

# Pingaxh

engineering Pvt. Ltd.

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## EXTRUSION MACHINERY

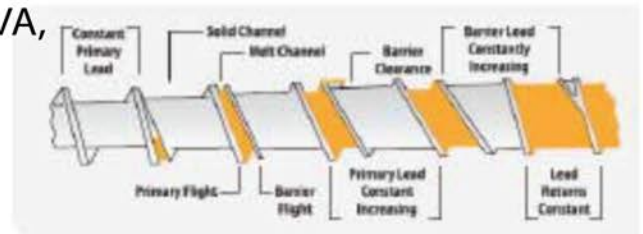
## CALIBRATION BASKETS OPTIONS

- 4 segment cage with Teflon Bush
- 9 or 12 segment scissor Type design



## BARRIER SCREW

- Barrier screw capable to process LDPE, LLDPE, HMHDPE, Poly Amid, EVA, EVOH, PP, Primacore & Surlyn
- Screws Nitrided up to 65 to 67 HRC
- High output & Uniform melt quality at low temperature
- High capacity thrust bearing for longer life
- Tungsten Carbide Coated Screw (Optional)



## AIR COOLING RINGS

- Dual lip design with high volume for excellent bubble control
- Option of imported air cooling rings from Germany/USA/Canada for further enhancing Performance.



## EXTRUDERS

- Barrier design screw
- Grooved feed design barrel for high outputs - 30 D long
- Geometries of screw and barrel feed sections to match variety of Polymers
- Fin type heaters for better control of heat
- AC drives from Europe/Japan





## OSCILLATING HAUL OFF

- ◆ For all standard lines. reversing haul off forms an integral method for gauge randomisation
- ◆ Horizontally designed take off available up to 3000 mm roller width
- ◆ Variable frequency A.C. drive for nip
- ◆ Synchronised drives
- ◆ Water cooled nips(optional)
- ◆ Slewing ring design



## COLLAPSING FRAME

- ◆ Rigid structure & longer support guides the bubble at higher output & line speed
- ◆ Operation friendly frame setting
- ◆ PBT bushes as standard
- ◆ Option of aluminum rollers available for specific application
- ◆ Option of motorised adjustment of slats



## FILM BLOWING HEADS

- ◆ Universal spiral mandrel die designs
- ◆ Stream lined flow path to ensure faster change over
- ◆ CNC machining to ensure highest precision
- ◆ All flow surfaces mirror polished to eliminate degradation of plastic melt
- ◆ A unique designed flow path to achieve higher layer ratio effectively



# ALPHA

## 3 LAYER BLOWN FILM CO-EX LINE (NON IBC)

DESCRIPTION	UNIT	3- LAYER - BLOWN FILM PLANT (NON IBC)						
		ALPHA-650	ALPHA-800	ALPHA-1000	ALPHA-1250	ALPHA-1500	ALPHA-1700	ALPHA-2200
<b>PROCESSING DATA</b>								
Film layflat width range	mm	300-650	350-800	600-1000	650-1250	900-1500	1000-1700	1400-2200
Film thickness LL/LD/HD	micron	20-150						
<b>MAXIMUM OUTPUT</b>								
HD-LD-HD/LD	Kg/hr	70-80	85-92	100-110	150-170	190-210	210-230	220-250
LLD-LLD-LLD	Kg/hr	50-60	60-70	90-110	140-160	180-200	200-220	330-240
LD-LD-LD	Kg/hr	60-80	70-90	100-120	160-180	200-220	260-280	240-260
<b>No. of Extruders</b>								
L/D Ratio		30:1	30:1	30:1	30:1	30:1	30:1	30:1
Option 1 Extruder/Screw Ø	mm	40/50/40	40/40/40	40/40/40	50/50/50	55/55/55	55/55/55	55/55/55
Option 2 Extruder/Screw Ø	mm			40/50/40	50/60/50	55/60/55	55/55/55	55/60/55
Option 1 Motor Rating	kw	7.5/15/7.5	11/11/11	11/11/11	22/22/22	30/30/30	30/30/30	30/30/30
Option 2 Motor Rating	kw			11/22/11	22/45/22	22/45/22	22/45/22	22/56/22
<b>Gauge Randomisation</b>								
Revrising Haul-off Horizontal unit		YES	YES	YES	YES	YES	YES	YES
Revrising Haul-off Vertical unit		YES	YES	YES	YES			
<b>FIXED DIE</b>								
Die lip size for	mm	260	200	250	300	350	375	425
<b>TAKE OFF</b>								
Roller width	mm	750	900	1100	1350	1600	1800	2300
Main nip motor	kw	0.75	1.5	1.5	1.5	1.5	1.5	2.2
<b>SURFACE WINDER</b>		<b>(OPTIONAL FULLY AUTO WINDER)</b>						
Type		Semi Auto	Semi Auto	Semi Auto	Semi Auto	Semi Auto	Semi Auto	Semi Auto
Roller width	mm	750	900	1100	1350	1600	1800	2300
Additional nip motor	kw	0.75	1.5	1.5	1.5	1.5	1.5	1.5
Winder drive motor	kw	0.75	1.5	1.5	1.5	1.5	1.5	1.5
Max wound diameter	mm	500	600	600	600	600	600	600
Line Speed	Mtrs/min	6-60	6-60	6-60	8-80	8-80	8-80	8-80
<b>OPERATING REQUIREMENT</b>								
Total connected load	kw	85	90	95	146	172	175	194

### OPTIONAL ATTACHMENTS:

-Hopper loader - Hopper loader with dryer-Corona treater- Lever type screen changer  
 -Air shaft-Trim suction -Heat Exchanger-Melt pressure indicator-chiller - Dotaco - Plast Control.

**Note:** The company reserves the right modify after change or substitute any specification which are subject to change without notice within this catalogue.



## SHORT NECK MAXIMISER

- Maximum Film Width = 2700 mm Double Lay Flat
- Maximum Film Output = 650 kgs/hr
- European make gear box in each Extruder (optional)
- Film Thickness Range : 20 micron to 150 micron
- Imported Cooling Ring in the standard scope
- Imported IBC control in the standard scope
- Fully Automatic two station surface winder in the standard scope
- European make Gravimetric Batch blender along with through put control (optional)
- European make Auto Film Thickness Measurement control system with Auto cooling Ring (optional)
- Option of motorised adjustment of slats
- European make Auto width measurement system (optional)



# CLOUD

## 3 LAYER BLOWN FILM CO-EX LINE (IBC)

DESCRIPTION	UNIT	3- LAYER - BLOWN FILM PLANT (IBC)						
		CLOUD-1250	CLOUD-1500	CLOUD-1700	CLOUD-1900	CLOUD-2200	CLOUD-2500	CLOUD-2700
<b>PROCESSING DATA</b>								
Film layflat width range	mm	800-1250	900-1500	1000-1700	1200-1900	1400-2200	1600-2500	1700-2700
Film thickness LL/LD/HD	micron	20-150						
<b>MAXIMUM OUTPUT</b>								
HD-LD-HD/LD	Kg/hr	270-330	300-330	310-340	350-380	500-550	500-560	600-625
LLD-LLD-LLD	Kg/hr	250-280	300-320	300-330	330-360	480-520	500-550	550-580
LD-LD-LD	Kg/hr	300-330	320-350	350-380	350-400	550-600	550-600	600-650
<b>No. of Extruders</b>								
		3	3	3	3	3	3	3
<b>L/D Ratio</b>								
		30:1	30:1	30:1	30:1	30:1	30:1	30:1
Option 1 Extruder/Screw Ø	mm	60/60/60	60/60/60	60/75/60	60/75/60	75/90/75	75/90/75	90/90/90
Option 2 Extruder/Screw Ø	mm	60/75/60	60/75/60	-	60/90/60	60/105/60	60/105/60	75/105/75
Option 1 Motor Rating	kw	56/56/56	56/56/56	56/75/56	56/75/56	75/132/75	75/132/75	112/112/112
Option 2 Motor Rating	kw	56/75/56	56/75/56		75/112/45	56/160/56	56/160/56	75/160/75
<b>Gauge Randomisation</b>								
Revsing Haul-off Horizontal unit		YES	YES	YES	YES	YES	YES	YES
Revsing Haul-off Vertical unit		YES						
<b>FIXED DIE</b>								
Die lip size for	mm	300	350	400	425	600	600	650
<b>TAKE OFF</b>								
Roller width	mm	1350	1600	1800	2000	2300	2600	2800
Main nip motor	kw	1.5	1.5	1.5	1.5	1.5	1.5	2.2
<b>SURFACE WINDER</b>		<b>(OPTIONAL FULLY AUTO WINDER)</b>						
Type		Semi Auto	Semi Auto	Semi Auto	Semi Auto	Semi Auto	Semi Auto	Semi Auto
Roller width	mm	1350	1600	1800	2000	2300	2600	2800
Additional nip motor	kw	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Winder drive motor	kw	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Max wound diameter	mm	1000	1000	1000	1000	1000	1000	1000
Line Speed	Mtrs/min	12-120	12-120	12-120	12-120	15-150	15-150	15-150
<b>OPERATING REQUIREMENT</b>								
Total connected load	kw	290	350	350	350	476	476	610

### OPTIONAL ATTACHMENTS:

- Hopper loader - Hopper loader with dryer-Corona treater- Lever type screen changer
- Air shaft-Trim suction -Heat Exchanger-Melt pressure indicator-chiller - Dotaco - Plast Control.

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# SPARK

## 5 LAYER BLOWN FILM CO-EX LINE

DESCRIPTION	UNIT	5 - LAYER IBC PLANT					
		SPARK - 1500		SPARK - 2200		SPARK - 2500	
<b>PROCESSING DATA</b>				PE	PA/EVOH	PE	PA/EVOH
Film layflat width range	mm	1050-1500		Uptp-2200	Uptp-1750	Upto-2500	Upto-2050
Film thickness LL/LD/HD	micron	20-150		25-150	30-150	25-150	30-150
Film thickness Range PA	micron	50-150		50-150	50-150	50-150	50-150
<b>MAXIMUM OUTPUT</b>							
HD-LD-HD/LD-Tie-PA or EVOH - Tie - LD*	Kg/hr	270-330		310-340		500-550	
LLD-LLD-LLD	Kg/hr	250-280		300-330		480-520	
LD-LD-LD	Kg/hr	300-330		350-380		550-600	
No. of Extruders		5		5		5	
Screw dia	mm	60G/50/60/60G		75G/60/60/60/75G		75G/65/65/65/75G	
Extruder Motor Rating	kw	56/15/30/15/56		75/30/30/30/75		75/30/30/30/75	
Thickness Randomisation		OSCILLATING HAUL OFF HORIZONTAL					
<b>DIE</b>							
No. of Film Layers		5		5		5	
Die Lip Size (HM) / (LL/LD)		400		500		500	
<b>TAKE OFF</b>							
Roller Width	mm	1600		2350		2650	
Main Nip Motor	mm	2.6		2.6		2.6	
		TWO STATION SURFACE WINDER					
Type		Automatic		Automatic		Automatic	
Roller width	mm	1600		2350		2680	
Additional nip motor	kW	2.6		2.6		2.6	
Winder drive motor	kW	2.6		2.6		2.6	
Max wound diameter	mm	1000		1000		1000	
Line Speed	Mtrs/min	8-80		8-80		12-120	
<b>OPERATING REQUIREMENT</b>							
Total Connected Load	kW	345		395		405	

### OPTIONAL ATTACHMENTS:

-Hopper loader - Hopper loader with dryer-Corona treater- Lever type screen changer  
 -Air shaft-Trim suction -Heat Exchanger-Melt pressure indicator-chiller - Dotaco - Plast Control.

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# PING

DESCRIPTION	UNIT	7 - LAYER IBC PLANT	
		PING-1500	PING-2500
<b>PROCESSING DATA</b>			
Film layflat width range	mm	900-1500	1600-2500
Film thickness LL/LD/HD	micron	20-150	25-150
Film thickness Range PA	micron	50-150	50-150
<b>MAXIMUM OUTPUT</b>			
HD-LD-HD/LD-Tie-PA or EVOH - Tie - LD*	Kg/hr	180-200	395-405
LLD-LLD-LLD	Kg/hr	170-190	435-465
LD-LD-LD	Kg/hr	180-200	450-500
<b>No. of Extruders</b>			
		7	7
Screw dia	mm	55/50/55/55/55/50/55	65/60/55/55/55/60/65
Extruder Motor Rating	kw	22/22/22/22/22/22/22	56/30/22/22/22/30/56
<b>Thickness Randomisation</b>			
		<b>OSCILLATING HAUL OFF HORIZONTAL</b>	
<b>DIE</b>			
No. of Film Layers		7	7
Die Lip Size (HM) / (LL/LD)		400	600
<b>TAKE OFF</b>			
Roller Width	mm	1600	2650
Main Nip Motor	mm	1.5	2.6
<b>Type</b>			
		Automatic	Automatic
Roller width	mm	1600	2650
Additional nip motor	kW	2.6	2.6
Winder drive motor	kW	2.6	2.6
Max wound diameter	mm	1000	1000
Line Speed	Mtrs/min	8-80	12-120
<b>OPERATING REQUIREMENT</b>			
Total Connected Load	kW	310	470

### OPTIONAL ATTACHMENTS:

-Hopper loader - Hopper loader with dryer-Corona treater- Lever type screen changer  
 -Air shaft-Trim suction -Heat Exchanger-Melt pressure indicator-chiller - Dotaco - Plast Control.

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# PA3FP

## MODEL FOR ABA

DESCRIPTION	UNIT	ABA TYPE 3 - LAYER - BLOWN FILM PLANT						
		PA3FP-650	PA3FP-800	PA3FP-1000	PA3FP-1250	PA3FP-1500	PA3FP-1700	PA3FP-2500
<b>PROCESSING DATA</b>								
Film layflat width range	mm	300-650	350-800	500-1000	650-1250	900-1500	1000-1700	1400-2500
Film thickness LL/LD/HD	micron	8-150						
<b>MAXIMUM OUTPUT</b>								
HDPE	Kg/hr	65-70	75-85	90-100	110-130	120-150	150-170	200-225
LLD	Kg/hr	60-65	65-75	80-90	100-120	110-130	140-150	190-215
LD	Kg/hr	60-62	70-75	85-90	105-120	115-125	145-155	195-220
No. of Extruders		2	2	2	2	2	2	2
L/D Ratio		30:1	30:1	30:1	30:1	30:1	30:1	30:1
Extruder/Screw Ø	mm	35/45	40/50	40/50	50/60	55/65	60/65	60/75
Motor Rating	kW	7.46/15	11/30	11/30	30/56	37/56	56/56	56/56
<b>Gauge Randomisation</b>								
Revsing Haul-off Horizontal unit		YES	YES	YES	YES	YES	YES	YES
Revsing Haul-off Vertical unit		YES	YES	YES	YES	YES	YES	YES
Fix		YES	YES	YES	YES	YES	YES	YES
Take of Nip Up Down		YES	YES	YES	YES	NA	NA	NA
<b>FIXED DIE</b>								
Die lip size for HDPE	mm	90	110	150	175			
Die lip size for LD/LL	mm	150	200	250	300	350	400	600
<b>TAKE OFF</b>								
Roller width	mm	750	900	1100	1350	1600	1800	2300
Main nip motor	kw	0.75	1.5	1.5	2.2	2.2	3.75	3.75
<b>SURFACE WINDER (OPTIONAL FULLY AUTO WINDER)</b>								
Type		Semi Auto	Semi Auto	Semi Auto	Semi Auto	Semi Auto	Semi Auto	Semi Auto
Roller width	mm	750	900	1100	1350	1600	1800	2600
Additional nip motor	kw	0.75	1.5	1.5	1.5	1.5	1.5	1.5
Winder drive motor	kw	0.75	1.5	1.5	1.5	1.5	1.5	1.5
Max wound diameter	mm	500	600	600	600	600	600	600
Line Speed	Mtrs/min	8-80	8-80	8-80	8-80	8-80	8-80	8-80
Option of Single station or double station								
<b>OPERATING REQUIREMENT</b>								
Total connected load	kw	62	85	105	135	145	155	240

### OPTIONAL ATTACHMENTS:

-Hopper loader - Hopper loader with dryer-Corona treater- Lever type screen changer  
 -Air shaft-Trim suction -Heat Exchanger-Melt pressure indicator-chiller - Dotaco - Plast Control.

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# PPTQ

## MODEL FOR PPTQ

DESCRIPTION	UNIT	MONO LAYER PPTQ BLOWN FILM PLANT			
		PPTQ-350	PPTQ-650	PPTQ-750	PPTQ-1000
<b>PROCESSING DATA</b>					
Film layflat width range	mm	150-350	200-650	250-750	650-1000
Film thickness	micron	20-60			
<b>MAXIMUM OUTPUT</b>					
PP	Kg/hr	65-70	75-85	90-100	110-130
No. of Extruders		2	2	2	2
L/D Ratio		30:1	30:1	30:1	30:1
Extruder/Screw Ø	mm	35/45	40/50	40/50	50/60
Motor Rating	kW	7.46/15	11/30	11/30	30/56
Gauge Randomisation	<b>BY ROTARY DIE (OPTIONAL)</b>				
Fixed Die	<b>(OPTION OF ROTARY DIE)</b>				
Die lip size	mm	120	220	250	350
<b>TAKE OFF</b>					
Roller width	mm	450	750	850	1100
Main nip motor	kW	0.75	0.75	0.75	0.75
Tween die unit with take off		YES	YES	YES	YES
<b>SURFACE WINDER</b>					
Type		Semi Auto	Semi Auto	Semi Auto	Semi Auto
Roller width	mm	450	750	850	1100
Additional nip motor	kW	0.75	0.75	0.75	0.75
Winder drive motor	kW	0.75	0.75	0.75	0.75
Max wound diameter	mm	500	600	600	600
Line speed	mtr/min	8-60	8-60	12-60	12-60
<b>OPTION OF SINGLE STATION OR DOUBLE STATION</b>					
<b>OPERATING REQUIREMENT</b>					
Total connected load	kW	42	48	48	96

### OPTIONAL ATTACHMENTS:

-Hopper loader - Hopper loader with dryer-Corona treater- Lever type screen changer  
 -Air shaft-Trim suction -Heat Exchanger-Melt pressure indicator-chiller - Dotaco - Plast Control.

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# PMFP

## MODEL FOR MONOLAYER

DESCRIPTION	UNIT	MONO LAYER - BLOWN FILM PLANT						
		PMFP-650	PMFP-800	PMFP-1000	PMFP-1250	PMFP-1500	PMFP-1700	PMFP-2500
<b>PROCESSING DATA</b>								
Film layflat width range	mm	300-650	350-800	500-1000	650-1250	900-1500	1000-1700	1600-2500
Film thickness LL/LD/HD	micron	8-150						
<b>MAXIMUM OUTPUT</b>								
HDPE	Kg/hr	40-45	75-85	100-120	120-140	120-140	130-150	240-260
LLD	Kg/hr	25-28	50-55	70-90	80-100	80-100	90-110	200-240
LD	Kg/hr	28-32	65-75	80-100	100-120	100-120	110-130	250-280
<b>No. of Extruders</b>								
		1	1	1	1	1	1	1
<b>L/D Ratio</b>								
		30:1	30:1	30:1	30:1	30:1	30:1	30:1
<b>Extruder/Screw Ø</b>								
	mm	45	50	55	60	60	60	90
<b>Motor Rating</b>								
	kw	11	30	37	56	56	56	132
<b>Gauge Randomisation</b>								
		BY ROTARY DIE (OPTIONAL)						
<b>FIXED DIE</b>								
		(OPTIONA ROTARY DIE)						
<b>Die lip size for HDPE</b>								
	mm	90	110	150	175			
<b>Die lip size for LD/LL</b>								
	mm	150	200	250	300	350	400	600
<b>TAKE OFF</b>								
<b>Take of Nip Up Down</b>								
		YES	YES	YES	YES	NA	NA	NA
<b>Roller width</b>								
		750	900	1100	1350	1600	1800	2600
<b>Main nip motor</b>								
	mm	0.75	1.5	1.5	2.2	2.2	3.75	3.75
<b>SURFACE WINDER</b>								
		(OPTIONAL FULLY AUTO WINDER)						
<b>Type</b>								
		Semi Auto	Semi Auto	Semi Auto	Semi Auto	Semi Auto	Semi Auto	Semi Auto
<b>Roller width</b>								
	mm	750	900	1100	1350	1600	1800	2600
<b>Additional nip motor</b>								
	kW	0.75	1.5	1.5	1.5	1.5	1.5	1.5
<b>Winder drive motor</b>								
	kW	0.75	1.5	1.5	1.5	1.5	1.5	1.5
<b>Max wound diameter</b>								
	mm	500	600	600	600	600	600	600
<b>Line Speed</b>								
	Mtrs/min	8-80	8-80	8-80	8-80	8-80	8-80	8-80
<b>OPTION OF SINGLE STATION OR DOUBLE STATION</b>								
<b>OPERATING REQUIREMENT</b>								
<b>Total connected load</b>								
	kw	32	72	83	112	120	125	210

### OPTIONAL ATTACHMENTS:

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 -Air shaft-Trim suction -Heat Exchanger-Melt pressure indicator-chiller - Dotaco - Plast Control.

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