



Powder Paint Equipment
spareparts.it@ipco.com
www.ipco.com

EXTRUDER LINES

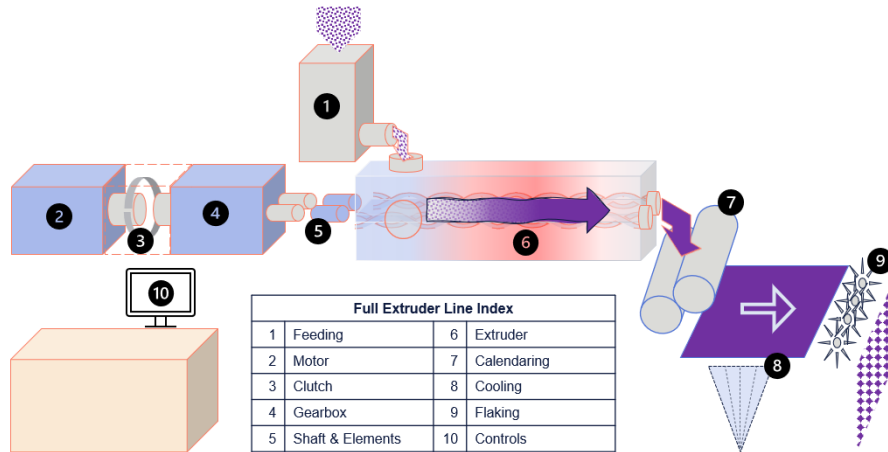
SPARES, ADD-ONS & COMPONENTS CATALOGUE

Introduction

This catalogue or list of spares is intended to assist readers in identifying and selecting typical components, spares and add-ons often needed in maintaining lines of extruders and coolers. It is by no means exhaustive and, if the item you are looking for does not appear, please communicate with us with as much information as possible and we will work on attending to your needs.

In order to assist you, if possible, please share helpful pictures and, the following:

- Your name, position, company and location,
- Any sharable contact information,
- Your best name and description on the item or issue,
- Where on the equipment it is located (a sketch can help),



- What issue you have with the item,
- What you expect us to do,
- Item details (if available and possible),
 - Item name
 - Part number
 - Copies of drawings and/or pictures of name plates
 - Brand, model number and age of the equipment

Once resolved, discuss with us preventative maintenance agreements, productivity improvements, screw configurations and/or new equipment plans. Whatever your need is and wherever you are, our global organisation would be glad to support you.

Contact us at [Powder coating - IPCO.](#)

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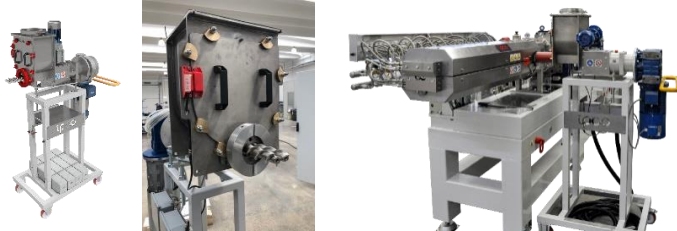



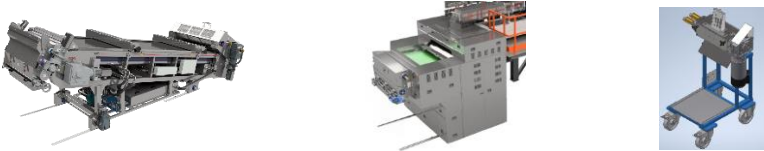
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Extruder Components	Description	Features	Type	PCX	SCX	Upkeep	Detail	Stocked	Sourced	Images
Feeder 1	IPCO's selected volumetric feeders known for user friendliness.	1 or 2 Screw	Volumetric	Single Screw	Single Screw	Cleanable	Flexwall	OEM of IPCO	Other Brands	
Motor 2	IPCO's selected brands, known for their reliability, power and ergonomics.	>4.5 kW <300	AC	Water Cooled	Air Cooled	Minimal	IP54	OEM of IPCO	Other Brands	
Torque Limitation 3	IPCO's tested and approved systems that meet strict safety and operational requirements.	Torque optimized	Mechanical or Air	Clutch & Inverter	Inverter	Minimal	Re-engaging	OEM of IPCO	Other Brands	
Gearbox 4	The selected brands have reliable torque transferability, mechanical outputs and self-correcting features.	Motor matched	1:2 Co-rotating	Class leading	IPCO	Scheduled	Quiet, Compact	OEM & IPCO	Other Brands	
Shaft Cooling 5	Developed by IPCO, has self-lubricating solution; it adds temperature control for high volume throughputs, is retrofittable on compatible equipment.	Chilled H2O	Closed loop	PCX45 – PCX65	Not required	Annually	Self-Lubricating	IPCO	Bespoke Spec	
Spare Shafts with Elements 6	IPCO recommends each client to have sets of screws for spare or for changing products and finishes. Consult us on screw configuration.	Quick Coupling	User Config.	PM & K110	K110	Cleanable	Seamless	IPCO	Other Brands	
Full Barrel Upgrade 6	IPCO's class leading PCX clamshell design is modular and is a more modern take on traditional OMC, SBS, and CA Picard extruders. Bespoke builds also available.	Up to 48 L/D	Clamshell	29 and 25 L/D	25 L/D	Scheduled	Ringed Cooling	IPCO	Other Brands	

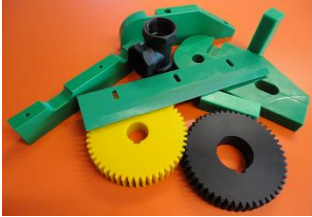


Extruder Spares	Description	Sizes	Materials	Stocked	Images
Feeder Spares 1	IPCO supports its OEM feeders with respective screws and liners. Additional customized feeding channels for 'fines' can be created.	As per feeder	Stainless or Rubber	IPCO & OEM	
Gearbox Internal Spares 4	IPCO has the capacity to service, overhaul twinscrew co-rotating gearboxes as well as supply relative spares.	On request	As needed	IPCO & OEM	
Gearbox External Spares 4	Gearbox Oil Flow Switch is an example of available gearbox spares clients may need.	As needed	As needed	OEM of IPCO	
Shaft Couplings 5	IPCO has the design and machining capacity to replace shaft-gearbox couplings.	On request	As needed	IPCO	
Cooling Injection Shaft 5	IPCO can support a multitude of designs, including upgrading shaft cooling systems to the latest version, if compatible.	> \varnothing 45mm	Various	IPCO	
Machined Shafts 6	High strength splined or shaped shafts machined to clients' extruder based on torque and profile.	>8 \varnothing <60 mm	High Torque	IPCO	
Screw Elements 6	These need to be affordable, of good quality, easy to fit, and seamless. IPCO also supports alternative brands.	>18 \varnothing <125mm	PM & K110	IPCO	



Extruder Spares	Description	Sizes	Materials	Stocked	Images
Screw Element Options 6	There are multiple flights and shapes to consider. Consult with us for your configuration.	Wide range	PM & K100	IPCO	
IPCO Liners 6	Interchangeable, allows for special feeding, high wear resistant.	4 L/D for any ϕ	PM & K100	IPCO	
Alternative Liners 6	IPCO can support clamshell and close barrel designs.	Wide range	PM & K100	As needed	
Heating Elements 6	Temperature control is paramount. IPCO can meet needs for heating element requirements.	Most	As required	OEM of IPCO	
Electro/Solenoid Valves 6	Based on heating element feedback and temperature settings, the triggered valves open and close accordingly.	Most	As required	OEM of IPCO	
Non-return Valves 6	These are steam proof one-way valves for the cooling system of the extruder.	As required	As needed	OEM of IPCO	
General Spares 1 - 6	IPCO's vast history in the extruder spares game allows us to be in the fortunate position to support.	On request	As needed	IPCO & OEM	

Extruder Add-ons	Description	Options	Images
Gravimetric Feeders 1	IPCO's new gravimetric stainless-steel solution allows for automated feeding or controlled purging, freeing up operators for more valuable tasks.	1 or 2 Screws	
Side Feeders 1	IPCO wheel mounted Twinscrew Side Feeders are sized to suit the extruder and include temperature management solutions.	Reservoir	
Liner Gauges 6	This is an IPCO designed liner wear indicator. Made to order for IPCO and alternative liners in the market for clients to monitor liner wear.	Most sizes	
Heat Exchangers 6	IPCO's selected Heat Exchangers contribute to the extruder closed loop cooling system. Recommended to include with all chilled water systems.	18.000 - 75.000 Kcal/h	
Platforms 1 - 6	IPCO Engineering department is equipped to design extruder platforms on request.	Ad hoc	
Mixing and Micronizing Network	Although Mixing and Micronizing is outside of our typical scope, we remain connected to multiple disciplines in our industry and can link to select options in the market, as well as work with them in projects. We can support on selected items, if required.		
Coolers 7 - 9	IPCO has decades of experience in material belt cooling.	As needed	

Cooler Components	Description	Features	Type	PCCB	PCCR	Upkeep	Details	Stocked	Sourced	Images
Material Receiver 7	As per regulations, the melted material is safety guided to the calendering. IPCO includes an easy slide melt trough for cleaner operations.	Melt Trough	Slide	Yes	Yes	Subject to use	Stops if opened	IPCO	Not needed	
Cooling Calender 7	Two polished openable water-cooled steel rollers, receive the melted material then cool and convert the material into a laminate to a desired thickness.	Passes Solids	Pneumatic	Yes	Yes	Subject to use	Adjustable	IPCO	Not needed	
Press Rollers 8	Two covered heavy rollers are fitted to steel belt coolers to assist with cooling and smoothing of calendered material.	1 st is cooled	Gravity	Yes	-	Subject to use	Safe design	IPCO	Not needed	
Steel Belt 8	IPCO's dedicated powder coating belt material 1200SA PP is an ideal mix of quality and cost efficiency.	Extreme life	Stainless Steel	Yes	-	Seldom	Patch repairable	IPCO	Not needed	
Chill Roll 8	IPCO's range of compact coolers have special internal cooling pathways for water and cooling efficiency.	Intensive cooling	Hard Chromed	-	Yes	Seldom	Numerous Sizes	IPCO	On request	
Filtered Water Reservoir 8	Reservoirs of filtered water are raised and fixed to the frame, to ensure that clean and chilled water is sprayed onto the steel belt.	Large filters	Stainless Steel	Yes	-	As recommended	Large bore tubing	OEM of IPCO	As needed	
Flaker Pined Roller 9	IPCO's flaking solutions are designed to offer optimal flaking needs. Consist of chamber, pre-breaker, pin roller and protected discharge.	Low friction	Low maintenance	Yes	Yes	On need	Sealed, cleanable	IPCO	As required	

Cooler Spares	Description	Size	Material	Stocked	Images
Rotary Flow Joints 7	All water-cooled rollers are unhindered by reliable high wear joints with tungsten mating surfaces.	As needed	Copper	IPCO	
Pulleys, Shafts & Guides 8	Critical to steel belt operation are the pulley and alignment rubber guides. IPCO's solutions are without compromise.	As needed	Various	IPCO	
Steel Belt Replacement 8	Market leading materials with expert in-house gloss support technicians.	<25mt	Stainless Steel	IPCO	
Scraper Blades 8	Positioned and shaped to effectively clean belts of stubborn materials.	As needed	Stainless Steel	IPCO	
Spray Nozzles 8	Free flow well positioned nozzles ensure even distribution of cooling eliminating hot spots.	Standardized	Polymer	OEM of IPCO	
Water filters 8	Decades of experience has led to optimal cooling with large diameter pipes for clean, filtered and chilled water.	As needed	Various	OEM of IPCO	
Multi-polymeric Composite Belt 8	IPCO's composite multipolymeric belt is durable, flexible as well as chemical and moisture resilient.	As required	TPU & PET	IPCO	

Cooler Spares	Description	Size	Material	Stocked	Images
Plastic Cooler Parts 9	The cooler is fitted with durable plastic parts.	Various	Polymer	IPCO	
Flake Breaker Blades 9	The flake breaker blade aligns with the pinned roller to create the ideal flakes.	As needed	Stainless Steel	IPCO	
Pinned Rollers 9	Following the pre-breaker, the most suitable low speed high torque pinned roller is used to create the ideal sized flakes.	As needed	Hard chromed	IPCO	

Controls	Description	Features	Details	Stocked	Images
Cabinet Components 10	All electrical components required for extruding cooling can be made available.	EEC compliant	≥IP54 protection	IPCO	
HMI 10	IPCO's easy to navigate HMIs are industry 4.0 ready and are available with various solutions for mounting.	Touchscreen	≥IP54 protection	IPCO	
Software 10	IPCO has the capacity to resolve selected programing issues on request.				

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