Wire Drawing with Wire Galvanizing Plant.

Hot Dip Galvanizing Plant.

Galvanized Mild Steel



(MS) Wire





Introduction

A wire is a circular, small diameter flexible rod. Wire drawing is a cold working process. It is an operation to produce wire of various sizes within certain specific tolerances. This process involves reducing diameter of thick wire by passing it through a series of wire drawing dies with successive die having smaller diameter than the preceding one. Mostly die are made by chilled cast iron, tungsten carbide, diamond or other tool material. The maximum reduction in area of wire is less than 45% in one pass.





Wire drawing, Making of wire, generally from a rod or bar. The wire-drawing process consists of pointing the rod, threading the pointed end through a die, and attaching the end to a drawing block. The block, made to revolve by an electric motor, pulls the lubricated rod through the die, reducing it in diameter and increasing its length. Fine wire is made by a multiple-block machine, because the reduction cannot be performed in a single draft.

Drawing is a widely used process because of its unbeatable advantages over any other procedure.





The advantages of wire and rod drawing of other applications are:

- Good surface finishing
- Adaptability to mass production
- Close dimensional control
- Improved dimensional properties
- Economic benefits

Commercial wire drawing usually starts with a coil of hot rolled 9 mm diameter wire. The surface is first treated to remove scales. It is then fed into a wire drawing machine which may have one or more blocks in series.



Wires are drawn from carbon steel, alloy steel, stainless steel, etc. ferrous metals as also from aluminum, copper, brass, bronze and many other alloys. Nonferrous wires are used in electrical power transmission, viz. wires and cables, electronics systems and even in semiconductor IC etc. packaging, motor and transformer windings.

Galvanizing is the practice of immersing clean, oxide-free iron or steel into molten zinc in order to form a zinc coating that is metallurgically bonded to the iron or steel's surface. The zinc coating protects the surface against corrosion by providing protection to the iron or steel in two ways.





Hot-dip galvanized wire application:

This kind of wire is extensively used in such place:

- Construction.
- Handicrafts.
- Woven wire mesh.
- Express way fencing mesh.
- Packaging of product.





Advantages of using galvanized MS wire:

- Softness of wire
- Smoothness make the appearance look better
- Shining
- Uniform coating increases the product life
- Perfect MS wire ensures double life than any other ordinary galvanized wire available in the market.





Market Outlook

Galvanized M.S. Wire has versatile use in producing different engineering items such as Building Hardware's, barbed wires, Screens rivets etc. Special quality of wire is also required for producing special purpose fasteners, reinforcement wire etc. The Galvanized M.S. Wire is a Mild Wire which is coated with a steel layer of Zinc. The coating of Zinc provides cathodic protection to underneath Steel surface. The Galvanized M.S. Wire offers better surface protection at lower cost in humid atmosphere.

The Galvanized M.S. Wire has very good demand for its versatile use in different applications. There is a large demand for this item from the downstream industries. With the availability of appropriate technology, the activity is highly feasible in the small scale sector and marketing is generally not a problem.



The more and more electrification and expansion of railway network associated with gauge conversion of railway track is expected to create huge market. On other hand the demand in the field of pre-casted cement product and domestic is expected to increase in many folds. Same way expansion of telephone network will also add demand. It is also used in strand which has got market in electrical and railways etc. G.I. Wires is also used in shipping in the form of round strand.

Construction, machinery and automotive markets especially present significant opportunities for steel wire. Steel wires are also used in a range of infrastructure constructions and many general engineering applications in machinery and heavy equipment and marine industry.



In the automotive industry, steel wires are used for reinforcing tires to add to their strength and durability. Steel binding wires are used to bind and fabricate complex steel reinforcement structures for building of all types. Steel wire is of critical importance in automotive manufacturing for controls.

The projected increase in infrastructure and housing construction and Automobile sector in the coming years is expected to benefit demand for steel and other metal wire industry. Steel wire finds mission critical use in this sector as drilling lines, geophysical cable, offshore mooring ropes and electromechanical cable, and for mooring anchoring, towing, and lifting applications. There is a plethora of growth opportunities for steel wire market. Rapidly expanding construction, Indian infrastructure, telecom and manufacturing industries bode well for the Indian steel wire market.



MS Wires

Demand : Past	and Future
Year	(In Million Metric Tonne)
1990-91	0.85
2000-01	1.62
2001-02	1.73
2002-03	1.82
2003-04	1.94
2004-05	2.06
2005-06	2.19
2006-07	2.33
2007-08	2.49
2008-09	2.65
2009-10	2.83
2010-11	3.02
2011-12	3.21
2012-13	3.40
2013-14	3.60
2014-15	3.80
2015-16	4.00
2016-17	4.25
2017-18	4.45
2018-19	4.75
2019-20	5.03
2024-25	6.50



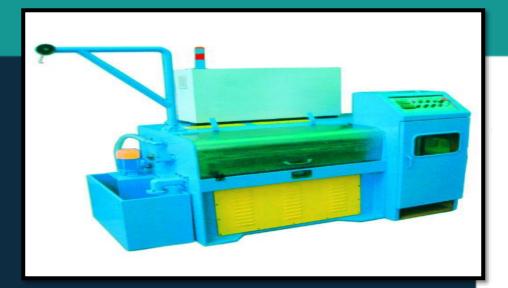
The global galvanized steel market to grow at a CAGR of more than 5% during the period 2018-2022.

The rising applications of galvanized steel pipes in the oil and gas industry are one of the major trends being witnessed in the global galvanized steel market. Galvanized steel pipes are widely used in the oil and gas industry for various applications such as exploration, refining, and transportation. The pipes used in the oil and gas industry should be durable and thermally stable. These pipes work under harsh environmental and chemical conditions.

In 2015, the revenue of Galvanized Steel wire in the USA market was about 124.77 million USD, and in 2016, the revenue of Galvanized Steel wire in the USA market was about 129.79 million USD.



Machinery Photographs



Wire Drawing Machine



Wire Pointing Machine





Hot Dip Galvanizing Bath



Air Compressor



r i ojece a		JIGIN							
COST O	F PROJE	CT		MEANS OF FINANCE					
	Existin	Propose			Existin	Propos			
Particulars	g	d	Total	Particulars	g	ed	Total		
Land & Site									
Development Exp.	0.00	9.00		Capital	0.00	132.94	132.94		
Buildings	0.00	61.30	61.30	Share Premium	0.00	0.00	0.00		
Plant & Machineries	0.00	171.74	171.74	Other Type Share Capital	0.00	0.00	0.00		
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00		
Office Automation Equipments	0.00	208.05	208.05	Cash Subsidy	0.00	0.00	0.00		
Technical Knowhow Fees & Exp.	0.00	10.00		Internal Cash Accruals	0.00	0.00	0.00		
Franchise & Other Deposits	0.00	0.00		Long/Medium Term Borrowings	0.00	398.82	398.82		
Preliminary& Pre- operative Exp	0.00	2.00		Debentures / Bonds	0.00	0.00	0.00		
Provision for				Unsecured					
Contingencies	0.00	16.20	16.20	Loans/Deposits	0.00	0.00	0.00		
Margin Money - Working Capital	0.00			,					
TOTAL	0.00	531.76	531.76	TOTAL	0.00	531.76	531.76		



Yea r	Annu	alised	Boo k Valu e				ined ings	_	Proba ble Mark et Price	P/E Rati o	Yield Price/ Book Value
	EPS	CEPS	Per S		Per Share	Per S	Share			No.of Time	
	•	•	•	•	`	%	•	%	•	S	%
			14.9			100.					
1-2	4.93	9.25	3	24.00	0.00	00	4.93	0.00	4.93	1.00	0.00
2-			23.0			100.					
3	8.16	11.94	9	18.00	0.00	00	8.16	0.00	8.16	1.00	0.00
3-			34.4			100.	11.3				
4	11.36	14.68	5	12.00	0.00	00	6	0.00	11.36	1.00	0.00
			48.9			100.	14.4				
4-5	14.48	17.39	2	6.00	0.00	00	8	0.00	14.48	1.00	0.00
			66.4			100.	17.4				
5-6	17.49	20.05	1	0.00	0.00	00	9	0.00	17.49	1.00	0.00



(Number of

times)

3.00

1.61

0.78

0.35

0.12

0.00

3.00

1.61

0.78

0.35

0.12

0.00

2.10

Yea r	D	. S. C. F	₹.	Debt / - Depos its Debt	Equit y as- Equit y	Net	n on		Profita	bility	Ratio	Assets Turno ver Ratio	
		Cumul ative	Over all					GPM	PBT	PAT	Net Contr ibutio n		

%

%

11.73

%

13.02

13.93

%

14.58

%

%

9.87% 5.16% 3.66%

11.26

%

12.30

%

7.88% 5.19%

9.84% 6.32%

7.16%

7.78%

%

%

9%

9%

9%

9%

9%

2.47

2.66

2.67

2.58

2.43

573.5 31.9

669.0 31.9

764.6 31.9

860.2 31.9

955.8 31.9

3

3

%

2.70

1.59

0.97

0.61

0.40

1.03

1.27

1.56

1.89

2.76

Initi al

1-

2-

3

3-

4-5

1.35

1.69

2.10

2.59

5-6 3.18

(Number of times)

1.35

1.51

1.69

1.89

2.10

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\mathbf{BEP}

BEP -	Maximum	Utilisation	Year

Cash BEP (% of Installed Capacity)

Total BEP (% of Installed Capacity)

IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)

Fixed Assets Coverage Ratio (No. of times)

Payback Period of the Project is (In Years)

Months



57.99%

61.56%

28.55%

10.940

2 Years 3

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Major Queries/Questions Answered in the Report?

- 1. What is Wire Drawing with Galvanizing Plant?
- 2. How has the Wire Drawing Plant performed so far and how will it perform in the coming years?
- 3. What is the Project Feasibility of Wire Drawing with Galvanizing Plant?
- 4. What are the requirements of Working Capital for setting up Wire Drawing Plant?



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Tags

#Wire Drawing, #Steel Wire Drawing, #Application_of_Wire_Drawing_Process, #Wire_Drawing_Process_PPT, Wire Drawing Process Pdf, Wire Drawing Plant, Wire Drawing Business, #Wire_Drawing_Process_for_Steel, Wire Drawing Process, Wire Galvanizing Plant, Wire Galvanizing, #Wire_Galvanizing_Process, Steel Wire Galvanizing Plant, Galvanized Steel Wire, Galvanized Wire Plant, #Galvanizing_Plant, Galvanizing Plant Process, #Galvanized_Wire, Project Report on Wire Drawing with Galvanizing Plant, #Detailed_Project_Report_on_Wire_Drawing_with_Galvanizing_Plant, Industrial Galvanized Wire, Project Report on Wire Drawing with Galvanizing Plant, Pre-Investment Feasibility Study on Wire Drawing with Galvanizing Plant, Techno-Economic feasibility study on Wire Drawing with Galvanizing Plant, Mild Steel Galvanized Wire, Feasibility report on Wire Drawing with Galvanizing Plant, #Free Project Profile on Wire Drawing with Galvanizing Plant, Project profile on Wire Drawing with Galvanizing Plant, Download free project profile on Wire Drawing with Galvanizing Plant, Galvanized M.S. Wire, Hot Dip Galvanizing Plant, Mild Steel Galvanized Wire, Hot Dip Galvanized Wires, Galvanized Wire



Niir Project Consultancy Services (NPCS)
can provide Detailed Project Report on
Wire Drawing with Wire
Calvanizing Plant.
Hot Dip Galvanizing Plant.
Galvanized Mild Steel (MS) Wire

See more

https://bit.ly/2QvMeVQ https://bit.ly/2MiyEGX



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