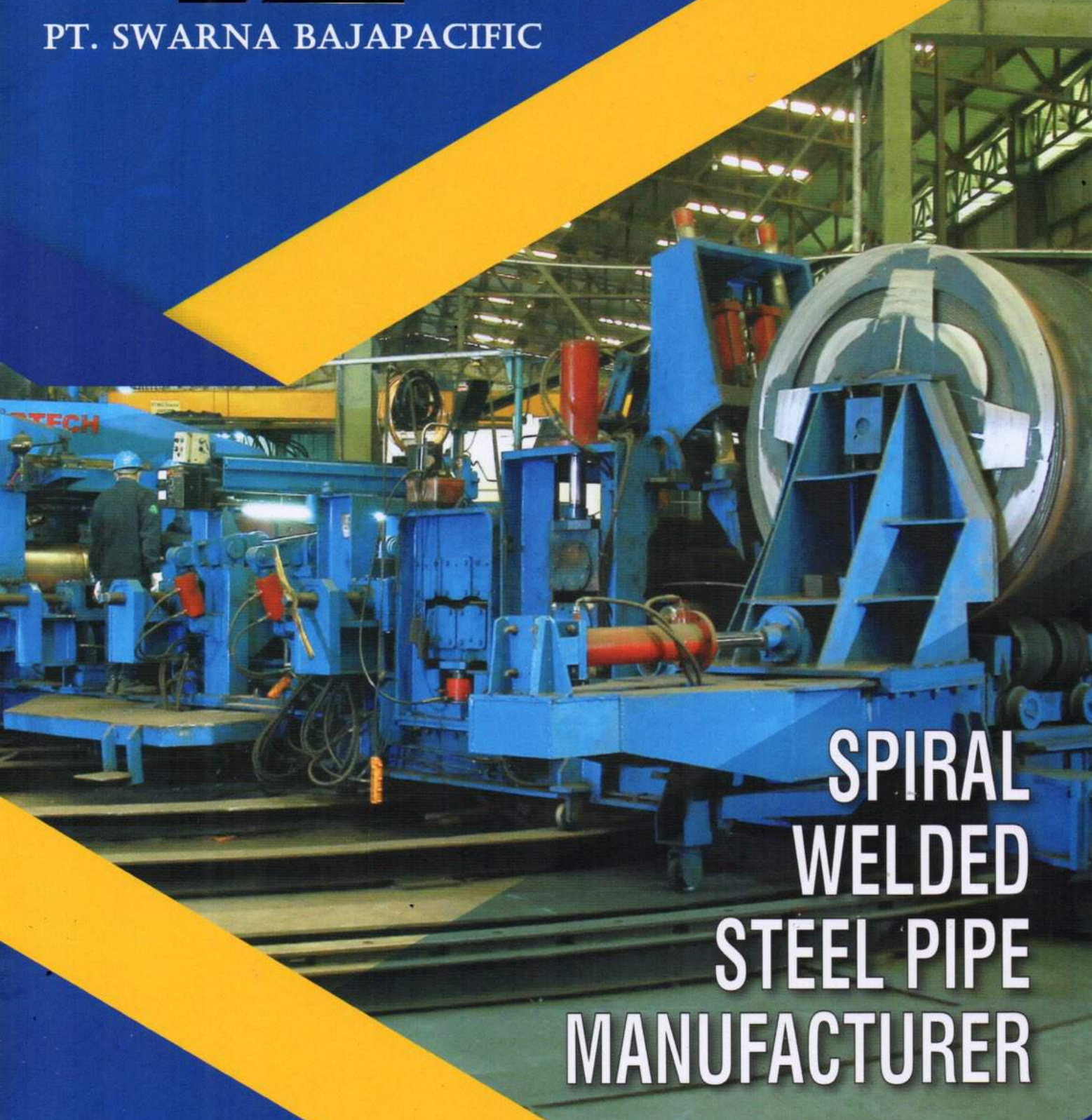




PT. SWARNA BAJAPACIFIC



# SPIRAL WELDED STEEL PIPE MANUFACTURER



URS is a member of Registrar of Standards (Holdings) Ltd.

[www.swarnabaja.com](http://www.swarnabaja.com)



## OUR COMMITMENT



BIAYA RENDAH // Low Cost



MUTU BAIK // Good Quality



WAKTU PENYERAHAN CEPAT DAN TEPAT //  
Fast & Prompt Delivery.



# SWARNA BAJAPACIFIC

PT. Swarna Bajapacific was established in 1989. After 3 decades continuous development in the manufacturing sector, Swarna has become one of the leading manufacturers with most fast growing customers.

PT. Swarna Bajapacific has a tradition of providing better solutions through technological innovations, flexible management, better quality and fast delivery.

Swarna Baja means "Golden Steel" therefore we treat you and your order as "The precious thing". Now, Swarna is accepted by the consumers and gained their trust as well by excellent products and honest operation.


PT. Swarna Bajapacific owns all the advantages, such as low production cost, slim management, efficient new technology, fast and prompt delivery and large market share.

It keeps the concept as "a step ahead" to realize the co-development of both customers and the enterprise itself.

PT. Swarna Bajapacific now is creating a new brilliance with full energy and hoping to cooperate with friends from all over the world to create a better future.

# COMPANY PROFILE

<b>Company name</b>	: PT. Swarna Bajapacific
<b>Established in</b>	: 11 Agustus 1989
<b>President director</b>	: Pandu Lokiswara Salam
<b>Director</b>	: Yan Achmad Suef
<b>E-mail</b>	: pipa@swarnabaja.com
<b>Website</b>	: www.swarnabaja.com
<b>Total land area</b>	: 77.195 m <sup>2</sup>
<b>Total building area</b>	: 12.985.2 m <sup>2</sup>
<b>Certification</b>	: SNI
<b>Bankers</b>	: Bank Central Asia Bank Danamon Bank Mandiri Bank Negara Indonesia
<b>Account name</b>	: PT. Swarna Bajapacific
<b>Nature of business</b>	: Manufacturer of Spiral welded steel pipe - ASTM A 252 - JIS A 5525 - JIS A 5530 - SNI 0068 : 2013 - SNI 8052 : 2014



Since it's founding in 1989, **PT. Swarna Bajapacific (SBP)** has distinguished itself as one of the few spiral welded pipe producers with annual production capacity exceeding 150.000 MT.

To cope with increasing demand nationwide, PT. Swarna Bajapacific produces large quantity of high strength pipe that are used for various purposes including structural and transmission purposes

The company's facilities today include spiral pipe mills and corrosion protection facilities in the form of Epoxy coating & all other kinds of coat , which can produce 8" - 100"O.D. in accordance to the specification of National standard (SNI) & all major international standards such as JIS, ASTM & all others

To the present time, Swarna's Spiral Welded Pipe are used for the following applications; Piling, Casing and Tubing, Liquid Delivery, Storage Tanks, Bridge Foundation, Jetty Foundation, Offshore Terminal Construction, etc

**FREE FORMED  
DIAMETER**

# PRODUCT PROFILE



## PIPE SIZE & PRODUCTION CAPACITY

MACHINE	DIAMETER RANGE	THICKNESS RANGE (MM)	CAPACITY (TON/YEAR)
SPM 1600	8" - 100"	6 - 16	30.000
SPM 1600	16" - 100"	6 - 19	30.000
SPM 1600	16" - 100"	6 - 25	30.000
SPM 1380	16" - 80"	6 - 16	30.000
SPM 1220	16" - 48"	6 - 14	30.000

<b>PIPE SPECIFICATION</b>	ASTM A 252 JIS A 5525 JIS A 5530 SNI - Standard
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## LONGER PIPE LENGTH

Swarna's extensive experience can safely produce and transport pipe as long as 48 meters. This can reduce splicing costs and working time at project site significantly.



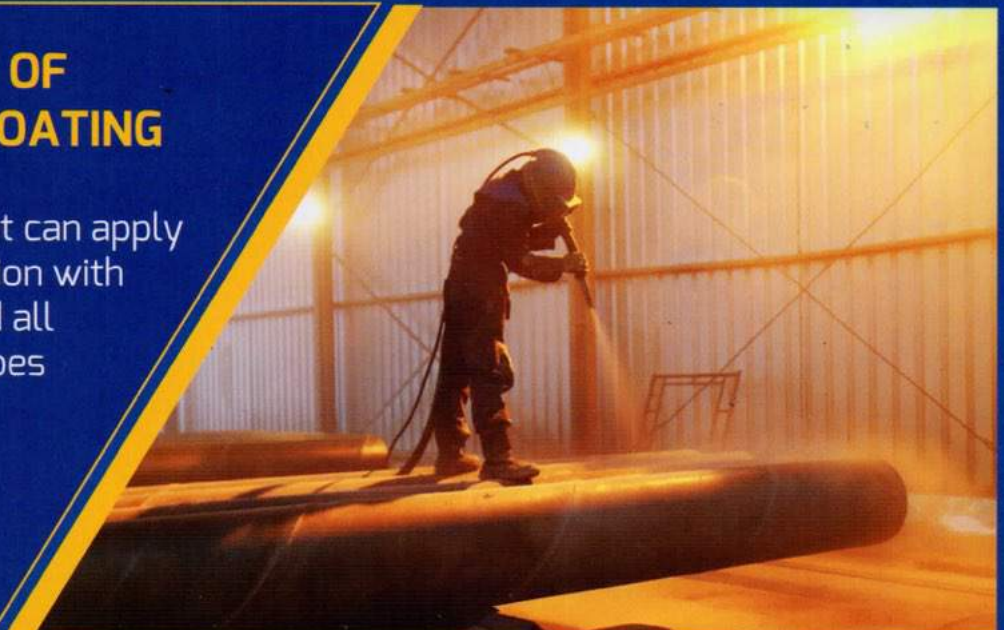
## FASTER DELIVERY

The availability of various sizes of HRC (Hot Rolled Coil) in Swarna's warehouse can easily produce pipe faster. In addition, pipes of certain diameter are available for immediate delivery.



## APPLICATION OF LINING AND COATING

Modern equipment can apply corrosion protection with coating epoxy and all others coating types



## LOWER PRODUCTION COST

Swarna's new high-tech production units guarantee cost effective pipe manufacture: using relatively lower cost (economics of scale) material, requiring fewer personnel and a low application of investment for maximum commercial efficiency. This applies even when small lot sizes of different dimensions must be produced, as often demanded by the market.





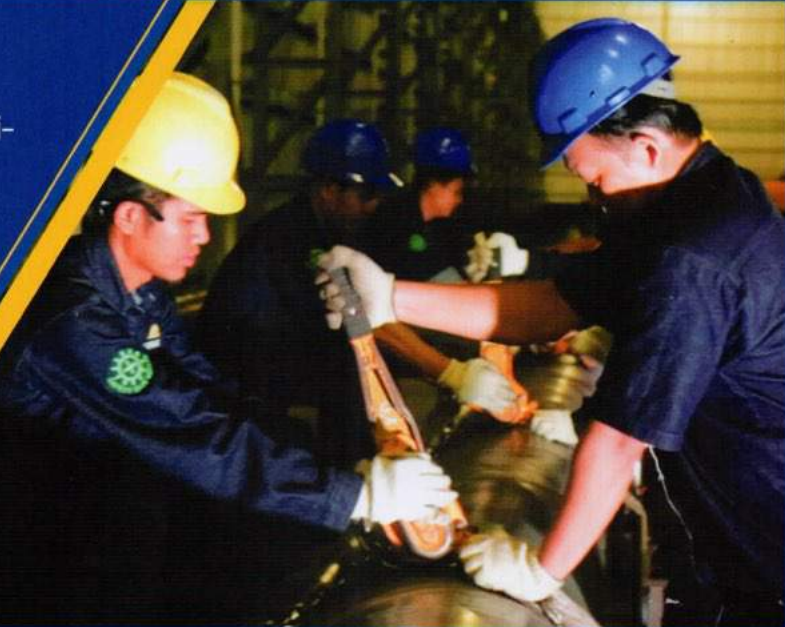
## HIGH QUALITY

Swarna only uses quality material manufactured through integrated process under rigid quality control and inspection from material to finished pipe. Also, internal and external submerged arc welding method manufactured by Lincoln Electric are employed. Therefore, the welding for spiral butt weld joint will be flawless, with no burning.



## HIGHER SAFETY

10% safer as compared longitudinally welded pipes. Burst and explosion test show that due to the helically wound seam and the high toughness properties in the circumferential directions-the spiral welded pipe has an inherently higher safety margin against crack propagation.



## HIGH DIMENSIONAL ACCURACY

Swarna's 3-roller-forming system and the continuous welding-gap control produces pipes with a constant diameter, roundness and straightness within extreme close tolerances over the whole pipe length.



# ADVANTAGES OF STEEL PIPE PILES

(COMPARED TO CONCRETE PILES)

## LARGE BEARING CAPACITY

Steel pipe piles can be driven firmly into the solid bearing stratum to develop an extra large bearing capacity.

## LARGE LATERAL RESISTANCE

With its great resistance to bending moments, a steel pipe pile can withstand large horizontal loads.

## GOOD PENETRATION.

Steel pipe piles are made strong material. They can bear powerful driving forces without damaging the pile top. Furthermore, the sharpness of pile tip makes it easier to penetrate through gravel.

## SAFE JOINTS FOR LONGER PILE

Steel pipe joints are easily made up by welding, which are as strong as their base metal. Steel pipe piles can be joined to any required depth of penetration.



# COST EFFICIENT

# ADVANTAGES OF STEEL PIPE PILES

(COMPARED TO CONCRETE PILES)

## SMALLER NET SECTIONAL AREA

In clayey soil, piles can be spaced closely because clays are disturbed less, owing to lesser soil displacement by piles. Adverse effects on the existing neighboring structure are almost non-existent.

## EASY ADJUSTMENT OF PILE LENGTH

Uneven bearing layer piles in hand are often either too short or too long. In case it happens, the length of steel pipe piles is easily adjusted.

## EASY TRANSPORTATION & HANDLING

As steel pipe piles are light weight and less susceptible to damage, making their transportation and handling easy.

## GREATER VERSALITY COMPARED WITH H PILES



**QUALITY ASSURANCE**

# ADVANTAGES OF STEEL PIPE PILES

(COMPARED TO CONCRETE PILES)

## FAST SUPPLY OF UNIFORM MATERIAL IN A LARGE QUANTITY

Mass produced under the modern production control, steel pipe piles of uniform quality can be supplied quickly and in a large quantity.

## SAVING CONSTRUCTION COST AND TIME

Added to the properties mentioned above, steel pipe piles have the advantage of having the least weight pile material per unit of allowable bearing capacity and also the advantage of different options in thickness and length to suit requirements. These will all help to save construction cost and time.



**TIME EFFICIENT**

# TRUCKING & HANDLING



# CERTIFICATION





## Certificate of Registration

This certificate has been awarded to

**PT SWARNA BAJA PACIFIC**  
 Jl. P. Jayakarta No. 85 BC, Jakarta 10730, Indonesia

In recognition of the organization's Quality Management System which complies with

**ISO 9001:2015**

The scope of activities covered by this certificate is defined below

**The Manufacture of Spiral Welded Steel Pipe**

Certificate Number:  
1813AA/0001/UKEN

Date of Issue (Original):  
24 August 2016

Date of Issue:  
24 August 2018

Issue No:  
4

Issued by:  On behalf of the System Manager








KA 00803

**BALAI SERTIFIKASI INDUSTRI**  
 INSTITUTE for INDUSTRIAL CERTIFICATION

### SERTIFIKAT PRODUK PENGGUNAAN TANDA SNI (SPPT SNI)

Nomor : 118/S/SA/B/IV.1/2016

diberikan kepada:

**PT. SWARNA BAJAPACIFIC**  
 Komplek Greenville Blok AW No. 47 Duri Kepa - Kebon Jeruk, Jakarta Barat 11510, DKI Jakarta

Berdasarkan sistem sertifikasi S, dinyatakan bahwa perusahaan telah menerapkan Sistem Manajemen Mutu SNI ISO 9001:2008 dan mutu produknya telah memenuhi persyaratan :

- SNI 0068:2013      Pipa Baja Karbon Untuk Konstruksi Umum

untuk alamat pabrik:

Jl. Raya Serang KM. 28 Kec. Balaraja, Kab. Tangerang, Banten

Tempat dan tanggal terbit :  
 Jakarta, 01 April 2016

Disahkan oleh:  
  
 TRIYOGA I.W. NURIAYA

Sertifikat ini berlaku sampai dengan tanggal 31 Maret 2020 selama perusahaan masih memenuhi ketentuan dan peraturan yang ditetapkan Balai Sertifikasi Industri dan hanya berlaku jika diperlihatkan bersamaan dengan lampirannya.

Jl. Cikini IV No. 15 Jakarta Pusat 10330, Indonesia  
 Keabsahan sertifikat ini dapat dilihat di  
 website of BSI certificate can be viewed at  
<http://bsi.kemendperin.go.id>





NA 01208

**BALAI SERTIFIKASI INDUSTRI**  
 INSTITUTE for INDUSTRIAL CERTIFICATION

### SERTIFIKAT PRODUK

Nomor : 35/S/EX/B/1.1/2017

diberikan kepada:

**PT. SWARNA BAJA PACIFIC**  
 Komplek Greenville Blok AW No. 47 Duri Kepa - Kebon Jeruk, Jakarta Barat 11510, DKI Jakarta

Berdasarkan sistem sertifikasi S, dinyatakan bahwa perusahaan telah menerapkan Sistem Manajemen Mutu SNI ISO 9001:2008 dan mutu produknya telah memenuhi persyaratan :

- SNI 8052:2014      Pipa Baja untuk Pancang

untuk alamat pabrik:

Jl. Raya Serang KM. 28 Kec. Balaraja, Kab. Tangerang, Banten

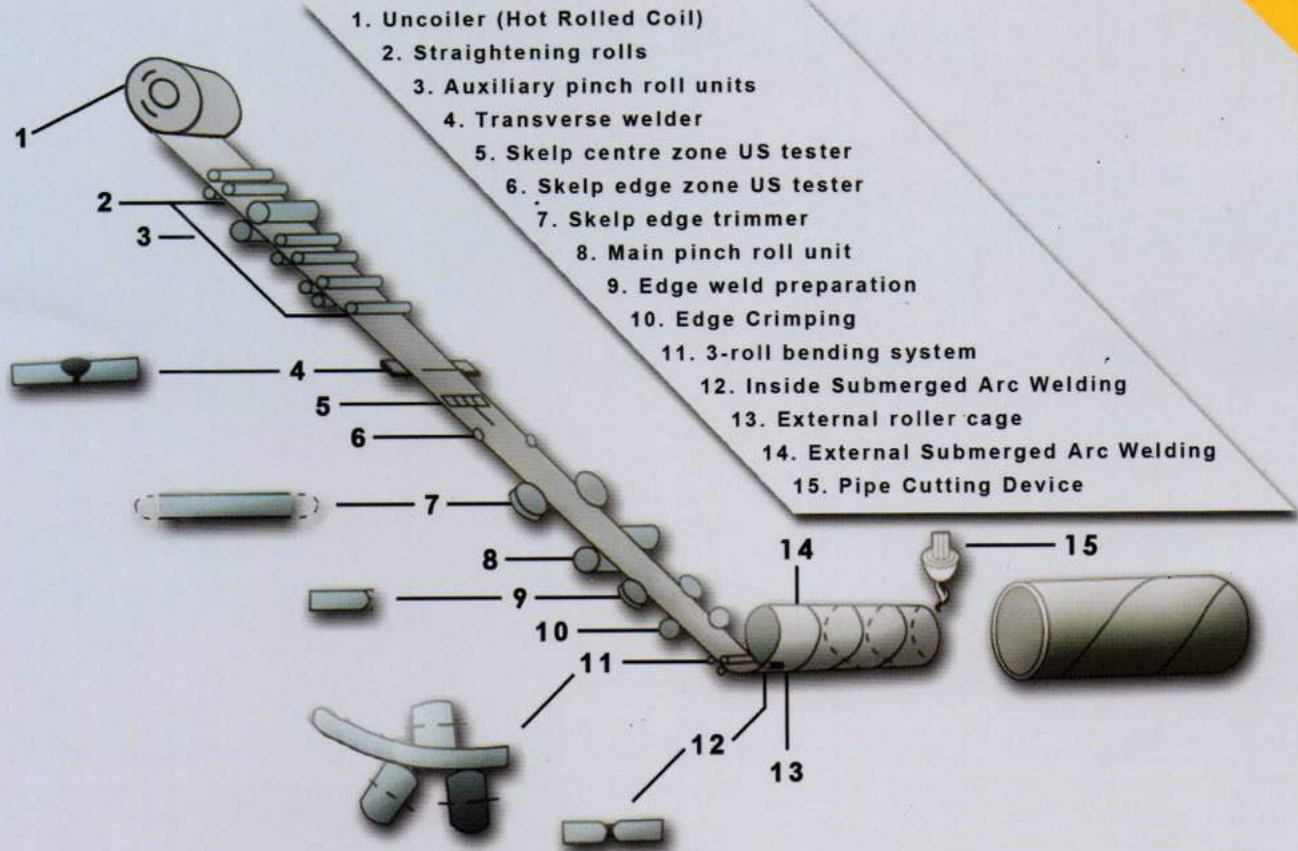
Tempat dan tanggal terbit :  
 Jakarta, 27 Januari 2017

Disahkan oleh:  
  
 TRIYOGA I.W. NURIAYA  
 Kepala

Sertifikat ini berlaku sampai dengan tanggal 31 Maret 2020 selama perusahaan masih memenuhi ketentuan dan peraturan yang ditetapkan Balai Sertifikasi Industri dan hanya berlaku jika diperlihatkan bersamaan dengan lampirannya.

Jl. Cikini IV No. 15 Jakarta Pusat 10330, Indonesia  
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# PROCESS



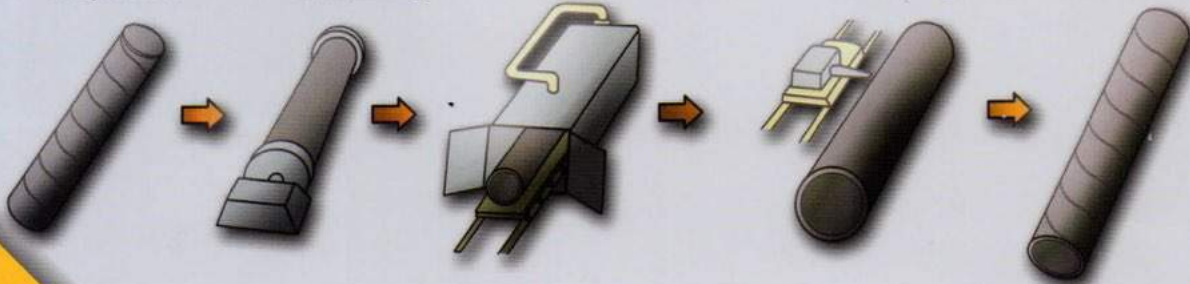
Visual & Dimensional Inspection

Pipe End Machining

Shot Blasting

Inside & Outside Coating

**FINISHED**



# PORTAMILL

PT. SWARNA BAJAPACIFIC creating a new innovation in SSAW Steel Pipe manufacturing. It is producing SSAW steel pipe in mobile system / portable mill.

Portable mill is spiral welded steel pipe mill that can be brought to the project site, so that production process can be done on-site wherever located with maintained quality and provide many advantages for the customer.

## Portable Mill Advantages

**Lower Delivery Cost** - Shipping Hot Roll Coil as the pipe material reducing volume up to 60% than shipping the pipe.

**Pipe Length Flexibility** - Portamill can produce up to 100 m pipe length. It will save Time and eliminating pipe joint cost.

**Production Flexibility** - Flexibility of pipe production in length can be tailored to the needs on the site to avoid excess or shortage of pipe length in piling process.

**On Time Delivery** - More convincing delivery schedule for the pipes, can be delivered partially every day.

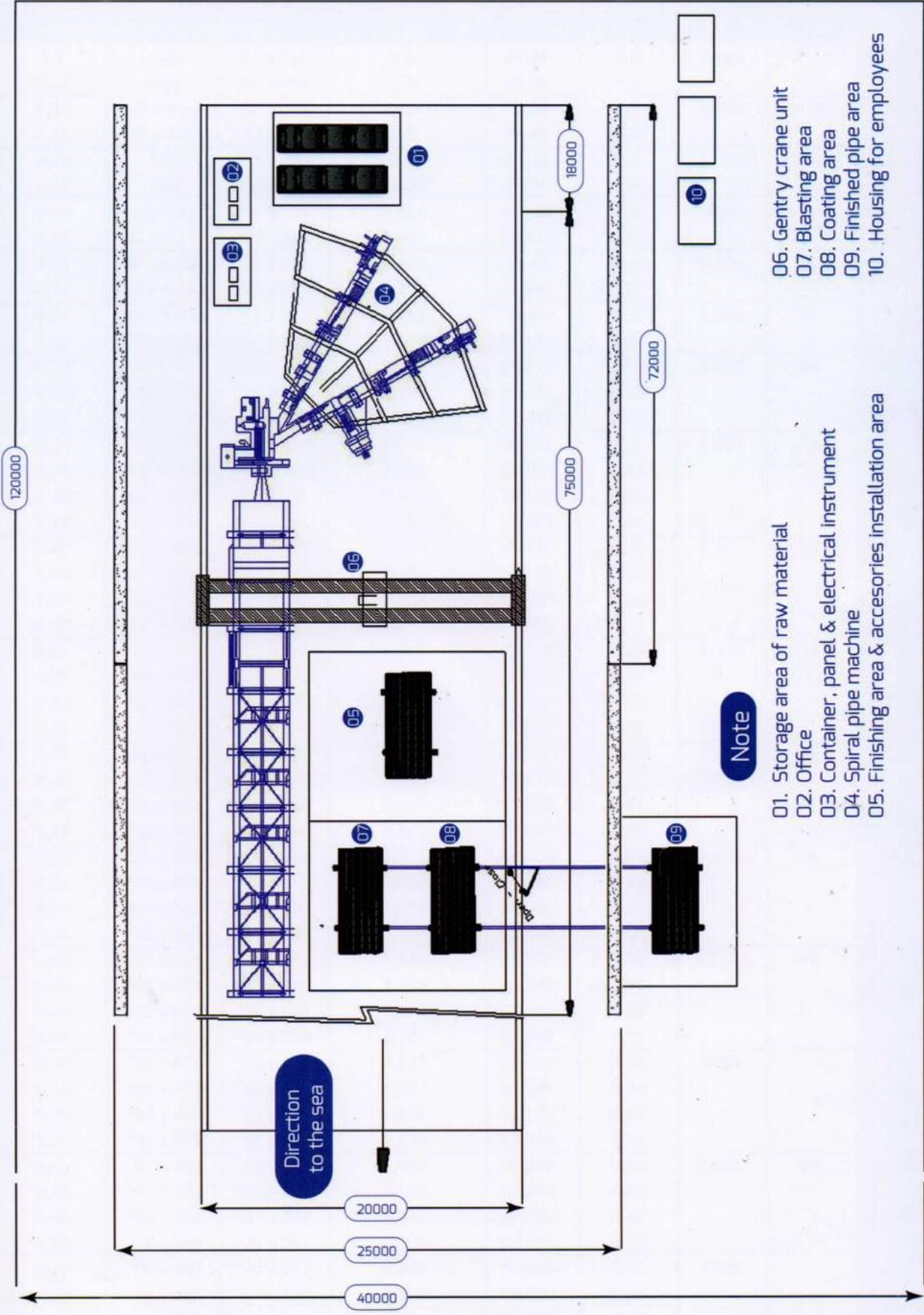
**Quality Assurance** - Giving customer confidence in the quality of the product because the production process can be monitored directly any time.

**Coating Flexibility** - Avoid shortages or excess length of coating to protect the splash zone area. ie. coating cost efficiency.





# LAYOUT OF MACHINE



## STANDARD SIZE AND WEIGHT

### ASTM A 252 / JIS A 5525 / SNI - STEEL PIPE PILES

OUTSIDE DIAMETER		THICKNESS	WEIGHT	CROSS SECTIONAL WALL AREA	MODULUS OF INERTIA	MODULUS OF SECTION	RADIUS OF GYRATION
Inch	mm	mm	Kg/m	A ( cm <sup>2</sup> )	i ( cm <sup>4</sup> )	Z ( cm <sup>3</sup> )	i ( cm )
	318,5	6,0	46,24	58,9	719 x 10	452	9,1
		9,0	68,69	87,5	105 x 10 <sup>2</sup>	659	10,9
12 ¾	323,9	7,1	55,47	70,6	887 x 10	54.8 x 10	11,2
		9,0	69,89	89,0	110 x 10 <sup>2</sup>	68.2 x 10	11,1
14	355,6	6,0	51,73	69,1	105 x 10 <sup>2</sup>	593	12,4
		9,0	76,92	98,00	147 x 10 <sup>2</sup>	828	12,3
	400	9,0	86,78	110,6	211 x 10 <sup>2</sup>	105.7 x 10	13,8
		12,0	114,82	146,3	276 x 10 <sup>2</sup>	137.8 x 10	13,7
16	406,4	9,0	88,20	112,4	222 x 10 <sup>2</sup>	109.2 x 10	14,1
		12,0	116,71	148,7	289 x 10 <sup>2</sup>	142.4 x 10	14,0
18	457,2	9,0	99,47	126,8	318 x 10 <sup>2</sup>	139.3 x 10	15,8
		12,0	131,74	167,9	416 x 10 <sup>2</sup>	182.1 x 10	15,7
20	508,0	9,0	110,75	141,1	439 x 10 <sup>2</sup>	173 x 10	17,6
		12,0	146,78	187,0	575 x 10 <sup>2</sup>	227 x 10	17,5
		14,0	170,55	217,3	663 x 10 <sup>2</sup>	261 x 10	17,5
24	609,6	9,0	133,30	169,8	766 x 10 <sup>2</sup>	251 x 10	21,2
		12,0	176,84	225,3	101 x 10 <sup>3</sup>	330 x 10	21,1
		14,0	205,62	262,0	166 x 10 <sup>3</sup>	381 x 10	21,1
		16,0	234,21	298,4	132 x 10 <sup>3</sup>	431 x 10	21,0
28	711,2	9,0	155,85	198,5	122 x 10 <sup>3</sup>	344 x 10	24,8
		12,0	206,91	263,6	161 x 10 <sup>3</sup>	453 x 10	24,7
		14,0	240,70	306,6	186 x 10 <sup>3</sup>	524 x 10	24,7
		16,0	274,30	349,4	211 x 10 <sup>3</sup>	594 x 10	24,6
32	812,8	9,0	178,40	227,3	184 x 10 <sup>3</sup>	452 x 10	28,4
		12,0	236,97	301,9	242 x 10 <sup>3</sup>	596 x 10	28,3
		14,0	275,78	351,3	280 x 10 <sup>3</sup>	690 x 10	28,2
		16,0	314,39	400,5	318 x 10 <sup>3</sup>	782 x 10	28,2
36	914,4	12,0	267,04	340,2	346 x 10 <sup>3</sup>	758 x 10	31,9
		14,0	310,85	396,0	401 x 10 <sup>3</sup>	878 x 10	31,8
		16,0	354,47	451,6	456 x 10 <sup>3</sup>	997 x 10	31,8
		19,0	419,53	534,5	536 x 10 <sup>3</sup>	117 x 10 <sup>2</sup>	31,7
40	1016,0	12,0	297,10	378,5	477 x 10 <sup>3</sup>	939 x 10	35,5
		14,0	345,93	440,7	553 x 10 <sup>3</sup>	109 x 10 <sup>2</sup>	35,4
		16,0	394,56	502,7	628 x 10 <sup>3</sup>	124 x 10 <sup>2</sup>	35,4
		19,0	467,13	595,1	740 x 10 <sup>3</sup>	146 x 10 <sup>2</sup>	35,3
44	1117,6	12,0	327,17	416,8	637 x 10 <sup>3</sup>	114 x 10 <sup>2</sup>	39,1
		14,0	381,01	485,4	739 x 10 <sup>3</sup>	132 x 10 <sup>2</sup>	39,0
		16,0	434,65	553,7	840 x 10 <sup>3</sup>	150 x 10 <sup>2</sup>	39,0
		19,0	514,74	655,8	990 x 10 <sup>3</sup>	177 x 10 <sup>2</sup>	38,8
	1200	14,0	409,45	521,6	917 x 10 <sup>3</sup>	153 x 10 <sup>2</sup>	41,9
		16,0	467,16	595,1	104 x 10 <sup>4</sup>	174 x 10 <sup>2</sup>	41,9
		19,0	553,35	704,9	123 x 10 <sup>4</sup>	205 x 10 <sup>2</sup>	41,8
		22,0	639,09	814,2	141 x 10 <sup>4</sup>	235 x 10 <sup>2</sup>	41,7
48	1219,2	14,0	416,08	530,1	963 x 10 <sup>3</sup>	158 x 10 <sup>2</sup>	42,6
		16,0	474,73	604,8	109 x 10 <sup>4</sup>	180 x 10 <sup>2</sup>	42,5
		19,0	562,34	716,4	129 x 10 <sup>4</sup>	212 x 10 <sup>2</sup>	42,4
		22,0	649,50	827,4	148 x 10 <sup>4</sup>	243 x 10 <sup>2</sup>	42,3
	1300	14,0	443,98	565,6	117 x 10 <sup>4</sup>	180 x 10 <sup>2</sup>	45,5
		16,0	506,62	645,4	133 x 10 <sup>4</sup>	205 x 10 <sup>2</sup>	45,4
		19,0	600,20	764,6	157 x 10 <sup>4</sup>	241 x 10 <sup>2</sup>	45,3
		22,0	693,34	883,3	180 x 10 <sup>4</sup>	278 x 10 <sup>2</sup>	45,2



OUTSIDE DIAMETER		THICKNESS	WEIGHT	CROSS SECTIONAL WALL AREA	MODLUS OF INERTIA	MODLUS OF SECTION	RADIUS OF GYRATION
Inch	mm	mm	Kg/m	A (cm <sup>2</sup> )	i (cm <sup>4</sup> )	Z (cm <sup>3</sup> )	i (cm)
52	1320,8	14,0	451,16	574,8	123 x 10 <sup>4</sup>	186 x 10 <sup>2</sup>	46,2
		16,0	514,82	655,9	140 x 10 <sup>4</sup>	211 x 10 <sup>2</sup>	46,1
		19,0	609,95	777,0	165 x 10 <sup>4</sup>	249 x 10 <sup>2</sup>	46,0
		22,0	704,62	897,7	189 x 10 <sup>4</sup>	287 x 10 <sup>2</sup>	45,9
	1400	14,0	478,50	609,6	146 x 10 <sup>4</sup>	209 x 10 <sup>2</sup>	49,0
		16,0	546,07	695,7	167 x 10 <sup>4</sup>	238 x 10 <sup>2</sup>	48,9
		19,0	647,05	824,3	197 x 10 <sup>4</sup>	281 x 10 <sup>2</sup>	48,8
		22,0	747,59	952,4	226 x 10 <sup>4</sup>	323 x 10 <sup>2</sup>	48,7
56	1422,4	14,0	486,24	619,4	154 x 10 <sup>4</sup>	216 x 10 <sup>2</sup>	49,8
		16,0	554,91	706,9	175 x 10 <sup>4</sup>	246 x 10 <sup>2</sup>	49,7
		19,0	657,55	837,7	206 x 10 <sup>4</sup>	290 x 10 <sup>2</sup>	49,6
		22,0	759,75	967,9	237 x 10 <sup>4</sup>	334 x 10 <sup>2</sup>	49,5
	1500	16,0	585,53	745,9	205 x 10 <sup>4</sup>	274 x 10 <sup>2</sup>	52,5
		19,0	693,91	884,0	242 x 10 <sup>4</sup>	323 x 10 <sup>2</sup>	52,4
		22,0	801,84	1021,5	279 x 10 <sup>4</sup>	372 x 10 <sup>2</sup>	52,3
		25,0	909,34	1158,5	315 x 10 <sup>4</sup>	420 x 10 <sup>2</sup>	52,2
60	1524,0	16,0	595,00	758,0	215 x 10 <sup>4</sup>	283 x 10 <sup>2</sup>	53,3
		19,0	705,15	898,3	254 x 10 <sup>4</sup>	334 x 10 <sup>2</sup>	53,2
		22,0	814,87	1038,1	293 x 10 <sup>4</sup>	384 x 10 <sup>2</sup>	53,1
		25,0	924,13	1177,3	331 x 10 <sup>4</sup>	434 x 10 <sup>2</sup>	53,0
	1600	16,0	624,98	796,2	250 x 10 <sup>4</sup>	312 x 10 <sup>2</sup>	56,0
		19,0	740,76	943,7	295 x 10 <sup>4</sup>	369 x 10 <sup>2</sup>	55,9
		22,0	856,10	1090,6	340 x 10 <sup>4</sup>	424 x 10 <sup>2</sup>	55,8
		25,0	970,99	1237,0	384 x 10 <sup>4</sup>	480 x 10 <sup>2</sup>	55,7
	1800	19,0	834,47	1063,1	422 x 10 <sup>4</sup>	468 x 10 <sup>2</sup>	63,0
		22,0	964,60	1228,9	486 x 10 <sup>4</sup>	540 x 10 <sup>2</sup>	62,9
		25,0	1.094,29	1394,1	549 x 10 <sup>4</sup>	610 x 10 <sup>2</sup>	62,8
	2000	22,0	1.073,10	1367,1	669 x 10 <sup>4</sup>	669 x 10 <sup>2</sup>	69,9
		25,0	1.217,59	1551,2	756 x 10 <sup>4</sup>	756 x 10 <sup>2</sup>	69,8
81	2057,4	19,0	955,07	1217,0	632 x 10 <sup>4</sup>	615 x 10 <sup>2</sup>	72,1
		22,0	1104,25	1407,3	729 x 10 <sup>4</sup>	709 x 10 <sup>2</sup>	72,0
		25,0	1252,97	1596,9	825 x 10 <sup>4</sup>	802 x 10 <sup>2</sup>	71,9
84	2133,6	19,0	990,77	1262,7	706 x 10 <sup>4</sup>	662 x 10 <sup>2</sup>	74,8
		22,0	1145,59	1460,0	814 x 10 <sup>4</sup>	763 x 10 <sup>2</sup>	74,7
		25,0	1299,95	1656,8	921 x 10 <sup>4</sup>	863 x 10 <sup>2</sup>	74,6
90	2286	19,0	1062,18	1353,7	870 x 10 <sup>4</sup>	761 x 10 <sup>2</sup>	80,2
		22,0	1228,27	1565,4	100 x 10 <sup>5</sup>	878 x 10 <sup>2</sup>	80,0
		25,0	1393,91	1776,5	114 x 10 <sup>5</sup>	993 x 10 <sup>2</sup>	80,0
96	2438,4	19,0	1133,59	1444,7	106 x 10 <sup>5</sup>	867 x 10 <sup>2</sup>	85,7
		22,0	1310,95	1670,8	122 x 10 <sup>5</sup>	100 x 10 <sup>3</sup>	85,5
		25,0	1487,86	1896,2	138 x 10 <sup>5</sup>	113 x 10 <sup>3</sup>	85,3
100	2540	19,0	1181,19	1505,4	120 x 10 <sup>5</sup>	942 x 10 <sup>2</sup>	89,3
		22,0	1366,07	1741,0	138 x 10 <sup>5</sup>	109 x 10 <sup>3</sup>	89,0
		25,0	1550,50	1976,1	156 x 10 <sup>5</sup>	123 x 10 <sup>3</sup>	88,8

NOTE : WEIGHT IS CALCULATED USING THE FOLLOWING FORMULA

$$W = (D-t) t \times 0.02466$$

W = Weight (kg/m)  
D = Outside diameter of pipe (mm)  
t = Thickness of material (mm)

Calculation result integrated into 2 decimal places.  
Third place decimal <0.005 is eliminated, ≥ 0.005 is integrated up

# PROJECT



LRT - PALEMBANG



PROJECT ASAHIMAS  
CILEGON-BANTEN



JEMBATAN TOL  
KERTOSONO - SOLO



PLM HYDRO -  
PEKALONGAN



JETTY MERAK -  
BANTEN

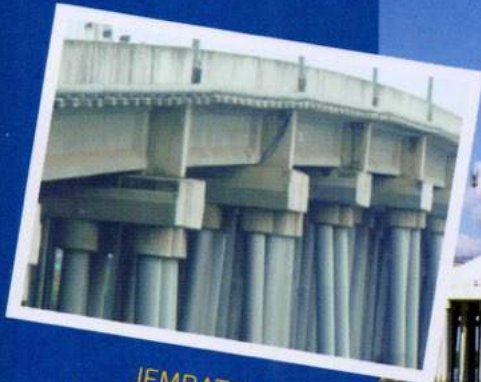


DERMAGA BAKAUHENI-  
LAMPUNG

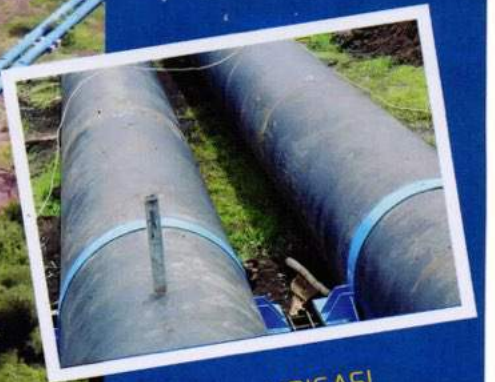
# PROJECT



PT. SWI JETTY NUSANTARA



JEMBATAN  
KAPUK NAGA INDAH -  
JAKARTA



JARINGAN IRIGASI  
LEUWIGOONG -  
GARUT



PT. SWARNA BAJAPACIFIC

“

## A STEP AHEAD

DO MORE THAN EXIST	<b>BE ALIVE</b>
DO MORE THAN TOUCH	<b>FEEL</b>
DO MORE THAN LOOK	<b>OBSERVE</b>
DO MORE THAN READ	<b>ABSORB</b>
DO MORE THAN HEAR	<b>LISTEN</b>
DO MORE THAN WATCH	<b>UNDERSTAND</b>
DO MORE THAN THINK	<b>MEDITATE</b>
DO MORE THAN TALK	<b>SAY SOMETHING</b>

”

# SPIRAL WELDED STEEL PIPE MANUFACTURER



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