



Al Ashoury Industry

POLES CATALOGUE



LIGHTING POLES • DISTRIBUTION • HIGH MAST
CAMERA POLES • FLAGS • UNIPOLES • TRAFFIC SIGNALS



005



عاشق



*In The Name of Allah,
The Most Compassionate, The Most Merciful.*

Introduction



AL ASHOURY For Power Telecom and Steel Industry (ASH POLES) is located in the third Industrial Area, Riyadh K.S.A was established in 1990.

ASH Powers has been a liable company committed to excellence in the fields of Power, Telecom, Cable Management and Steel Support Systems and has secured the trust of clients.

ASH Powers is ISO 9001, ISO 14001 and OSHAS certified company. Lately we have added a division for design and manufacturing of galvanized (lighting-tapered and multisided-high mast and decorative) steel poles.

Our new facility is 20,000 Mt/ton capacity equipped with latest technology CNC machines supported with highly trained designers and manufacturing Engineers which gives us the ability and flexibility to meet customers' specification within time and cost in mind.

Our Products are highly resistible to environmental conditions and up to international standards.



Vision

To be preferred global performer & leader in design, manufacture & supply of galvanized steel pole with a constant focus on attributes of sustainability & profitability.

Mission

Providing customers with the Following:

- High Quality poles & high Quality products
- On time delivery
- Best price

Special Features:

- Fully CNC Production Line

Automatic Cut to length line –Automatic Trapezoidal Cut – Automatic Folding – Automatic Longitudinal Welding Line – Auto- Straightening line.

- Professional & Certified Welders.
- Professional Design Engineers.
- Supported with High Capacity Galvanizing Plant.



005



Octagonal Poles

Al-Ashoury Poles concerned with high Quality production steel poles either in conical shape or octagonal sections which carried out by advance modern computerized machines (CNC).

Manufacturing process includes:

- Cut to Length
- Trapezoidol cutting
- CNC Bending
- CNC Welding
- Straightening Poles
- Workshop finishing
- Hot Dip Galvanizing

Materials:

The steel generally used to manufacture steel poles according to (ASTM A36) or any equivalent specification with the following:

GRADE	UNIT	A36	A572
YIELD STRENGTH	MPA	250	355
TENSILE STRENGTH	MPA	400	510

Surface protection:

The poles are protected against corrosion with listed types:

Hot dip galvanization: carried out according with (ASTM 123)

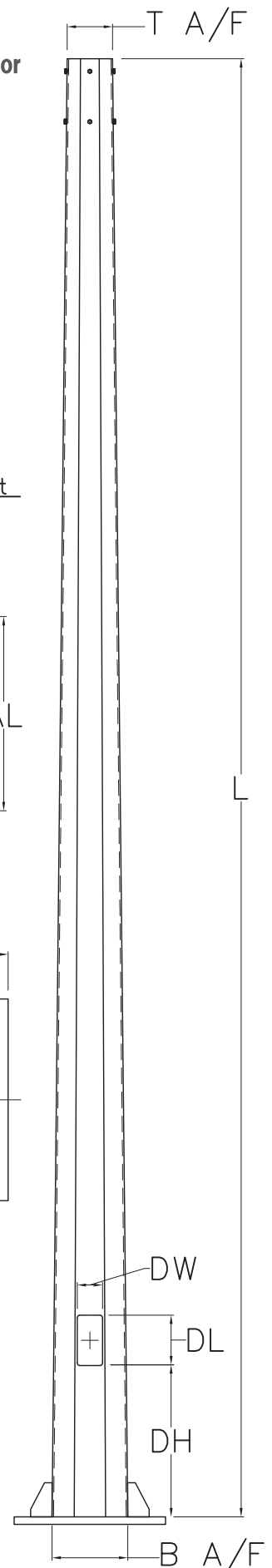
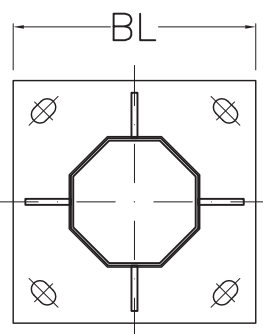
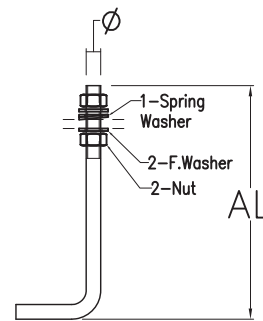
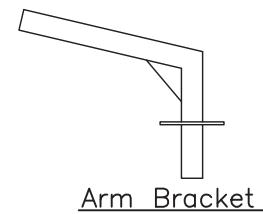
Painting pole surface by antirust material

Production Features:

poles has the capability to made productions of polygonal poles up to 16 sides.

DIMENSIONS	
LENGTH	Up to 16 mtr (for one section)
THICKNESS	From 3mm up to 8mm
EXTERNAL DIAMETER	Min. at top – 60mm Max. at base—on request

TOLERANCE	
ON LENGTH	+/- 25mm
ON THICKNESS	+/- 0.02mm
ON CIRCUMFERENCE	+/- 1.05%
ON DIAMETER	+/- 3% from the circumference
ON STRAIGHTNESS	<0.003



Standard Octagonal Poles

HEIGHT POLE	TOP DIAMETER	BASE DIAMETER	THK	DOOR SIZE	BASE PLATE	ANCHOR POLTS DxL
mtr	mm	mm	mm	mm	mm	mm
3	60	102	3	300x80	250x10	18x400
4	60	156	3	300x80	250x10	18x400
5	60	156	3	400x100	350x10	24x500
6	60	156	3	400x100	350x10	24x500
7	60	190	3	400x140	400x15	24x500
8	60	190	4	400x140	400x15	24x500
9	60	190	4	400x140	400x15	24x500
10	100	210	4	400x140	400x15	27x700
12	100	250	4	400x140	400x20	27x700
14	110	285	4	500x140	500x20	27x900
15	120	300	4/5	500x150	550x25	30x1000
16	120	320	4/5	500x150	550x25	30x1000

KB Octagonal Poles

HEIGHT POLE	TOP DIAMETER	BASE DIAMETER	THK	BASE PLATE	DOOR SIZE	ANCHOR POLTS DxL
mtr	mm	mm	mm	mm	mm	mm
6	60	140	4	350x15	400x100	24x500
8	75	165	4	350x15	400x140	24x500
10	75	190	4	400x15	400x140	27x700
12	90	257	4	400x20	400x140	27x700
15	110	296	4/5	450x25	500x140	30x1000
16	114	296	4/5	500x25	500x150	30x1000



Conical Poles

The Conical Steel poles are manufactured with the process described previously and with taper ratio, 12, 15, 17, 19 & 25mm/m.

DIMENSIONS

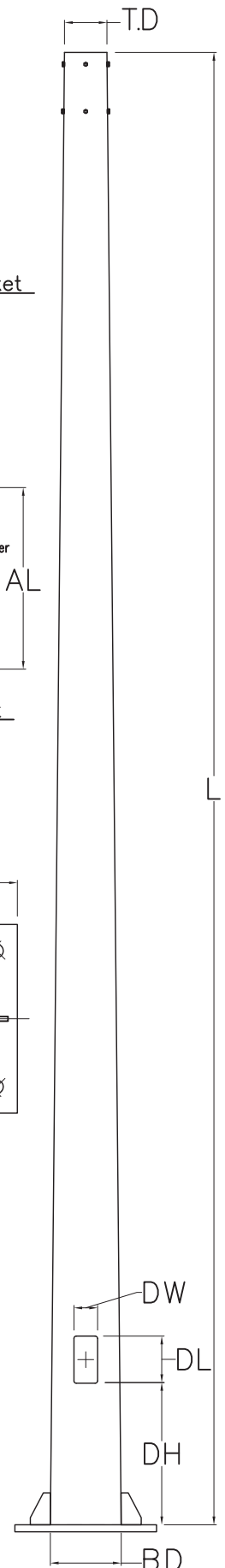
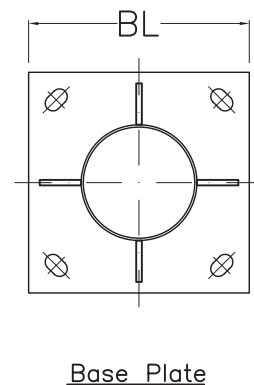
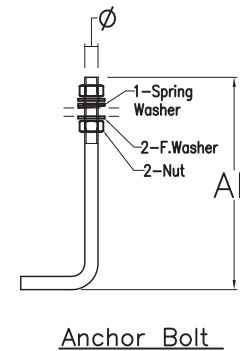
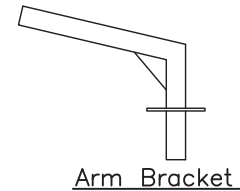
LENGTH	Up to 16 mtr (for one section)
THICKNESS	From 3mm up to 8mm
EXTERNAL DIAMETER	Min. at top – 60mm Max. at base—on request

TOLERANCE

ON LENGTH	+/- 25mm
ON THICKNESS	+/- 0.02mm
ON CIRCUMFERENCE	+/- 1.05%
ON DIAMETER	+/- 3% from the circumference
ON STRAIGHTNESS	<0.003

Standard Conical Poles

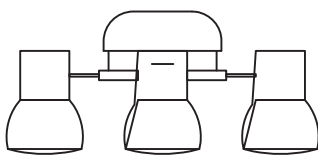
HEIGHT POLE	TOP DIAMETER	BASE DIAMETER	THK	DOOR SIZE	BASE PLATE	ANCHOR POLTS DxL
mtr	mm	mm	mm	mm	mm	mm
4	60	120	3	300x80	250x10	18x400
5	60	120	3	300x80	350x10	24x500
6	60	130	3	400x100	350x10	24x500
7	60	140	3	400x140	400x15	24x500
8	75	170	4	400x140	400x15	24x500
9	75	180	4	400x140	400x15	24x500
10	75	190	4	400x140	400x15	27x700
12	75	210	4	400x140	400x20	27x700
14	80	250	4	500x140	500x20	27x900
15	80	250	4/5	500x150	550x25	30x1000
16	80	270	4/5	500x150	550x25	30x1000



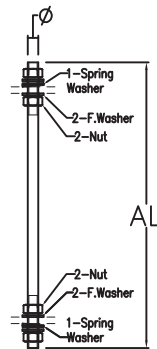
High Mast (Polygonal) Steel Pole

S NO.	MATERIAL	STANDARD / GRADE
1	Pole Shaft	EN1-10027 S355JO or Equiv. Min. Y.S=355 Mpa
2	Pole Cap	EN1-10027 S355JO or Equiv. Min. Y.S=355 Mpa
3	Bearing Plate	EN1-10027 S355JO or Equiv. Min. Y.S=250 Mpa
4	Nuts, Bolts	Din 267 Grade 4.6
5	Earthing Nuts	ASTM A307 or Equivalent
6	Galvanizing	ASTM A123/ISBN 1461 or Equiv. Min. Avg Coating 0.086mm (86 Mic)
7	Welding	As per AWS D1.1

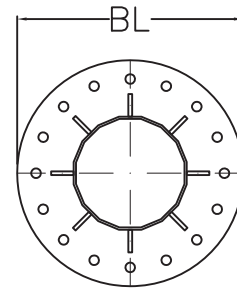
HEIGHT	HT. OF SHAFT	TD A/F	BD A/F	S.THT	DOOR	BASE PLATE	ANCHOR BOLTS	R
m	m	mm	mm	mm	mm	thk	mm	
20	10.75	200		4	245x1240	800x25	12 Nos. 30x1000	2 SHAFT 16 SIDE
	10		580	5				
25	13	200		4	245x1240	800x30	12 Nos. 30x1000	2 SHAFT 16 SIDE
	12.75		580	5				
30	11.7	180		4	245x1240	800x30	16 Nos. 30x1000	3 SHAFT 18 SIDE
	10			5				
	10		580	6				
35	12.3	200		4	245x1240	930x35	18 Nos. 30x1000	3 SHAFT 18 SIDE
	12.2			5				
	12.2		730	6				



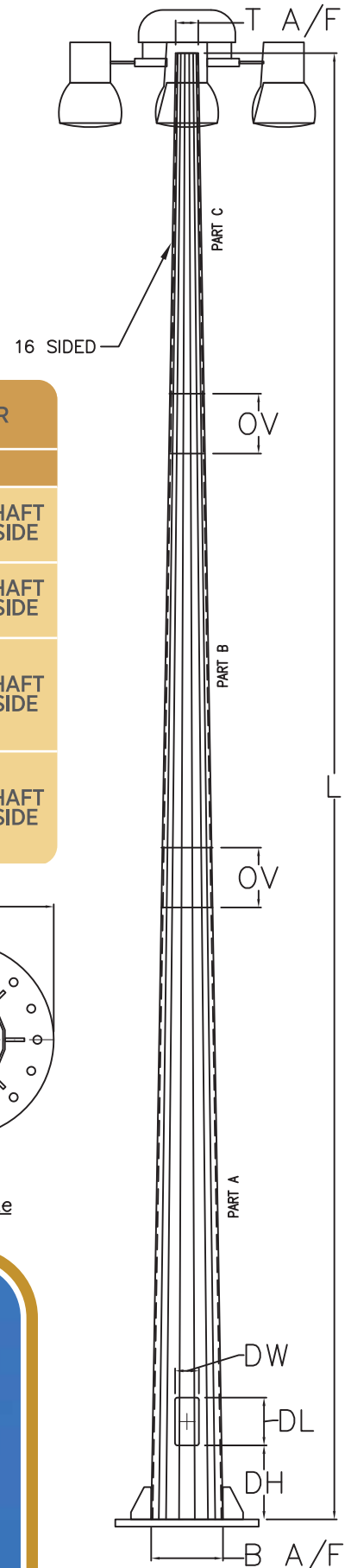
Power Tool



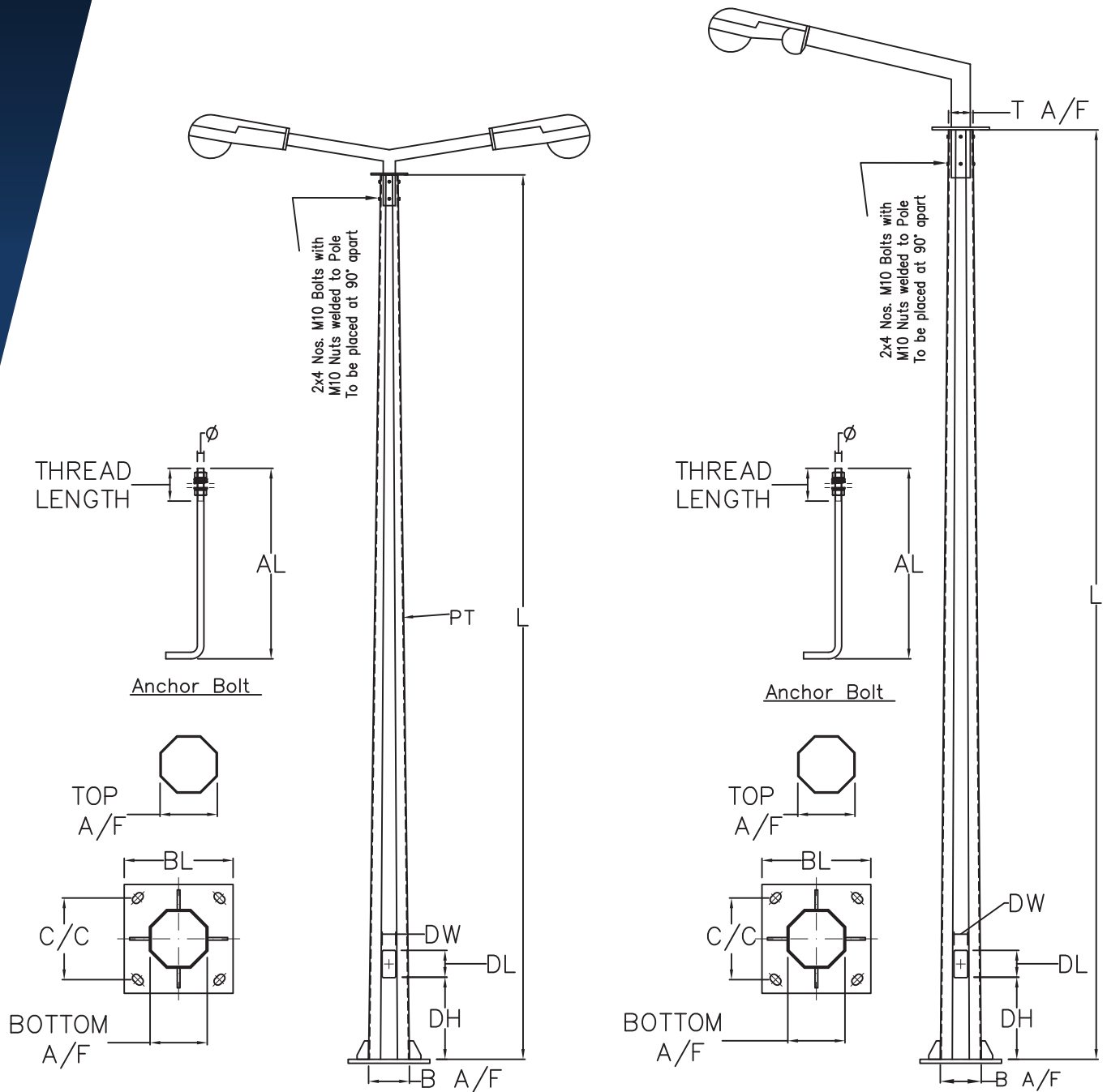
Anchor Bolt



Base Plate



Poles Drawings



L = POLE LENGTH HEIGHT

T A/F = TOP A/F

B A/F = BOTTOM A/F

PT = POLE THICKNESS

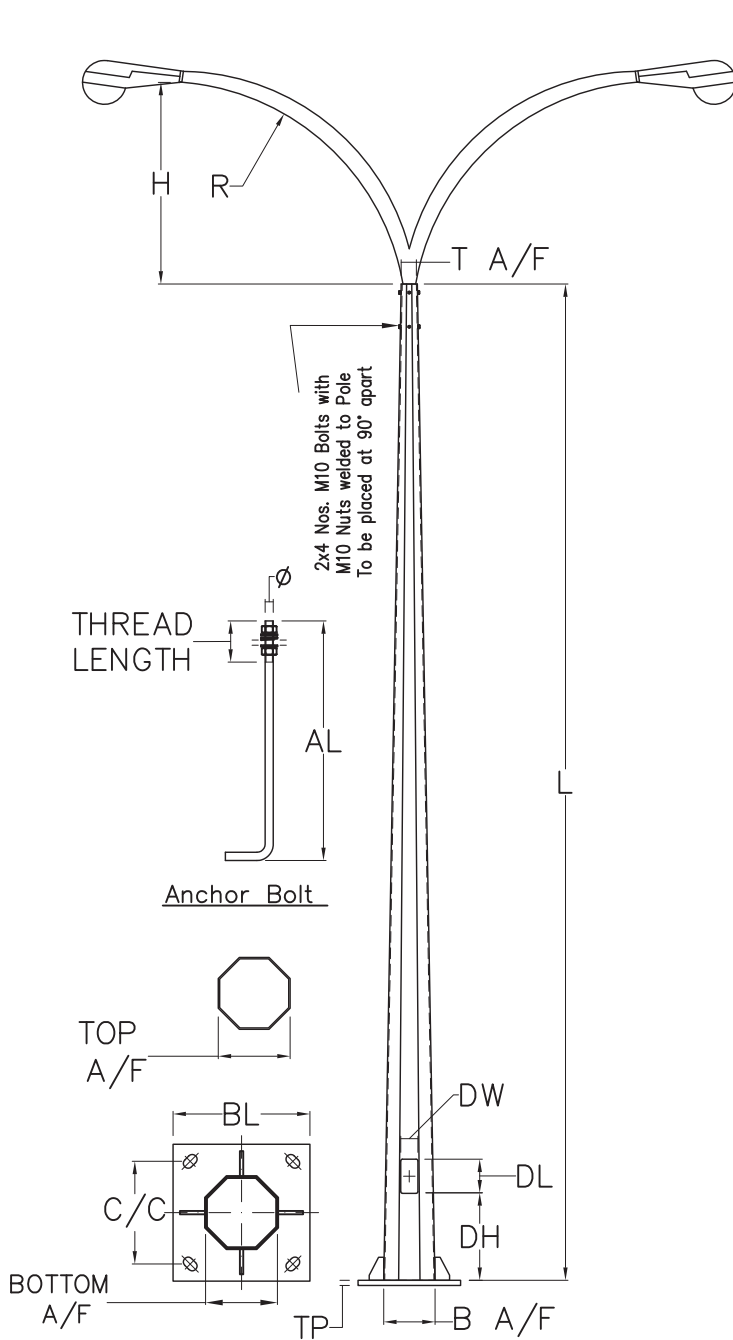
DH = DISTANCE BETWEEN

BOTTOM OF POLE TO DOOR

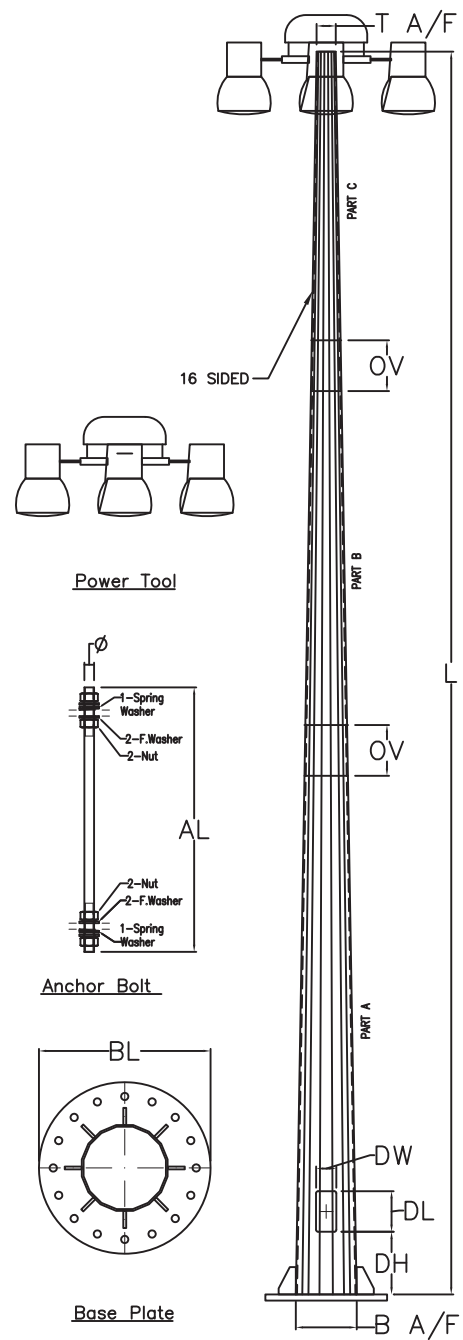
DW = DOOR WIDTH

DL = DOOR LENGTH





R = RADIUS OF CROSS ARM BRACKETS
 H = HEIGHT OF CROSS ARM BRACKETS
 OV = OVERLAP



BL = BASE PLATE DIMENSIONS
 TP = THICKNESS OF BASE PLATE
 C/C = CENTER TO CENTER
 \varnothing = DIAMETER OF ANCHOR BOLT
 AL = LENGTH OF ANCHOR BOLT



Standard Distribution Poles

Materials:

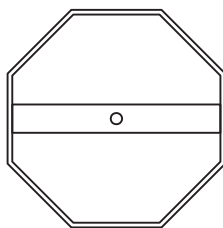
The steel generally used to manufacture steel poles according to (ASTM A572) or any equivalent specification with the following:

GRADE	UNIT	A572
YIELD STRENGTH	MPA	355
TENSILE STRENGTH	MPA	490
Max Ultimate Strength	MPA	620

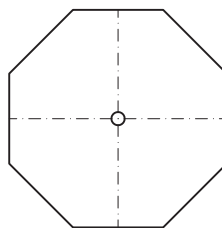
Types, dimensions and charateristic of standard octagonal steel poles

POLE TYPE	LENGTH	TOP DIA	BASE DIA	THK	POLE WEIGHT	ULTIMATE LOAD	SUBMERGED DEPTH
	m	mm	mm	mm	kg	kg	mm
OC10	10	100	345	4	227	803	1500
OC13S	13	155	410	4	377	1530	2000
OC14S	14	155	430	4	420	1564	2000
OC14D	14	155	600	4	544	2431	2000
OC15S/D	15	155	450	4	466	1545	2000
OC10SFS	10	230	590	5	527	4968	1500
OC13SFS	13	230	750	7	1143	8781	2000
OC14SFS	14	230	790	7	1282	8874	2000
OC15SFS	15	230	830	7	1429	8898	2000

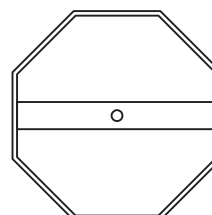
* All holes 22mm covered with plastic cap.



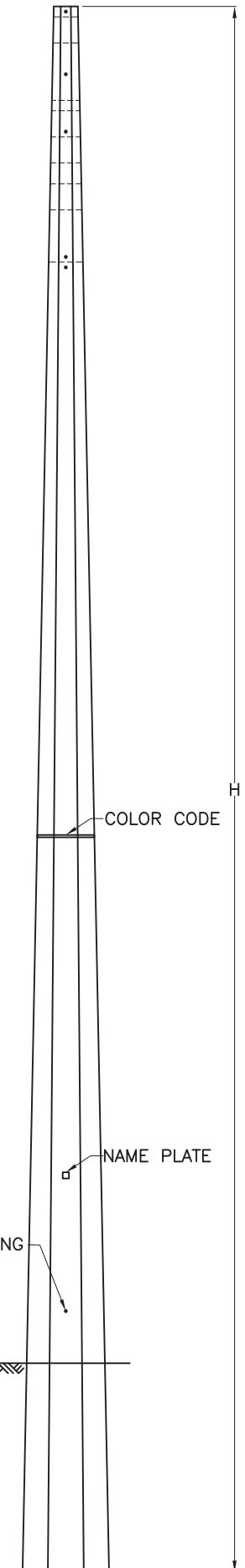
BEARING PLATE



OC POLE CAP DETAIL



POLE TO ARRANGEMENT



Standard Overhead Line Accessories

Al-Ashoury Poles, can produce accessories for overhead line from shaped steel is complying with specification ASTM A36 and having the following properties

Y.S 250 MPA

T.S 450-550MPA

The Surface protection is done by Galvanizing which is complying with specification ASTM 123

- Cross Arm
- Double Arming Plate
- Brace For Cross Arm
- Danger Sign Plate
- Earth Wire Support
- Service Mast Clamp



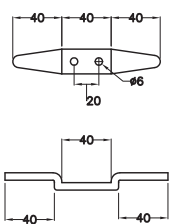
Flag Poles

Al Ashoury flag poles can production using all poles in pole height varies 4m to 16m.

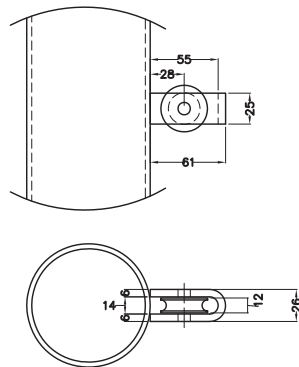
Specification

- Flag Poles are equipped with pulley for ropes
- Flag pole with brass ball form 80mm – 150mm
- Anchor polt type (L) with 2 washers & 2 nuts
- Galvanized or painted as per customer request

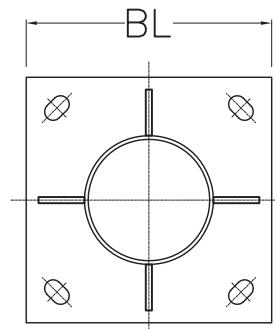
HEIGHT POLE	TOP DIA	BASE DIA	THK	BASE PLATE	ANCHOR POLTS DxL
m	mm	mm	mm	mm	mm
3	60	102	3	250x10	18x400
4	60	156	3	250x10	18x400
5	60	156	3	350x10	24x500
6	60	156	3	350x10	24x500
7	60	190	3	400x15	24x500
8	60	190	4	400x15	24x500
9	60	190	4	400x15	24x500
10	100	210	4	400x15	27x700
12	100	250	4	400x20	27x700
14	110	285	4	500x20	27x900
15	120	300	4/5	550x25	30x1000
16	120	320	4/5	550x25	30x1000



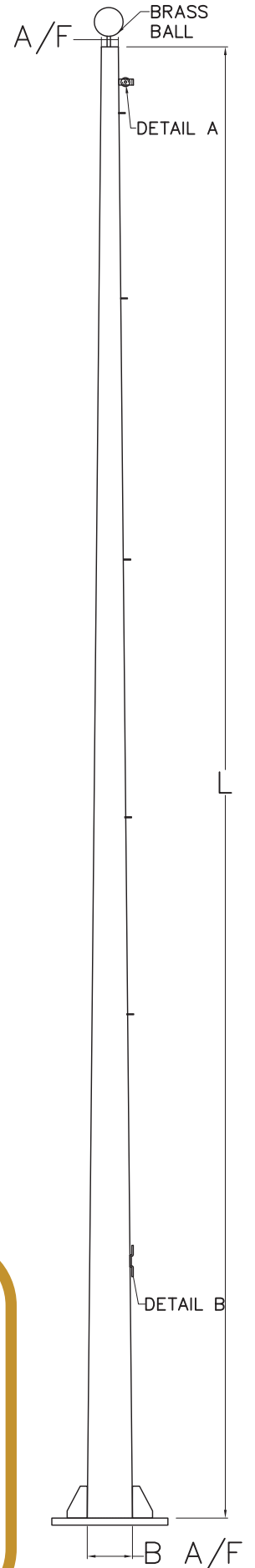
DETAIL B



DETAIL A



Base Plate

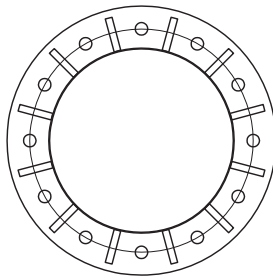


Camera Poles

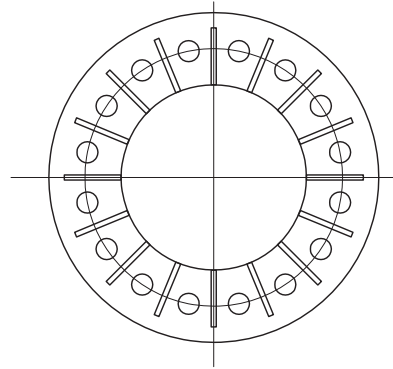
Camera Poles Can be designed and supplied as per client specifications and site requirements. Engineering calculations can be provided when required .

Finish:

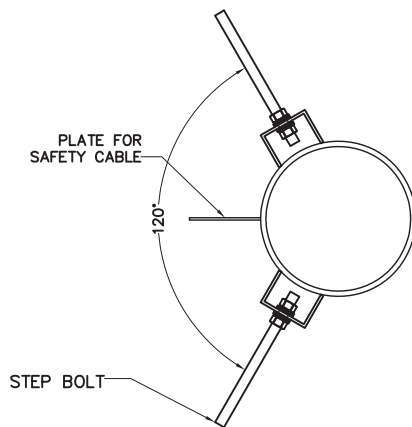
- Hot dip galvanized as per international standards or as per agreed client specifications.
- Powder coated – painted if required.



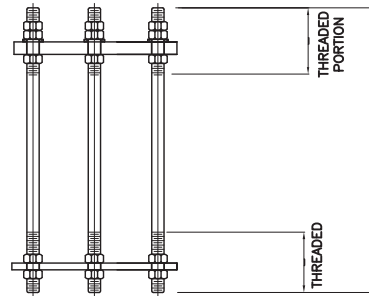
FLANGE CON



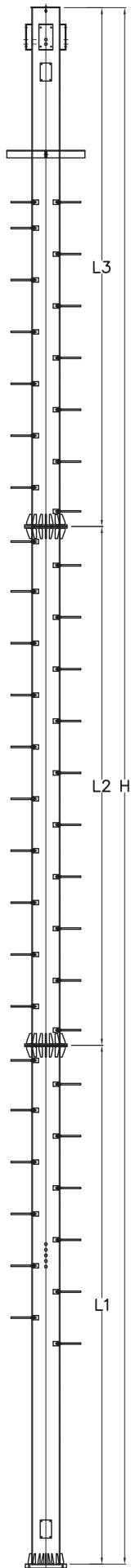
BASE PLATE



STEPS



ANCHOR BOLTS ARRANGEMENT DETAIL



Uni Poles

Uni Poles are fabricated as per customer supplied design for usefulness of advertisement. For maximum environmental protection the steel structure are Hot Dip Galvanised in molten zinc in accordance to ASTM A123 standard or BSEN ISO 1461 standard as per client.



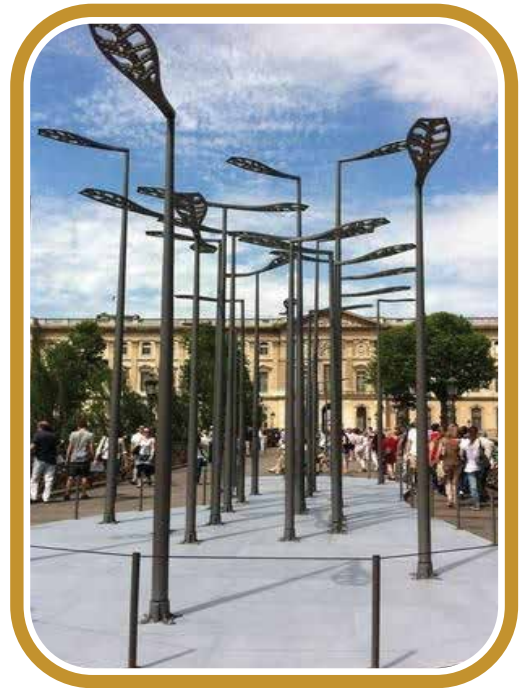
Traffic Signal Poles

Traffic Signal poles are designed and fabricated for the purpose of smooth movement of the vehicles As per the customer requirement, it is designed to suit a variety of installation method of light holders at different heights and ensures the structural rigidity of the poles are maintained.

For maximum environmental protection The steel structure are hot dip galvanized in molten Zinc in accordance to ASTM A123 standard or BSEN ISO 1461 standard or as per client request.



Decorative Poles



Hot Dip Galvanizing

Al Ashoury Group of Companies has its own Hot Dip Galvanizing Plant.

Fabrication & Galvanizing Technologies Co. Ltd. - GALVATEC was established in 2009, based in the Second Industrial Area, Riyadh, Kingdom of Saudi Arabia.

GALVATEC is an ISO 9001, ISO 14001 and OHSAS 18001 certified company.

The facility is built on a total area of a 22000 sq. m, the plant is equipped with 15-meter-long x 1.6-meter-wide x 2.8-meter-deep Zinc kettle, with 512 cubic meter Dryer, Five Hydrochloric Acid Tanks, one Degreaser tank, one Flux tank, three of water rinsing tanks, one passivation tank, five bridge cranes (double hoist) with a capacity of 10 tons each that run to the complete length of our facility and a monorail crane for comprehensive operation. With additional facilities of the services with an Automatic Grit / shot blasting machine to accommodate our customers' needs. The Plant has a galvanizing capacity of 50,000 tons per year.

GALVATEC has the experience and the unique capability to exercise full control of quality, cost & time which would be reflected on the customer satisfaction.

GALVATEC, is technically specialized for Hot Dip galvanizing miscellaneous metal fabrications such as Heavy Structural Steel, Telecommunication Towers, Transmission tower members, lighting poles, High mast poles, pipes, welded brackets, beams, frames, rods, gratings, huge hoardings support, cable trays, cable ladders and all types of cable support systems, as well as many other items for a wide variety of customers and industries.



Galvanized Material Quality

In order to guarantee the finish, quality & cost saving of the hot dip galvanizing process, full cooperation between fabricator and galvanizer should be done.

AL HOTY - STANGER CLIENT: **AL ASHOURY FACTORY FOR CABLE SUPPORTS & BLDG. ACCESSORIES** Date: 09 Feb. 2012
TWO NO. 100/2009
P.O. BOX 40107, RIYADH 11499
PREECE TEST
Page: 1 of 1

"TEST REPORT ON EQUAL ANGLE BAR SAMPLE"

Sample Identification: **EQUAL ANGLE BAR**
Profile: L 150 X 150 X 12mm
Length: 120 inches
Mark # 1: B 78

Sampled by: **Chait**
Date Received: **15.01.2012**
AHS Lab. Ref. No: **70431260-020**
Request Test: **Precede Test**

TEST METHOD REF.
Standard Practice for Locating the Shrouded Spot in a Zinc Coating (Galvanizing) Coating on Iron or Steel Articles as per ASTM A 258-02

RESULTS

Solution Used: **Copper sulfate (CuSO₄, 94%)**
Specific Gravity of Solution: **1.55 @ 18°C**

Findings: **After several immersion of galvanized beam in copper sulfate solution, no adhesion of copper (second) appeared on the galvanized surface indicates zinc coating on the beam surface is homogeneously applied and no shrouded spots were detected.**

Test Witnessed by: **1) Mr. Abdullah J. Al-Jaber - National Grid S.A.
2) Mr. Maher Azam - QGCC Manager, Al Shoury
3) Mr. Muhammad Faisal Jafari - Siemens**

HAZEM ZACH, M. Sc.
Manager
Materials Analysis Dept.
For AL HOTY-STANGER LTD. CO.

A. N. M. OMAR, M. Sc.
Assistant Manager
Materials Analysis Dept.
Test Method Version: 10/06/

AL HOTY - STANGER CLIENT: **AL ASHOURY FACTORY FOR CABLE SUPPORTS & BLDG. ACCESSORIES** Date: 09 Feb. 2012
TWO NO. 100/2009
P.O. BOX 40107, RIYADH 11499
EQUAL SIZE GALV. ANGLE BAR SAMPLE
EMBRITTEMENT TEST RESULTS
01 FEB. 2012

PROFILE: **L 150 X 150 X 12mm**
LENGTH: **24 inches**
MARK #: **L 139**

Sample Identification: **Embrittlement test of hot galvanized structural steel of equal angle 150 X 150 X 12mm dimensions**

SAMPLE NO. 01

TEST RESULTS:
Dimensions of the galvanized angle are as noted below: 150 X 150 X 12mm
Sum of the two distances of the punch marks and the edges measured are as below:
Distance 1 = 20.61 mm
Distance 2 = 20.87 mm
The sum of the distances measured = 41.48 mm
Original gauge length = 50.0 mm
% Elongation = 20.96%
Required % Elongation as per ASTM A 143-03 = 55 Minimum
Remark = **Pass**

TEST WITNESSED BY: **1) Mr. Abdullah J. Al-Jaber - National Grid S.A.
2) Mr. Maher Azam - QGCC Manager, Al Shoury
3) Mr. Muhammad Faisal Jafari - Siemens**

HAZEM ZACH, M. Sc.
Asst. Manager
Metallurgical & Mechanical Section
For AL HOTY-STANGER LTD. CO.

Tested by: Sybilysa T.
Asst. Testing Engineer

Verified by: Mohd. Usman Khan
Mechanical Supervisor

AL HOTY - STANGER CLIENT: **AL ASHOURY FACTORY FOR CABLE SUPPORTS & BLDG. ACCESSORIES** Date: 01 Feb. 2012
TWO NO. 100/2009
P.O. BOX 40107, RIYADH 11499
ZINC COATING WEIGHT
Page: 1 of 1

"TEST REPORT ON RECTILE IRON PIPE SAMPLE"

Sample Identification: **RECTILE IRON**
Profile: **L 90 X 90 X 6mm**
Length: **12 inches**
Mark # **B 139**

Sampled by: **Chait**
Date Received: **15.01.2012**
AHS Lab. Ref. No: **70431260-020**
Request Test: **Zinc coating weight**

TEST METHOD REF.
Standard Test Method for Weight of Coating on Iron & Steel Articles with Zinc and Zinc-Alloy Coatings (ASTM A 646-02)

RESULTS

WEIGHT OF ZINC COATINGS
(on outer surface only)

Specimen No.	Weight (g)
Specimen No. 1	1983
Specimen No. 2	1943
Specimen No. 3	1937
AVERAGE	1957 g/m²
Equivalent zinc coating thickness (outer surface), mils	276

Test Witnessed by: **1) Mr. Abdullah J. Al-Jaber - National Grid S.A.
2) Mr. Maher Azam - QGCC Manager, Al Shoury
3) Mr. Muhammad Faisal Jafari - Siemens**

HAZEM ZACH, M. Sc.
Manager
Materials Analysis Dept.
For AL HOTY-STANGER LTD. CO.

A. N. M. OMAR, M. Sc.
Assistant Manager
Materials Analysis Dept.
Test Method Version: 10/06/

EQUALITAS
CERTIFICATE OF REGISTRATION
Quality Management Systems

FABRICATION & GALVANIZING TECHNOLOGIES CO. LTD.

2nd Industrial City, Riyadh, Saudi Arabia

Equalitas Certifications Limited (Certifies that the Management System of the above mentioned Company has been assessed and meets the requirements established by the following rules:
ISO 9001:2008
The Management System includes:
Providing Galvanizing Services

Certificate No: G-01100206
Issue Date: 09 Feb 2012
2nd Surv. Due Before: 22 Jan 2017

Original Issue Date: 09 Feb 2010
1st Surv. Due Before: 22 Jan 2014
Valid To: 04 Feb 2018

* After successful completion of surveillance audit, new certificate shall be issued.

In accordance with the present certificate the company management system that conforms with the requirements of the International Standards. The validity of these registrations will be regularly monitored by Equalitas Certifications Limited.

Equalitas Certifications Limited
Head Office: 4th Floor, 401, South, 1150, Australia
For more information, please contact: **0800 000 000**
For further information, please contact: **0800 000 000**
For further information, please contact: **0800 000 000**

EQUALITAS
CERTIFICATE OF REGISTRATION
Occupational Health & Safety Management Systems

FABRICATION & GALVANIZING TECHNOLOGIES CO. LTD.

2nd Industrial City, Riyadh, Saudi Arabia

Equalitas Certifications Limited (Certifies that the Management System of the above mentioned Company has been assessed and meets the requirements established by the following rules:
OHSAS 18001:2007
The Management System includes:
Providing Galvanizing Services

Certificate No: G-01100206
Issue Date: 09 Feb 2012
2nd Surv. Due Before: 22 Jan 2017

Original Issue Date: 09 Feb 2010
1st Surv. Due Before: 22 Jan 2014
Valid To: 04 Feb 2018

* After successful completion of surveillance audit, new certificate shall be issued.

In accordance with the present certificate the company management system that conforms with the requirements of the International Standards. The validity of these registrations will be regularly monitored by Equalitas Certifications Limited.

Equalitas Certifications Limited
Head Office: 4th Floor, 401, South, 1150, Australia
For more information, please contact: **0800 000 000**
For further information, please contact: **0800 000 000**
For further information, please contact: **0800 000 000**

EQUALITAS
CERTIFICATE OF REGISTRATION
Environmental Management Systems

FABRICATION & GALVANIZING TECHNOLOGIES CO. LTD.

2nd Industrial City, Riyadh, Saudi Arabia

Equalitas Certifications Limited (Certifies that the Management System of the above mentioned Company has been assessed and meets the requirements established by the following rules:
ISO 14001:2004
The Management System includes:
Providing Galvanizing Services

Certificate No: G-01100206
Issue Date: 09 Feb 2012
2nd Surv. Due Before: 22 Jan 2017

Original Issue Date: 09 Feb 2010
1st Surv. Due Before: 22 Jan 2014
Valid To: 04 Feb 2018

* After successful completion of surveillance audit, new certificate shall be issued.

In accordance with the present certificate the company management system that conforms with the requirements of the International Standards. The validity of these registrations will be regularly monitored by Equalitas Certifications Limited.

Equalitas Certifications Limited
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Finishing & Store

Al Ashoury is equipped with Weigh Bridge Facility. These services are available to customers & general public.

Platform weighing with a capacity of 10 tons for weighing small size materials.



Packing



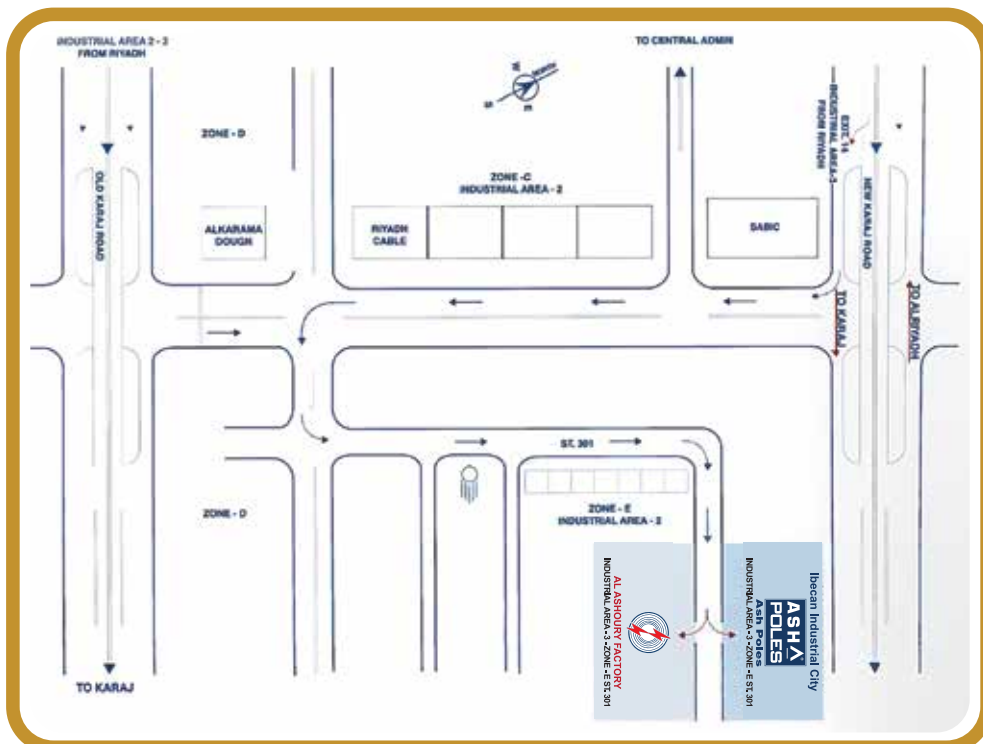
Loading & Delivery



Al Ashoury Industry Group



Location Map





Al Ashoury Industry
Setting Industry standards.



Al Ashoury Industry - Ash Poles
3rd Industrial Area, Street # 242
P.O. Box 40107, Riyadh 11499
Kingdom of Saudi Arabia
Tel. : +966 (011) 2650630
Fax : +966 (011) 2650596
E-mail : ashpoles@alashoury-industry.com

www.alashoury-industry.com