oil or natural gas piping
Oil well tubular goods	API 5A	Oil well casing and tubing

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Major facilities of ERW

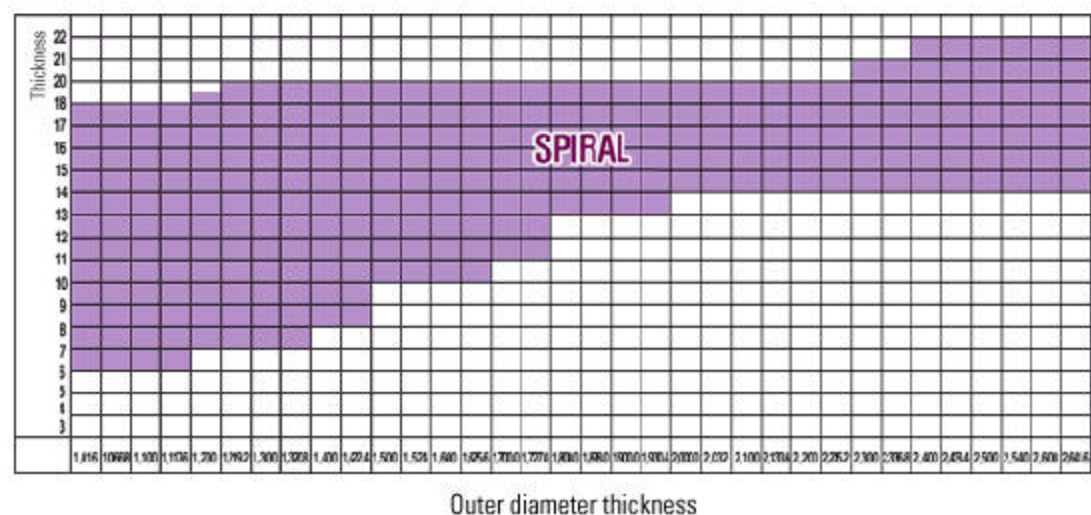
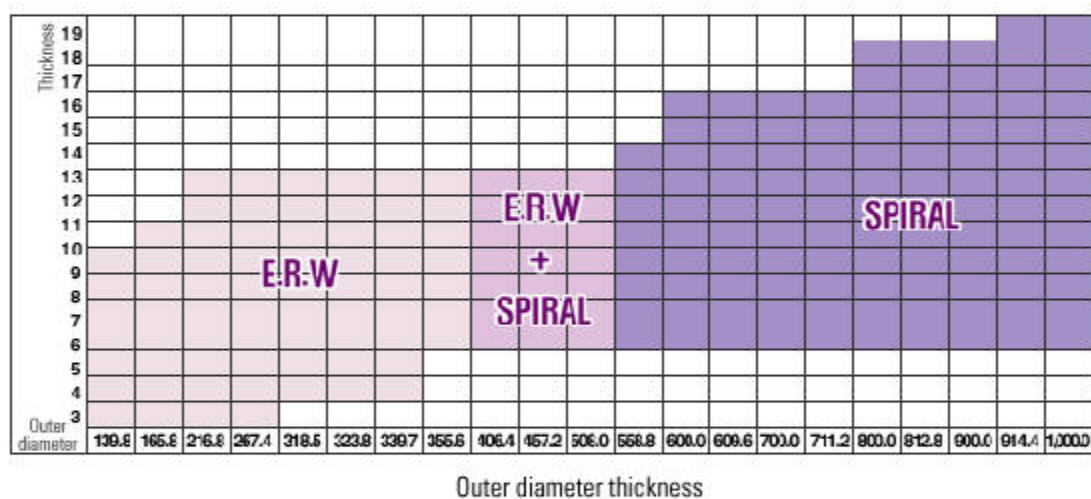


Welder



Seam Annealer

Production availability



Pipes

> Korean industrial standard dimensions specifications

KS D3507 general carbon pipes (KS D3537 Galvanized steel pipes for water service)

Type of pipe		Outside diameter	Permissible variations in outside diameter		Thickness	Permissible variations in thickness	Weight not including socket
A	B	mm	Taper screw pipe	Other pipe	mm		kg/m
125	5	139.8	$\pm 0.8\text{mm}$	$\pm 1\%$	4.85	-12.5% max	16.1
150	6	165.2	$\pm 0.8\text{mm}$	$\pm 1\%$	4.85		19.2
175	7	190.7	$\pm 0.9\text{mm}$	$\pm 1\%$	5.3		24.2
200	8	216.5	$\pm 1.0\text{mm}$	$\pm 1\%$	5.85		30.4
225	9	241.8	$\pm 1.2\text{mm}$	$\pm 1\%$	6.2		36.0
250	10	267.4	$\pm 1.3\text{mm}$	$\pm 1\%$	6.40		41.2
300	12	318.5	$\pm 1.5\text{mm}$	$\pm 1\%$	7.00		53.8
350	14	355.6	-	$\pm 1\%$	7.60		65.2
400	16	406.4	-	$\pm 1\%$	7.9		77.6
450	18	457.2	-	$\pm 1\%$	7.9		87.5
500	20	508.0	-	$\pm 1\%$	7.9		97.4

KS D3562 Carbon steel pipes for pressure service

Type of pipe		Outside dia - meter	Permissible variations in outside diameter														
			Schedule 20			Schedule 30			Schedule 40			Schedule 60			Schedule 80		
			Thick-ness	W	Hydraulic test pressure	Thick-ness	W	Hydraulic test pressure	Thick-ness	W	Hydraulic test pressure	Thick-ness	W	Hydraulic test pressure	Thick-ness	W	Hydraulic test pressure
125	5	139.8	5.1	16.9	35				6.6	21.7	60	8.1	26.3	90	24.2	30.5	120
150	6	165.2	5.5	21.7	35				7.1	27.7	60	9.3	35.8	90	11.0	41.8	120
200	8	216.3	6.4	33.1	35	7.0	36.1	50	8.2	42.1	60	10.3	52.3	90	12.7	63.8	120
250	10	267.4	6.4	41.2	35	7.8	49.9	50	9.3	59.2	60	12.7	79.8	90	15.1	93.9	120
300	12	318.5	6.4	49.3	35	8.4	64.2	50	10.3	78.3	60	14.3	107	90	17.4	129	120
350	14	355.6	7.9	67.7	35	9.5	81.1	50	11.1	94.3	60	15.1	127	90	19.0	158	120
400	16	406.4	7.9	77.6	35	9.5	93.0	50	12.7	123	60	16.7	160	90	21.4	203	120

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KS D3566 carbon steel pipes for general structural purposes

Outside diameter	Thickness	Weight	Remarks			
			Sectional Area	Moment of Inertia	Section Modulus	Radius of Gyration
mm	m	kg/m	cm ²	cm ⁴	cm ³	cm
139.8	3.6	12.1	15.40	357	51.1	4.82
	4.0	13.4	17.07	394	56.3	4.80
	4.5	15.0	19.13	438	62.7	4.79
	6.0	19.8	25.22	566	80.9	4.74
165.2	4.5	17.8	22.72	734	88.9	5.68
	5.0	19.8	25.16	808	97.8	5.67
	6.0	23.6	30.01	952	115	5.63
	7.0	27.3	34.79	109×10	132	5.60
216.5	4.5	23.5	29.94	168×10	155	7.49
	6.0	31.1	39.61	219×10	203	7.44
	7.0	36.1	46.03	252×10	233	7.40
	8.0	41.1	52.35	284×10	263	7.37
267.4	6.0	38.7	49.27	421×10	315	9.24
	7.0	45.0	57.27	486×10	263	9.21
	8.0	51.2	65.19	549×10	411	9.18
	9.0	57.4	73.06	611×10	457	9.14
318.5	6.0	46.2	58.91	719×10	452	11.1
	7.0	53.8	68.50	831×10	552	11.0
	8.0	61.3	78.04	941×10	591	11.0
	9.0	68.7	87.51	105×10	659	10.9
355.6	6.3	54.3	69.13	105×10 ³	593	12.4
	8.0	68.6	87.36	132×10 ³	742	12.3
	9.0	76.9	98.00	147×10 ³	828	12.3
	12.0	102	129.5	191×10 ³	108×10	12.2
406.4	9.0	88.2	112.4	222×10 ³	109×10	14.1
	12.0	117	148.7	289×10 ³	142×10	14.0
457.2	9.0	99.2	69.13	318×10 ³	140×10	15.8
	12.0	132	87.36	416×10 ³	182×10	15.7
508.0	9.0	111	69.13	439×10 ³	173×10	17.6
	12.0	147	87.36	575×10 ³	226×10	17.5