



TECHNOVISION
Design & Systems Pvt. Ltd.



INTRODUCTION

TECHNOVISION the company formed with a vision to establish in the core sector of engineering with art of development of in house manufacturing facilities, the art of manufacturing always been a magnificent obsession running in the each block set to build the company.

And after tow decades of working in the special industries such as Mining, Metallurgy, Railways and Oil & Gas, we have too up the challenge to become a perfect steel artisan - a reputation that is based on our ability to recognize and meet the needs of the growing needs of the market. Since our inception, we have been diligently sharpening our competitive edge by proactively responding to key development in technology aspect and hence cushioned the company with collaboration with highly skilled professionals to see out all economic weather and geopolitical storms.

In the years ahead our focus would be to sustain growth and we will do our utmost to further establish a profit-maximization philosophy through cost reduction and restructuring of uncompetitive and non-core sectors. We also firmly intend to progress forward with our management strategy which primarily includes our plans of enhancing production facilities in the state of Uttar Pradesh. The existing facilities of Singrauli (MP) & Bhuvneshwar shall be embossing more arsenal in the kitty to dwell as premiere facilities for fulfilling market qualitative demands.

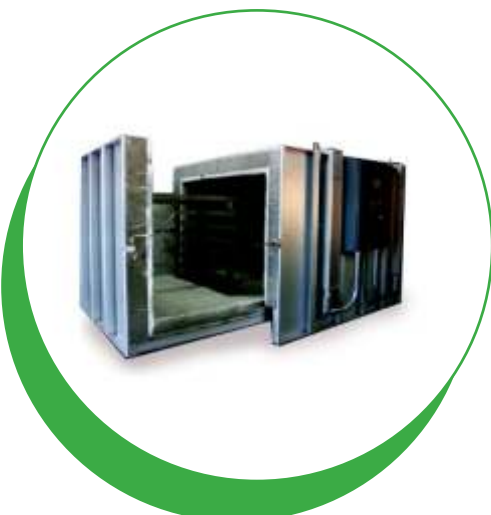
Living in an era of cut-throat competition among formidable competitors we have built our strength through sustaining our focus on selecting critical yet marketable products. In the years ahead and the ones to follow we will further our efforts to augment our competitive position by moving closer to our customers and expanding our presence to global shores. Together with the support of our esteemed clientele and steely resolve we aim for a Strong, Resurgent and Focused TECHNOVISION."

UNIT 1-Singrauli M.P.

Unit -I Facilities

Production of Cutting Picks & Tamping Tools

- Drilling Cum Milling Lathe
- Brazing Machine
- Electric Heated Box Tempering Furnace
- Quenching Tank – Polymer
- Compressor for Sand Blasting & Surface Preparation
- Oil Tank with Agitator



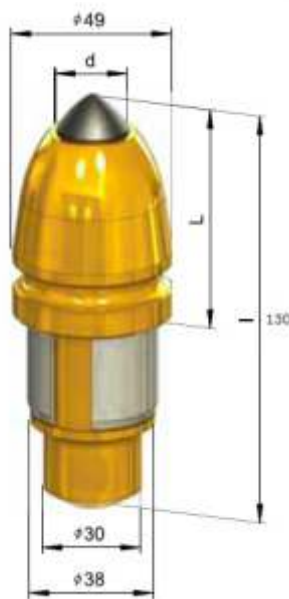
PICKS AND OTHER ROCK TOOLS

Technovision is a renowned manufacturer, supplier and market leader in design and manufacturing of quality tools for Coal, Limestone and Laterite mining as well as rock cutting tools for foundation drilling in construction sector. Techno vision is currently manufacturing picks for Continuous Miners underground coal extraction application. In surface mining we are supplying Picks for Surface Miners for Coal, limestone and laterite extraction. Also we are supplying Picks for Road header Machines, Long wall Shearer Machines of all compatible makes. In construction sector we are supplying rock cutting tools/ Bullets/Teeths for Piling Rig machines of all make and design. We are committed to deliver high performing and costing tools and our motto is customer satisfaction with cost reduction because of our unique designs, patents and Russian technology for manufacturing these tools. At present we have happy customers and OEM's in all the above sectors and we are proud to say that they have replaced their use of imported tool with our Made in India Tool and we are having flexibility to design and manufacture Picks and other Rock Tools as per the users requirement. We feel proud to share that apart from India we are supplying tools to foreign markets as well and we are continuously improving our process and performance of the tools.

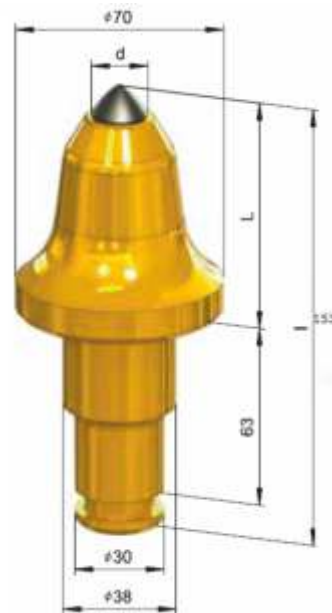
Manufacturing facility location – Singrauli, Madhya Pradesh



Feeder Breaker Pick



Foundation Pick



SM Pick



CM Pick

CUTTER DRUM, CUTTING HEAD REFURBISHMENT

Since we are doing business in mining sector since long and currently enjoying a cordial relationship with all the miners and users of our Picks and since having all the knowledge and expertise of design of Picks, and Holders as well as retrofitting of cutter drums and cutter heads. We are pleased to share that at present we are having in-house refurbishment facility and at present we have gained the expertise in refurbishment of Continious Miner Cutter Drums, Surface Miner Cutter Drums, Road Header Cutter Heads as well as Longwall Shearer cutting wheels. We have already refurbished and supplied several drums of all kind of drums and our customers have extracted the 50-70% of extra life from their scrapped drums and that too with a minor cost involved in comparison to new Drums.

Refurbishment facility location – Bhubaneswar Fabrication Shop



TAMPING TOOL FOR RAILWAY TRACK MAINTENANCE MACHINES

At present Indian Railway as well as world Railway are using automated machines made by foreign manufacturers for the track maintenance. One of these machine is Tamping machine and this machine uses the Tungsten Carbide Tamping Tool (TCTT) as its end working element. We are proudly associated with Indian Railway since long and also we are supplying these track machines along with Tamping tool manufactured by Technovision. Technovision manufactures all kinds of RDSO approved Tamping tools and in terms of performance we are at par in comparison to imported tools and performance of our tools are much higher than the other Indian manufacturer's tools because of our unique patents and Russian technology for manufacturing these tools.

Manufacturing facility location – Singrauli, Madhya Pradesh



FORGED BODY



CARBIDE BLADE



TAMPING TOOL

Tamping Bank Refurbishment/Overhaul

The heart of all these tamping machines are the Tamping unit/Tamping Bank. After every 1000 Km of tamping work of the rail tracks these units are sent for complete overhauling and retrofitting with all brand new spares. Technovision at its Bhubaneswar workshop do these overhauling on contract basis for Indian Railway, DFCL and for other Private players. Due to our expertise of supply of new track machines as well as performing AMC and overhaul of these machines we have gained the expertise for refurbishment of these tamping units. We have a dedicated team of experts for this overhauling as well as we have a dedicated test rig as per the original working parameter for these overhauled units before dispatch.



SIMULATOR COMPLEX For Excavator Operators



TECHNOVISION Simulator Complex is designed for improving the quality of professional training, retraining and advanced training of technicians engaged in excavator, crane, loader operations, for obtaining practical control skills, assessment of professional skills and practicing conduct in emergency situations.

Basic configuration

- Simulator cabin compartment;
- Fully rotatable platform;
- Seat control console and/or console with control and indication devices in accordance with equipment series (operator workplace).
- LCD / video projection screens with visual system.
- Input/output unit transmitting controls data to software.
- PC based computing complex;
- Intercom
- Software for various runtime environments.
- Software for various (seat) control modes.
- Instructor workplace (business game leader).
- Instructor PC.
- Network equipment.
- Network software module.
- Instructor software.
- Virtual environment software (3D space, pre-installed version).
- Intercom software.
- CCTV inside the cabin compartment.

Optional Extras

- Touch sensitive display;
- Dynamic seat actuator (renders dynamic impact on the operator).

Technical Specifications (Basic Configuration)

- Overall dimensions: no more than 3100 × 3050 × 2900 mm.
- Maximum turning radius: no more than 2100 mm.
- Weight: no more than 1500 kg.
- Power source: three phase AC network 380 V, 50 Hz.
- Power consumption: no more than 7 kW.
- continuous operation time: not less than 8 hours.
- distance to operator workplace: 1-50 m.

SOPHISTICATED CONTROL

AUTOMATIC FIRE DETECTION AND SUPPRESSION SYSTEM

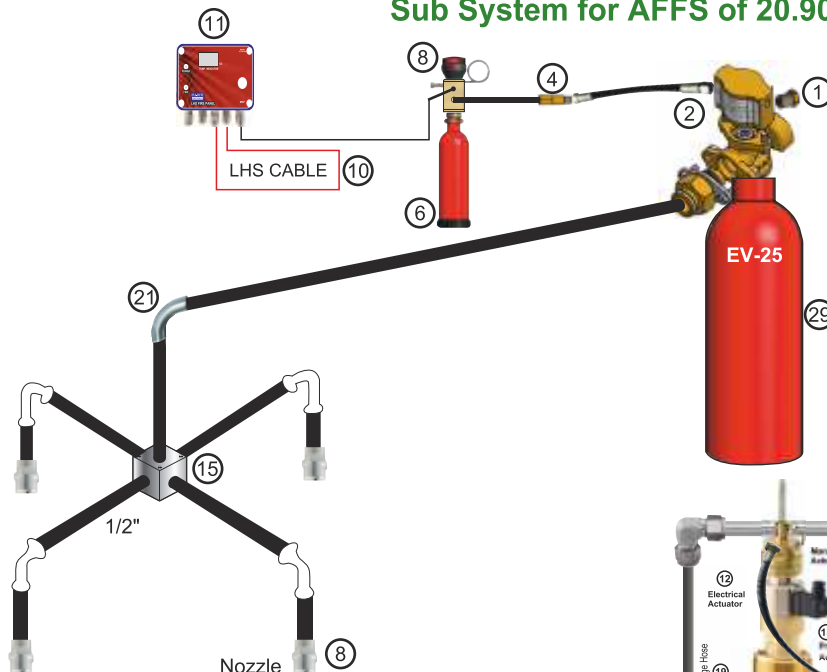
Technovision started Design, Manufacture and servicing of Aerosol based Automatic Fire Detection and Protection System for Walking Draglines. We are in technical collaboration with the World's pioneers in the field . We Manufacture various Models of Fire Protection Systems, at our UNIT –I facilities.

AFDSS System consists of Three Sub-systems:-

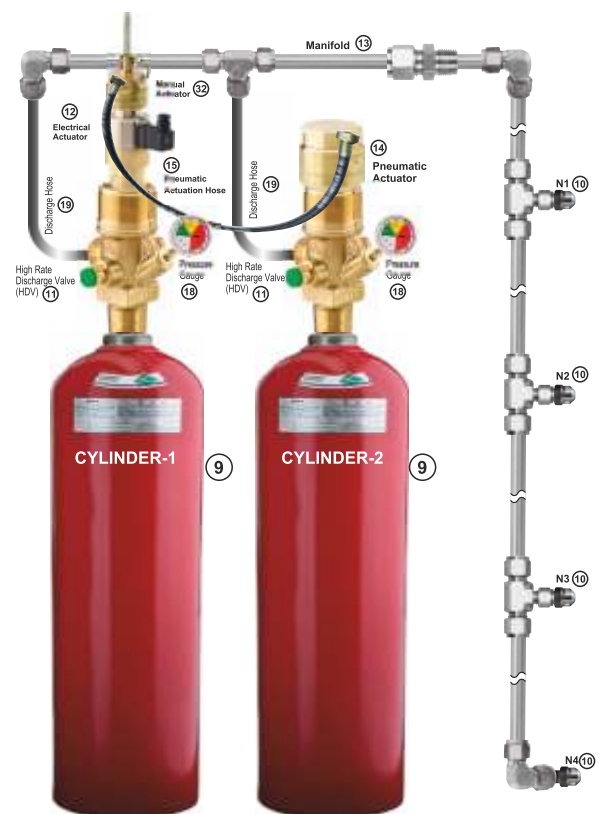
- 1. Auto-detection & Fire Alarm sub system: Consists of Micro Processor Control Panel, Linear Heat Sensor(LHS), Alarm/Hooter**
- 2. Auto-actuation sub system: Consists of Automatic Actuation, Manual Call Points etc.**
- 3. Extinguisher sub system: Aerosol Generators/High Pressure Water Mist.**

The prompt technical services, coupled with the high tech-pressurized cylinder and Aerosol based technology of Technovision with prompt after sales services, during warranty will resulted in promising results Our System's are designed to Perform and not only detects the fire but automatically suppresses it at very incipient stage thus saving the equipment from heavy fire damages and saving the lives of the operators.

ABC Dry Chemical Powder Based Automatic Fire Protection Sub System for AFFS of 20.90 Dragline



High Pressure Water Mist Cylinder Module Sub System for AFFS of 20.90 Dragline



UNIT 2 - Tangi Bhubneshwar Orissa

Unit -2 Fabrication & Machining Facilities

Lathe machine 1.5 mtrs long x 500 mm centre height
Lathe machine 3 mtrs X 350 mm center height
Lathe machine 3 mtrs X 270 mm center height
Lathe machine 1mtrs X 150 mm centerheight
Boring machine-1 spindle dia 100 mm X 1500 bed X 1000 height
Boring machine-2 spindle dia 80 dia x 1000 X 900 height
Vertical lathe machine 2500 dia X 1000 height
Plano miller 1000 width X 1000 height X 6000 long
Radial drill machine-1 Spindle Dia 80 mm X 1000 height
Radial drill machine-2 Spindle Dia 80 mm X 1000 height
Shaping Machine table size 400 X 400
Bending machine 2500 width X 40 mm thic
Power saw cutting machine Max. cutting Dia 300 mm
MIG MAG welding machine 600 Amps
ARC welding machine (400 AMP)
SAW welding machine Over head crane capacity-3MT,7MT & 25MT



Products: Fabricated & Assembled



GASOLINE TANK

(13000mm x 2750 mm as per ASME Grade VIII)



ASME PRESSURE VESSEL



SKID WITH PIPE LINE



WALKING BEAM FURNACE BED



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