

# HP-TL-ABA (SERIES)

# HYPLAS<sup>®</sup>

PLASTIC BAG CONVERTING MACHINERY

*"We keep you first and keep you ahead"*

**HYPLAS<sup>®</sup>**  
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## Three Layer (ABA) HDPE High Speed Co-Extrusion Film Blowing Machines

# HP-TL-ABA (SERIES)

## Machine Technical Specification

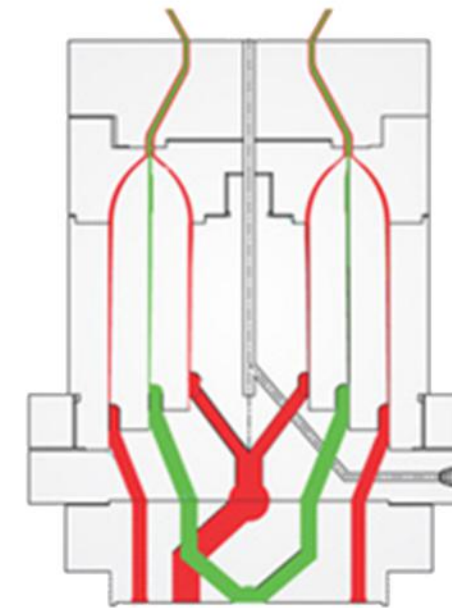
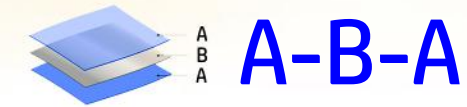
MODEL	HP-45/45TL(ABA)-800	HP-45/45TL(ABA)-1150	HP-45/55TL(ABA)-1400
SUITABLE MATERIAL	HDPE, CaCO3, RECYCLED	HDPE, CaCO3, RECYCLED	HDPE, CaCO3, RECYCLED
FILM THICKNESS	0.010 ~ 0.080mm	0.010 ~ 0.080mm	0.010 ~ 0.080mm
MAX. FILM OUTPUT	70-80 kg/hr	80-90 kg/hr	110-120 kg/hr
MAX. FILM WIDTH	700mm	1000mm	1200mm
<b>EXTRUDER UNIT</b>			
SCREW DIAMETER	45mm x 2 sets	45mm x 2 sets	45mm x 1 set, 55mm x 1 set
HEATING CAPACITY	16kw	16kw	19kw
SCREW L:D RATIO	30:1	30:1	30:1
DRIVING MOTOR	AC 25HP x 2	AC 25 HP x 2	AC 25 HP x 1, AC 40 HP X 1
AUTO THERMO CONTROL	6 Zones	6 Zones	6 Zones
BARREL COOLING	1/4 HP x 2 (2)	1/4 HP x 2 (2)	1/4 HP x 2 (2)
<b>DIE UNIT</b>			
DIE DIAMETER	80mm	100mm	120mm
AIR RING DIAMETER	120mm (Dual Lip)	130mm (Dual Lip)	150mm (Dual Lip)
HEATING CAPACITY	10 kw	11 kw	12 kw
AUTO THERMO CONTROL	4 Zones	4 Zones	4 Zones
COOLING BLOWER	AC 5 HP + INVERTER	AC 5 HP + INVERTER	AC 7.5 HP + INVERTER
<b>TAKE UP UNIT</b>			
TAKE UP ROLER WIDTH	800mm	1150mm	1400mm
EFFECTIVE WIDTH	700mm	1000mm	1200mm
TAKE UP MOTOR	AC 1 HP	AC 1 HP	AC 2 HP
MAX. TAKE UP SPEED	100-120 m/min	100-120 m/min	100-120 m/min
<b>WINDING UNIT</b>			
ROLLER WIDTH	800mm	1150mm	1400mm
EFFECTIVE WIDTH	700mm	1000mm	1200mm
WINDING MOTOR	AC 1 HP + INV x 2 sets	AC 1 HP + INV x 2 sets	AC 2 HP + INV x 2 sets

### OPTIONAL ATTACHMENTS

- |                                      |  |
|--------------------------------------|--|
| 1. AUTOMATIC HOPPER LOADER           | 8. ROTARY DIE UNIT                             |
| 2. MANUAL / HYDRAULIC SCREEN CHANGER | 9. EMBOSING ROLLER                             |
| 3. BACK TO BACK WINDER               | 10. SURFACE TREATMENT UNIT                     |
| 4. HEAT SLITTING DEVICE              | 11. AIR SHAFT FOR WINDER                       |
| 5. COLD SLITTING KNIFE               | 12. STATIC ELIMINATOR                          |
| 6. SIDE OPENING KNIFE                | 13. SEMI AUTO (FLY KNIFE) ROLL CHANGING SYSTEM |
| 7. WASTE FILM COLLECTOR              | 14. INLINE LOGO PRINTER                        |

\* MACHINE'S SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE  
 \* FILM OUTPUT IS DEPENDING ON THE FILM SIZE, THICKNESS & MATERIAL.

## THREE LAYER (ABA) CO-EXTRUSION FILM BLOWING MACHINES



The A-B-A blown film machine consists of two extruders. In the A-A outer layer, normally 20% of CaCO<sub>3</sub> is used, with some additional of color masterbatch, LLDPE and a larger percentage of HDPE. The B layer can be used with larger percentage of CaCO<sub>3</sub> with HDPE raw material. In-house recycled pellets can also be used to the mixture.

Besides reducing a significant amount of raw material used in the formula, another advantage of the ABA machine is that the 3 layer film that it produces is 30% stronger than film produced by a mono layer extruder.

The ABA machine is also much more economic comparing to an ABC three layer machine as it has one extruder less.

*ABA Three Layer Blown Film Machine -- 30% Stronger Film, 50% Cost Saving, 100% Recycled Material Used*

### WHY A-B-A ?

- Allows to produce three layer film by using maximum % of recycled & calcium filled materials in middle (B) layer and virgin material in outer skin (A) layers
- Produce three layer films with higher resistance & better quality with significant reduced raw material cost
- Deliver higher profitability with higher output with lower power consumption
- Quick & maximize return on investment