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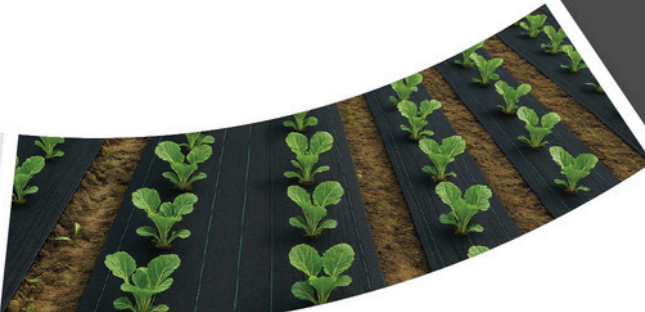
KABRA
ExtrusionTechnik



**MULTI LAYER
BLOWN FILM**

**DEDICATED TO TECHNOLOGY
DEVOTED TO SERVICE**

www.kolsite.com





About Us.



INTRODUCTION

Kabra Extrusionstechnik (KET), a distinguished entity within the esteemed Kolsite Group, has proudly stood as a vanguard in the plastics extrusion industry for over six decades. Our extensive journey is characterized by a relentless pursuit of excellence and an unwavering commitment to pioneering advancements that shape the future of plastics. With a formidable presence marked by more than 15,700 installations across 105 countries spanning the Americas, Middle East, Asia, and Africa, KET has solidified its position as a global leader. We are honored to introduce ourselves as India's foremost manufacturer and exporter of extrusion plants, a testament to our enduring legacy and profound impact on the industry.

OUR PHILOSOPHY

At Kabra Extrusionstechnik, our philosophy is rooted in a deep-seated dedication to innovation, precision, and customer-centricity. We believe that true leadership is not merely about market share, but about consistently delivering superior solutions that empower plastics processors worldwide. Our approach integrates cutting-edge technology with profound industry insights, ensuring that every product and service we offer addresses the evolving needs and challenges of our global clientele. We are committed to fostering a culture of continuous improvement, where modern R&D techniques and diverse manufacturing processes are meticulously applied to meet and exceed dynamic market requirements.

MULTI LAYER BLOWN FILM PLANT

ADVANCED EXTRUSION TECHNOLOGY FEATURING PRECISION-ENGINEERED COMPONENTS FOR OPTIMAL PERFORMANCE AND RELIABILITY IN INDUSTRIAL MANUFACTURING PROCESSES



- ▶ EXTRUDER
- ▶ DIE HEAD
- ▶ IBC (INTERNAL BUBBLE COOLING)
- ▶ AUTO PROFILE AIR RING
- ▶ OSCILLATING HAUL- OFF
- ▶ FULLY AUTOMATIC WINDER
- ▶ ELECTRICAL CONTROLS

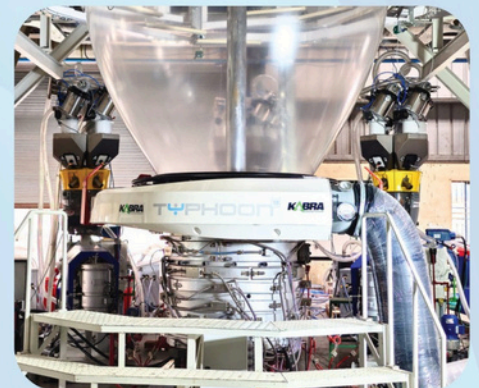
CORE COMPONENTS

Blown Film Extruder

- ◆ Robust steel construction
- ◆ Various feed sections – Grooved feed, Light groove feed and improvised geometry
- ◆ Barrel / Screw – Nitro alloy steel with Gas Nitride Or Bi-metallic Coating for long life span
- ◆ Barrier Profiled screws to handle varieties of polymers at optimum rates
- ◆ Homogenous melt quality with shear /mixing sections – suitable for different polymer blends and color additives
- ◆ Thrust Gear box coupled to inverter-duty high efficiency AC Motors
- ◆ Multi-loop PLC based temperature controllers for barrel zones
- ◆ Cold start / High melt pressure protections as Safety interlocks, conforming to CE norms
- ◆ Variety of melt filtering devices – Manual / Hydraulic Screen changers, candle filters and hybrid options

Multi-layer Co-ex Die Head

- ◆ Made of Hardened and Tempered alloy tool steels.
- ◆ Uniform grain prevents distortion of parts during heating and cooling cycles.
- ◆ Computer Flow modelled Die heads for minimum wet path and pressure drop profiles
- ◆ Flow path is highly streamlined, mirror-polished & Hard Chrome plated to eliminate all dead spots
- ◆ Helps in faster purge and material change over times
- ◆ IBC passages for increasing cooling capacity
- ◆ Varieties of designs / sizes to suit 3-5-7 layered flexible packaging applications



Bubble Guide Basket

- ◆ Pivot Arm / Scissors type actuation systems
- ◆ Multiple segment design for optimum bubble stability
- ◆ Motorized diameter and height adjustment
- ◆ Contact elements of Teflon beads / Aluminum roller/Carbon fiber roller.
- ◆ Provisions to mount IBC sensors



CORE COMPONENTS

Horizontal Oscillating Haul-off

- ◆ Excellent stability with Slewing Ring Bearings & swing housing
- ◆ Drive Mechanism with planetary gear train with override prevention
- ◆ Horizontal web oscillator with full range gauge randomization
- ◆ Pair of Air-cushioned turning bars for smooth web handling
- ◆ Precision-aligned Primary Nip systems
- ◆ Design for Safe access with CE-conformity



Vertical Oscillating Haul-off

- ◆ Robust mechanism with Vertical web randomization
- ◆ Ideally suited for thin and tacky films
- ◆ Turn Bars with air-cushion and precise alignment



Collapser Boards

- ◆ Collapser boards provided with PBT bush /Aluminum roller/Carbon fiber roller to minimize drag.
- ◆ Longer collapser boards for superior web flatness
- ◆ Manual / motorized operations with linkage mechanism for ease of operations.
- ◆ Offered with variety of lateral guides / Gusset options



Surface winder

- ◆ Fully automatic two station surface winders for various types of packaging films.
- ◆ High Quality Winding thru Advanced techniques of Tension / Pressure control.
- ◆ Automatic reel changeover system with Fly knife systems.
- ◆ Dual Core (3"/6") choice – for Large rolls with consistent winding characteristics.
- ◆ Shaft feed to Hydraulic roll unloading onto pallet. Reliable and Safe web handling at high line speeds – conforming to CE norms



Electrical Controls

- ◆ Offers a variety of Consoles tailored to Plant Design
- ◆ Reliable and Safe Electrical / Controls architecture
- ◆ Safety interlocks with PLC – Extruder & downstream
- ◆ Conforming to CE / UL / BIS norms.

POLY *~flex*

3/5 Layer Film Plants

KET made Multi-layered blown film lines provide solutions for a very wide range of flexible packaging applications for Food / non-food, primary / secondary and an entire vast of Consumer / industrial packaging sectors.

Plant configuration matrices carefully balance versatility with optimal cost offering high yield and reliability.

Also offered dedicated high performance lines for Liquid pouch films, Lamination Films, Lami-tube films, Surface protection films, Cushion pack films, Hygiene wrap films, Courier pack films, Shrink Films, Stretch Wrap films, Mulch films, FIBC liners, Tarpaulin films, Shade net films, Shrink Hood films, Stretch hood films, etc.

KET standard lines offer ease of operation, power efficiency and reliable performance across a host of applications.

And KET also offers high performance 5L POD film lines to add further versatility, strategic down-gauging thru modern performance polymers and/or formulation cost savings to stay ahead!

Line configurations range from 700mm to 3100mm widths with outputs 100 -1000 kg/hr with die diameters 200 to 1000mm.

Customized solutions offered thru specific incorporation of extruder design, die configurations, downstream and product combinations.



POLY-flex 3LOBC FILM PLANTS

Plant Model	Osc. Haul-off	NIP size	Die size	Extruder Combination	Output kg/hr
311-5444	Vertical	1100	250 Ø	47 / 47 / 47 mm	125-130
313-5454	Vertical	1350	300 Ø	47 / 55 / 47 mm	150-160
314-5555, 314-3555	Vertical Horizontal	1450	300 Ø	55 / 55 / 55 mm	190-200
316-3555	Horizontal	1600	350 Ø	55 / 55 / 55 mm	190-200
318-3565	Vertical Horizontal	1800	400 Ø	55 / 60 / 55 mm	220-240
320-3565	Horizontal	2000	450 Ø	55 / 60 / 55 mm	260-280
322-3565	Horizontal	2200	500 Ø	55 / 60 / 55 mm	280-300
326-3676	Horizontal	2600	600 Ø	60 / 75 / 60 mm	380-400

POLY-flex 3L IBC FILM PLANTS

Plant Model	Osc. Haul-off	NIP size	Die size	Extruder Combination	Output kg/hr
411-7676	Horizontal	1100	250 Ø	60 / 75 / 60 mm	300-350
415-3666, 415-3676	Horizontal	1500	350 Ø	60 / 60 / 60 mm 60 / 75 / 60 mm	330-350
418-3666, 418-5676	Horizontal Vertical	1800	400 Ø	60 / 60 / 60 mm 60 / 75 / 60 mm	360-380 400-410
422-3676, 422-3797	Horizontal	2200	500 Ø	60 / 75 / 60 mm 75 / 90 / 75 mm	400-430 480-500
426-3696	Horizontal	2600	550/600 Ø	60 / 90 / 60 mm	460-480
426-3797	Horizontal	2600	600 Ø	75 / 90 / 75 mm	500-550
429-3717	Horizontal	2900	650 Ø	75 / 105 / 75 mm	580-600

POLY-flex 5L-POD FILM PLANTS

Plant Model	Osc. Haul-off	NIP size	Die size	Extruder Combination	Output kg/hr
515-3556	Horizontal	1500	350 Ø	55 / 55 / 60 / 55 / 55 mm	300 - 320
518-3567	Horizontal	1800	400 Ø	55 / 60 / 75 / 60 / 55 mm	350 - 400
522-3567	Horizontal	2200	500 Ø	55 / 60 / 75 / 60 / 55 mm	370 - 400
522-3679, 526-3679	Horizontal	2200 / 2600	550 Ø	65 / 75 / 90 / 75 / 65 mm	525 - 550
526-3679	Horizontal	2600	600 Ø	65 / 75 / 90 / 75 / 65 mm	550 - 600
526-3679, 529-3679	Horizontal	2600 / 2900	650 Ø	65 / 75 / 90 / 75 / 65 mm	600 - 650
529-6771	Horizontal	2900	600/650 Ø	75 / 75 / 105 / 75 / 75 mm	800 - 850

5/7/9 Layer Barrier Film Plants

Multi-layered blown film lines for producing high quality barrier film structures (5, 7 and 9 layers) for modern technical films used in food, medical, pharmaceutical and other retail /industrial applications that require long shelf life.

Configurations offer a single layer barrier or triple-layered barrier with an EVOH central layer combined with PA layers offering a superior performance against permeability of gases and water vapour with uniform layer-wise performance.

Typically KET lines have a unique advantage in quick start-up and easy change over that minimize wastages from PE to barrier structures and vice versa.

And KET also offers barrier film extrusion lines capable of asymmetric film structures with optimal balancing of key factors like die configuration and film flatness.

Line configurations range from 700mm to 2700mm widths with outputs 200 -700 kg/hr with die diameters 250-800mm.

BAR-flex 5L-BARRIER FILM PLANTS

Plant Model	Osc. Haul-off	NIP size	Die size	Extruder Combination (mm)	Output kg/hr
515-3745	Horizontal	1500	350 Ø	75 / 40 / 50 / 40 / 75	300 - 320
522-3966	Horizontal	2200	600 Ø	90 / 65 / 65 / 65 / 90	550 - 600

BAR-flex 7L-BARRIER FILM PLANTS

Plant Model	Osc. Haul-off	NIP size	Die size	Extruder Combination (mm)	Output kg/hr
715-3765	Horizontal	1500	350 Ø	75/ 65 / 50 / 50 / 50 / 65 / 75mm	300 -350
718-3765	Horizontal	1800	400 Ø	75/ 65 / 50 / 65 / 50 / 65 / 75mm	380 -430
722-3765	Horizontal	2200	550 Ø	75/ 65 / 65 / 65 / 65 / 65 / 75mm	440 -460
726-6765	Horizontal	2600	600 Ø	90/ 65 / 65 / 65 / 65 / 65 / 90mm	550 -600



AGRI *flex*

KET offers extrusion lines for a wide range of Agriculture (Outdoor) usages like Green house films, Shade net films, Pond Liners, Root covers, Tarpaulins and Silo-stretch films.

Line configurations range from 2000mm to 3800mm widths with outputs 200 -1000 kg/hr with die diameters 400-1000mm.

GREEN *flex*

CIRCULAR ECONOMY / GREEN INITIATIVES

- ◆ Constant pursuit for developing energy-efficient equipment / processes
- ◆ Ever-increasing thrust for down-gauging and compatible equipment
- ◆ Dedicated blown film lines for Bio-degradable and Bio-compostable materials For sustainability
- ◆ Industry 4.0 for optimum operating efficiency and monitoring



Reduce, Reuse, Recycle



Reduction of Waste



World more Green



Reduction of Energy



Environmental Protection



Industry 4.0

AGRI-flex 3L IBC FILM PLANTS

Plant Model	Osc. Haul-off	NIP size	Die size	Extruder Combination (mm)	Output kg/hr
422-3696 422-3717	Horizontal	2200	650 Ø	65 / 90 / 65 mm 75 / 120 / 75 mm	380-400 520-550
431-3717	Horizontal	3100	700 Ø	75 / 105 / 75 mm 75 / 120 / 75 mm	600-650
438-3727	STN./HORI.	3800	700 Ø	75 / 120 / 75 mm	600-650
438-1929	STN.	3800	900/1000 Ø	90 / 120 / 90 mm	750-800



MONO & ABA BLOWN FILM LINE

Kabra make mono layer and ABA film plants support varieties of applications, offering ideal operational economics and high filler-processing range at diverse layer ratio.

FOR SMALL SIZES: COMPACT MONOLAYER FILM PLANTS. UNITIZED CONSTRUCTION

MODEL	Nip Roller mm	Extruder	L/d Ratio	Motor power (kW)	Maximum output Kg/hr	Layflat width mm	Thickness range (micron)	Die size Std. HD (mm)	Die size HD/LLD Optional (mm)	Surface Winder For Tubing Std.	Plant dimensions (L x W x H) m	
Mono layer film plant	F105	500	35	26	11	35	450	5-50	60	30, 45, 60, 75, 90	CTW-500	3.3 x 3.5 x 3.5
			40	30	11	45						4.5 x 3.8 x 4.0
	F107	700	40	30	15	55	350-625	10-100	90	75, 125, 150	CTW-700	5.0 x 4.0 x 4.5
	F109	915	47	30	22	80	500-850	10-100	115	90, 115, 150, 200, 250	CTW-915	4.0 x 4.0 x 5.0
	F111	1100	55	30	22	85	600-1000	10-100	150		CTW-1100	9.0 x 5.0 x 5.5
Mono-Quadra	F151	350 * 4	60	30	45	120	100-300	10-40	45 * 4	30, 60	CTW-350 * 4	7.0 x 6.0 x 4.0

FOR SMALL SIZES: ABA FILM PLANTS

MODEL	Nip Roller mm	Extruder A/B	L/d Ratio	Motor power (kW)	Maximum output Kg/hr	Layflat width mm	Thickness range (micron)	Die size Std. HD (mm)	Die size HD/LLD Optional (mm)	Surface Winder For Tubing Std.	Plant dimensions (L x W x H) m
F207	700	35/40 or 40/40	30	11/15 or 15/15	60-70	350-625	10-100	90	75, 125, 150	CTW-700	8.5 x 5.0 x 5.5
F209	915	40/47	30	15/22	70-80	500-850	10-100	115	90, 115, 200	CTW-915	8.5 x 5.0 x 5.5
F211	1100	40/55	30	22	100	600-1000	10-100	150	90, 115, 250	CTW-1100	9.0 x 4.5 x 5.0

Optional Features:

Rotating Die Head, Bi-Metallic Screw/Barrel, Embossing System, Drying and Conveying System, Striped Bags

Applications :

Carry Bags, Shopping Bags, T-Shirt Bags, Stationery Sheets, Sofra Napkins, Garbage Bags, etc.

MONO & ABA BLOWN FILM LINE

FOR MEDIUM SIZES: MONOLAYER FILM PLANTS & ABA PLANTS

MODEL	Nip Roller mm	Extruder	L/d Ratio	Motor power (kW)	Maximum output Kg/hr	Layflat width mm	Thickness range (micron)	Die size Std. HD (mm)	Die size HD/LLD Optional (mm)	Surface Winder For Tubing Std.	Plant dimensions (L x W x H) m	
Mono layer film plant	F113	1350	55	30	22	85	800-1270	10-60	HD-175	115, 200, 250	CTW-1350	10.0 x 6.0 x 6.0
	F114	1450	65	30	45	110	800-1380	10-80	LL-300	250, 330	KS-1450	9.5 x 7.0 x 7.5
ABA Film plants	F213	1350	40/55	30	15/22	120	800-1270	15-100	HD-175	200, 250	KSW-1350	9.0 x 6.0 x 5.0
	F214	1450	47/60	30	22/55	180	800-1380	15-100	HD-200	250, 300	KS-1450	9.5 x 7.0 x 7.5

Optional Features:

Rotating Die Head, Oscillating Haul-off, Bi-Metallic Screw/Barrel, Sheet Winders, Perforating System, Drying and Conveying System

Applications :

Shopping Bags, Laundry Bags, Stationery Sheets Liner Films for Woven Sacks, Heat Lamination Films, Garbage Bags, Bio-Waste Bags, Shrink Films, Cling Films, etc.

FOR LARGE SIZES: MONOLAYER FILM PLANTS

MODEL	Nip Roller mm	Extruder	L/d Ratio	Motor power (kW)	Maximum output Kg/hr	Layflat width mm	Thickness range (micron)	Die size Std. HD (mm)	Die size HD/LLD Optional (mm)	Surface Winder For Tubing Std.	Plant dimensions (L x W x H) m
F18	1800	60	30	55	140	1000-1700	15-100	LL-350	250, 300, 400	KS-1800	10.0 x 7.0 x 10.5
F122	2200	75	30	75	220	1500-2100	25-200	LL-500	400, 450	KS-2200	12.0 x 7.0 x 11.5
F126	2600	90	30	110	300	1800-2500	30-200	LL-600	500, 550	KS-2600	13.5 x 8.0 x 12.5
F131	3100	120	30	200	500	2000-3000	50-300	LL-700	600, 650	KS-3100	15.0 x 8.0 x 15.5

Optional Features:

Oscillating Haul-Off, Bi-Metallic Screw/Barrel, Sheet Winders, Drying and Conveying System

Applications :

Construction Films, Mattress Covers, etc.

GLOBAL PRESENCE



A KOLSITE Group Company

Kabra ExtrusionTechnik Limited

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