



TRADING PROFILE 2025

Patco International's vision is to deliver highest values of ethical and professional standards to enable our customers understand us as an integral partner for success.

MORE INFO

www.patcointernational.com

CALL US

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Group Introduction

Patco International has marked its name in making of tangible, intangible and conceptual solution for industries ranging from infrastructure development to energy sector.

Patco's aim is to bring in knowledge and experience in executing projects spanning IT solutions, engineering & construction to trading, procurement and contracting services by not only meeting but exceeding international standards of health, safety, environment and quality, while following highest standards of ethics and recognizing its responsibility as corporate citizens.

Patco International is considered as the most versatile and cost effective supplier of industrial products either standard or tailored to customer's specific needs. Whether it is pipeline, instrumentation, pipe fittings, valves or supplying turn-key systems for Oil & Gas Process, LPG extraction & filling and thermal Power plants. The extensive internationally sourced data base enables Patco to support a variety of customer's requirements.

Meeting stringent
Specifications and quality
Controls at shortest
Delivery schedules....

TRADING DIVISION

Our trading division regularly supplies range of products to our clients in Middle East, Yemen, Angola, Pakistan, Bangladesh Ghana and Afghanistan. Our experienced team of mechanical, electrical,

instrumentation & civil engineers understand your technical requirements for infrastructure development, industrial supplies & process equipments.

Infrastructure Development

■ STEEL

We have capability to supply international quality products with various standards, such as DIN, ASTM etc. Our quality steel products have been a significant reason of our good reputation in Pakistan market. State-of-the-art rolling mills can produce structural steel with close tolerance, required mechanical properties and cater for stringent requirements for critical applications. Flexible production capability specifically designed to

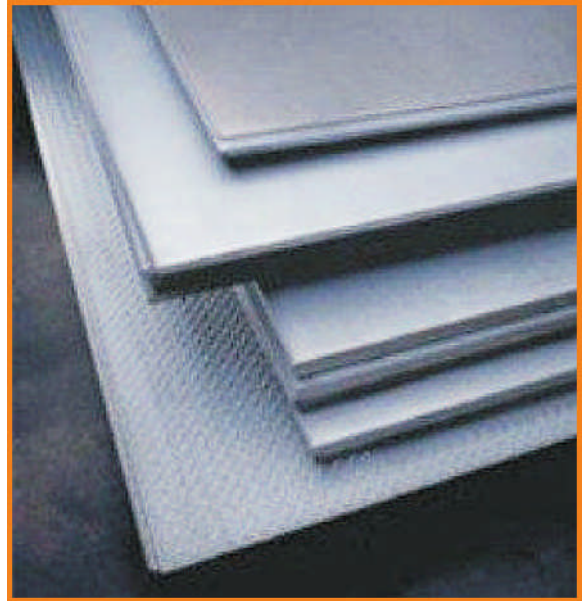
accommodate diverse needs of customers has made Patco a preferred supplier of Structural Steel in the region.

Production capabilities integrated with responsive customer care service enables us to provide structural steel angles, flat bars, beams, channels, round & square bars either standard or custom made conforming to international quality standards.



Stainless Steel

We cater Stainless Steel demand in Pakistan & Afghanistan for multiple series of 200, 300 and 400, maintaining extremely close dimensional tolerance and accurate mechanical properties. Stainless Steel conforming to international specifications is catering needs of oil & gas, petro chemicals and defense sector.



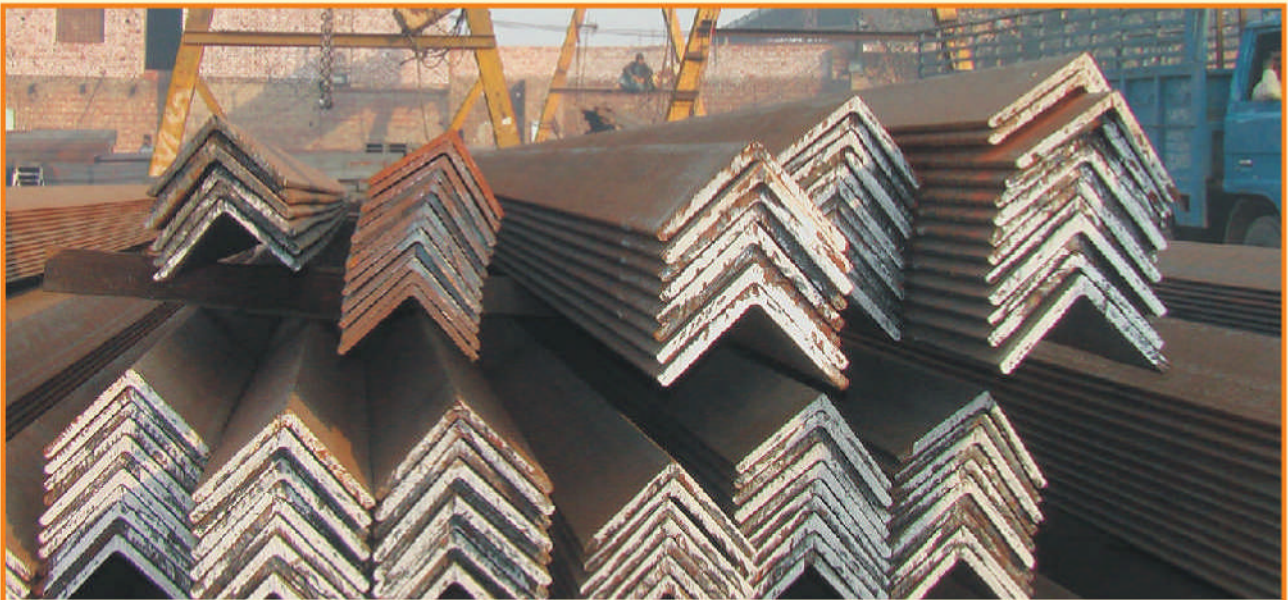
Alloy Steel

Supply of big and small steel billets conforming to international standards like ASTM, BSS, AISI, JIS, SAE and DIN makes our Alloy Steel preferable for various industry requirements. Our ability to shape and forging as per requirements of the customers give us edge in competing market by fulfilling customer's specific needs.



Industrial Steel

Patco has been pioneer in supplying high quality industrial steel conforming to international standards like ASTM, BSS and ASHTO industrial sections, including Angles, Flats, Channels, Squares, Rounds and in shapes and forms tailored to specific customer's requirements. Strict quality control from scrap to billets makes our supplied steel contents more reliable for oil and gas and power sector use. Our quality control policies, procedures, manuals and training of the same to managerial and workforce enables us achieving our long term strategic plans without operational hindrances.



Bars

We supply Deformed Steel bars of Grade 40 and Grade 60, produced in all American and British Standard sizes from 10mm and 50mm. 100% Free mercury contamination in melting process make our bars more quality reliable. Our Thermax TMT Bars from automated plants have to pass stringent in house quality control test before getting out for customers.



	Deformed Bars (Hot.rolled) Grade 40 & Grade 60	Plain Steel Bars	TMS Steel Bars
Nearest Equivalent International & National Standards	ASTM A-615; BS 449; JIS G-3112; BA 1968; DIN 488; 1045; IS 1786; BDS 1313; 1990	ASTM A-575, A-576, A-615; BS 4360, 4449; JIS G 3101, 3112; IS 226; BDS 1313: 1990	ASTM-Gr 300 (40) Gr- 400 (60) Gr-500 (75)
Intended Use	Ideally suitable for all kinds of reinforced concrete where high bond value with concrete (and high strength in case of Gr.60 bars) is desired.	Suitable for ordinary reinforced concrete where high bond value	It is economic, efficient and dependable concrete reinforcement suitable for all major reinforced concrete constructions such as buildings, bridges, reservoirs, roads, irrigation and power structures, dock and harbour structures, foundations, piles, precast concrete etc. it has been used with the most satisfactory results the world over, in all major reinforced concrete structures for decades, and in tens of millions of tons.

DEFORMED STEEL BAR

Details of dimensions, masses etc.

Bar Nominal Dia (mm)	Nominal Weight (Lg/m)	Area of Cross Section (mm ²)	App. Lengths Per M. Ton Meter	Number of R. Feet/Mton
8	0.395	50.3	2.532	8,307
10	0.616	78.5	1.622	5325
12	0.888	113.1	1.126	3694
16	1.578	201.1	633	2077
20	2.466	314.6	405	1330
22	2.984	380.3	335	1100
25	3.854	490.9	259	850
28	4.834	616	207	680
32	6.313	804.25	158	518

PHYSICAL PROPERTIES

Enongation in 8 Inch G.L.

Bar designation. No.	Nearest Bar Size in mm	Grade 40	Grade 60
3	10	11%	9%
4,5,6	13,16,19	12%	9%
7,8	22,25	Not specified	8%
9,10,11,14,18	29,32,36,43,57	Not specified	7%

TENSILE REQUIREMENTS

Yield Strength min.	Grade 40	Grade 60
	40,000 Psi	60,000 Psi
	2,812 Kg/cm ²	4,218 Kg/cm ²
Ultimate Tensile Strength min.	276 N/mm ²	414 N/mm ²
	70,000 Psi	90,000 Psi
	4,921 Kg/cm ²	6330 Kg/cm
	485 N/mm ²	624 N/mm ²

BEND TEST REQUIREMENTS

Bar designation No.	Nearest Bar Size in mm	Grade 40	Grade 60
3,4,5	10,13,16	4d	334 d
6	19	5d	5d
	7,8		22,25
	5d		
	9,10		29,32
	7d		

PLAIN STEEL BAR

Bar nominal Dia (Inch)	Area of Cross Section(Inch ²)	Unit Mass		App. Lengths Per Meters/M. ton	
		Lb/ft	Kg/m	Feet	Meter
3/8	0.11	0.376	0.560	5,862	1,786
1 /2	0.20	.668	0.994	3,300	1,006
5/8	0.31	1.043	1.552	2,113	644
3 /4	0.44	1.502	2.235	1,468	447
7/8	0.60	2.044	3.042	1,079	329
1	0.79	2.670	3.974	826	252
1-1/8	1.00	3.400	5.060	648	198
1-1/4	1.27	4.303	6.403	512	156

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ROLLING TOLERANCE ON MASS (BS 4449; 1988)

Nominal Dia (Inch)	Tolerance (%)
3/8	6.5
1 /2	4.5

TMS

Nominal Dia (mm)	Kg/mtr	Kg/ft.
6	0.222	0.067
8	0.395	0.120
10	0.617	0.188
12	0.888	0.270
16	1.580	0.482
20	2.470	0.753
25	3.860	1.176
28	4.830	1.472
32	6.310	1.923
36	7.990	2.435

Yield Stress N/mm ²	415 min	460.600
Ultimate Tensile Strength N/mm ²	485	520-650
Elongation %	14.5 % min	18% to 24%
Bendability	3D to 4D	1D
Re-Bendability	5D to 7D	4D

CEMENT

Patco International has dealership with major cement industry's manufacturers in Pakistan. We have been among major exporters of cement from Pakistan to Afghanistan and Africa.

We deal in following cement types:

OPC (Ordinary Portland Cement)

Is one of the most commonly used types of cement. OPC, as Ordinary Portland Cement is normally referred as, is made by heating a mixture of limestone and clay or other materials of similar bulk composition and reactivity, to a temperature of 1450 degrees centigrade. This results in partial fusion and formation of nodules called clinker. This clinker when ground with a certain percentage of gypsum results in cement. Ordinary Portland Cement is suitable for all modern types of construction, including all kinds of masonry, concrete works, pre-stressed concrete, repair works etc.

SRC (Sulphate Resistant Cement)

Is used in projects such as dams that are exposed to high amounts of sulfates. It is also used wherever there are constructions that are in direct contact with clay soil, which contains a large amount of sulfate salt, such as foundations and pillars. Sulphate Resistant is a pre-blended, ready-to-use cement base grout containing non-ferrous fluidities and anti-shrinkage compounds blended with siliceous aggregate and Portland cement. A highly Sulphate resistant cement, with an extremely low C3A content, is utilized in the manufacture of Sulphate Resistant Grout. This special cement is very resistant to attack from sodium and magnesium Sulphate found in ground water. We can also deliver White Cement, Low Alkali & Oil-well Cement.

BITUMEN

Bitumen is a mixture of organic liquids that are highly viscous, black, sticky and composed primarily of highly condensed chemical compound. Bitumen is the residual or by product obtained by fractional distillation of crude oil. It is the heaviest fraction and the one with the highest boiling point. Bitumen is referred to as 'asphalt' or 'asphalt cement'. We can deliver projects Bitumen requirements from our different sources and according to clients different specifications.

PIPING/PIPELINE MATERIAL

- We supply complete range of seamless and welded pipes in carbon steel/stainless steel & alloy steel as per ASTM and API specifications.
- Finned tubes, bent tubes and heat exchanger tubes as per various ASTM specifications.
- Butt Welded and forged pipe fittings and carbon steel, stainless steel and alloy steel Conforming to ASTM and ANSI standards.
- Flanges as per ASTM, ANSI and API standards.
- Gaskets as per ASTM, ANSI and API standards.
- Stud bolts and nuts as per ASTM specifications.
- Pipe Bends
- Anti corrosion wrapping tapes
- Pipe line pigging products including scrappertaps
- Casing seal and insulators
- Hot taping items and services
- Insulating joints
- POWERCRETE-j-coating for pipeline girth welds joint.
- ROCKSHEILD for protection of pipeline coating



VALVES

- Complete range of cast & forged carbon steel, stainless steel and alloy steel gate, globe, check, ball, butterfly, Choke, diaphragm valves etc. with manual operation or pneumatic/electrical actuators.

We can source following types of valves from our principals located in USA, Korea, Middle East and China.

- Floating Ball Valve
- Trunnion Ball Valve
- Globe Valve
- Gate Valve
- Check Valve
- Plug Valve
- Butterfly Valve
- Needle Valve



INSTRUMENTATION

- We Provide complete range of process control for pressure, temperature, level and flow, instrumentation from a thermocouple to advances distributed control systems.
- All the above items can be sourced from Asia, Europe or North America based on the requirements of the end user.



EQUIPMENTS FOR OIL & GAS TREATMENT

At Patco, we possess engineering capabilities to design and supply following equipments either as a standard package or equipments designed for your specific process requirements.

- Wellhead Tie-in & Flow Lines
- Production Separators
- Oil & Gas Dehydrators and Desalters
- Oil & Gas Heater Treaters-Desalter
- Oil & Gas Hydrocyclone
- IGF Vessels
- Phase/CPI/API Separators
- Desanders
- Inlet Water Bath Heater
- Flare Gas K.O. Vessels
- Degassing Equipment
- Settling Tanks/Gravitational Treaters
- Crude Oil Metering Packages
- Storage Tanks
- Production Unit
- Duplex Heavy Oil Heating/Pumping System
- Hot Water Circulating, Pumping System
- Diesel Fuel Filtration System
- Chemical Treaters
- Corrosion Inhibitors
- Methanol Injection System PH Control System



POWER SOLUTIONS

Patco International is a global provider of temporary & Permanent power solutions, offering reliable equipment, flexible services and highly qualified engineers and technicians available whenever & where ever our products are required. Our reliable after sale services has contributed significantly to the growth of our power division.

UPS (Uninterruptible Power Supply)

We have large variety of UPS for home & industrial requirement readily available in our stock.

Capacity Range:

1 KVA - 20 KVA (True sinewave)



GENERATORS

Patco International have technical expertise for selecting and supplying the generators of different specifications, make depending upon clients requirement and economic feasibility.

Diesel Generator

1 KVA - 1MW & Higher ratings

Gas Generator

1 KVA - 1MW & Higher ratings



We possess capability to provide rental power solutions from 500 KVA to 20 MW with complete operations & maintenance.

FABRICATED CONTAINERS

Patco International specializes in providing a variety of mobile accommodation options, storage facilities, sanitisation and transportation to most of the construction and mining industries throughout Pakistan and Afghanistan.

We provide in the diverse needs of clients by converting shipping

Containers into a customised mobile accommodation or storage solution.

Shipping containers are well-known for its durability, strength and weather resistance and provides a flexible solution for various mobile accommodation, storage and transport applications.



Patco International offers you the following applications:

- Temporary/semi-permanent on site offices
- 3 m, 6m or 12 m shipping containers converted into anything you require from mobile classrooms, ablution blocks, cabins, guard huts, low cost housing and health etc.
- Prefabricated buildings.
- Refrigeration cold rooms and freezer containers ranging from 5°C to -25°C for the safekeeping of your foodstuffs, flowers, health and beauty products, pharmaceutical etc.
- On site storage containers, cargo containers, freight containers and custom shipping containers for all your storage and transportation requirements

TECHNOLOGY PARTNERS FOR TURNKEY PROJECTS

Patco International provides wide range of technology equipment for oil & gas production and processing facilities. Patco International can be your partner for execution of turnkey EPCC and EPFC projects for oil & gas, power and water treatment sector. Extensive background of management in oil & gas, power and water sector gives us capability to understand your needs effectively.

Patco International has strategic alliance with international companies around the globe to effectively deliver

project development needs of our clients. Starting from flow diagrams, P&ID we can supply skid mounted standard or customized packages for oil & gas conditioning, separation, compression, sweetening, dehydration and utilities from our suppliers manufacturing shops to work sites.

Patco International can collaborate to supply full range of production and processing facilities for your upstream and downstream projects requiring most rigorous of processing needs.



GLOBAL SUPPLIERS

Patco International is dealing in various business sectors providing consistent and reliable services all the way from manufacturers to sites where the equipment is actually installed. Patco International established strategic supplier relationship to ensure supply to end user at minimum possible prices and expedited deliveries.

Selection of reliable suppliers is among top priority of Patco International, we select supplies pioneer in their field

having vast experience and reputation to ensure our customers get technical support from supply to commissioning. We always select vendors complying with international standards; almost all of them are already approved and registered with major E&P companies.

We ensure supply to end users directly without involvement of other trading companies to ensure customers get prices which are highly competitive.



PROJECT MANAGEMENT & PROCUREMENT

From handling the complexities of global supplier selection for all Project material, delivering diverse material from distinct locations, complex logistic involvement and receiving at work locations keeping all in close connection with project schedule is dealt by our ERP system designed by our own software house "A Soft" , specifically designed for the execution of turnkey projects.

With Patco International, you are assured of strict adherence to quality standards, national and international

requirements of legislations, taxes, customs, safety, health and environmental issues. Our experienced personnel at strategic locations ensure on time supply of equipment and material.

Our ERP system and capabilities for Budgeting, Cost Controlling, Project Schedules, Plans, Material Management, Resource Allocation, fulfill supplier's demand in economic and efficient way keeping the delivery period in firm control.



QUALITY HEALTH SAFETY ENVIRONMENT

An ISO certified organization Dedicated to excellence in Project Performance,

Patco Management is committed to attain excellence in all areas of its operation. We continue to strive for improvement through coordinated efforts, feedback, and training and employee motivation.

We are determined to ensure customer satisfaction, Company's productivity &

profitability, occupational health, safety and care for our environment and

continue playing our role in the development of society.

Dedicated to excellence, Patco's Management is committed to maintain a safe and healthy environment having the same significance as that of productivity & business.



SAFETY, HEALTH & ENVIRONMENT

DOING WHAT'S RIGHT IS NOT SIMPLE,
IT'S SIMPLY RIGHT.

