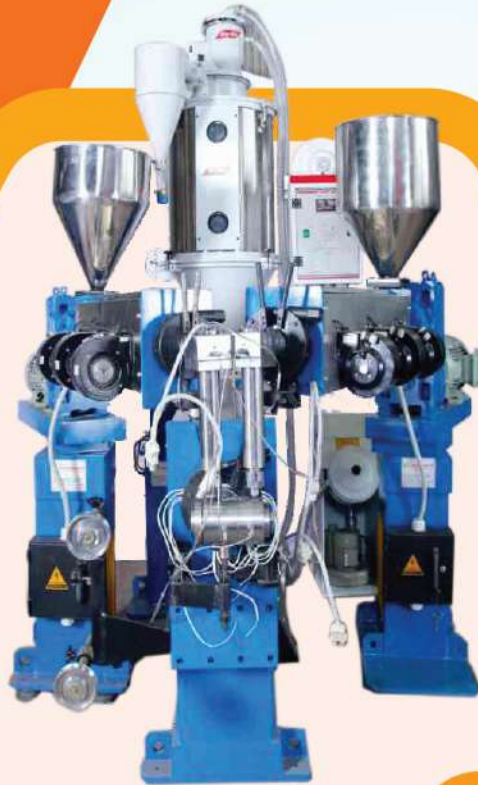




Customizing Your Extrusion Needs



EXTRUDER



SCREW & BARRELS



CROSS HEADS



SAI EXTRUMECH PVT. LTD.

CEO'S NOTE

For the past 25 years, we have proudly served the wire and cable industry with dignity, delivering high-quality products that reflect our commitment to excellence. Our journey has been driven by innovation, and our focus has always been on providing custom solutions tailored to meet the unique needs of our clients.

At the heart of our success is our incredible team, whom I consider my family. Each member plays a vital role in pushing boundaries and upholding the values we stand for. Together, we are not just building products but also trust and long-term partnerships.

As we look to the future, I am confident that our dedication, creativity, and unity will continue to lead us to greater achievements. Thank you for being a part of our journey.



MR. VIVEK MEHTA

MISSION



The goal is to provide customizable, value for money high-quality machinery solutions for the wire and cable industry, enhancing productivity and innovation while offering exceptional service and a commitment to continuous improvement for all customers.

VISION



To lead the global wire and cable industry with innovative, reliable, and affordable extrusion line, empowering businesses of all sizes to thrive and connect the world

CORE VALUES



We prioritize customer focus by tailoring solutions to meet each client's unique needs while ensuring exceptional quality and innovation. Our collaborative teamwork fosters an environment of transparency and integrity, leading to outstanding results.



COMPANY OVERVIEW

Sai Extrumech (P) Ltd.: A Global Leader in Extrusion Technology Since its inception in 1998, Sai Extrumech (P) Ltd. has emerged as a global leader in the manufacturing of extrusion lines. Our innovative solutions serve a diverse range of cable industries across India, catering to the needs of over 500 satisfied clients.



OUR EXPANSION



Sai Extrumech has expanded its operations all over India, establishing a solid presence as a leading manufacturer of extrusion lines and screws & barrels.

Sai Extrumech is committed to delivering high-quality, innovative solutions to the wire and cable industry.

This expansion reflects our dedication to enhancing productivity and efficiency, empowering businesses across the nation to thrive and connect the world.

7+
Countries' Trust

1000+
HAPPY CUSTOMERS

800+
UNITS SOLD

25+
YEARS OF EXPERTISE



EXTRUSION MACHINE

EXTRUDER

The SAI single screw extruder is a product of extensive research and development, solidifying SAI's dominance in the extrusion field.

Features

- High-torque Gear Box with space-saving design
- Helical gears made of high-quality forged steel, hardened and ground for high efficiency
- Space-saving Mobile Extruders for flexibility and versatility
- Can be used in conjunction with fixed horizontal extruders

Suitable applications include

- Insulating automotive wires
- Optical fiber buffering
- Skin insulation
- Striping and coloring



SPECIFICATIONS

Model	SAI 25mm	SAI 30mm	SAI 45mm	SAI 50mm	SAI 65mm	SAI 80mm	SAI 100mm	SAI 120mm	SAI 150mm	SAI 175mm
No. of Heating Zone	3	3	4	4	4	5	5	6	7	8
Total Heating Power (KW)	6	6	12	12	19	24	32	35	45	55
Type of Cooling Power (KW)	3*0.25	3*0.25	4*0.25	4*0.25	4*0.25	5*0.75	6*1.0	6*1.25	6*2.0	6*8.0
Type of Cooling Process	Air	Air	Air	Air	Air	Air	Air/Oil	Air/Oil	Air/Oil	Air/Oil
A/C Motor Electrical Power (KW)	5	7.5	15	30	30	60	75	110	200	235
Max. Screw Speed (RPM)	102	102	102	102	85	85	85	75	70	60
Max. Torque Of The Screw (daNm)	35	35	50	50	280	650	1100	1580	2600	3250
Indicative Output (In PVC kg/H)	14	20	75	100	150	280	400	600	900	1200
HDPE / PE	8	14	38	50	90	140	180	420	600	750

EXTRUSION LINE

We offer customized wire and cable extrusion systems for various industries, including communication, construction, automotive, high-temperature applications, optical fiber, and specialty wires. Our systems are designed to meet specific needs for different cable types.

Features include

- Clipper take-ups, payoffs, and spoolers
- Customized feed screws
- Microprocessor-based control systems
- Dual extrusion systems for various production types
- Mobile extruders for flexibility and space-saving
- 360-degree rotatable extruders with a fixed base
- Synchronized machines for easy control
- Optional PLC and non-PLC systems



Type	Extrusion Lines	Building Wire	Control Cable	Instrumentation Cable	Optical Fiber	LT Power Cable	HT Power Cable Sioplas
Single Layer	25 mm	✗	✗	✗	✗	✗	✗
	30 mm	✗	✗	✓	✗	✗	✗
	45 mm	✓	✓	✓	✓	✗	✗
	50 mm	✓	✓	✓	✓	✗	✗
	65 mm	✓	✓	✓	✓	✓	✗
	80 mm	✓	✓	✓	✓	✓	✗
	100 mm	✗	✓	✓	✓	✓	✗
	120 mm	✗	✓	✓	✓	✓	✗
	150 mm - 170 mm	✗	✗	✗	✗	✗	✗
Dual Layer	45 mm - 25 mm	✓	✗	✓	✗	✗	✗
	50 mm - 30 mm	✓	✗	✓	✗	✗	✗
	65 mm - 45 mm	✓	✓	✓	✓	✓	✗
	80 mm - 50 mm	✓	✓	✓	✓	✓	✗
	100 mm - 65 mm	✗	✓	✓	✓	✓	✗
	120 mm - 65 mm	✗	✓	✓	✓	✓	✗
Triple Layer	25 - 45 - 30 mm	✓	✗	✗	✗	✗	✗
	30 - 65 - 45 mm	✓	✗	✗	✗	✗	✗
	45 - 80 - 50 mm	✓	✗	✗	✗	✗	✗
Triple Layer (Sioplas)	65 - 120 - 80 mm	✗	✗	✗	✗	✗	✓
	80 - 150 - 100 mm	✗	✗	✗	✗	✗	✓

PIGGYBACK EXTRUDER

We manufacture high-quality piggyback extruders with advanced technology options, competitive pricing, best quality delivery, and a time warranty. The extruders have a space-saving mobile design for wire insulation and fiber optics, working alongside fixed horizontal extruders for versatile applications.

Features

- Mobility in all four directions (backward, forward, and both sideways)
- No impact on product quality
- Easy clearing, screw, and cross-head changing
- Management of thermal expansion of main extruders
- Grounded by foundation bolt for stability



CAPSTAN

Sai's Capstan is a versatile alternative to Haul-off Caterpillar for pulling small wires and cores efficiently at high speeds. It suits insulation lines and various cable applications, offering AC and DC motor options with a space-saving design for precise synchronization in complete lines.

Features

- Efficient and synchronized wire pulling
- Suitable for high-speed insulation lines
- Flexible for use in various cable applications
- Compatible with both AC and DC motors
- Space-saving design and construction
- Precise and synchronized working with complete lines



HAUL OFF CATERPILLAR

Sai's Caterpillars are metering/haul-off units with adjustable belts controlled by pneumatic cylinders for cable guidance. They have a multi-speed gearbox for adjustable speed and traction force, along with a control panel for safe operation.

Features

- Metering or haul-off functionality
- Independent roller sets for precise cable guidance
- Pneumatic cylinders for adjustable gripping pressure and belt tension
- Multi-speed gearbox for adjustable draw-off speed and traction force
- Control panel with pressure gauges and control module for safe operation



TAKE UP AND PAYOFF

Sai's Payoff & Take-up Stand is a precision traversing device for accurate cable winding. It has electrical control, a screw-driven carriage, and a timing device for reverse traverse. This ensures consistent and reliable winding at high speeds, suitable for various cable applications.

Features

- Precision traversing device
- Electrical control for uniform winding
- Adjustable traversing angle, pitch, and stroke
- AC drive motor with speed and torque mode options
- 3-speed gearbox for tension control
- No foundation required



NEW SCREW & BARRELS

Features

- High efficiency.
- Robust construction.
- Resistant to wear and tear.
- High-strength steel alloys
- Precise temperature control
- Modular design



By leveraging our cutting-edge designs, manufacturers can unlock significant productivity gains, reducing cycle times and achieving enhanced overall efficiency.

Additionally, our solutions facilitate precise control over the extrusion process, resulting in superior product quality, exceptional color uniformity, and reduced material waste.

This synergy of speed, consistency, and quality empowers businesses to stay ahead in competitive markets, drive innovation, and achieve sustainable growth.

REPAIRING SOLUTION FOR SCREW & BARRELS

Screw Rebuild/Repair

- Repair the internal thread
- Repair the shank (drive section)
- Repair the removable nose
- Rebuild the top of the flight with hard facing

Barrel Repair

- Re-sleeve the stroke section or full length of the barrel
- Honing of the stock area
- Grinding, Honing & Nitriding of old barrel with new size screw
- Pressure testing and acid flushing for rubber processing barrels
- Press-out broken screw from barrel



REPAIRING SOLUTION FOR SCREW & BARRELS

Screw barrel assembly parts include

Components like bimetallic screws, nozzles, and injection molding machinery parts for plastic machinery.

Screw assembly parts

Plastic machine parts, Distributor, Collar, Screw Cap & NRV Sets.



Screw Tips for Injection & Extruder Machine

- Depth of Nitrated Layer: 0.5-0.6mm
- Hardness of nitration: 66-68 HRC
- Fragility of nitration: Less than grade 1
- Surface roughness: Ra 0.4um
- Hardness of Cr-coating Layer: $\geq 950\text{Hv}$
- Thickness of Cr-coated Layer: 0.03-0.08mm
- Hardness of Bimetallic Layer: HRC55-72
- Depth of Bimetallic Layer: $>2\text{mm}$



Components of Barrel Assembly

- End Cap
- Flange
- Adaptor
- Cooling Ring
- Head Nozzle for Moulding Barrels

CROSSHEADS

Sai Extrumech manufactures a wide range of crossheads, including manual center, fixed center, and in-line heads. Our products are designed to meet various industrial requirements with reliability and precision

FIXED CENTER CROSS HEAD

FEATURES

- Guaranteed Concentricity of 0.01 mm (.0005")
- Minimum Setup & Changeover time
- Low bleed out of plastic
- Reduction in wire scrap
- Made from Best Quality Alloy Steel
- Custom designs available for specific requirements



APPLICATIONS

- Power Cables
- Telecom Cables
- Optical Fiber Cables
- Building/domestic Cable
- Instrument cable
- HT/EHV Cable

Compatible with any Extruder; custom flange design available.

SPECIFICATIONS

CROSS HEADS	Max Tip/Conductor Size	Max Die/Wire Size	Single Layer	Skin	Strip	Triple Layer
SAI 4/6	4mm/0.160	6mm/0.250	✓	✓	✓	✓
SAI 8/14	8mm/0.325	14mm/0.555	✓	✓	✓	
SAI 15/18	15mm/0.590	18mm/0.700	✓	✓	✓	
SAI 16/20	16mm/0.650	20mm/0.800	✓	✓	✓	✓
SAI 25/35	25mm/1.000	35mm/1.375	✓	✓	✓	
SAI 35/45	35mm/1.375	45mm/1.1775	✓	✓	✓	✓
SAI 50/70	50MM/2.363	70mm/3.125	✓	✓	✓	

MANUAL CENTER CROSS HEAD

FEATURES

- In-line melt flow for higher flow balance
- Minimal pressure fluctuation
- Better concentricity control



SPECIFICATIONS

Cross Heads	Max Tip/Conductor Size	Max Die/Wire Size	Skin	Strip
SAI 6/10	6mm/0.250	10mm/0.400	✓	✓
SAI 10/20	10mm/0.400	20mm/0.800	✓	✓
SAI 20/30	20mm/0.800	30mm/1.125	✓	✓
SAI 35/45	35mm/1.125	45mm/1.500	✓	✓
SAI 40/60	40mm/1.500	60mm/2.500	✓	✓
SAI 60/80	60mm/2.500	80mm/3.125	✓	✓
SAI 80/100	80mm/3.125	100mm/3.400	✓	✓
SAI 100/120	100mm/3.400	120mm/4.725	✓	✓
SAI 120/140	120mm/4.725	140mm/5.500	✓	✓

IN-LINE HEAD

FEATURES

- In-line melt flow for higher flow balance
- Minimal pressure fluctuation
- Better concentricity control



SPECIFICATIONS

In-line Cross Head	Max Tube Diameter	Skin	Strip
Sai-In-6	6mm/0.240	✓	✓
Sai-In-15	15mm/0.590	✓	✓
Sai-In-25	25mm/1.000	✓	✓

EXTRUSION TOOLING



SAI'S TIPS AND DIES

- Certified high-quality steel material
- Design for various cable applications
- Accuracy of 0.010mm
- Premium materials like hardened steel and tungsten carbide inserts
- Manufactured to meet international standards and replace low-quality tooling.

Type Of Cables	Products
Building / Domestic Cable	Wire guide, Extrusion Dies
Instrument Cable	All Type of Extrusion Tooling
Optical Fibber Cable	Simplex , Duplex /FTTP tooling
Power Cable	Fixed & manual Centre extrusion tip & dies
HT Cable	Nozzle, mediator, final die
EHV Cable	Nozzle, mediator, final die
Medical Tubing	All Type of Extrusion Tooling
Pipe	All Type of Extrusion Tooling



BREAKER PLATES

SAI's Breaker Plates offer precise cable application design, 0.010mm accuracy, high-quality steel, hardened steel, and tungsten carbide inserts meeting international standards to replace inferior tooling.

FEATURES

- Increase output
- Prevent compound leakage
- Remove dead spots
- Customizable design
- High-quality material



SPARE PARTS & ACCESSORIES

SAI produces premium replacement parts for Crossheads from top manufacturers like Erocab, Eurotek, Maillefer, Microdia, and Unitek. They also offer various accessories for the extrusion industry.

REPLACEMENT PARTS

- Main body
- Cartridges/Distributors
- Skin tools
- Marking Tools
- Nut and other parts



ACCESSORIES

- Mounting flanges
- Clamps
- Bypass/bleed port system
- Jelly injection guns
- Split Dies
- Shaping Rollers

SINGLE LAB EXTRUDER

Application

- Material melting, plasticizing and extruding
- Extrusion process parameters optimization
- Completing film casting, 3D Printer Filament, sheet and pipe/tube forming with corresponding dies and downstream equipment



The lab extruder serves as a potent instrument for material innovation, providing meticulous oversight of the extrusion process. Spanning from melting and plasticizing to shaping intricate products, it stands as a vital resource for both researchers and manufacturers.

SPECIFICATIONS

Model	SAHLEX-20	SAHLEX-25	SAHLEX-30	SAHLEX-35
Screw Diameter (mm)	20	25	30	35
Ld Ratio	28	28	30	30
Motor Power (kW)	3	4	5.5	7.5
Rotating Speed (rpm)	120	120	120	120
Max Temp(°C)	350	350	350	350
Temp Control Accuracy (°C)	± 1	± 1	± 1	± 1
Pressure Measuring Range (MP _a)	0~35	0~35	0~35	0~35
Output (kg/H)	0.5~3	0.5~5	0.5~7	0.5~10
Weight (kg)	296	325	348	370
Dimension (mm)	1120x1115x1660	1260x1115x1660	1460x1115x1660	1610x1215x1660

SAI SHEET EXTRUSION EQUIPMENT

Product Performance

- World brand variable speed control motor to precisely control the screw speed.
- Calender rolls and rolls independently driven by the brand traction motor.
- Calender roll and pinch roll, were plated by hard chrome and polished mirror.

Application

- Preparation of sheets of various materials
- Material formulation development
- Calendering high viscosity materials



SPECIFICATIONS

Model	SAI-LSE-20	SAI-LSE-25	SAI-LSE-30
Screw Diameter (mm)	20	25	30
LD Ratio	28	28	30
Motor Power(Kw)	3	4	5.5
Rotating Speed (rpm)	120	120	120
Max Temp(°C)	350	350	350
Temp Control Accuracy(°C)	± 1	± 1	± 1
Pressure Measuring Range (MP _o)	0~35	0~35	0~35
Die Width (mm)	100	100	100
Traction Speed(m/min)	0.5~8	0.5~8	0.5~8
Calender Rolls Speed (m/min)	0.5~8	0.5~8	0.5~8
Output (kg/H)	0.5~3	0.5~5	0.5~7
Weight (kg)	680	720	880
Dimension (mm)	2880x1120x1660	2850x1120x1660	3250x1120x1660

SAI LAB CAST FILM EXTRUSION EQUIPMENT

Application

- Testing and evaluation of the casting properties of polymer materials
- Detection and evaluation of fish eye, crystal point and other defects
- New material formula development
- Optimization of production technology
- Production quality control



Product Performance

Adjusting clearance between casting roller and casting Mould head by lifting mechanism

SPECIFICATIONS

Model	SAI-CF-20	SAI-CF-25	SAI-CF-30
Screw Diameter (mm)	20	25	25
Ld Ratio	28	28	28
Motor Power(Kw)	3	4	5.5
Rotating Speed (rpm)	120	120	120
Max Temp(°C)	350	350	350
Temp Control Accuracy(°C)	± 1	± 1	± 1
Pressure Measuring Range (MP _o)	0~35	0~35	0~35
Casting Roller Speed (m/min)	0.5~8	0.5~8	0.5~8
Traction Speed(m/min)	0.5~8	0.5~8	0.5~8
Output (kg/H)	0.5~3	0.5~5	0.5~5
Weight (kg)	801	850	930
Dimension (mm)	3059x1115x1660	3199x1115x1660	3259x1115x1660

SAI BLOWN CAST FILM EXTRUSION EQUIPMENT

Application

- PE, modified PP, modified PET, and other plastic materials which could be blown
- New material formula development
- Film blowing property test.
- Master batch color dispersion test
- Optimization of blown film production technology
- Production of simple layer tubular film blowing



Product Performance

Traction rollers coated with hard chrome, mirror polished and are independently driven by international branded motors

SPECIFICATIONS

Model	SAI-BFEX-20	SAI-BFEX-25	SAI-BFEX-30
Screw Diameter (mm)	20	25	20
Ld Ratio	28	28	28
Motor Power(Kw)	3	4	5.5
Rotating Speed (rpm)	120	120	120
Heating/cooling method	Electrical heating/ Air cooling	Electrical heating/ Air cooling	Electrical heating/Air cooling
Max Temp(°C)	350	350	350
Temp Control Accuracy(°C)	± 1	± 1	± 1
Pressure Measuring Range (MP _o)	0~35	0~35	0~35
Casting Roller Speed (m/min)	0.5~8	0.5~8	0.5~8
Traction Speed(m/min)	0~10 Step less Adjustment	0~10 Step less Adjustment	0~10 Step less Adjustment
Max width of film entrance	160mm	200mm	200mm
Output (kg/H)	0.5~3	0.5~5	0.5~5
Weight (kg)	503	550	630
Dimension (mm)	2980x944x2630	2980x944x2630	2980x944x2630

SAI 3D PRINTER FILAMENT EXTRUSION EQUIPMENT

Product Performance

- Specially manufactured screw and barrel to guarantee precision and quality.
- International brand variable speed control motor to precisely control the screw rotating speed.
- Adopting Siemens PLC control system and friendly operation interface to easily operate.

Application

- 3D printing supplies production
- The production of medical pipe material
- PLA/ABS/TPU/PA/PC/PEEK



SPECIFICATIONS

Model	SAI-3DPFE-20	SAI-3DPFE-25	SAI-3DPFE-25A
Screw Diameter (mm)	20	25	25
LD Ratio	28	28	28
Motor Power (kW)	3	4	4
Output (kg/hr)	0.5-3	0.3-5	0.3-5
Max Temp (°C)	350	350	450
Temp Control Accuracy (°C)	± 1	± 1	± 1
Production Diameter (mm)	DNI 75~3 (±0.05)	DNI 75~3 (±0.05)	DNI 75~3 (±0.05)
Total Power (kW)	14	15	17
Weight (kg)	1250	1280	1280
Dimension (mm)	8300x1500x2300	8500x1500x2300	8500x1500x2300



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Customizing Your Extrusion Needs



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WIRE & CABLE PRODUCTS MADE FORM OUR MACHINE



BUILDING WIRES



MV POWER CABLES



COAXIAL CABLES



POWER CABLE



POWER CABLE



FLEXIBLE CABLES



FIBER OPTIC CABLE



MAIN FEEDER WIRE



LSHF CONTROL CABLES



FIRE RESISTANT LV POWER CABLES



EARTHING CABLE



FIBER OPTIC CABLES



TRIPLEX WIRES



TWISTED PAIR CABLES



NON-METALLIC SHEATHED WIRES



Customizing Your Extrusion Needs

MACHINE UNIT	SCREW & BARREL UNIT	CROSSHEAD UNIT
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