INTEG Engineering & Trading Services is a group of Professional Engineers and Technologists, committed to serve the fast growing needs of the industrial & commercial sector of Pakistan by providing UNISOURCE TOTAL QUALITY SOLUTIONS to our customers.

QUALITY SERVICES OFFERED:
- Assessment of Requirements
- Codes and Standard Consultation
- Technology Selection and Equipment Sizing
- Supply Chain Support
- Basic Design Engineering
- Logistic Management
- Installation Supervision
- Managing Commissioning / Startup
- Maintenance Scheduling and Management
- Life Cycle Management

MARKET WE SERVE:
Oil & Gas
- Exploration, Processing, Operations, Transportation, Retail

Power
- Thermal / Combine Cycle, HFO Based, Diesel Based

Petrochemicals
- Fertilizers, Chemicals, Solvents

Construction & Infrastructure
- High Rise Buildings, Hotels, Shopping Malls, Ware Houses, Institutional & Residential Complexes, Military / Forces Installations

Ports
- Airports, Sea Ports & Jettys

Industrial Zones
- Textiles, Pharmaceuticals, Food and Automobiles

The ongoing commitment of INTEG Engineering & Trading Services is to provide all its customers with the highest quality of service.

It is the policy of the company to ensure our customers' total satisfaction, first time, every time.

We are committed to future investment in people through training, development and technology, thus enabling us to maintain continuous improvement and the provision of the best possible service to our customers.
Mechanical / Process Equipment & Packages

STANDARDS & CERTIFICATIONS

- ABMA
- API
- ASME
- ASTM
- BSI
- CAST
- CSA
- FSI
- HS
- MSS
- NACE
- NFPA
- NBIC
- PIP
- API - Latest Edition
- ANSI
- UL - Listed
- FM - Approved
- NFPA - 20
- LPCB

ASME STANDARDS | API STANDARDS
Boilers
- Fire Tube Boiler
- Water Tube Boiler
- Parts of Boiler: Economizer, Super Heater & Deprecator
- Electric Boiler

Waste Heat Recovery System
- Heat Generating Facilities
- Dryer & Evaporator
- Waste Gas Heat Recovery
- Compressor After Cooler

Heat Exchangers
- Channel Type
- Tubular Type (Shell & Tube Type)
- Special Type

Cooling Tower
- Forced Draft
- Induced Draft

Vessel & Tank
- Pressure Vessel
- Storage Tank
- Tower
- Column

Packages
- Air Fin Cooler Package
- Nitrogen Package
- Amine Sweetening Package
- Refrigeration System Package
- Chemical Injection System Package
- Oil heating Package
- Air Filter & Separation Package
- Rotary Compressor Package
- Screw Compressor Package
- Centrifugal Compressor Package
- Flare Package
- Heater Package
- Caustic Concentrator Package
- Hypochlorite Package
- Air Ejector / Vacuum Package
- Instrument Air Compressor Package

Special Products
- Heat pipe Type HEX
- Catalyst HEX
- Steam Accumulator
- Incinerator
- Oil Heating Coil
- Convertion Heater
- Spiral Condenser
- Low Finitable Cooler
- Separators
- Desalters
- Air Coolers
- Process Filters
- Dehydration Packages
- Process Compressors
- Reactors
- Storage Tanks
- Column Internals
- Loading Arms
Flow Control

Process Pumps | Industrial Pumps | Water | Oil & Gas Pumps | Fire Pumps

- Ball Valves (Threaded / Welded / Floating Ball / Turnion Mounted)
- Butterfly Valve (Wafer, Lug, Double Flange, U Lug)
- Globe Valve | Gate Valve (Knife / Soft Sealing Type / Wedge / Flanged Type)
- Plug Valve | Automatic Control Valves
- Solenoid Valve | Damper Valve | Air Release Valve | Foot Valve
- Strainer (Basket / Y-Type) | Relief / ESD Valve

Pipes & Tubes

- ASTM | AWWA | AGA | BS | DIN | ANSI | ASME | NPT | ISO | BS | ASTM | AASHTO | CSA | AISI

Flanges

- ANSI | ASME | JIS | BS | BSP | DIN | UNI

STANDARDS & CERTIFICATIONS

- ANSI | DIN | NFPA | BSI | DIN EN ISO 5199 | ANSI/HI | UL LISTED | FM APPROVED | LPCB
- DIN | ANSI | API | IIS | ISO CERTIFIED 9001 : 20000
- HYGIENIC CERTIFICATE (ADR / ATEX / KVBG / TA LUFT / FIRE SAFE / WRAS)
- CERTIFICATES (TÜV / RWTÜV / TZW / IQNET | SIL CERTIFICATES IN ESD VALVES)
- PIPES & TUBES
- ASTM | AWWA | AGA | BS | DIN | ANSI | ASME | NPT | ISO | BS | ASTM | AASHTO | CSA | AISI
- FLANGES
- ANSI | ASME | JIS | BS | BSP | DIN | UNI
### Industrial Valve
- Ball Valves (Threaded / Welded / Floating Ball / Turnion Mounted)
- Butterfly Valve (Wafer, Lug, Double Flange, U Lug)
- Gate Valve (Knives / Soft Sealing Type / Wedge / Flanged Type)
- Plug Valve
- Globe Valve
- Automatic Control Valves (Prv's / Pump Control / Float Control on-off / Rate of Flow Control Valve)
- Air Release Valve (Single Chamber / Double Chamber)
- Pressure Safety Valve
- Solenoid Valve / Damper Valve
- Foot Valve
- Strainer (Basket / Y-Type)
- Relief / Safety Valve / Needle Valve / Check Valves

### Valves for Special Application
- Stop Valve with Safety Bellows for Harmful Fluits
- Stop Valve with Heating Jacket for Thick Fluid
- Stopper Blow-Off Valve for Bottom Drainage
- Piston Blow-Off Valve for Bottom Drainage
- Three Way Cross-Over Valves
- Plug Valves (Seat Viton Line Types)
- Conic Plug Cock
- Double Line Blind Gate Valves
- Flush Bottom Tank Valve
- Slide Valve
- Change Over Valve

### Description
- Size of Valves: ¼” to 80”
- Service Temp: -60°C to +600°C
- Flange Rating: ANSI, AWWA, DIN, JIS (ks), etc.
- Actuators: Electric / Pneumatic / Hydraulic
- Pressure Rating: Class 150, 300, 600, 900, 1500 etc.

### Material of valves
- Cast Iron / Cast Steel / Stainless Steel / Bronze / Brass / Gunmatel
- Aluminium / Duplex / Super duplex / Special alloy / Monel & Inconel

### Application of valves
- Water / Waste Water
- HVAC
- Pharmaceutical
- Chemical / Petro-Chem Industry
- Oil Refineries / Storage Tanks
- Pulp & Paper
- Power Plant
- Desalination
- LNG Liquefaction and Re-Gasification
- Marine Application
Pipes:
- CS Line Pipe (Conforming to API)
- MS & SS Pipe (Seamless & Welded)
- Ductile Iron Pipe
- 3Bk Urea Grade Pipe
- Special Coating Pipe Polyethylene Used in Weather Resistance
- Special Coating Pipe Copon Used in Oil & Gas
- Galvanized Steel Pipes
- Erw Pipes
- Square/Rectangular Pipes
- Line Steel Pipes
- Flexible Corrugated Hoses
- Exotic Tubings
- Fiber Glass Pipes
- Coiled Tubings

Fittings:
- Butt Weld Fitting
- Forged Fitting
- Grooved Fitting
- Seamless Fitting
- Tees
- Elbow
- Reducing Tee
- Eccentric & Concentric Reducer
- Stud Bolts & Nuts
- Flange | Blind Flange
- Plug Coupling
- Socoklet | Wildolet
- Sewage | Threaded Nipple
- Union
- Gaskets
- Nipples
- Orifice Plates
- Coupling - Flexible | Coupling - Rigid | Hose Couplings
- Cross | A - Way
- Pipe Ferrule | Pipe Flange | Pipe Nipple | Pipe Offset
- Pipe Plug | Pipe Union | Pipe Cap | Pipe Adapter
- Wye - Reducing | Wye - Standard
- Ferrules
- Adapters
- Spiral Hydraulic Hose | TFE High Pressure Hydraulic Hose
- Pig Launcher & Receiver

Gaskets:
- Equipment Gaskets
- Flange Gaskets
- PTFE Gaskets
- Plastic Gaskets
Instrumentation & Controls

Mechanical Pressure Measurement | Electronic Pressure Measurement | Flow Measurement
Mechanical Temperature Measurement | Switches | Level Instruments

STANDARDS & CERTIFICATIONS
API - ASTM - IEEE - IEC - BS/EN - DIN - ANSI - NACE
Instrumentation & Controls

Mechanical Pressure Measurement
- Bourdon Tube Pressure Gauge
- Diaphragm Pressure Gauge
- Capsule Pressure Gauge
- Differential Pressure Gauge
- Digital Gauge for General Industrial Applications

Electronic Pressure Measurement
- Pressure Transmitter
- Differential Pressure Transmitters
- Pressure Transmitter for Refrigeration and HVAC Applications
- Pressure Transmitter for Precision Measurement
- Diaphragm Seal Pressure System
- Intrinsically Safe Pressure Transmitter
- Submersible Pressure Transmitter
- Electronic Pressure Switch with Display

Mechanical Temperature Measurement
- Bimetal Thermometer for Heating
- Bimetal Thermometer for Cooling
- Expansion Thermometer for Temperature Measurement
- Gas Actuated Thermometer with Electrical Output Signal

Electronic Temperature Measurement
- Analogue Temperature Transmitter
- Thermocouples
- Thread Mounted Resistance Thermometers
- In-Line Resistance Thermometers for Flue Gas Measurement
- Surface Resistance Thermometers
- Thermocouple with Fabricated Thermowell
- Digital Electronic Thermometer

Flow Measurement
- Disc Meter
- Compound Series Meter
- Turbo Series Meter
- Fire Hydrant Meter
- Fine Series Meter
- Turbo Flow Meter
- Propeller Meter
- Venture Flow Meter
- Turbine Flow Meter
- Vortex Flow Meter
- DP Indicator
- Rotameter Gas Flow Transmitter

Switches
- Flow Switch (Electric / Pneumatic)
- Level Switch
- Vibration Switch
- Magnetic Level Switch
- Float Level Switch
- Conductive Level Switch
- Ultrasonic Level Switch

Level Instruments
- DP Transmitters (Electronic)
- Controllers / Transmitters (Displacer)
- Level Transmitter
- Level Gauge
- Tank Gauging System
Wires, Cables & Cable Accessories
M.V. Cables | L.V. Cables (Power & Control)
Fire Retardant | Flame Proof Cable & Wire
Cable Markers & Ties | Cables Ladders & Supports | Cable Glands
Instrument Cable | Cable Trays
Fiber Optic (Overhead Lines) | Fiber Optic (Underground Lines)

UPS System & Supply Units
AC UPS System | DC UPS System | Batteries
Gas Engine Generating Set | Diesel Engine Generating Set
Generator Synchronization Switch Board

Circuit Breakers
Low Voltage Circuit Breakers | Magnetic Circuit Breaker | Thermal Magnetic Circuit Breaker
Rated Circuits (Common Trip Breakers) | Medium Voltage Circuit Breakers
High-Voltage Circuit Breakers | Sulfur Hexafluoride (SF6) | High-Voltage Circuit Breakers

Panel Switch Gear / Boards & Accessories
Power Control Panel | Power Accessories | Power Distribution Equipment
Light Fillings – Non-Hazardous Area | Light Fillings – Hazardous Area
MCC Control Panel
Switch Gear System
Lighting Distribution Boards | Relays | Switches & Switchboards
Local Control Station (Hazardous Area) | Local Control Station (Non-Hazardous Area)
Terminal Blocks | Distribution Box | Control Relays & Relay Bases
Panel Switches | Push Buttons | Earthing Material
Dimmer Switch | Safety Switch (Disconnectors) | Isolators
Junction Box | Water Proof Junction Box
Conduit Fittings | Status Lamp
Hazardous Area Luminaries | Non Hazardous Area Luminaries
High Mast Lighting Columns

Motors
LV Motors | HV Motors
Variable Speed Drives | Soft Stater
Explosion Proof Motors

Luminaries
Flood Lights | High Mast Lighting Columns
Explosion Proof Light & Fixtures

Communication
PABX System
Intercom System
Public address system
Integrated P.A. & Intercom System
CCTV System, Monitor
Clock System
Paging System
Security Alarm System
Terminal Servers
Network Concentrators
Wires Network Routers Wireless Lansi
Visual Signals
Audible Signals
Water Treatment
- Industrial Raw Water Treatment
- Boiler Water Treatment System
- Reverse Osmosis System
- Ion Exchange & Dematerialized Systems
- Electro-Deionization Systems
- Ultrafiltration
- Softeners Package
- Pressure Filter System
- Activated Carbon Unit
- Regeneration Skids
- Clarifier Filters
- Electro Dialysis
- Condensate Polishers

Municipal & Sea Water
- Municipal Water Treatment Package
- Ultraviolet Equipment
- Sea water Reverse Osmosis (SWRO)
- Sea Water Media Filter

Waste Effluent Water Recycle/Treatment
- Sludge Handling Systems
- Oilwater Separators
- Heavy Metals Removal Systems
- Evaporative Equipments
- Submerged Tube Evaporators
- Membrane Systems
- Neutralization Skids
- PH Adjustable Systems
- Ozonators
- Pre Basket Filters
- Biological Waste Water Treatment System
- Package Sewage Treatment Plants

Water
Fire & Foam Protection System

Fire Alarms & Detection System | Fire Pump Packages | Fire Suppression Systems
Fire Sprinklers Systems | Fire Hydrant Systems | Fire Equipment & Hardwares
Foam Fire Protection Equipments

STANDARDS & CERTIFICATIONS
ISO 9001:2000 | SIRIM | VDS | LOST PREVENTION COUNCIL BOARD (LPCB)
BRITISH STANDARD INSTITUTION (BSI) | CE | NFPA | NATIONAL FIRE SPRINKLER ASSOCIATION (NFPA)
AMERICAN FIRE SPRINKLER ASSOCIATION (AFSA)
UL LISTED | FM APPROVED
<table>
<thead>
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<th>Fire Protection Systems</th>
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<td><strong>Fire Alarms &amp; Detection System</strong></td>
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<td>Conventional Fire Alarms &amp; Detection System</td>
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<tr>
<td>Addressable / Intelligent Fire Alarms &amp; Detection System</td>
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<td><strong>Fire Pump Packages</strong></td>
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<td>UL Listed &amp; FM Approved</td>
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<tr>
<td>NFPA Compliance Fire Pump</td>
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<tr>
<td>Fire Pump Controllers UL Listed and FM Approved</td>
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<tr>
<td><strong>Fire Sprinklers Systems</strong></td>
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<tr>
<td>Pendant / Upright Sprinklers</td>
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<tr>
<td>Alarm Check Valve Assemblies</td>
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<tr>
<td>Monitoring Panels</td>
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<tr>
<td><strong>Fire Hydrant Systems</strong></td>
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<tr>
<td>Pillar Type Hydrant</td>
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<tr>
<td>Fire Water &amp; Foam Monitors</td>
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<tr>
<td>Fire Extinguisher</td>
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<tr>
<td>Landing Valves</td>
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<tr>
<td>Hose Reels</td>
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<tr>
<td>Hose Cabinet</td>
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<tr>
<td>2 &amp; 4 Way Breaching inlet With Cabinet</td>
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<tr>
<td>Dry &amp; Wet Riser Outlets With Cabinet</td>
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<tr>
<td>Branch Pipe Nozzles</td>
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<tr>
<td>Delivery Hose Coupling</td>
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<tr>
<td>Standpipe Hydrant</td>
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<tr>
<td><strong>Fire Suppression Systems</strong></td>
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<tr>
<td>FM-200 and Co2 Fixed System</td>
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<tr>
<td>Releasing Panels</td>
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<tr>
<td>MFC 227ea Extinguishin System</td>
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<tr>
<td><strong>Fire Fighting Vehicles</strong></td>
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<tr>
<td>4 x 2 (Foam / Water Tenders)</td>
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<tr>
<td>6 x 2 (Foam / Water Tenders)</td>
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<tr>
<td>Fast Intervention &amp; Ambulance Vehicle</td>
</tr>
<tr>
<td>Rescue Vehicle</td>
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<tr>
<td>Van Rescue Vehicle</td>
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<tr>
<td>Fire and Rescue Aircraft</td>
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<tr>
<td><strong>Accessories</strong></td>
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<tr>
<td>FM Approved Fire Pipes &amp; Valve</td>
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<tr>
<td>Fire Rated Door and Windows &amp; Shutters</td>
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<tr>
<td>Fire Blanket</td>
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<tr>
<td>Fire Sealant</td>
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<tr>
<td><strong>Fire Blanket</strong></td>
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<tr>
<td><strong>Fire Curtains</strong></td>
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<tr>
<td><strong>Fire Sealant</strong></td>
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</tbody>
</table>
Foam Concentrates  
Aqueous Film Forming Foam (AFFF) / Fluorine Free Foam  
Alcohol-Resistant Aqueous Film Forming Foam (AR-AFFF)  
Military Specification Foam / Fluoroprotein Foam  
High-Expansion Foam / Low Temperature Foam / Class A Foam  
Wetting Agents / Training Foams  
Freeze Protected Foam Solutions  

Fixed-System Proportioning Equipment  
Vertical and Horizontal Bladder Tanks  
Atmospheric Foam Concentrate Storage Tanks  
Proportioners  
Foam Pump Skids / Precision Foam Solution Test Kits  

Discharge Devices  
Foam Chambers / Foam Makers  
High Expansion Foam Decisions  
Water Powered Oscillating Monitors  
Manual Monitors / Monitor Nozzles  
Self-Educating Foam Nozzle  
Hose Reels  

Portable Equipment  
Hand line Nozzles  
In Line Educators  
High Expansion Foam Nozzles  

Mobile Foam Units  
Mobile Foam Trolleys  

Custom-Engineered Systems  
Trailer & Skid Unit  
Custom Pump Skid  
Truck Mounted Units  

Fixed Fire-Fighting Foam Stations  
Foam Hose Reel Station  
Mobile Foam Station  
Water Powered Oscillating Monitor Station  

Self-Contained Foam Units  
Twin-Agent Skid Unit  
Premix Self-Contained Foam Units  
Large Dry Chemical Skid Unit  

Dry Chemicals  
ABC Dry Chemical Powder  
BC Dry Chemical Powder  

Foam Fire Protection Systems - Fire Protection Systems  

- Fire Protection Systems
Eye & Face Protection
Spectacles | Goggles | Welding Goggles | Welding Helmets | Brow Guards | Brackets and Visors

Fall Protection
Fall Arrestor Devices | Safety Belts | Harnesses | Lifelines | Lanyards

Footwear
High & Low Ankle Shoes | Gum Boots (Wellingtons) | Disposable Shoe Covers

Gloves

Head Protection
HDPE Helmets | Full Brim Helmets | Fiber Helmets | Ventilated Helmets | Cotton Caps | Disposable Bouffant Caps

Hearing Protection
Ears Muffs | Ear Plugs | Ear Bands | Metal Detectable Plugs | Communicating Systems with Hearing Protection

Respiratory Protection
Disposable Masks | Half masks | Full Face Masks | Cartridges | Escape Hoods | Breathing Apparatus | Sand Blasting Hoods

Protective Clothing
Poly Cotton & 100 % Cotton Coveralls | Lab Coats | Aprons | Fireman’s Suits | Disposable Coveralls | Reflective Vests | Chemical Resistant Clothing | Rain Suits

Safety Equipment
Emergency Eyewash & Shower Stations | First Aid Kits | Fire Blankets | Safety Signs | Fiber Cloth | Lens Cleaning Station | Solution and Tissues | Gas Detection Monitors | Head Lamps & Spotlights

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Fasteners & Supports

Bolts | Nuts & Washers | Screw | Anchors | Clamps
Support - Expansion Assemblies

STANDARDS & CERTIFICATIONS
ISO 9001 Certification | QS-9000 Certification
ANSI A10.3 | ASTM A 153 | ASTM A 786 | ASTM A 793 | UL/FM Approved | ASTM
Fasteners & Supports

Bolts
- Head Bolts
- Head Screws, Fully Threaded
- Socket Countersunk Head Screws
- Mushroom Head Square Neck Bolts
- High-Strength Head Bolts for Structural Steel Bolting

Nuts & Washers
- Nuts for High-Strength Structural Bolting
- Plain Washers - Metric / Whitworth
- Spring Lock Washers - Metric
- Spring Lock Washers - Whitworth
- Round Washers for High-Strength Structural Steel Bolting

Screws
- Slot Head Screws / Slotted Flat Head Screws
- Pan Head Screws with Type "H" Cross Recess
- Countersunk Flat Head Screws with Type "H" Cross Recess
- Chipboard Screws
- Washer Head Self Drilling Screws / Bugle Head Drywall Self Drilling Screws
- Self Drilling Screws / Head Self Drilling Screws
- Bugle Head Drywall Screws (Fine & Coarse)

Anchors
- Sleeve Anchor / Steel Plug Drop-in Anchor / Pipe Anchor with Bolt
- Draw-in Anchor (With Hexagon Conic Nut) / Draw-in Anchor - "S" Type
- Monoclip Anchor / Heavy Duty Anchor / Hook Suspension Anchor
- Ceiling Anchor - With "Y" Part / Plastic Anchor (Nylon Plug Anchor)
- Chemical Anchor / Threads & Rods Normal Type

Clamps
- Standard Pipe Clamp
- Standard Wood Screw Pipe Clamp with Rubber
- Long Wood Screw Pipe Clamp
- Pipe Clamp for Sprinkler
- PVC Clamp Heavy Duty Clamp
- Heavy Duty Clamp / Ventilation Clamp
- Ventilation Clamp
- Ventilation Clamp
- Rod Connected Ventilation Clamp

Support - Expansion Assemblies
- "L" Channel / "C" channel / "U" channel
- Wall Hanger Bracket "H" Type
- Wall Hanger Bracket "U" Type
- Wall Hanger Bracket "C" Type
- Cantilever Bracket
- Ventilation Duct Angle "G" Clamp
- Duct Fixing Bracket "L" Type
- Duct Fixing Bracket "P" Type
- Duct Fixing Bracket "Z" Type
- "Square U Bolt" with Cleat
- Washer for Channels
- Nut for Channels
- "U" Bolt / Rods & Threaded Rods
- Girder Clamp
- "NPU" Hanging Clamps
- Mounting Accessories for Channels