LINUS PROJECTS
THE ULTIMATE SOLUTION

LINUS PROJECTS (INDIA)

Leaders in Turnkey Project Management



















INDIA'S Best Blow Molding – Injection Molding machine with state of art technology truly turnkey project setup of plastic machinery with advanced auxiliary equipment .

www.linusplastics.com



ABOUT LINUS PROJECTS (INDIA)

Built in Ambernath. Running in 26+ countries.

LINUS PROJECTS (INDIA) is an ISO 9001:2015 certified turnkey project company, headquartered in Mumbai and established in 2014. We design, manufacture and commission plastics processing machinery (extrusion blow moulding, PET stretch blow moulding and injection moulding) together with the moulds, auxiliaries and utilities a plant needs to run from day one.

Our customers are bottle and container makers, lubricant and edible-oil packers, chemical and agro companies, and first-time entrepreneurs setting up a plastics unit. Many of them have no engineering team of their own, and that is exactly where we fit: one supplier and one point of responsibility, from factory layout to the first saleable container.

The same group builds lube oil blending, grease and filling plants, so the people who size your blow moulding line understand the containers it will fill and the packing hall it will feed.

Two units at Additional Ambernath MIDC, a 500 sq m registered office and a 2,100 sq m manufacturing unit, handle fabrication, assembly, trial runs and pre-dispatch inspection. A permanent office in Lagos, Nigeria and a sales representative in the UAE keep us close to the markets where most of our machines work.

Every machine leaves with O&M manuals, electrical drawings, SOPs and a recommended spares list, and our engineers stay reachable long after commissioning: across time zones, on the phone, on video and in the customer WhatsApp group.

KEY FACTS

2014
YEAR ESTABLISHED, MUMBAI

ISO 9001:2015
CERTIFIED QUALITY SYSTEM · CE

2,600 sq m
TWO UNITS, ADDITIONAL AMBERNATH MIDC

240+
PLANTS & MACHINES SUPPLIED

48+
CUSTOMERS IN 26+ COUNTRIES

Machines are easy to sell. Working plants are what we deliver.

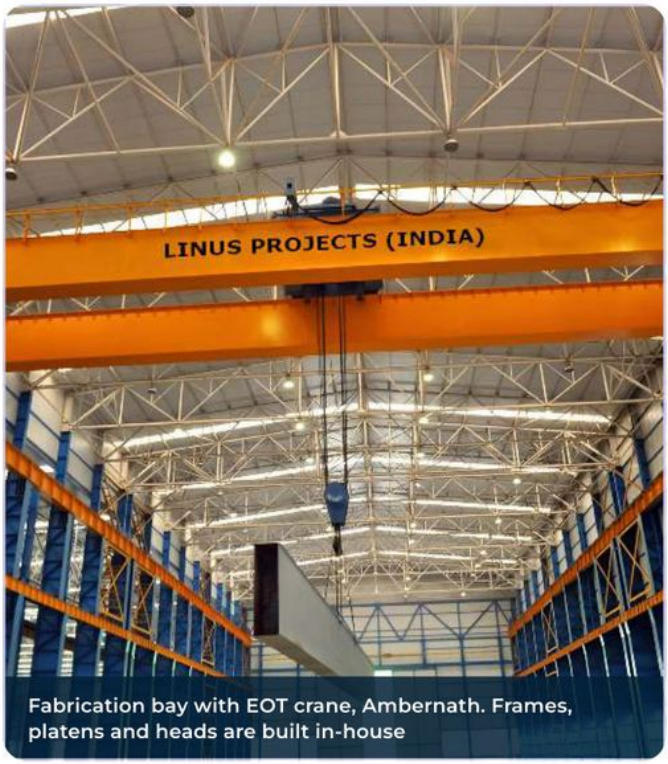
What drives us

VISION

To be the Indian machinery maker that customers in Africa, the Middle East and Asia trust first: machines delivered on budget and on time, and supported for the life of the plant.

MISSION

- Give every customer a complete, working plant, not just a machine in a crate.
- Keep improving our designs, processes and service response, year after year.
- Price fairly, so that a well-engineered machine is within reach of growing businesses.
- Build long relationships: most of our new orders come from existing customers and their referrals.



Fabrication bay with EOT crane, Ambernath. Frames, platens and heads are built in-house

WHY CUSTOMERS CHOOSE LINUS

01 Truly turnkey
Layout, machines, moulds, utilities, installation and training from one supplier. One contract, one responsibility.

02 Sized for your product
Extruder, head and clamp are selected for your container, cycle time and power supply, not picked off a shelf.

03 Current technology
Servo-driven hydraulics, PLC/HMI parison programming, in-mould labelling, view-strip and automatic deflashing across the range.

04 Documentation engineers can use
O&M manuals, SOPs, electrical drawings, hydraulic circuits and spares lists with every machine.

05 Support that keeps up
Engineers reachable 24×7 across time zones, plus a customer WhatsApp group where operators share solutions with each other.

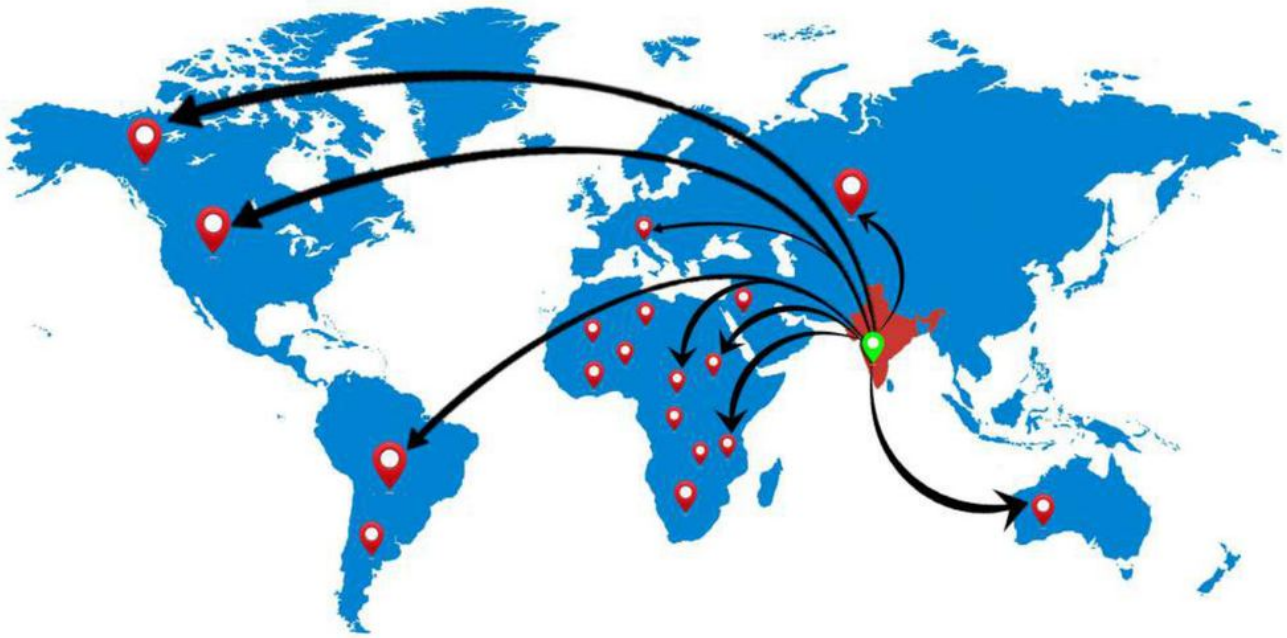
06 Honest pricing
Competitive, transparent quotations. The scope is written down, so there are no surprises at site.

HOW A LINUS PROJECT RUNS · THE SAME SEVEN STEPS, WHETHER IT IS ONE MACHINE OR A COMPLETE FACTORY

01	02	03	04	05	06	07
Enquiry & feasibility	Plant layout & utilities	Machine & mould manufacturing	Trial run at our works	Shipping & site installation	Commissioning & training	Spares & after-sales

Exporting since our first year.

Global footprint



OUR EXPORT AROUND THE GLOBE · LINUS INSTALLATIONS AND EXPORT DESTINATIONS

HEAD OFFICE & WORKS: MUMBAI, INDIA

26+
COUNTRIES WITH LINUS MACHINES

240+
PLANTS & MACHINES SUPPLIED

48+
CUSTOMERS WORLDWIDE

3 bases
MUMBAI · LAGOS · UAE

Our first export orders came from West Africa, where entrepreneurs needed reliable, affordable machines and a supplier willing to travel. Nigeria is still our largest market and we keep a permanent office in Lagos. From there the footprint grew east and north: Kenya, Algeria and South Africa; Saudi Arabia, the UAE, Oman and Iraq; Nepal and South-East Asia.

Exhibitions are where many of these relationships begin: you will find us at OTL Africa Downstream in Lagos, Lubricant Expo Europe and ALE in Kuala Lumpur. Between shows, the LINUS customer WhatsApp group keeps operators in different countries talking to each other, and to our engineers, every day.



At our stand, OTL Africa Downstream, Lagos



LINUS exhibition stand

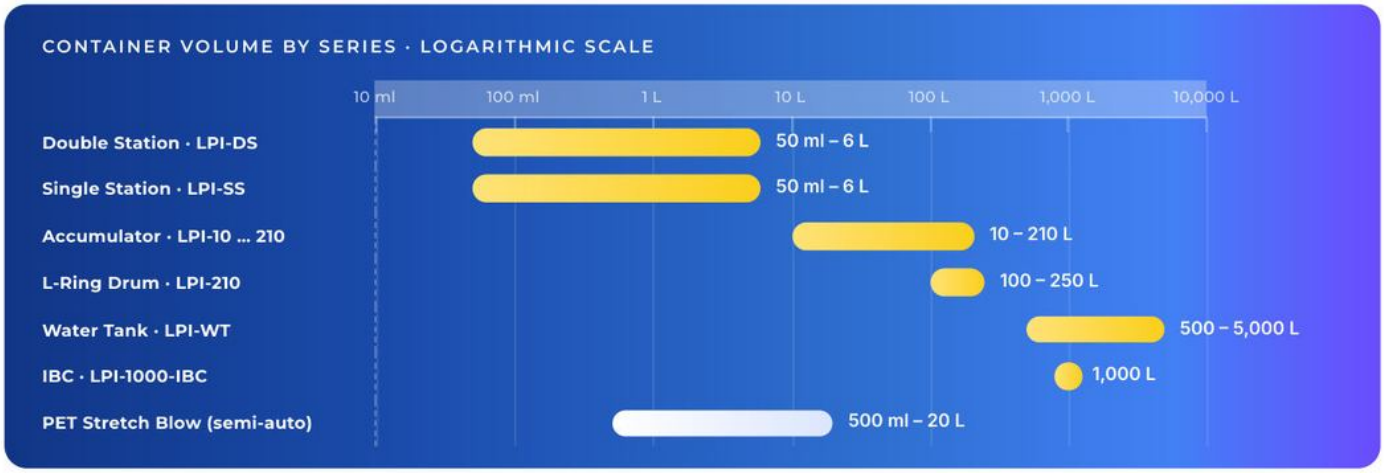


Hand-over day: our team with a customer's new blow moulding line

One supplier, from 50 ml bottles to 5,000-litre tanks.

Range at a glance

Eight product families cover almost every hollow or moulded plastic article a packaging, chemical or consumer-goods plant needs. The bars below show the working container range of each series. The largest model in a series does not make the smallest container, and vice versa, so pick the model for the product you actually run.



01	**Double Station**	LPI-200-DS … LPI-5000-DS	**50 ml – 6 L**	Lubricant, cosmetic, pharma & edible-oil bottles	p. 6
02	**Single Station**	LPI-200-SS … LPI-5000-SS	**50 ml – 6 L**	Same containers, compact single-mould frame	p. 8
03	**Accumulator Head**	LPI-10 … LPI-210-OT	**10 – 210 L**	Jerrycans, carboys, open-top drums	p. 10
04	**L-Ring Drum**	LPI-210-L · 210M-L · 210M-3L	**100 – 250 L**	L-ring drums, single & three layer	p. 12
05	**Water Tank**	WT-500 … WT-5000	**500 – 5,000 L**	Multi-layer storage tanks with view strip	p. 14
06	**IBC**	LPI-1000-IBC	**1,000 L**	ISO intermediate bulk container bottles	p. 16
07	**PET Stretch Blow**	Semi-automatic	**500 ml – 20 L**	Water, juice, edible-oil and 5-gallon jars	p. 18
08	**Injection Moulding**	90 – 1,500 t clamp	**Caps to crates**	Closures, pails, crates, household & auto parts	p. 19

INDUSTRIES WE SUPPLY



01 Double Station Series

Continuous parison · two moulds, one extruder · fully automatic



CONTAINER RANGE

50 ml to 6 L

IN FIVE MODELS

Our highest-output small-container machines, for bottles and jerrycans from 50 ml to 6 litres. Five models, each sized to a container band, so read this series by the bottle you want to make.

APPLICATIONS

LUBRICANTS · COSMETICS · EDIBLE OIL · PHARMA · HOUSEHOLD · AGRO-CHEMICALS · FMCG · TOYS

OPTIONS & ATTACHMENTS

- Multi-cavity heads (2, 3, 4 and 6 cavity)
- In-mould labelling (IML)
- Automatic deflashing & leak testing
- View strip / multi-colour / multi-layer heads
- Bottle conveyor, cooling and handle insertion
- Hopper loader, mixer and grinder package

WHY THIS SERIES

- The continuous parison head feeds two alternating stations: one mould blows while the other opens, so a single extruder gives nearly double the output of a single-station machine.
- **Model by container, not by series:** the 1 L machine (LPI-1000-DS) runs 250 ml to 1 L bottles; the 5 L machine (LPI-5000-DS) runs 2 to 6 L. Moving outside these bands means a different model.
- Hydraulic clamp with proportional valves for soft mould closing and fast dry cycles; T-slotted platens for quick mould change.
- Compact footprint: the 1 L machine with its panel fits in roughly 8.5 × 7 ft.
- Runs HDPE, LDPE and PP, including blends with regrind from your own scrap granulator.



COSMETICS & HOME CARE



LUBRICANT BOTTLES & JERRYCANS

Technical data sheet · LPI-DS

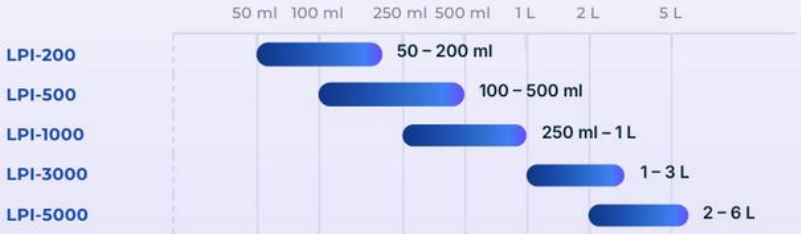
Double Station Series

LINUS PROJECTS
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Parameter	Unit	LPI-200-DS 200 ml class	LPI-500-DS 500 ml class	LPI-1000-DS 1 L class	LPI-3000-DS 3 L class	LPI-5000-DS 5 L class
CONTAINER & OUTPUT						
Container volume, min – max	ml / L	**50 – 200 ml**	**100 – 500 ml**	**250 ml – 1 L**	**1 – 3 L**	**2 – 6 L**
Production rate, approx.	pcs/hr	650 – 720 @ 15 g	500 – 600 @ 30 g	400 – 420 @ 60 g	270 – 300 @ 120 g	260 – 270 @ 220 g
Number of stations / moulds	nos	2	2	2	2	2
EXTRUDER						
Screw diameter	mm	40	50	55	65	90
L / D ratio	–	22	22	22	22	22
Plasticising capacity, HDPE	kg/hr	12 – 15	20 – 25	30 – 35	45 – 50	90 – 100
Extruder motor, VFD driven	HP	5	10	10	15	30
Barrel heating load	kW	4.2	4.2	8	10.5	20
Maximum screw speed	rpm	50	50	50	50	50
CONTINUOUS PARISON HEAD						
Head heating load	kW	2.0	2.0	4.5	5.8	8.4
Parison control cylinder	in	3	3	3	3	5
Die core size, min / max	mm	5 / 30	10 / 50	20 / 90	20 / 110	60 / 160
Double-head centre distance (option)	mm	70	70	100	125	160
MOULD CLAMPING UNIT						
Maximum platen opening	mm	250	300	355	460	510
Minimum platen opening	mm	150	150	150	155	155
Maximum mould size, W × H	mm	125 × 175	150 × 250	220 × 320	300 × 350	350 × 450
Clamping force	t	1	2	2	5	8
HYDRAULIC SYSTEM						
Hydraulic drive motor	HP	5	5	7.5	10	15
Oil tank capacity	L	150	250	250	275	400
POWER & INSTALLATION						
Total connected load	HP / kW	18 / 13	23 / 17	35 / 26	47 / 35	83 / 62
Machine dimensions, L × W × H	ft	7.7 × 5.5 × 6.5	8 × 6.5 × 6.8	8.4 × 7 × 8.2	11 × 8.6 × 8	11.7 × 9.4 × 8.7
Machine weight, approx.	t	2.1	3	3.5	4.5	6.5
Delivery period, ex-works	weeks	6	6	7	7	7

Data for guidance at the time of printing; ratings depend on material grade, container design and site conditions and are confirmed in our techno-commercial offer. Built to order: alternative screw sizes, heads and clamp strokes are available. **Control & electrics:** standard LINUS PLC/HMI platform on every model, see page 21.

WHICH MODEL MAKES WHICH BOTTLE · CONTAINER VOLUME PER MACHINE, LOG SCALE





PLC / HMI PANEL

02 Single Station Series

Continuous parison · single mould · fully automatic



CONTAINER RANGE

50 ml to 6 L

IN FIVE MODELS

Where output needs are moderate and floor space is tight. Five models from 50 ml to 6 litres, proven in hundreds of small and medium packaging units.

APPLICATIONS

LUBRICANTS · COSMETICS · EDIBLE OIL · PHARMA · TOYS · FMCG · AGRICULTURE · HOUSEHOLD · PESTICIDES · IRRIGATION

OPTIONS & ATTACHMENTS

- Multi-cavity heads (2, 3, 4 and 6 cavity)
- In-mould labelling (IML)
- Automatic deflashing & leak testing
- View strip / multi-colour / multi-layer heads
- Bottle conveyor, cooling and handle insertion
- Hopper loader, mixer and grinder package

WHY THIS SERIES

- The sensible first machine for a new unit: the same extruder, parison head and control platform as the double-station series, in a compact single-mould frame.
- **Same container logic:** LPI-1000-SS covers 250 ml to 1 L; LPI-5000-SS covers 2 to 6 L. Choose the model by the bottle, then add cavities for output.
- Lower connected load (the 1 L machine runs on 29 HP total) and the lightest machines in the range, from 1.5 t.
- Multi-cavity heads lift output without a second station; two-cavity heads are a standard option on every model.
- Supports environmentally friendly hydraulic oils and energy-saving ceramic band heaters.



LUBRICANT BOTTLES & JERRYCANS



CHEMICAL & AGRO PACKS

Technical data sheet · LPI-SS

Single Station Series

LINUS PROJECTS
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Parameter	Unit	LPI-200-SS 200 ml class	LPI-500-SS 500 ml class	LPI-1000-SS 1 L class	LPI-3000-SS 3 L class	LPI-5000-SS 5 L class
CONTAINER & OUTPUT						
Container volume, min – max	ml / L	**50 – 200 ml**	**100 – 500 ml**	**250 ml – 1 L**	**1 – 3 L**	**2 – 6 L**
Production rate, approx.	pcs/hr	330 – 360 @ 15 g	250 – 300 @ 30 g	220 – 240 @ 60 g	160 – 180 @ 120 g	130 – 135 @ 220 g
Number of stations / moulds	nos	1	1	1	1	1
EXTRUDER						
Screw diameter	mm	35	40	45	50	65
L / D ratio	–	22	22	22	22	22
Plasticising capacity, HDPE	kg/hr	8 – 10	12 – 15	16 – 20	25 – 28	45 – 50
Extruder motor, VFD driven	HP	3	5	7.5	10	15
Barrel heating load	kW	3.0	4.2	5.6	8	10.5
Maximum screw speed	rpm	50	50	50	50	50
CONTINUOUS PARISON HEAD						
Head heating load	kW	2.0	2.0	4.5	5.8	8.4
Parison control cylinder	in	3	3	3	3	5
Die core size, min / max	mm	5 / 30	5 / 40	20 / 80	20 / 110	60 / 160
Double-head centre distance (option)	mm	70	70	100	125	160
MOULD CLAMPING UNIT						
Maximum platen opening	mm	250	300	355	465	510
Minimum platen opening	mm	150	150	150	155	155
Maximum mould size, W × H	mm	125 × 175	150 × 250	220 × 320	300 × 350	350 × 450
Clamping force	t	1	1	2	5	8
HYDRAULIC SYSTEM						
Hydraulic drive motor	HP	3	5	5	7.5	10
Oil tank capacity	L	90	150	150	190	240
POWER & INSTALLATION						
Total connected load	HP / kW	13 / 10	18 / 13	29 / 22	36 / 27	51 / 38
Machine dimensions, L × W × H	ft	7.2 × 5 × 6.3	8 × 4.8 × 6.8	8.2 × 5.5 × 7.5	11 × 7 × 8	11.7 × 7 × 8.5
Machine weight, approx.	t	1.5	2.5	3.2	3.5	4.5
Delivery period, ex-works	weeks	6	6	6	6	7

Data for guidance at the time of printing; ratings depend on material grade, container design and site conditions and are confirmed in our techno-commercial offer. Built to order: alternative screw sizes, heads and clamp strokes are available. **Control & electrics:** standard LINUS PLC/HMI platform on every model, see page 21.

WHICH MODEL MAKES WHICH BOTTLE · CONTAINER VOLUME PER MACHINE, LOG SCALE





PLC / HMI PANEL

03 Accumulator Head Series

Single station · accumulator head · 10 to 210 litres



CONTAINER RANGE

10 L to 210 L

IN EIGHT MODELS

The workhorse range for 10 to 210 litre containers, from 10 L edible-oil jerrycans to 60 L carboys and 210 L open-top drums.

APPLICATIONS

EDIBLE OIL · LUBRICANTS · CHEMICALS · INDUSTRIAL DRUMS · AGRICULTURE · PHARMA · ICE COOLERS · WATER DRUMS · TOYS

OPTIONS & ATTACHMENTS

- Parison power pack for high-speed shots
- Two-cavity heads up to 30 L
- Handle insertion & in-mould labelling
- Automatic deflashing, leak tester & take-out
- View strip and multi-layer heads
- Hopper loader, mixer and grinder package

WHY THIS SERIES

- For jerrycans, carboys and drums the accumulator head stores a full shot of melt and pushes the parison out in one fast stroke. Heavy parisons do not sag, so wall thickness stays even.
- Eight models from 10 L to a 210 L open-top drum machine; the **M** versions (LPI-15M, LPI-20M) carry a larger extruder for higher output on the same clamp.
- FIFO accumulator design: first melt in is first melt out, so no material degrades in the head between shots.
- AC variable-frequency drives and power-saving heaters; parison controller with PLC or HMI; optional parison power pack for faster shot speed.
- Grooved-barrel extruder on the 210 L model for high-output HMW-HDPE processing.



JERRYCANS, CARBOYS & DRUMS



L-RING DRUMS 100 – 250 L

Technical data sheet · LPI-10 to LPI-210-OT

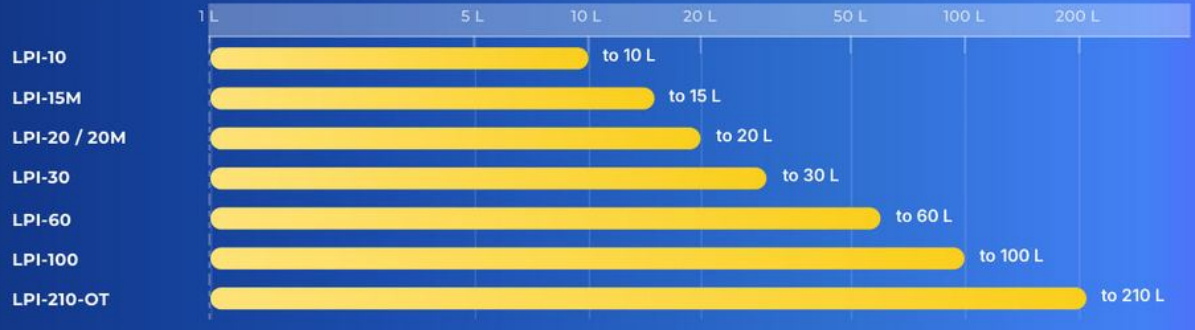
Accumulator Head Series

LINUS PROJECTS
THE ULTIMATE SOLUTION

Parameter	Unit	LPI-10 10 L	LPI-15M 15 L	LPI-20 20 L	LPI-20M 20 L · high output	LPI-30 30 L	LPI-60 60 L	LPI-100 100 L	LPI-210-OT 210 L open-top
CONTAINER & OUTPUT									
Maximum container volume	L	**10**	**15**	**20**	**20**	**30**	**60**	**100**	**210**
Production rate, approx.	pcs/hr	75 – 80 @ 400 g	75 – 80 @ 500 g	35 – 40 @ 1 kg	45 – 50 @ 1 kg	30 – 35 @ 1.8 kg	28 – 30 @ 2.5 kg	20 @ 5 kg	18 – 20 @ 8 kg
EXTRUDER									
Screw diameter	mm	65	70	70	80	80	90	100	90 grooved
L / D ratio	–	22	22	22	22	22	22	22	28
Plasticising capacity, HDPE	kg/hr	45 – 50	60 – 65	60 – 65	80 – 90	80 – 90	90 – 110	100 – 110	180 – 190
Extruder motor, VFD driven	HP	15	15	15	25	25	40	50	75
Barrel heating load	kW	10.5	13.5	13.5	16.5	16.5	21	24	24.5
Maximum screw speed	rpm	56	56	56	56	56	56	56	56
ACCUMULATOR HEAD									
Accumulator capacity	kg	1.5	1.5	3	3	5	5	7.5	14
Head heating load	kW	11.5	11.5	14	14	20	20	23	36
Parison control cylinder	in	5	5	6	6	7	7	7	10
Die core size, min / max	mm	70 / 150	70 / 150	80 / 200	80 / 200	120 / 260	120 / 260	120 / 300	160 / 300
MOULD CLAMPING UNIT									
Maximum platen opening	mm	660	760	860	860	980	1115	1320	1650
Minimum platen opening	mm	150	250	250	250	320	355	455	786
Maximum mould size, W × H	mm	380 × 500	500 × 500	610 × 560	610 × 560	660 × 660	760 × 760 / 820 × 820	850 × 1100	1220 × 1675
Clamping force	t	9	16	16	16	25	25	45	72
HYDRAULIC SYSTEM									
Hydraulic drive motor	HP	7.5	7.5	10	10	20	25	30	50
Parison power pack motor (option)	HP	3	3	3	3	3	3	5	10
Oil tank capacity	L	225	250	325	325	400	400	760	800
POWER & INSTALLATION									
Total connected load	HP / kW	52 / 38.8	56 / 42	62 / 46	76 / 57	98.5 / 73.5	124.5 / 93	152 / 113.4	222 / 165.5
Machine dimensions, L × W × H	ft	16 × 7 × 11	16 × 7 × 11	17 × 8 × 12	17 × 8 × 12	19 × 9 × 14	22 × 10 × 13	22 × 13 × 14	23 × 14 × 20
Machine weight, approx.	t	9	10	12	12	12	14	26	29
Delivery period, ex-works	weeks	6 – 8	6 – 8	8 – 10	8 – 10	10 – 12	12 – 14	14 – 16	16 – 18

Data for guidance at the time of printing; ratings depend on material grade, container design and site conditions and are confirmed in our techno-commercial offer. Built to order: alternative screw sizes, heads and clamp strokes are available. **Control & electrics:** standard LINUS PLC/HMI platform on every model, see page 21.

WHICH MODEL FOR WHICH CONTAINER · MAXIMUM CONTAINER VOLUME PER MACHINE, LOG SCALE



04 L-Ring Drum Series

Single station · accumulator head · single and three-layer



CONTAINER RANGE

100 L to 250 L

DRUMS

Industrial drum machines for the chemical, lubricant and food trades. Single-layer for virgin material, three-layer where a recycled core brings the cost down.

APPLICATIONS

LUBRICANTS · CHEMICALS · OILS · SUGAR & STARCH · LIQUOR · FOOD INGREDIENTS

OPTIONS & ATTACHMENTS

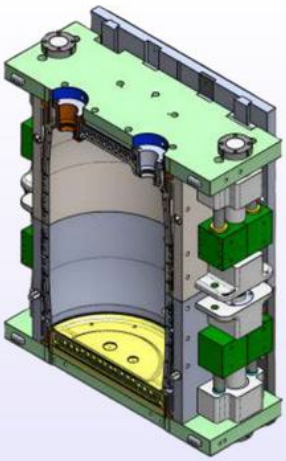
- Three-layer co-extrusion head with recycled core
- Automatic deflashing & drum take-out conveyor
- In-line leak tester for 100% inspection
- Bung insertion and screen printing station
- Hopper loaders, dryers, mixer and grinder package
- Water chiller and cooling tower sized to the line

WHY THIS SERIES

- Purpose-built for 100 to 250 L L-ring drums with reinforced lifting rings, in single-layer and three-layer configurations.
- **Three-layer** model LPI-210M-3L runs a recycled or off-spec core between two virgin HDPE skins, the biggest single saving on raw material cost in drum making.
- Improved sealing arrangement: drums are 100% leak-proof and clear drop and stack tests to UN packaging requirements.
- Separate parison and stretching power packs; 90 t clamp with 1,650 mm daylight for 1,200 × 1,675 mm moulds.
- Designed for XM-HM-HDPE grades for stronger, more resilient industrial barrels.



L-RING DRUMS 100 – 250 L



DRUM MOULD (SECTION)

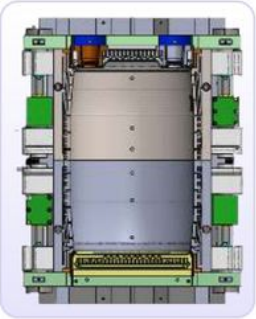
Technical data sheet · LPI-210

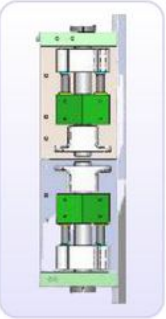
L-Ring Drum Series

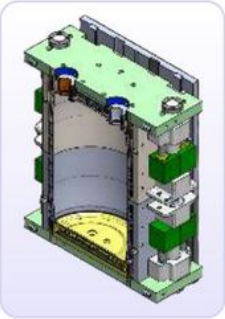
LINUS PROJECTS
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Parameter	Unit	LPI-210-L Single layer	LPI-210M-L Single layer · high output	LPI-210M-3L Three layer · inner / middle / outer
CONTAINER & OUTPUT				
Container volume	L	L-ring drums 100 – 250 L	L-ring drums 100 – 250 L	L-ring drums 100 – 250 L
Production rate, approx.	pcs/hr	24 – 25 @ 8.2 kg	27 – 28 @ 8.2 kg	25 – 28 @ 8.2 kg
EXTRUDER (GROOVED BARREL)				
Screw diameter	mm	100	120	90 · 100 · 90
L / D ratio	–	26	30	28 · 28 · 28
Plasticising capacity, HDPE	kg/hr	250 – 280	380 – 400	130-150 · 250-280 · 130-150
Extruder motor, VFD driven	HP	100	150	75 · 100 · 75
Barrel heating load	kW	30.5	41	24.5 · 29 · 24.5
Maximum screw speed	rpm	56	56	56
ACCUMULATOR HEAD				
Accumulator capacity	kg	14	14	16
Head heating load	kW	36	36	38
Parison control cylinder	in	10	10	10
Die core size, min / max	mm	160 / 300	160 / 300	200 / 300
MOULD CLAMPING UNIT				
Maximum platen opening	mm	1650	1650	1650
Minimum platen opening	mm	786	786	786
Maximum mould size, W × H	mm	1200 × 1675	1200 × 1675	1200 × 1675
Clamping force	t	90	90	90
HYDRAULIC SYSTEM				
Hydraulic drive motors	HP	50 + 10	50 + 10	50 + 10
Parison power pack motor	HP	10	10	10
Stretching power pack motor	HP	10	10	10
Oil tank capacity	L	800	800	800
Parison / stretching power pack tanks	L	150 / 150	150 / 150	150 / 150
POWER & INSTALLATION				
Total connected load	HP / kW	276 / 206	340 / 254	499 / 360
Machine dimensions, L × W × H	ft	29 × 13 × 20	29 × 13 × 20	31 × 16 × 22
Control panel, L × W × H	in	63 × 26 × 79	63 × 26 × 79	63 × 26 × 79
Machine weight, approx.	t	31	32	36
Delivery period, ex-works	weeks	22 – 24	22 – 24	22 – 24

Data for guidance at the time of printing; ratings depend on material grade, container design and site conditions and are confirmed in our techno-commercial offer. Built to order: alternative screw sizes, heads and clamp strokes are available. **Control & electrics:** standard LINUS PLC/HMI platform on every model, see page 21.







DRUM MOULD, 220 L L-RING

Aluminium or steel moulds with drilled cooling channels, replaceable pinch-off inserts and L-ring forming slides. Designed and built in-house and tried on the machine before dispatch.

05 Water Tank Series

Single station · FIFO accumulator · 3 and 4-layer with view strip



CONTAINER RANGE

500 L to 5,000 L

TANKS

High-capacity machines for the fastest-growing way of making tanks: blow-moulded multi-layer tanks that are lighter and quicker to produce than rotomoulded ones, and need no pulverising.

APPLICATIONS

- WATER STORAGE TANKS
- SEPTIC & UNDERGROUND TANKS
- CHEMICAL STORAGE
- AGRICULTURAL TANKS
- LOFT TANKS

OPTIONS & ATTACHMENTS

- Foam core layer for insulated tanks
- Automatic deflashing and tank take-out
- Lid, nozzle and fitting insertion stations
- Hopper loaders, mixers and grinder package
- Water chiller and cooling tower sized to the machine
- Operator platform and mould handling crane

WHY THIS SERIES

- Three-layer and four-layer machines for 500 to 5,000 litre storage tanks: black UV-stabilised outer skin, white or foam insulating core and a food-grade inner layer.
- **FLV models** add a view strip and a dedicated extruder, so the water level shows through without a window cut in the tank.
- Grooved-barrel extruders with 28:1 L/D for stable high output on HDPE; three to five extruders feed one FIFO accumulator head.
- Large platen daylight, up to 4,500 mm, and 2,200 × 2,500 mm moulds on the 5,000 L model.
- PLC control with MMI, AC variable-frequency drives on every extruder, plunger and multi-hydraulic ranges; threaded-lid and light-weight tank designs.



SEPTIC & UNDERGROUND TANKS

LAYER STRUCTURE · TL AND FLV



Technical data sheet · LPI-WT

Water Tank Series

LINUS PROJECTS
THE ULTIMATE SOLUTION

Parameter	Unit	WT-500 500 L · TL	WT-500 FLV 500 L · FLV	WT-1000 1000 L · TL	WT-1000 FLV 1000 L · FLV	WT-2000 2000 L · TL	WT-2000 FLV 2000 L · FLV	WT-3000 3000 L · TL	WT-5000 5000 L · TL
CONTAINER & OUTPUT									
Tank capacity	L	500	500	1000	1000	2000	2000	3000	5000
Output	kg/hr	340	340	400	440	500	500	440	1050
Product weight	kg	8.5 – 20	8.5 – 20	15 – 18	15 – 18	9 – 32	9 – 32	5 – 37	3 – 90
EXTRUDERS (GROOVED BARREL)									
Extruders	nos	3	4	3	5	3	5	3	3
Screw diameters	mm	70 · 70 · 70	65 · 65 · 65 · 65	80 · 70 · 80	70 · 65 · 65 · 65 · 65	90 · 80 · 90	80 · 65 · 65 · 65 · 65	90 · 80 · 90	120 · 100 · 100
Extruder motors (VFD)	HP	40 · 40 · 40	30 · 30 · 30 · 30	60 · 40 · 60	40 · 30 · 30 · 30 · 30	75 · 60 · 75	60 · 30 · 30 · 30 · 30	75 · 60 · 75	150 · 100 · 100
Heating load, total	kW	79	90	104	214	139	214	165	184
ACCUMULATOR HEAD (FIFO)									
Accumulator	kg	17	20	34	50	50	64	72	150
Parison cylinder	mm	355	355	–	–	–	–	500	500
Die core size, min	mm	280	250	–	–	–	–	350	300
Die core size, max	mm	450	450	600	600	680	680	750	1000
MOULD CLAMPING UNIT									
Max. platen opening	mm	2000	2000	2800	2800	3100	3100	3600	4500
Min. platen opening	mm	786	786	1000	1000	1000	1000	1500	2000
Max. mould W × H	mm	930 × 1500	930 × 1500	1400 × 2000	1400 × 2000	1775 × 2300	1775 × 2300	2050 × 2400	2200 × 2500
Clamping force	t	72	72	120	120	200	200	250	200
HYDRAULIC SYSTEM									
Hydraulic power, total	HP	105	130	115	165	125	180	135	90
POWER & INSTALLATION									
Connected load	HP / kW	400 / 298.5	448 / 384	496 / 370	602 / 448	627 / 468	744 / 555	672 / 501	854 / 637
Machine L × W × H	ft	27 × 17 × 22	27 × 20 × 24	27 × 26 × 24	28 × 26 × 24	31 × 29 × 24	31 × 29 × 26	31 × 29 × 24	30 × 59 × 33
Weight, approx.	t	52	56	58	45	63	72	60	175

TL = three-layer; FLV = four-layer with view strip. Screw and motor sizes are listed per extruder (outer · core · inner · view strip). All models: 28:1 L/D grooved-barrel extruders, 56 rpm maximum screw speed, hydraulic power split across main pump, parison and clamp pumps, two control panels. Data for guidance; ratings depend on material grade, tank design and site conditions and are confirmed in our techno-commercial offer. **Control & electrics:** standard LINUS PLC/HMI platform on every model, see page 21.



500 – 5,000 L tanks and 1,000 L IBC: one plant, one supplier

WHY TANK MAKERS ARE MOVING TO BLOW MOULDING

- Cycle times in minutes, not the 45 – 90 minutes of rotational moulding, so several times the output per machine.
- Granules, not pulverised powder: no pulveriser, no dust, lower material cost.
- Lighter tanks with uniform wall thickness, controlled by the parison programmer.
- Multi-layer in one shot: insulating core, food-grade inner and a view strip.

06 IBC Series

Single station · FIFO accumulator · 1,000 L ISO intermediate bulk container



CONTAINER RANGE

1,000 L

ISO IBC BOTTLE

One machine, one job, done well: the 1,000 litre IBC bottle for chemical, food and bulk-liquid packers.

APPLICATIONS

CHEMICALS · SOLVENTS · LIQUIDS & SYRUPS · FOOD INGREDIENTS · EDIBLE OIL BULK · WATER

OPTIONS & ATTACHMENTS

- Cage welding and pallet assembly stations
- Valve and lid fitting with torque control
- 100% leak testing before despatch
- Grinder for runners and rejects
- Water chiller and cooling tower package
- Pallet-size mould change trolley

WHY THIS SERIES

- Blows the 1,000 L inner bottle of a standard pallet IBC in HMWPE: 32 kg accumulator head, 150 t clamp and 3,000 mm daylight for the 1,500 × 1,500 mm mould.
- FIFO accumulator head, 120 mm grooved-barrel extruder and 400 mm parison control cylinder for even wall thickness on a 21 kg shot.
- Yuken hydraulics, PLC with MMI and AC variable-frequency drive on the extruder. A workhorse built for 24 × 7 running.
- No pulverising, light-weight bottles and low manpower compared with rotational moulding.
- Complete IBC line on request: cage welding, pallet, valve fitting and leak-testing stations.



1,000 L IBC



IBC INNER BOTTLE



IBC ON PLASTIC PALLET

Technical data sheet · LPI-1000-IBC

IBC Series

LINUS PROJECTS
THE ULTIMATE SOLUTION

CONTAINER & OUTPUT

Container	**1000 L IBC inner bottle**	Standard	**ISO / UN pallet size**
Production rate, approx.	**10 pcs/hr @ 21 kg**	Material	**HMWPE / HDPE**

EXTRUDER (GROOVED BARREL)

Screw diameter	**120 mm**	L / D ratio	**28**
Plasticising capacity, HDPE	**350 – 400 kg/hr**	Extruder motor, VFD driven	**125 HP**
Barrel heating load	**50 kW**	Maximum screw speed	**48 rpm**

ACCUMULATOR HEAD (FIFO)

Accumulator capacity	**32 kg**	Head heating load	**60 kW**
Parison control cylinder	**400 mm**	Die core size, min / max	**250 / 600 mm**

MOULD CLAMPING UNIT

Maximum platen opening	**3000 mm**	Minimum platen opening	**1000 mm**
Maximum mould size, W × H	**1500 × 1500 mm**	Clamping force	**150 t**

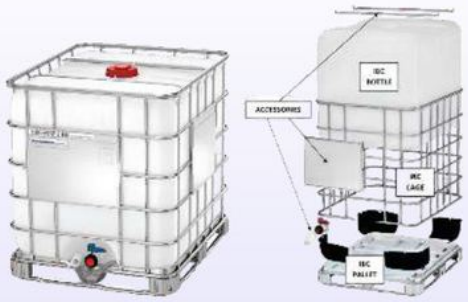
HYDRAULIC SYSTEM

Hydraulic drive motor	**75 HP**	Oil tank capacity	**1000 L**
Hydraulics	**Yuken proportional**		

POWER & INSTALLATION

Total connected load	**400 HP / 300 kW**	Delivery period, ex-works	**24 – 28 weeks**

Data for guidance at the time of printing; ratings depend on material grade, bottle design and site conditions and are confirmed in our techno-commercial offer. **Control & electrics:** standard LINUS PLC/HMI platform, see page 21.



IBC BOTTLE · CAGE · PALLET

WHAT THE IBC BOTTLE HAS TO MEET

UN / ISO performance tests for 1,000 L composite IBCs (stacking, hydraulic pressure, leakproofness and drop) and a uniform wall on a 21 kg shot. The 400 mm parison control cylinder and 100-point programmer are what make the last point possible.



1,000 L inner bottle, as blown



LPI-1000-IBC at our works

07 PET Stretch Blow Moulding

Semi-automatic · two-step · single cavity

For packaged water, juice, edible oil and 5-gallon dispensers. A low-investment way into PET packaging, with the same after-sales support as our large lines.



APPLICATIONS

PACKAGED WATER · DAIRY · JUICE & SODA · EDIBLE OIL · LIGHT CHEMICALS · FOOD INGREDIENTS

WHY THIS SERIES

- Semi-automatic two-step process: preforms are heated in an infrared oven and stretch-blown in a separate clamp. One operator, no special training.
- Bottles from 500 ml to 20 L; the 5-gallon model blows 7 to 20 L jars at up to 80 bottles per hour from a single cavity.
- Independent temperature control of each heating lamp, with lamps adjustable in position to suit different preform designs.
- PLC control with 0.01 s timing precision and a dedicated high-pressure air storage unit for consistent blowing.
- Simple installation and start-up; finished-bottle waste rate below 0.1%.



PET bottles and single-cavity blow moulds

THE TWO-STEP PROCESS

01 Preform
Injection-moulded PET preforms are loaded by hand into the heater carriage.

02 Infrared heating
Lamps bring the preform to stretch temperature; each lamp is set independently.

03 Stretch-blow
A stretch rod and high-pressure air form the bottle in the mould in one stroke.

04 Take-out
Finished bottles are removed and the next preform is loaded. A 20 L jar every 45 seconds.

TYPICAL SEMI-AUTOMATIC PET LINE

Semi-automatic blower with infrared preform heater · high-pressure air compressor (30 – 40 bar) with dryer and receiver · low-pressure compressor · water chiller · preform and cap moulds. Preform injection moulding machine added when you want to make your own preforms.

08 Injection Moulding Machines

Fully automatic · servo-hydraulic · toggle clamp

Caps and closures for the bottles you blow, pails and crates for your customers, household and automotive parts. One supplier for the whole plant.



APPLICATIONS

CAPS & CLOSURES · LUBRICANT PAILS · AUTOMOTIVE · HOUSEHOLD · TOYS · FURNITURE · CRATES · RAILWAYS

WHY THIS SERIES

- Clamping force from 90 to 1,500 tonnes: closures and pails at the small end, crates, chairs and automotive parts at the large end.
- Servo-motor driven pumps: power is drawn only when the machine moves, cutting energy use and oil heating sharply against fixed-pump machines.
- High clamping efficiency with five-point toggle and generous opening stroke; mould and platen protection through low-pressure closing.
- Wide shot-weight window per machine with precise, repeatable injection and minimal flash.
- Complete cells on request: hopper dryer, mould temperature controller, robot take-out, conveyor and chiller.



Buckets, basins and household ware: typical products of a 250 – 650 t machine

WHICH CLAMPING FORCE FOR WHICH PRODUCT

90 – 168 t	Caps and closures, small household items, cutlery, cosmetic components
218 – 328 t	Lubricant pail lids, handles, toys, kitchenware, 5 – 10 L pails
428 – 650 t	Crates, basins, buckets, chairs, 20 L pails, automotive trims
850 – 1,500 t	Large crates and pallets, dustbins, automotive panels, furniture

Clamping force is only the first filter: we also check shot weight, projected area, mould size and cycle time against your part drawing.

TYPICAL MACHINE CELL

Injection moulding machine · hopper dryer & loader · mould temperature controller · water chiller · robot or conveyor take-out · scrap granulator. We size the utilities and quote the cell as one line item.

A plant, not just a machine.

Truly turnkey

Most of our customers buy their first machine from us and their fifth. The reason is simple: we take responsibility for the whole line, and we are still around when the plant needs us.

01 Enquiry & feasibility

Share your container drawings or samples, target output and available power. We confirm the model, cavities and cycle time, and we tell you plainly if a different machine would serve you better.

02 Plant layout & utilities

A to-scale layout of machines, moulds, conveyors, compressed air, chilled water and power distribution, sized for the plant you will have in five years, not just today.

03 Manufacturing

Frames, platens, heads and panels are built at our Ambernath works to the agreed specification; moulds are machined and tried alongside.

04 Trial run at our works

Your material, your mould, your bottles, before dispatch. Customers are welcome to witness the trial in person or on video.

05 Shipping & installation

Export packing, documentation and freight to port or site. Our engineers travel for installation, alignment and utility hook-up.

06 Commissioning & training

Production trials at your plant, operator and maintenance training, and a signed hand-over protocol with the achieved cycle time and output.

07 After-sales

Spares from stock in Mumbai, remote diagnostics by video, scheduled service visits, and a WhatsApp group where our engineers and customers talk every day.



Hand-over day at a customer's plant

WHAT EVERY MACHINE SHIPS WITH

- Operating & maintenance manual and SOPs
- Electrical and hydraulic circuit drawings
- Foundation & utility drawings
- Recommended two-year spares list
- Tool kit and commissioning spares
- Installation, training and warranty

OPERATOR TRAINING

Machine start-up and shut-down, mould change, parison programming, quality checks and daily records. Taught on your machine, in your plant, in English or Hindi.

MAINTENANCE TRAINING

Hydraulics, electrics and PLC fault-finding, preventive maintenance schedule, heater and thermocouple replacement, screw and die cleaning.

MANAGEMENT HAND-OVER

Production and OEE records, spares planning, consumables list and a signed hand-over protocol with the achieved cycle time and output.

TYPICAL PROJECT TIMELINE · FROM ORDER TO FIRST SALEABLE CONTAINER

OFFER	MANUFACTURING	TRIAL & DISPATCH	SEA FREIGHT	INSTALLATION & TRAINING
1 – 2 WEEKS	6 – 24 WEEKS BY SERIES	1 – 2 WEEKS	3 – 6 WEEKS	1 – 3 WEEKS

Manufacturing time depends on the series: 6 – 7 weeks for 200 ml – 5 L machines, 6 – 18 weeks for 10 – 210 L, 22 – 28 weeks for drum, tank and IBC machines. Air freight and phased deliveries are possible when a line has to start earlier.

We stay with the plant.

After-sales

Commissioning is where many suppliers stop. For us it is where the relationship starts: spares, remote support and service visits for the life of the machine, and a growing group of customers who talk to each other every day.

01 **Remote support, any time zone**

Our engineers are reachable 24×7 on phone, WhatsApp and video. Every machine's PLC/HMI has an Ethernet port, so with your permission we can read alarms and parameters remotely and guide your operator through a fix the same day.

02 **Spares from stock in Mumbai**

Fast-moving spares (heater bands, thermocouples, seals, solenoid valves, filters, contactors) are held in stock. Every machine ships with a recommended two-year spares list; export packing and courier to site are routine.

03 **Service visits**

Scheduled preventive-maintenance visits, re-commissioning after a plant move, mould trials for new containers and refresher training when your team changes.

04 **The LINUS customer WhatsApp group**

Operators and plant managers from across our markets, together with our engineers. A problem posted in the morning usually has an answer from another plant before our engineer has finished his tea.



ETHERNET-READY PLC / HMI PANEL · REMOTE DIAGNOSTICS

THE LINUS CONTROL PLATFORM · STANDARD ON EVERY MACHINE IN THIS CATALOGUE

- **PLC with colour touch HMI:** recipe storage, cycle diagnostics and alarm history; Siemens / Delta / B&R options
- **Multipoint parison programmer:** B&R, MOOG or Beckhoff, 100 to 400-point wall-thickness profiling
- **Servo / variable-frequency drives** on extruder and hydraulics for lower power draw and quieter running
- **Closed-loop temperature control** on barrel, head and die zones with PID auto-tuning
- **Remote diagnostics ready:** Ethernet port for production counters, OEE and LINUS remote support

UPGRADES FOR MACHINES ALREADY RUNNING

- Servo-pump retrofit for 25 – 40% lower power draw
- Multipoint parison programmer upgrade (B&R / MOOG)
- Second-cavity head and bottle conveyor
- In-mould labelling (IML) station
- Automatic deflashing and in-line leak tester
- View-strip or multi-layer head conversion
- New PLC/HMI panel for older machines

24×7
ENGINEER ACCESS ACROSS TIME ZONES

2 yrs
RECOMMENDED SPARES LIST WITH EVERY MACHINE

26+
COUNTRIES SUPPORTED FROM MUMBAI AND LAGOS

1 group
CUSTOMER WHATSAPP GROUP, ALL PLANTS

SERVICE DESK SALES@LINUSPROJECTS.COM · +91 98670 80329 / 80330 · WHATSAPP ON THE SAME NUMBERS

OPERATOR & MAINTENANCE TRAINING: SEE PAGE 20

Truly Turnkey Project Installation and Training

LINUS PROJECTS
THE ULTIMATE SOLUTION



AIR COMPRESSOR



HOPPER LOADER



COLOR MIXER



WATER CHILLER



COOLING TOWER



LEAK TESTING MACHINE



BLOW MOULD



INJECTION MOULD



SCRAP GRANULATOR

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THE ULTIMATE SOLUTION

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NEPAL LUBE OIL LIMITED
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