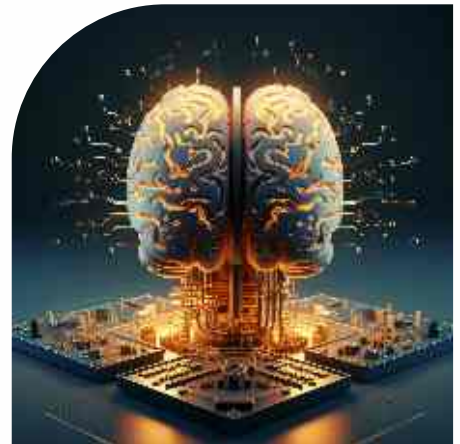




# Innovating Machinery Empowering Industries

End of Line Packaging





## Welcome to XTECHNOCRAT



Xtechnocrat is a trusted name in the pharmaceutical machinery industry, driven by innovation, precision, and reliability. With a collective team experience of over 40 years, we specialize in designing, manufacturing, and delivering world-class pharmaceutical processing and packaging machinery that meets global regulatory standards.

Our commitment lies in “Smart Machine Innovation,” where advanced engineering meets customer-centric design to empower pharma manufacturers worldwide.

XTECHNOCRAT is INDIA's FIRST Single Source Supplier for Pharma Machinery as Turn Key Projects & Industrial Robotics.

XTECHNOCRAT is in Manufacturing of Pharma Machines for OSD, Tube, Oral & Injectable liquid, Dry Powder, Sachet, Stick pack as Integrated Line, End of Line Solution, Industrial Automation, Industrial Robotics, Labelling Machine, Clean Room Furniture, Vision Inspection and Track & Trace Solution and Automatic Storage Solution.

## Vision

To be a global leader in providing innovative, reliable, and sustainable engineering solutions that empower industries to achieve efficiency, precision, and growth.

## Mission

our mission is to design and deliver world-class machinery and automation solutions with cutting-edge technology, uncompromising quality, and customer-centric service. We aim to create value through innovation, foster long-term partnerships, and contribute to the advancement of manufacturing excellence.

## Objectives

- Innovation & Technology
- Quality & Compliance
- Customer Focus
- Sustainability
- Global Expansion
- People & Growth



# TURNKEY PROJECTS



We specialize in delivering end-to-end pharmaceutical turnkey solutions, ensuring seamless project execution from concept to commissioning. With decades of combined industry expertise, our team guarantees precision, compliance, and innovation at every stage.

## Project Includes

- Master Planning
- Unique Design
- Machine Manufacturing Facility
- Installation & commissioning
- Maintenance & Repair Services

## Our Turnkey Services Include

### Project Consultancy & Design

- Feasibility studies and project planning
- Conceptual, basic & detailed engineering design
- cGMP-compliant facility layout as per WHO, USFDA, EU guidelines

### Facility Construction & Setup

- State-of-the-art cleanroom construction
- HVAC, water systems, and utility design
- Modular facility development

### Pharma Machinery & Equipment Supply

- Granulation, coating, compression, and encapsulation lines
- Liquid, ointment, and sterile injectable plants
- Packaging, labeling, and inspection machinery



### Validation & Documentation

- IQ, OQ, PQ validation protocols
- Regulatory documentation support
- (USFDA, EU GMP, WHO GMP, MHRA, TGA)
- Compliance audits & gap analysis

### Automation & Smart Manufacturing

- PLC & SCADA integrated systems
- Industry 4.0 compliant manufacturing solutions
- Data integrity and electronic batch recording (21 CFR Part 11 compliant)

### Training & After-Sales Support

- Operator & staff training
- Maintenance contracts and technical support
- Continuous process improvement consulting

## Industries We Serve



Pharmaceutical  
Manufacturing



Nutraceutical  
Manufacturing



Herbal &  
Ayurvedic  
Formulations



Biotech &  
API Facilities



Cosmetics  
Manufacturing  
Plant



## Why Choose Us

**40+ Years**  
of Combined Expertise

**Global**  
Project Experience

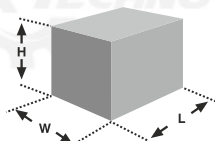
**Quality-Driven**  
& Cost-Effective

**One-Stop**  
Turnkey Solutions

## Shrink Wrapping Machines

### MODEL EASY FLEX

Semi-automatic heat-shrink packing machine with double reel. Manual loading system, particularly suitable for medium production volumes where pack sizes and formats need to be changed often.

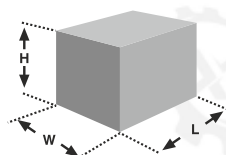


|   | 600    | 800    | 1100   | 1500       |
|---|--------|--------|--------|------------|
|   | Max*   | Max*   | Max*   | Max*       |
| L | 400 mm | 500 mm | 500 mm | 700 mm     |
| H | 320 mm | 320 mm | 400 mm | 350/600 mm |



### MODEL LINEAR FLEX

Automatic heat-shrink packing machine with double reel. For medium and large packs, with double-ventilation S-version tunnel. Possibility of total pack closure by layering film.

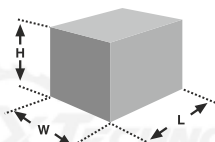


|   | 600    | 800    | 1100   | 1500       |
|---|--------|--------|--------|------------|
|   | Max*   | Max*   | Max*   | Max*       |
| L | 400 mm | 500 mm | 500 mm | 700 mm     |
| H | 320 mm | 350 mm | 400 mm | 350/600 mm |



### MODEL CORNER FLEX

Automatic heat-shrink packing machine with double reel. Electronic version fitted with thruster operated by servomotor, up to 30 packs/minute.



|   | 600    | 800    | 1100   | 1500       |
|---|--------|--------|--------|------------|
|   | Max*   | Max*   | Max*   | Max*       |
| L | 400 mm | 500 mm | 500 mm | 700 mm     |
| H | 320 mm | 350 mm | 400 mm | 350/600 mm |



# Over Wrap Machine

A robust automatic over wrapping unit—built for precision and reliability, capturing a heavy-duty industrial setup. An over wrapper applies a tight, outer film layer to packaged items—typically cartons or boxes—for protection, security, and aesthetic enhancement. The film may be plastic (cellophane, BOPP, PVC) or paper, depending on the needs for sustainability or tamper evidence



## Features

- In-feed conveyors (often servo-driven) for smooth product flow
- Film unwind rollers to maintain consistent tension
- PLC touch screens for control and monitoring
- Cutters and hot plates for precise trimming and sealing
- Motors (servo or cam-driven) to manage motion and consistency

# Stretch Bender

## Type of Machine

High-speed stretch-bander for pharmaceutical and cosmetic industries.



## Wrapping Method and Material

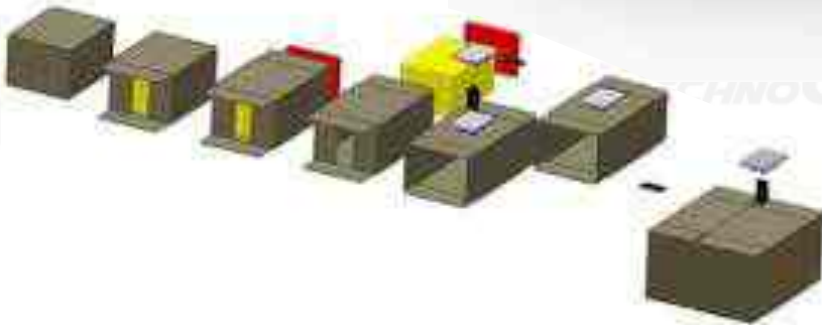
- Stretch-Banded. Two-reels of shrinkable polyethylene one-sheet (LDPE).
- End-of-line machine ideal for high-speed production lines.
- Balcony-style structure for easy access to key working areas.
- GMP-build quality, for most effective and efficient performance in use.
- Large use of stainless steel and has extremely compact design for best GMP.
- Pneumatic-operated or brushless-driven, according to production speed.
- Functions set and stored via touchscreen display.
- Designed mainly for bundle in stretched pack, without shrink-wrapping.

# Case Packing Machine

Case erector there will be two options i.e for top opening and for side opening, the speed we can provide will be 10 to 12 cases per min

## Fully Automatic & Semi Automatic

- Carton Sealing
- Password Protection
- Color Touch Screen
- Error and Emergency Indicator
- Jamming Sensor
- Glue Applicator



## Side Loading



Side loading case packer can be used for pushing collation carton bundles and pouches

## Top Loading



Top loading case packer can be used for the lines where the application of Pick and place ,such as bottle,Cans, pouches Mono cartons and components



Carton Sealing



Password Protection



Color Touch Screen



Error And Emergency Indicator



Jamming Sensor



Glue Applicator

# Dynamic Checkweigher

Our dynamic check weighers combine cutting edge weighing technology with unsurpassed weighing accuracy. All our check weigher systems are not only calibrated for quality, but also designed to excel in a variety of applications. The reliability of our check weighers redefines the standard of a weighing system and guarantees outstanding performance even at maximum speeds.

## Features

- High accuracy
- No zero drift
- Application flexibility
- 100 Product memory
- Password protection
- Dynamic compensation
- Suitable for pouches / Packets / Shipper Carton
- Easy removal of conveyor platform for cleaning purpose
- Informative dashboard
- Multi-weight classification
- Inbuilt report generation
- Interlock with other machines
- Ethernet connectivity



## Technical Specification

- S.S 304 frame structure.
- Designed for the control of packed goods.
- Sturdy, Flexible & Precise Design
- Reliable & Customized Design to Integrate with exis
- Weighing Cell – Imported make
- Weighing range: Customize as per requirement
- PLC & HMI based Sta
- Customize Pneuma

# Taping Machinery / Adhesive Tape



Automatic Self-dimensioning Carton Sealer With Self-adhesive Tape For Top And Bottom Sealing.

## Model LM-50-60-80-TAPE

### Technical Features

- Power supply: Three-phase/Single-phase
- Installed power: 0,25 Kw
- Average production: 1000 boxes/hour
- Box transfer speed: ~22m/min

Semiautomatic self-dimensioning taping machine which seals With adhesive tape the upper and lower parts of uniform boxes.

## Model TBR-50-60-80-TAPE

### Technical Features

- Power supply: Three-phase/Single-phase
- Installed power: 0,25 Kw
- Average production: 600 boxes/hour
- Box transfer speed: ~22m/min



Automatic carton sealer with manual dimensioning and flap Closer. It folds automatically the four upper flaps and seals With auto-adhesive tape the top and bottom of batches of Uniform size.

## Model LMA-52

### Technical Features

- Power Supply: Three-phase/Single-phase
- Installed Power: 0,23 Kw
- Average Production: 1200 boxes/hour
- Box transfer speed: ~22m/min



## Model SAVING

### Technical Features

- Turntable ø 1500 mm.
- Max. Load weight: 1500 Kg.
- Max. Load dimensions: 800x1200mm.
- Load height sensing photocell.
- Wrapping height Max. 2200 mm.



## Vertical Stretch Wrapping Machines

## Model SMARTWRAP

### Technical Features

- Turntable ø 1800 mm.
- Max. Load weight: 2000 Kg.
- Max. Load dimensions: 1000x1200 mm.
- Load height sensing photocell.
- Wrapping height Max. 2500 mm.



## Model WINGWRAP

### Technical Features

- Max. load dimensions: 1000x1200 mm
- Load height sensing photocell.
- Wrapping height max. 2000 mm



## Model MOTION

### Technical Features

- 2 AGV batteries 12 v – 110 ah serial connected.
- High frequency battery charger integrated.
- Load height sensing photocell.
- Wrapping height max. 2200 mm. (2700 mm, 3000 mm optional).



## Model SMARTWRAP

### Technical Features

- Turntable ø 1800 mm.
- Max. Load weight: 1500 Kg.
- Max. Load dimensions: 1000x1200mm.
- Load height sensing photocell.
- Wrapping height Max. 2300 mm\*.



## Model THE RING

### Technical Features:

- Load dimensions: 1200 x 1200 mm.
- Wrapping height: 2200 mm
- Max. Rotation speed: 70Rpm.
- Working height: 450-550 mm
- Pre-Stretch ratio: Min 160% to Max 300%



## Model EDDY

### Technical Features:

- Max load dimensions: 1250 x 1250 mm
- Min load dimensions: 600 x 800 mm
- STD Wrapping height: 2100 mm
- Max. Rotation speed: LS:25 rpm, HS:30 rpm HD:32 rpm
- Working height: 500 mm



## Model WINGWRAP

### Technical Features

- Max. load dimensions: 1000x1200 mm
- Load height sensing photocell.
- Wrapping height max. 2000 mm
- Alarm indications.



## Blister Inspection System



### Features

- IPC with Touch Screen - 15" Monitor
- Windows 10 IOT operating system.
- Industrial Camera (2.3 MP) with LED Illumination
- Inspection FOV of **280 X 180 mm**
- IPC Mounting Stand, Camera Mounting & accessories: GMP enclosure for IPC, Camera, Light and other accessories.
- Microcontroller based Electronic Card for extremely fast I/O processing
- **Auto Teach** Feature for Single colour Products in Blister
- Interconnecting Electric Cables
- User-friendly GUI and simple to operate.
- Fast change of formats from the stored product recipe.
- cGMP compliant machine design
- Integration with SSR – 2 No.

## Pin Hole Detector



### Features

- C shape Type Pin Hole Detector with in - built Transmitter and Receiver Sensors.
- Inspection Foil Width (Fix) **Up to 260 mm**
- Power Supply - In built SMPS
- Electric cable / Connection: 8 core Cable with special connectors for TX and RX
- Display: On board 2 -line LCD display with Button Panel

### Inspection/ Detection Parameters:

- Foil Fractures, Pores, Fissures on Packaging material Support Non-Transparent Metallic Packaging Materials - Aluminum Composite Foil.
- Speed Up to 1800 Meters/Hour
- Pin Hole Detection Accuracy : up to 10 Micron\* Pin Hole diameter (Depends upon Foil Type and its movement)
- Detection in Horizontal and Angular direction

### Integration & Rejection Logic

- Integration with existing Rejection Mechanism.
- Kevision Microcontroller card with rejection logic Program for rejection of Foil (Blister).

# XT Area Scan Vision System

## Technical Specification

| Sensor type                 | CMOS, Global Shutter | CMOS, Global Shutter | CMOS, Global Shutter | CMOS, Global Shutter |
|-----------------------------|----------------------|----------------------|----------------------|----------------------|
| Sensor Model                | Sony@IMX296          | Sony@IMX273          | Sony@IMX24 9         | Sony@IMX273          |
| Resolution                  | 1440x1080px          | 1440x1080px          | 1980x1200 px         | 1440x1080px          |
| Pixel Size                  | 3.45x3.45 µm         | 3.45x3.45 µm         | 5.86x5.86 µm         | 3.45x3.45 µm         |
| Sensor Size                 | 1/2.9"               | 1/2.9"               | 1/1.2"               | 1/2.9"               |
| Max. frame rate             | 65.2fps@1440 × 1080  | 249.1fps @1440×1080  | 39fps@1980 × 1200    | 224fps@1440 x1080    |
| Interface                   | Gigabit Ethernet     | USB3.0               | Gigabit Ethernet     | USB3.0               |
| Maximum FOV @1.5mmfont size | 60x45mm              | 60x45mm              | 120x85mm             | 60x45mm              |



# Carton Serialization Machine



## Technical Specification

- With a Trio of High-Performance Cameras
- Arrow Icon Delivers unmatched accept verification capability
- Arrow Icon Effortlessly verifies Pharma code
- Arrow Icon Accurately validates 1D Codes
- Arrow Icon Experience combination of TIJ and Laser Printing in one

## Features

- Compact, cGMP-compliant machine design
- Easy to integrate within existing lines
- Suitable for both offline and online printing & inspection of 2D and OCR codes
- Online print system supports all types of thermal inkjet printers
- Accurate carton movement and high-quality printing guarantee the lowest rejections
- 21 CFR Part 11 compliant

# CODING & INSPECTION SYSTEM



## Thermal Inkjet Printer



|                                                    |                                                                                                                                                                                                                        |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ink Management                                     | Automatically calculate the amount of ink remaining The current information ink is expected to print the total amount and cost                                                                                         |
| Power parameters                                   | In: AC100-240V50/60Hz Out: 32V/5A                                                                                                                                                                                      |
| Erection/installation                              | Comes with fine-tuning bracket and Anti-collision function Printer head can installed by side spraying or down spraying Free combination installation                                                                  |
| Dust/waterproof equal diameter IP protection grade | Controllers and sprinklers with high protection level can be customized according to customers                                                                                                                         |
| Equipment Specifications Size and weight           | Controller length width and height 28018555mm 195kg1 Printer head length width and height 12712335mm 037kg1 Power adapter length width and height 2009040mm 047kg1 Power line length width and height 1504040mm 014kg1 |
| <b>Database Support</b>                            | PC SOFTWARE FORMAT : support MS Excel MS Access SQL2000 SQL2005 \$QL2008 and other data formats                                                                                                                        |
| <b>File Import Format</b>                          | FILE IMPORT FORMAT: .xls/.xlsx/.csv/.txt/table format                                                                                                                                                                  |
| <b>Printing Technology</b>                         | TW for 2.5                                                                                                                                                                                                             |
| <b>Machine Material</b>                            | Aviation grade aluminium                                                                                                                                                                                               |
| <b>Screen Parameter</b>                            | 7 -inch capacitive touch screen (1024*800px)                                                                                                                                                                           |
| <b>Applicable Ink</b>                              | Water ink / solvent ink / UV ink                                                                                                                                                                                       |
| <b>Cartridge Type</b>                              | 12.7mm or 25.4mm Ink cartridge                                                                                                                                                                                         |
| <b>Cartridge Change</b>                            | Printer head can change 12.7mm or 25.4mm cartridge                                                                                                                                                                     |
| <b>Max Printer Head</b>                            | 4P                                                                                                                                                                                                                     |
| <b>Max Printer Height</b>                          | 1P Printer head: Half inch max12.7mm                                                                                                                                                                                   |
|                                                    | 2P Printer head: Half inch max25mm                                                                                                                                                                                     |
|                                                    | 3P Printer head: Half inch max37mm                                                                                                                                                                                     |
|                                                    | 4P Printer head: Half inch max50mm                                                                                                                                                                                     |
| <b>DPI</b>                                         | Vertical:300dpi Horizontal: 600dpi/300dpi/200dpi                                                                                                                                                                       |

|                           |                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Printing Speed</b>     | 200*300dpi: Maximum printing speed 539m/min                                                                                                                                                                                                                                                                                                                                     |
|                           | 300*300dpi: Maximum printing speed 130m/min                                                                                                                                                                                                                                                                                                                                     |
|                           | 600*300dpi: Maximum printing speed 60m/min                                                                                                                                                                                                                                                                                                                                      |
| <b>Support Font Types</b> | (Based on customer needs to add)                                                                                                                                                                                                                                                                                                                                                |
| <b>Printing Content</b>   | Multilingual text / Date / Graphics / Bar code / GS1 code / Two-dimensional code / Counter / Shift / Variable data (code)                                                                                                                                                                                                                                                       |
| <b>Code Type</b>          | Code 39 Code128 UPCA EAN8 EAN13 Data Matrix EAN14 UPCE INT25 ITF14 Code 93 PDF417 'Aztec Code GS1-QRcode Grid Matrix Code11 Code39+ Code 16k Code 49 Flatter marken VIN NVE-18 MicroPDF417 Micro QR Code GS1 DataBar-14 GS1 Data Bar-Exp GS1 Data Bar- Ltd GS1-DataBar-Stack GS1-Data Bar-Stack-Omni GS1- Data Bar-Exp-Stack GS1-EAN128 GS1-DM (Based on customer needs to add) |
| <b>External Interface</b> | Ethernet *1 USB*4 D16-3*1 (power) D12-3*1 (Light eye) D12-4*1 (Encoder) D12-5*1 (Warning light) D12-6*1(Communication protocol) D18-22* 4 (printer head)                                                                                                                                                                                                                        |



**Packing Carton**



**Medicine**



**Furniture and wood**



**Food packaging**



**PET plastics**



**GS1 Data Matrix**



**Dynamic Security  
Barcode**



**Multi-group printing**



**HD bold font**

## Scara Robots

### Model SCARA 910SC

**PAYLOAD** 6 KG  
**REACHABILITY(MM)** 450/550/650

These applications require fast, repeatable and articulate point-to-point movements such as palletizing, depalletizing, machine loading/unloading and assembly.

### Technical Specifications

| Robot Version          | Reach (m)              | Payload (kg)*   |
|------------------------|------------------------|-----------------|
| IRB 910SC-3/0.45       | 0.45                   | Rated:3, Max: 6 |
| IRB 910SC-3/0.55       | 0.55                   | Rated:3, Max: 6 |
| IRB 910SC-3/0.65       | 0.65                   | Rated:3, Max: 6 |
| Number of axes         | 4                      |                 |
| Protection             | IP20                   |                 |
| Mounting               | Table                  |                 |
| Controller             | IRC5 Compact           |                 |
| Intergrated Signal     | 10 signal on wrist     |                 |
| Intergrated Air Supply | 4 air on wrist (5 bar) |                 |

\*Armload is included in the max payload.



## Parallel Robot

### Model IRB 360

**PAYLOAD** 1/3/6/8 KG  
**REACHABILITY(MM)** 1130/1600

### Technical Specifications

| Robot Version             | Handling Capacity              | Diameter | No. Axes |
|---------------------------|--------------------------------|----------|----------|
| IRB 360-1/1130*           | 1 kg                           | 1130 mm  | 3/4      |
| IRB 360-3/1130            | 3 kg                           | 1130 mm  | 3/4      |
| IRB 360-1/1600            | 1 kg                           | 1600 mm  | 4        |
| IRB 360-6/1600            | 6 kg                           | 1600 mm  | 4        |
| IR 360-8/1130             | 8 kg                           | 1130 mm  | 4        |
| Supplementary load        | on upper arm                   |          | 350 g    |
|                           | on lower arm                   |          | 350 g    |
| Intergrated Signal Supply | 12 poles 50V, 250mA            |          |          |
| Intergrated vacuum supply | Max. 7 bar/max vaccum 0.75 bar |          |          |

\*Tested by IPA, all axes



## Articulated Robot



**IRB 1200**

PAYLOAD: 5-7 kg  
REACH: 0.7, 0.9m



**IRB 1600**

PAYLOAD: 6-10 kg  
REACH: 1.2, 1.45m



**IRB 4400**

PAYLOAD: 60 kg  
REACH: 1.95m

## Collaborative Robot



### Key Features

- 500g rated payload
- Reachability 559mm
- Small footprint, 7-axis dexterity
- Very lightweight manipulator, 9.5 kg
- Mounting in any position
- Integrated Gripper with vision and vacuum
- Best-in-class safety design
- High speed and accuracy
- PL d Cat 3 Protective stop & emergency stop



## GLOBAL PRESENCE



✉ [info@xtechnocrat.com](mailto:info@xtechnocrat.com)

🌐 [www.xtechnocrat.com](http://www.xtechnocrat.com)

## XTECHNOCRAT INDIA PVT. LTD.

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