



Spleen Manufacturing (Pvt.) Ltd.



ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

**Amenity
Starts With
Sincerity and
Commitment**



Corporate Information

Spleen Manufacturing Private Limited



YEAR OF ESTABLISHMENT

2005



STATUS

Private Limited Company



REGISTERED OFFICE/FACTORY

20- Km, Ferozepur Road, Off 3/4 Km,
Asif Town# 2, Lahore - Pakistan



TELEPPHONE NUMBER

+92 42 35274991-4, 35950692



E-MAIL ADDRESS

info@spleenmanufacturing.com.pk



WEBSITE

www.spleenmanufacturing.com.pk



BANKERS

JS Bank Ltd. Lahore, MCB Bank Ltd. Lahore,
Standard Chartered Bank Ltd. Lahore,
Habib Metropolitan Bank Ltd.



REGIONAL OFFICE

Islamabad & Karachi

About Us

SPLEEN MANUFACTURING (PVT.) LTD. having ISO 9001 certification spread over 3,500 sq. Meters covered area with total area of 15,700 sq. Meters Land, came into existence in 2005 with a view to provide the best Engineering Goods to its valued Customers from Domestic as well as International Market with special emphasis on quality.

Spleen Manufacturing initially started its business with the Manufacturing of TeleCommunication Towers of various types & sizes alike Angle Towers, Monopoles, Guy Mast Towers, Solar Steel Structures, Allied Accessories & soon earned its name in the market owin to quality products backed by prompt after sales service being well familiar with CMPAK, Ufone, Zong, Mobilink, Warid, PTCL, Mobiserve, Alandick, ZTE & Huawei.

The ultimate objective of the Management is to bring Spleen Manufacturing at par to world class Manufacturers of similar nature by inducting the most Sophisticated, Hi-tech latest machinery to produce the best quality General Engineering & Fabricated Products conforming to International Standards for the entire satisfaction of its valued Customers to cater their current & future requirements by exploring new business eras gradually adding new product line (s).

Spleen Manufacturing constantly continued speedy work on development & expanded its production facilities to manufacture Distribution Steel Structures, Transmission Line Towers, Grid Station Gantry, Street Lighting Poles (Octagonal, Conical, Tubular, Polygonal Flood Light Poles) apart from its expertise to produce General Engineering & Fabricated Products, Machining, Iron and Steel Casting, Forging, Heat Treatment, Assembly, Sand Blasting, Painting, Surface Treatment and Hot Dip Galvanizing.

Spleen Manufacturing got itself Pre-Qualified from WAPDA/NTDC/DISCO's for the manufacture & supply of 11kV/132kV/220kV Distribution & Transmission Line Towers, Grid Station, Gantry Material, Line Hardware & Allied Accessories. However, efforts are underway to snatch overall major market share of Transmission Line Towers by virtue of Pre Qualification from NTDC for 500kV Towers in the near future.

Moreover, Spleen Manufacturing has been enlisted with NLC, DHA Islamabad & DHA Lahore as approved Vendor/Supplier of Street Lighting Poles, where as efforts are in progress for enlistment with NHA, FWO, DHA Multan, Bahawalpur, Gujranwala, Quetta, Karachi & LDA, CDA, KDA, MDA, Bahria Town & Co-operative Housing Societies etc.

Apart from attaining competitive edge in technology & production, Spleen Manufacturing have gst Certification from Pakistan Engineering council besides having Certification of ISO 9001, ISO 14001 & OHSAS 18001.



To exceed our customers expectations in quality, delivery, and cost through continuous improvement and customer interaction.

Message from **CEO**

Ever since its establishment in 2005, the Spleen Manufacturing (Pvt.) Ltd. (SMPL) has strived to maintain high ethical standards, create products and services that provide value to our customers, and become a company trusted and chosen by all of its stakeholders, including customers, under the motto of "Better Products, Better Services."

Our overall strategy is to invest in projects that generate long-term value, achieving returns well above our cost of capital. Maintaining a strong balance sheet ensures that we will be able to thrive through the cycles. We are focused on value-added growth, which we achieve through our portfolio of high-quality Products, track record of operational excellence, and commitment to capital discipline and growing the dividend.

Going forward, we will aim to establish a corporate culture in which every member of the SMPL possesses the spirit of self-help and takes initiative in carefully assessing societal and customer expectations, considering what can be done to meet these expectations, taking appropriate action, and providing value, as well as to build stronger relationships of trust with all of our stakeholders.

We look forward to your continued support and patronage.

Maqbool Ahmed

CEO



OUR PRODUCTS

Spleen Manufacturing is one of the Leading Light & Heavy Engineering Concern in Pakistan playing a vital role in the Economic growth of the Country by manufacturing & ensuring Quality Engineering Goods & Services conforming to International Standards. The current range of Products includes:-



Transmission Line Towers

- ✓ 132/220 KV Transmission Line Towers
- ✓ 132/220 KV Sub-Station Steel Gentries
- ✓ 11 KV Steel Structure & Hardware



General Products

- ✓ Overhead Bridges & Overhead Crane
- ✓ Pre Fabricated Sheds, Offices & Warehouse

Steel Structures



Solar Steel Structures



Tele-Communication Towers

- ✓ Self Supported Towers
- ✓ Guyed Mast Towers
- ✓ Monopoles
- ✓ Related Accessories

Street Lighting Poles



- ✓ Octagonal Pole
- ✓ Conical Pole
- ✓ Tubular Pole

CCTV Camera Poles



Cable Tray & Cable Ladder & Accessories



TRANSMISSION LINE & DISTRIBUTION TOWERS



132 KV Transmission Line Tower



220 KV Transmission Line Tower



11KV Steel Structure



132KV Sub-Station Steel Gantry

TELECOMMUNICATION TOWER



Green Field Lattice Steel Tower



Roof Top Lattice Steel Tower



Monopole

EQUIPMENT ASSURES THE EXCELLENCE



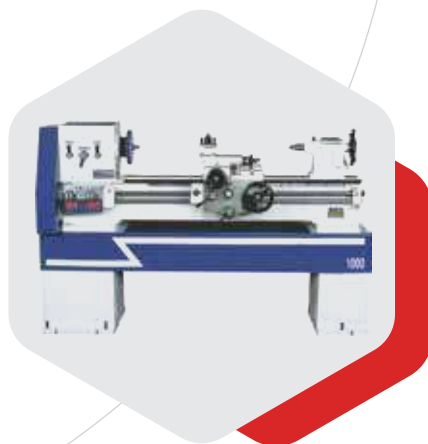
Radial Drilling Machine



Hydraulic Press Machine



Rolling Machine



Lathe Machine

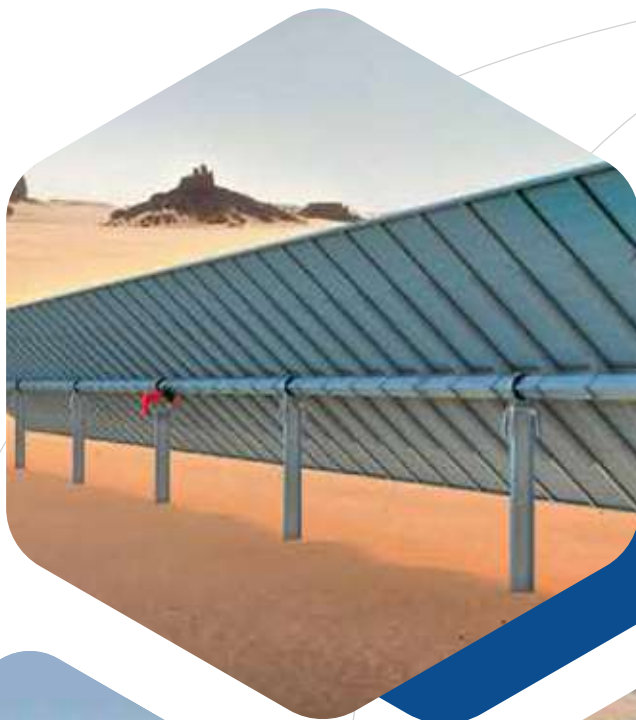


PRE FABRICATED SHEDS



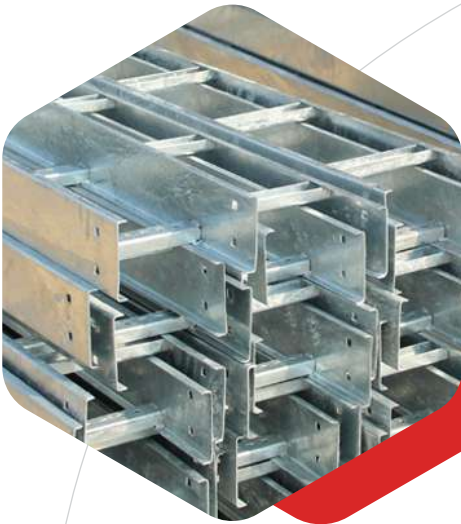


SOLAR STEEL STRUCTURE



Spleen Manufacturing constantly continued speedy work on development & expanded its production facilities to manufacture Octagonal, Conical, Tubular, Polygonal Flood Lights Poles & CCTV Camera Poles & Solar Steel Structure

- ✓ Street Light Poles
- ✓ CCTV Camera Poles
- ✓ Solar Steel Structure
- ✓ Cable Tray & Cable Ladder
- ✓ Road Sign Boards & Guard Rail



MONOPOLES

Flood Light Pole Fixed & Auto Lift System
Lightening Mast Pole.

The monopoles are used for telecommunication purpose and normally consist of a main pole shaft with a working platform at the top to cater for the installation and maintenance of microwave and dish antenna.

Technical Specification

Mast Material:	ASTM A36
Welding:	AWS DI .1
Galvanizing:	ASTM A123
Height:	On Request

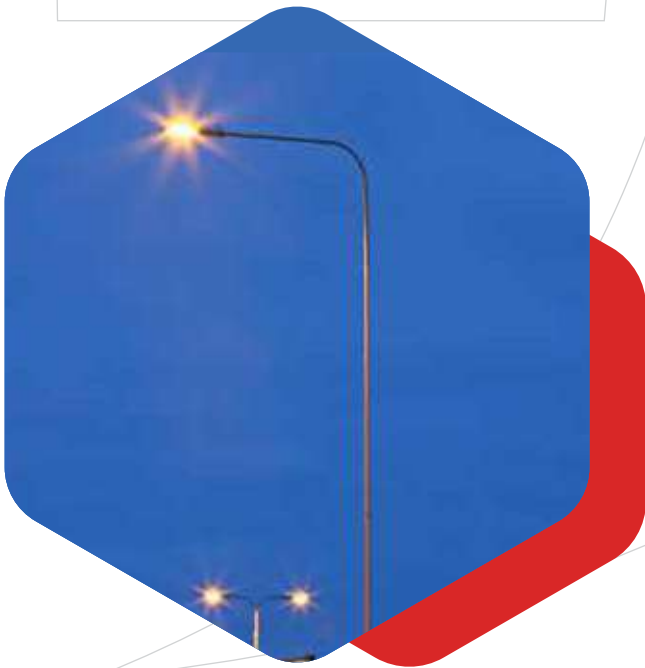


OCTAGONAL POLE

The tapered octagonal pole has a variety of uses from supporting arms to Industrial developments, from (3-18) Meter due to its wide range of uses, the tapered octagonal pole is also known as general purpose pole.

Technical Specification

Material:	ASTM A36
Welding:	AWS DI .1
Galvanizing:	ASTM A123
Height:	3-18 Meter
Thickness:	From 3mm up to 8mm
External Diameter:	(Min at top) 60mm: (Max at base) on Request Variable Arm Length from 0.125-3m





OCTAGONAL LIGHTING POLE

Heavy Weight

Sr. No.	Item Code	Height (m)	Top Dia (mm)	Base Dia (mm)	Thick (mm)	Base Plate (mm)	Stiffener (mm)	Bolt Dia (mm)
1	SMPL-O3	3	60	110	3	240 x 10	65 x 160 x 6	16 x 350
2	SMPL-O4	4	60	120	3	250 x 10	65 x 160 x 6	16 x 350
3	SMPL-O5	5	60	130	3	270 x 12	70 x 170 x 8	16 x 500
4	SMPL-O6	6	60	150	3	300 x 12	75 x 175 x 10	19 x 500
5	SMPL-O7	7	60	160	3	340 x 16	90 x 225 x 10	19 x 600
6	SMPL-O8	8	60	170	3	360 x 20	95 x 235 x 12	22 x 600
7	SMPL-O9	9	70	180	3.5	380 x 20	100 x 250 x 12	25 x 600
8	SMPL-O10	10	70	180	4	380 x 20	100 x 250 x 12	25 x 600
9	SMPL-O11	11	70	190	4	400 x 20	105 x 250 x 12	25 x 800
10	SMPL-O12	12	70	200	4	400 x 20	100 x 250 x 12	25 x 800

Light Weight

Sr. No.	Item Code	Height (m)	Top Dia (mm)	Base Dia (mm)	Thick (mm)	Base Plate (mm)	Stiffener (mm)	Bolt Dia (mm)
1	SMPL-103	3	60	120	3	300 x 10	90 x 180 x 6	16 x 350
2	SMPL-104	4	60	120	3	300 x 12	90 x 180 x 6	16 x 350
3	SMPL-105	5	60	140	3	300 x 12	80 x 200 x 6	16 x 500
4	SMPL-106	6	65	140	3	300 x 12	80 x 200 x 6	16 x 500
5	SMPL-107	7	80	180	3	400 x 16	110 x 250 x 8	20 x 600
6	SMPL-108	8	85	180	3	400 x 16	110 x 250 x 8	20 x 600
7	SMPL-109	9	90	200	4	400 x 20	100 x 250 x 10	24 x 600
8	SMPL-110	10	95	200	4	400 x 20	100 x 250 x 10	24 x 600
9	SMPL-111	11	100	220	4	400 x 20	90 x 250 x 10	27 x 800
10	SMPL-112	12	100	250	4	400 x 25	75 x 190 x 12	27 x 800

Octagonal Pole (Overlapped)

Sr. No.	Item Code	Height (m)	Top Dia (mm)	Base Dia (mm)	Thick (mm)	Base Plate (mm)	Stiffener (mm)	Bolt Dia (mm)
11	SMPL-O14	14	110	270	5.4	500 x 25	115 x 300 x 12	28 x 800
12	SMPL-O15	15	110	320	6.4	550 x 25	115 x 350 x 12	28 x 1000
13	SMPL-O16	16	110	350	6.4	550 x 25	100 x 350 x 12	28 x 1000
14	SMPL-O18	18	120	400	8.5	600 x 25	100 x 350 x 12	28 x 1000

CONICAL POLE

Light Weight

Sr. No.	Item Code	Height (m)	Top Dia (mm)	Base Dia (mm)	Thick (mm)	Base Plate (mm)	Stiffener (mm)	Bolt Dia (mm)
1	SMPL-C3	3	60	90	3	200 x 10	55 x 140 x 6	16 x 350
2	SMPL-C4	4	60	100	3	220 x 10	60 x 150 x 6	16 x 350
3	SMPL-C5	5	60	110	3	240 x 12	65 x 160 x 8	16 x 500
4	SMPL-C5A	5	75	125	3	260 x 12	65 x 170 x 8	16 x 500
5	SMPL-C6	6	60	120	3	250 x 16	65 x 170 x 10	19 x 500
6	SMPL-C6A	6	75	135	3	280 x 16	70 x 180 x 10	19 x 500
7	SMPL-C7	7	60	130	3	280 x 16	75 x 185 x 10	19 x 500
8	SMPL-C7A	7	75	145	3	300 x 16	75 x 185 x 10	19 x 500
9	SMPL-C8	8	60	140	3,5	300 x 20	80 x 200 x 12	22 x 600
10	SMPL-C8A	8	75	155	3,5	320 x 20	80 x 200 x 12	22 x 600
11	SMPL-C9	9	60	150	4	320 x 20	85 x 210 x 12	25 x 600
12	SMPL-C9A	9	75	165	4	350 x 20	90 x 230 x 12	25 x 600
13	SMPL-C10	10	60	160	4,5	350 x 20	95 x 240 x 12	25 x 800
14	SMPL-C10A	10	75	175	4,5	370 x 20	95 x 240 x 12	25 x 800
15	SMPL-C11	11	60	170	4,5	360 x 20	95 x 235 x 12	25 x 800
16	SMPL-C11A	11	75	185	4,5	400 x 20	105 x 270 x 12	25 x 800
17	SMPL-C12	12	60	180	4,5	400 x 20	110 x 275 x 12	25 x 800

Heavy Weight

Sr. No.	Item Code	Height (m)	Top Dia (mm)	Base Dia (mm)	Thick (mm)	Base Plate (mm)	Stiffener (mm)	Bolt Dia (mm)
1	SMPL-203	3	60	90	3	250 x 10	80 x 160 x 6	12 x 350
2	SMPL-204	4	60	100	3	250 x 12	75 x 180 x 6	16 x 350
3	SMPL-205	5	60	110	3	300 x 12	95 x 230 x 6	16 x 500
4	SMPL-205A	5	75	125	3	300 x 12	85 x 210 x 6	16 x 500
5	SMPL-206	6	60	120	3	300 x 16	90 x 225 x 8	19 x 500
6	SMPL-206A	6	75	135	3	300 x 16	80 x 200 x 8	19 x 500
7	SMPL-207	7	60	130	3	350 x 20	110 x 270 x 10	19 x 500
8	SMPL-207A	7	75	145	3	370 x 20	110 x 270 x 10	19 x 500
9	SMPL-208	8	60	140	5	400 x 25	130 x 325 x 12	22 x 600
10	SMPL-208A	8	75	155	5	420 x 25	130 x 325 x 12	22 x 600
11	SMPL-209	9	60	150	5	400 x 30	125 x 310 x 15	25 x 600
12	SMPL-209A	9	75	165	5	420 x 30	125 x 310 x 15	25 x 600
13	SMPL-210	10	60	160	5	450 x 30	145 x 350 x 15	25 x 800
14	SMPL-210A	10	75	175	5	450 x 30	135 x 350 x 15	25 x 800
15	SMPL-211	11	60	170	5	450 x 30	140 x 350 x 15	25 x 950
16	SMPL-211A	11	75	185	5	470 x 30	140 x 350 x 15	25 x 950
17	SMPL-212	12	60	180	5	450 x 30	135 x 350 x 15	25 x 950



TUBULAR LIGHTING POLE

Sr. No.	Item Code	Height (m)	H1 (m)	H2 (m)	H3 (m)	ND1 x Thick	ND2 x Thick	ND3 x Thick	Base Plate (mm)	Stiffener (mm)	Bolt Dia (mm)
1	SMPL-T7	7	3.5	1.75	1.75	4"x4	3" x 3	2" x 3	300 x 16	90 x 200 x 10	19 x 500
2	SMPL-T7.5	7.5	4	1.75	1.75	4"x4	3" x 3	2" x 3	300 x 16	90 x 200 x 10	19 x 500
3	SMPL-T8	8	4	2	2	5"x4	3 1/2" x 3	2" x 3	350 x 20	100 x 250 x 12	22 x 600
4	SMPL-T8A	8	4	2	2	5"x5	3 1/2" x 4	2" x 3	350 x 20	100 x 250 x 12	22 x 600
5	SMPL-T8.5	8.5	4.5	2	2	4"x5	3" x 3	2" x 3	350 x 20	115 x 300 x 12	22 x 600
6	SMPL-T8.5A	8.5	4.5	2	2	5"x5	4" x 4	2" x 3	350 x 20	100 x 250 x 12	22 x 600
7	SMPL-T9	9	4.5	2.25	2.25	5"x4	3" x 3	2 1/2" x 3	400 x 20	130 x 300 x 12	25 x 600
8	SMPL-T9A	9	4.5	2.25	2.25	5"x5	4" x 4	2 1/2" x 3	400 x 20	130 x 300 x 12	25 x 600
9	SMPL-T9B	9	4.5	2.25	2.25	6"x5	4" x 4	2 1/2" x 3	400 x 20	115 x 300 x 12	25 x 600
10	SMPL-T9.5	9.5	5	2.25	2.25	5"x4	4" x 3	2 1/2" x 3	400 x 20	130 x 300 x 12	25 x 800
11	SMPL-T9.5A	9.5	5	2.25	2.25	5"x5	4" x 4	2 1/2" x 3	400 x 20	130 x 300 x 12	25 x 800
12	SMPL-T9.5B	9.5	5	2.25	2.25	6"x5	4" x 4	2 1/2" x 3	400 x 20	115 x 300 x 12	25 x 800
13	SMPL-T10	10	5	2.5	2.5	5"x5	4" x 4	2 1/2" x 3	400 x 20	130 x 300 x 12	25 x 800
14	SMPL-T10A	10	5	2.5	2.5	6"x5	4" x 4	2 1/2" x 3	400 x 20	115 x 300 x 12	25 x 800
15	SMPL-T10.5	10.5	5	2.75	2.75	6"x5	4" x 4	2 1/2" x 3	400 x 20	115 x 300 x 12	25 x 800
16	SMPL-T11	11	5	3	3	6"x5	5" x 4	2 1/2" x 3	400 x 20	115x300x12	25 x 800
17	SMPL-T12	12	5.5	3.25	3.25	6"x5	5" x 4	2 1/2" x 3	400 x 20	115x300x12	25 x 800
18	SMPL-T12.5	12.5	6	3.25	3.25	8"x4	5" x 4	2 1/2" x 3	420 x 20	100x 300x 12	25 x 800





CCTV CAMERA POLE

Product Description:

Top quality Camera Poles made of GI, Hot dip galvanized with accessories like Base plate & foundation bolt. These are manufactured by using premium quality raw material. This Camera Pole is in extensive demand in the market for its premium quality. Non abrasive, resistant to high temperature & wind that is manufactured using quality raw material. These can also be customized as per the specifications given by the clients.

Features:

- ✓ Quality Tested
- ✓ Easy To Install
- ✓ High Strength
- ✓ Best Grade Material Used

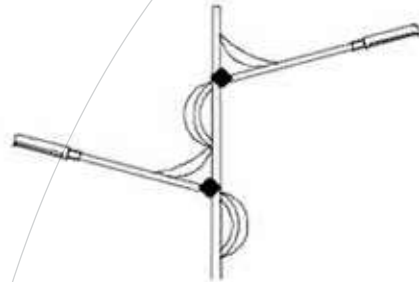
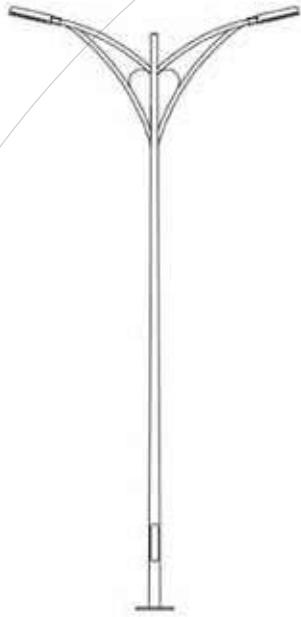




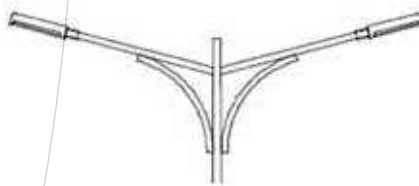
LIGHTING POLE & ARM DESIGN



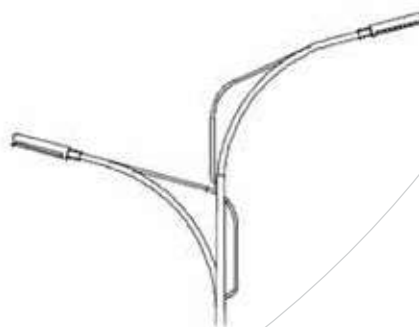
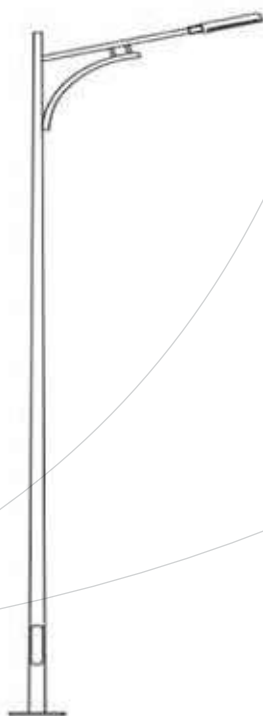
DIFFERENT ARM DESIGN



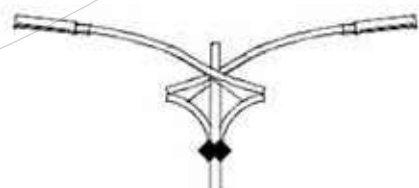
SMPL-101



SMPL-102

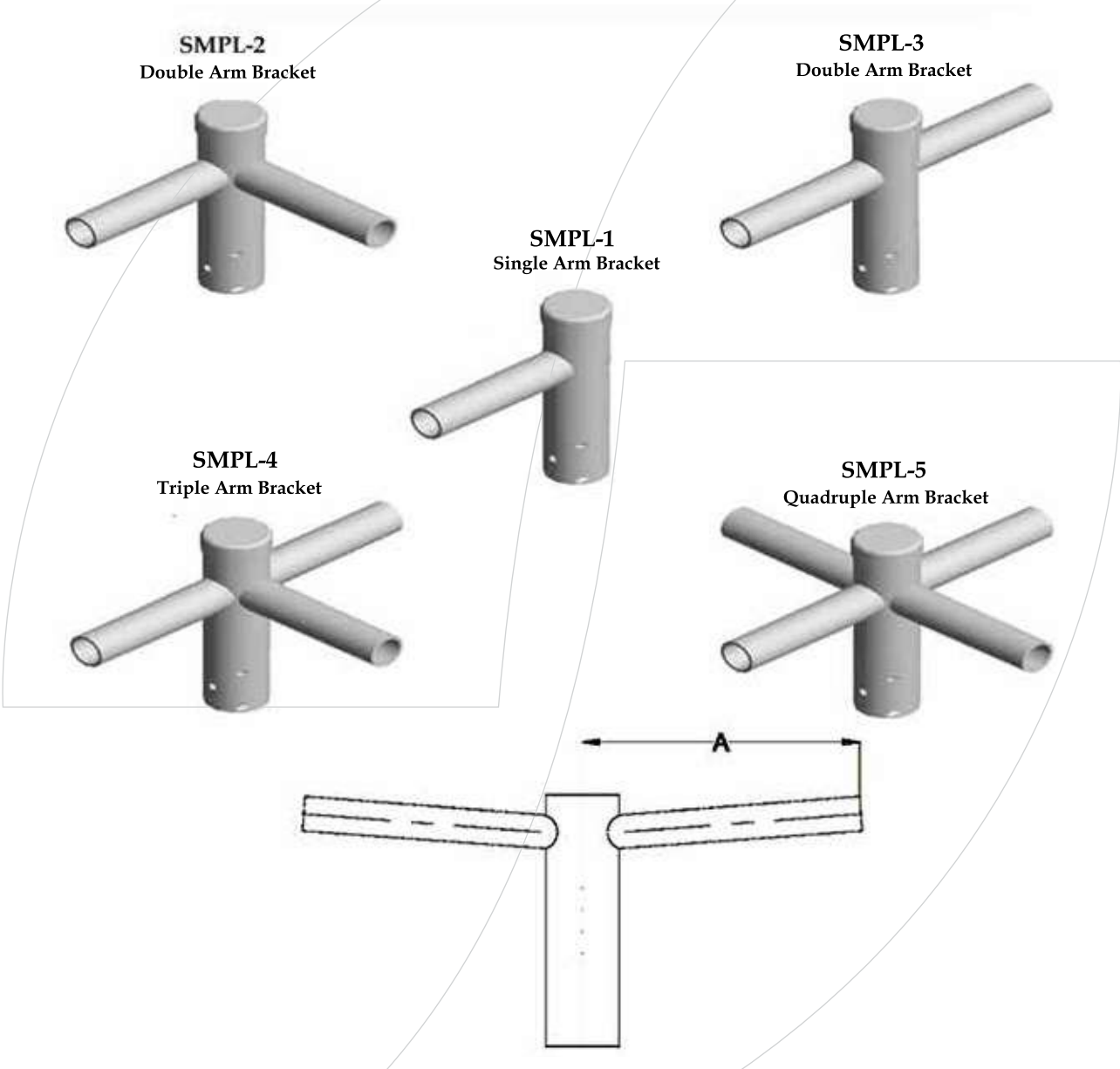


SMPL-103



SMPL-104

BRACKETS AND ARMS DESIGN (LIGHTING POLES)

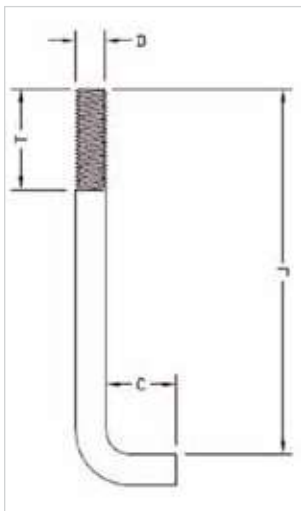


Brackets and Arms Design					
All dimension are in mm unless otherwise specified					
Sr. No.	Item Code	Length (A)	Legth (B)	Dia (A)	Dia (B)
1	SMPL-1	1000	300	48x3	75x4
2	SMPL-2	1200	350	48x3	75x4
3	SMPL-3	1500	350	60x3	95x4
4	SMPL-4	2000	400	60x3	95x4
5	SMPL-5	2500	500	76x3	105x4



ANCHOR BOLTS

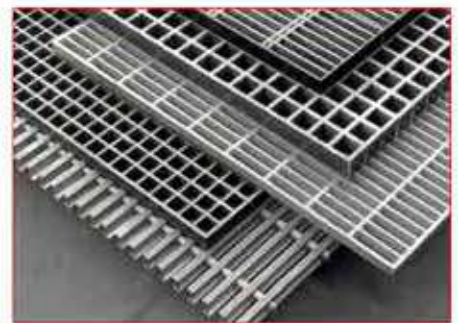
(LIGHTING POLES)



Anchor Bolt			
All dimension are in mm unless otherwise specified			
Sr. No.	Diameter (D)	Length (L)	Thread Length (T)
1	M14	350	100
2	M16	500	100
3	M20	600	100
4	M24	600	100
5	M27	800	120
6	M32	1000	120

Anchor Bolts are generally manufactured from round bars from 14mm to 32mm in Diameter. It could be supplied in J, I, L types.

CABLE LADDER, CABLE TRAY & GRATING



ACCESSORIES FOR PERFORATED TYPE TRAYS



HORIZONTAL BENDS



VERTICAL RISERS (INSIDE)



VERTICAL RISERS (OUTSIDE)



TEES (EQUAL & UNEQUAL)



CROSS (EQUAL & UNEQUAL)



REDUCERS



FISH PLATES



PARTITION PLATES



BLIND END / END PLATE



www.spleenmanufacturing.com.pk

QUALITY CONTROL

Advanced Inspection Instruments and Complete Inspection Measures

The Quality Management System has been certified for ISO 9001-2008. The system ensures that the products adequately comply with the standards and specifications required by the customer.

QA/QC activities envisage guarantee that the materials supplied fully comply with the required standard & specifications. It is also ensured that all the employees interacting with the quality of the final product, are well trained and equipped with calibrated measuring/monitoring instruments to perform their assigned tasks with utmost proficiency of accuracy.

Inspection activities start first from the receipt of raw material during the process of manufacturing and galvanizing until the final shipment. Computerized In-house Mechanical & Chemical Testing Lab ensures that the raw material is tested at random and approved before fabrication.

Inspection is conducted by the trained and highly skilled QC Staff at every stage of production. Traceability, starting from receiving raw material until shipment of the final product, however, it is well maintained and recorded in the QA/QC Fabrication Checklist.

Periodical galvanizing tests and other chemical tests are also conducted In-house at approved chemical lab to monitor the various galvanizing process parameters.





IN-HOUSE MATERIAL TESTING LAB

APPROVED BY NTDC/WAPDA



Universal Testing Machine
(TUN-1000)



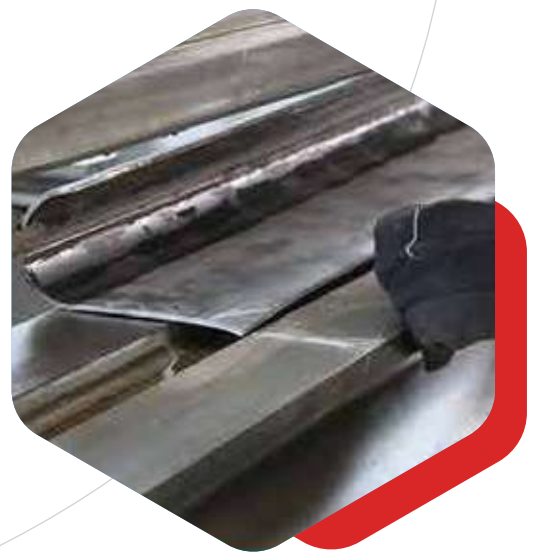
Impact Testing Machine
(AIT-300)



Chemical Testing Lab



12-METER LONG PRESS BRAKE





PRODUCTION FACILITIES

Trapezoidal Form Sheet Cutting Process





PLASMA DOOR CUTTING PROCESS

Welding Process





CNC ANGLE PUNCHING MARKING & CUTTING MACHINE

In our Production Line BL2020C is a CNC Angle line machine. The CNC machine is mainly used for punching, Marking and Cutting on steel angles. The size of the angle is from 56x56x6mm to 200x200x20mm. The machine is mainly used for processing holes on angles. The angle line punching force of BL2020C is 950 KN the angle machine cutting force of BL2020C is 1540 KN, without enlarging.





CNC HYDRAULIC PUNCHING MACHINE FOR PLATES

In our Production Line The plate punching machine uses work table moving type. This punch machine mainly used for punching hole on the plate. The max. punching force is 100KN. The max. workpiece size is 1500x775mm. The metal punching machine equipped with Manual-Labrication System for the Linear Guide and Ball Screw. The machine equipped with chip cleaner box. The PP103B equips a drilling spindle on the side of the punching unit. Max drilling diameter is 50mm, Max plate thickness is 25mm.





PROCESS FACILITIES

Mechanical

- ✓ Drilling
- ✓ Grinding
- ✓ Forging
- ✓ Turning
- ✓ Milling
- ✓ Boring
- ✓ Welding
- ✓ Press Working
- ✓ Flame Cutting

Surface Finishing

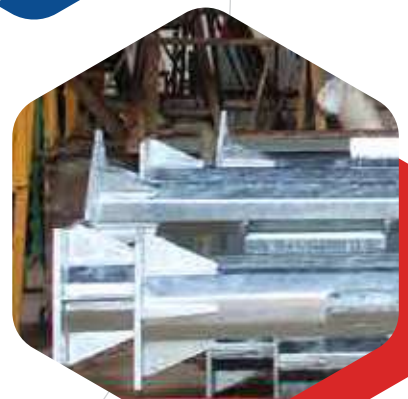
- ✓ Surface Treatment
- ✓ Sand Blasting
- ✓ Hot Dip Galvanizing

Production Capacity

(On Single Shift Basis)

- ✓ Steel Structure 20,000 M.TON/Annum
- ✓ General Engineering/Fabrication 15,000 M.TON/Annum
- ✓ Galvanizing 18,000 M.TON/Annum

HOT DIP GALVANIZING PROCESS





QUALIFICATION HONOUR



A hand holding a yellow line graph with an upward-pointing arrow, symbolizing growth and investment. The background is dark and textured. The text 'm.pk' is visible in the top left corner.

Gepco 132KV Tower Performance Certificate

Gepco 132KV Tower Performance Certificate

Gepco 220KV Tower Performance Certificate

Gepco Gantries Performance Certificate

PPJV Towers Performance Certificate

ABB Performance Certificate

DEVELOPMENT PROCESS

- 2004:** Spleen Manufacturing Private Limited Established.
- 2006:** ISO 9001 Certified.
- 2006:** OHSAS 18001 Certified.
- 2006:** ISO 14001 Certified.
- 2010:** Qualified in WAPDA 132 KV Transmission Line Tower.
- 2010:** Qualified in 11 KV Steel Structure & Hardware For WAPDA.
- 2011:** Qualified in WAPDA 220 KV Transmission Line Tower by NESPAK.
- 2012:** Started International Level Exports.
- 2013:** Material supplied at Nandi Pur Power Plant.
- 2014:** Successfully completed SIEMENS Afghanistan Project.
- 2015:** Successfully completed Projects Of 5000 M/Ton Transmission Line Towers &
- 3000:** M/Ton of Grid Station Gantries material.
- 2016:** Prototype Approval of 220KV T/L Tower by FESCO.
- 2017:** Prototype Approval of 220KV T/L Towers from NTDC/WAPDA.
- 2018:** Completed education order of NTDC for EA, EG, ED, JKD, A T-type Towers of 5000 M/Ton. Tele-Communication Towers 2200 M/Ton Material.
- 2019:** Induction of Street Light Pole (Octagonal Poles, Conical Poles, Tubular Poles, Flood Light Poles)
- 2022:** Successfully completed FWO QESCO LOT IV Project of 5500 M/ TON Transmission Line Towers within 4 Months of time.
- In future planning to go for 500kV Transmission Line Towers & 132kV/220kV Tubular Poles.**



OUR CLIENTS PARTNERS



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Sindh Transmission & Dispatch Company (Pvt.) Limited



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VESCO INTERNATIONAL





Spleen Manufacturing (Pvt.) Ltd.

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