

Jost's



Diverse Technology, Integrated Approach

Types of Industrial Trucks

Pg No. 1



Datapaq - Furnace Tracker System

Pg No. 2



Gas Detection System

Pg No. 2



Non-contact Temperature Measurement

Pg No. 3



“Providing cutting edge technology solutions to the Indian Steel Industry..”



Josts has been partnering growth over a range of business verticals across the country for over a hundred years now. We help empower Indian Industries with cutting edge technology in our chosen business areas viz. Material Handling, Industrial Finishing and Engineered Products. Material Handling Equipments encompasses a diverse range of vehicles, storage units and special purpose solutions involved in transporting, storing, controlling, enumerating and protecting products at any stage of manufacturing, distribution consumption or disposal in Steel Plants and units. Josts can offer innovative Storage Solutions for optimum space utilization, Industrial Trucks for material handling and special purpose Engineered Systems for transportation of test samples, thus improving the efficiency of the processes.

Jost's Storage Solutions:

Josts can offer Storage solutions that can be used to hold or buffer materials during down times, or times materials are not being transported. These periods could refer to temporary pauses during long term transportation or long-term storage designed to allow the buildup of stock.

The majority of storage equipment refers to pallets, shelves or racks on to which materials may be stacked in an orderly manner to await transportation or consumption. Many companies have gone with such solutions that allow materials or products of a certain type to conserve space while in inventory.



Types of storage options -

- Pallet Racks,
- Push-back / Gravity Flow Racks
- Heavy Duty Racks
- Mezzanine Racks
- Drive-through or Drive-in Racks,
- Cantilever Racks

Josts Industrial Trucks -

Josts can offer Industrial Material Handling solutions for material transportation, loading & unloading and stacking & retrieving operations. These industrial trucks can be manual hand-operated or electric / battery operated, having variety of characteristics like walk or ride type to make them suitable for different applications of material loading & unloading, material transportation, material stacking & retrieving jobs.



Types of Industrial Trucks we offer -

- Hand Pallet trucks - Forklifts
- Electric Pallet trucks (walkie / ride type)
- Reach Trucks
- Electric Stackers (walkie / ride type)
- Order Picker
- Platform trucks - Side loader
- Tow Trucks - Custom Built Trucks

Special Engineered Systems -

In large steel plants and foundries where tests of samples have to be taken at frequent intervals and the furnace locations are quite far from spectroscopic laboratory, dependence of errand running for samples and reports becomes impractical as it defeats the very purpose of having the sample tested at short intervals. Jost's Pneumatic Sample Transport System (PSTS) is an ideal solution to minimise the time by fast dispatch and is perfectly suited for handling solid, powder, granules or flake samples.

Special Engineered Systems -

Jost's is a pioneer in India to design, manufacture and supply of such systems and Jost's systems are already in operation at most of the steel plants and other large industries.



Furnace Tracker – Complete High Temperature Profiling & TUS Surveying -

Built for the steel industry, the Datapaq Furnace Tracker System provides a range of unique solutions to satisfy both primary and secondary steel heat treatment applications. Datapaq designed a 'phased evaporation' insulation system to keep the data logger at a stable operating temperature, during furnace temperatures in excess of 1300°C/2372°F and in the following applications:

- Steel Spring Hardening and Tempering
- Annealing: Steel Plates, Steel Tubes, Steel Lamination, Steel Gear
- Blanks, Bright Annealing
- Vitrious Enameling
- Steel Pipe Homogenizing
- Vacuum Carburizing

Datapaq also offers the following pre-built profiling system solutions:

- Furnace Tracker System for Slab Reheat
- Furnace Tracker System for Billet Reheat Furnaces



Gas Detection in Metals & Steel Production

With their many furnaces, flames and processes that emit hazardous gases, steel mills have a significant need for gas and fire detection. Each step in the steel making process—from coke production through ingot casting and rolling—has its specific hazards that must be addressed with a properly matched gas detection system. Oldham offers a wide range of gas detection products for the steel industry to help keep employees safe and production running.

Specific Applications

- Coke ovens
- Ppm hydrocarbon leak detection
- Blast furnace
- Confined space entry
- Soaking pits
- Inert gas blanketing
- Shutdown/turnaround maintenance
- Data-logging/industrial hygiene-workplace exposures
- Pickling and plating
- Environmental
- Aluminum smelting
- Perimeter/fence-line monitoring
- Hydrogen detection used for cooling
- Fixed point



Schiltknecht MiniAir 20 Air Flow Meter -



- Humidity and temperature sensors can be connected simultaneously
- Large TFT display
- All three channels can be displayed simultaneously
- Easy operation by key pad
- Memory and logger function

ThermoAir3 - Thermoelectric Anemometer

The ThermoAir3 is our specialist instrument for measuring very small air flow rates and determining degree of turbulence, as well as for humidity measurements.

- Flow from 0,015 m/s
- Multi-sensor anemometer for thermoelectric flow sensors and humidity measurements
- Automatic temperature compensation
- 100% guaranteed measuring tolerance



Non-contact Temperature Measurement -

Raytek provides temperature measurement solutions for every step in the steel making process, from coke ovens and blast furnaces to annealing and coating mills, and also has temperature measurement solutions for forging mills and heat facilities.

Major Application -

- Continuous Casting
- Rod /Wire Mills
- Reheating Forging Mills
- Rolling Mills





Marathon Series -

Marathon Series combines superior performance with state-of-the-art digital technology and is a family of unique infrared instruments designed for operating in harsh environments. These integrated units offer advanced electro-optics, smart digital electronics, and built-in user interface in a rugged, compact housing.

DataTemp®

Multidrop Software Windows software for Marathon thermometers features trend plotting, data logging, sensor setup, process alarming and statistical process control.

Mp50 Linescanner

This product offers a cost-effective way to measure edge-to-edge temperatures for control of product uniformity, providing data for up to 256 points per scan at 48 scans per second in a 90° field-of-view.

DataTemp®

DP Software

Windows® software for the MP50 linescanner allows remote temperature monitoring, control and analysis. Thermal images can be viewed in real-time or saved and process irregularities corrected before they become problems.

Benefits of Noncontact Temperature Measurement -

- Improved process control and energy efficiency
- Longer tool life
- Higher quality products
- Less production downtime
- Increased throughput

Electrical Instruments -

1. Oil BDV tester (Megger, OTSI00AF) - To check Transformer Oil breakdown voltage.
2. Insulation Resistance tester (Megger, MIT series) ranges from 1kV to 15kV - To check insulation condition of any electrical installation.
3. Cable fault location system (Megger, ST series) - To determine the pin point location of the underground cable fault to avoid unnecessary digging.

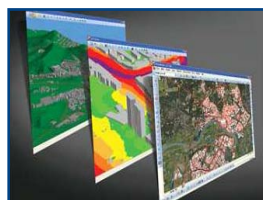
4. Hand held instruments like Earth tester, Clamps meter, multimeter from Megger and Flir5. Tan delta kit (Megger, Delta series) - To check Tan delta of Power transformer, Bushings, Cts, etc.
6. Relay Test kit (Megger, Sverker series, SMRT series) - To test all functions of Relay.
7. Circuit Breaker testing comprises of various products like CB Analyser (Megger, Tm1700 series), Primary injection kit (Megger, ODEN series), Vacuum Tester (Megger, Vidar)
8. Safety products from CATU like discharge rods, Hand gloves as per IEC60903, safety shoes, Helmets, Arc flash suits, Insulating mats, Voltage detectors, insulating tools, lockouts & tagouts.
9. Thermovision Camera (Flir, E series and T series) - To check hot spot and thermal profile of any installation. Flir had wide range of cameras to offer.



Noise and Vibration - Solutions

Work environments can be loud: periodically loud, consistently loud and/or very loud on the odd occasion. The noise can be all over or just in a few areas that the workers move between or through. Because of these variations in the workplace, determining safe noise levels for personnel can present difficulties.

Josts offers a range of solutions that meet any workplace vibration and noise measurement challenge: from noise dose meters that travel with personnel tracking the total daily exposure, to sound level and vibration meters that can perform stationary long-term data analysis and storage for a particular location or process data for a more pass-fail approach.



Specialized in providing technology based engineering solutions for your process parameters, test & measurement needs in the field of Process Control Instrumentation.



Process Control Instrumentation :

Jost's offers reliable and innovative solutions for measurement of critical process parameters such as Flow, Pressure, Temperature, Vibration, Gas & Moisture. We offer -

Flow : Ultrasonic flow meters for Water and Gas : Portable, Clamp on Dedicated & Intrusive types.

Pressure/ Temperature Instruments :

Mechanical and Electro Mechanical Pressure, Temperature switches / SMART Pressure & Temperature Transmitters / Remote interfaces , Field Bus / Pneumatic Portable Calibrators with Hand pump / Multifunction Calibrators / Pressure Transducers / Temperature Calibrators / Pressure Controller & Indicator / Lab Package.

Gas & Moisture Products : Moisture Oxygen & Hydrogen Analyser / Dew Point Transmitter / OEM Moisture Transmitter

Vibration : Proximity systems / Transducers / Seismic sensors / Mechanical & Electronic switches / Vibration transmitters / 19" rack mounted condition based Vibration Monitoring systems designed to comply with API 670 up to 60 channels of vibration, position, speed, temp and process variables monitoring

Our Specialized Services Include -

- ✓ Application Engineering Services
- ✓ Installation, Erection and commissioning
- ✓ Annual Maintenance Contracts
- ✓ Comprehensive Maintenance Contracts
- ✓ Specialized Operators Training
- ✓ Genuine Spare Parts
- ✓ Periodic Battery Maintenance
- ✓ Overhauling and refurbishing services



For Engineered Products

- ✓ Repairs and Spares support
- ✓ Calibration of Electrical Test & Measuring Instrumentation.
- ✓ Calibration and repairs of Instruments.
- ✓ Annual Maintenance Contracts
- ✓ Thermal imaging surveys
- ✓ Flow measurement services using Ultrasonic flow meters.
- ✓ Testing and Consulting services in the field of Noise and Vibration
- ✓ Online temperature profiling in ovens and furnaces.
- ✓ Maintenance and calibration of Gas Detection System
- ✓ Temperature and Pressure parameters calibration confirming to international standards
- ✓ Training



Our Esteemed Clientele in Steel Industry -

- Rourkela Steel Plant
- Bhilai Steel Plant
- SAIL Jindal Steel
- Tata Steel
- Bhushan Steel
- Essar Steel
- Hindalco
- Mahindra Ugine Steel

Applications and Our offerings

Sr.No	Application	Our offerings			
1	Steel Spring Hardening and Tempering	Furnace Tracker – Complete High Temperature Profiling & TUS Surveying			
2	Annealing: Steel Plates, Steel Tubes, Steel Lamination, Steel Gear Blanks, Bright Annealing	✓			
3	Vitrious Enameling	✓			
4	Steel Pipe Homogenizing	✓			
5	Vacuum Carburizing	✓			
6	Coke Ovens	Gas detection system	Air flow meters - humidity and temperature sensors		
7	Blast Furnace	✓	✓		
8	Soaking pits	✓			
9	Shutdown / turnaround maintenance	✓			
10	Pickling and plating	✓			
11	Aluminium smelting	✓			
12	Hydrogen detection used for cooling	✓			
13	Ppm hydrocarbon leak detection	✓			
14	Confined space entry	✓			
15	Inert Gas Blanketing	✓			
16	Data logging / industrial hygiene - workplace exposures	✓			
17	Environmental	✓	✓		
18	Perimeter fence line monitoring	✓			
19	Fixed point	✓			
20	Continuous casting			Non-contact Temperature Measurement	
21	Reheating			✓	
22	Rolling mills			✓	
23	Rod / Wire Mills			✓	
24	Forging Mills			✓	
25	Nearly in every application				Material Handling Equipment, Electrical Instruments, Process Instrumentation & Noise and Vibration Instruments.



Since 1907

Jost's Engineering Company Limited

Plot no.3 , Survey no. 126, Paud Road, Pune - 411 038. INDIA. **T.:** +91.20.2543 4350/90 **F.:** +91.20.2543 4393 **E.:** salespune@josts.in **W.:** www.josts.com

Head Office : +91.22.6120 2300 Fax : 6120 2345 Thane (Factory) : +91.22.6117 4000 Fax : +91.22.6117 4020
 Bengaluru : +91.080 - 41234775 / 41234885 Chennai : +91.44. 2626 8536 / 2628 8407 Delhi : +91.11.4567 6000 / 14
 Kolkata : +91.33.2242 9510 / 4008 1242 Secunderabad : +91.40.2771 4934 / 44 / 54 Vadodara : +91.265.2351 642