



HAO YU

Since 1980

HE Series **PP/HDPE**

**HIGH SPEED
FLAT YARN EXTRUSION LINE**

HAO YU Precision Machinery Industry Co., Ltd.
www.hao-yu.com.tw



HAO YU Precision Machinery Industry Co., Ltd. is a special and professional manufacturer of PP and PE woven bag machinery and whole-plant equipment. Since its establishment 1980, HAO YU has been dedicated to the research and development of high performance machinery. Our dedication to continuous research and development is the reason for the excellence of HAO YU machines. Our objective is to enhance our present machinery and develop new models that improve the efficiency, product quality and profitability for our customers.

From the beginning, HAO YU has focused its energy on the development of advanced woven bag making machines, incorporating the latest ideas in technology. HAO YU machines have been supplied to over 70 countries and have received the full satisfaction of our customers. This level of dependability is achieved through outstanding engineering efficiency, continuous research & development, and rigorous quality control, combined with our strong commitment to customer services. In addition, our engineering ability has earned us "The 3rd R.O.C. Golden Dragon Award" and "Taipei Plast 2008 - Best Design Award". However we never stop improving our technology. The future and continuous success of HAO YU depends upon further servicing our customers with high quality machines that fully meet their requirements.



PP/HDPE

HIGH SPEED FLAT YARN EXTRUSION LINE

More than 32 years experience in woven bag equipment field, Hao Yu is pleased to present the most advance PP/HDPE fla yarn extrusion line in Taiwan, which offer outstanding features.



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PP/HDPE

OVERALL VIEW

◆◆ The Flat Yarn Can Be Used For Leno Bag, Woven Bag, Cement Bag, Jumbo Bag, Geotextile, Twine, Rope Industries, Etc...

HIGH SPEED FLAT YARN EXTRUSION LINE

WINDING UNIT



Magnetic disk tension control >>

<< Electronically controlled yarn tension

Heavy duty type >>



T-DIE
Adjustable Die Gap >>

<< H.M.I. CONTROL
Optional

FIBRILLATOR >>
Tape fibrillation device
Optional

The extrusion machine is designed for producing PP/HDPE raffia tape. Capacity is 160-520 kg/hr, and the unit is equipped with a belt type screen filter changer and rotary type tape slitting unit for none-stop operation. The machine features low energy consumption, less down time and reduces production loss. The pressure rollers of the equipment are pneumatic controlled, and have one-step synchronize control electronic system. The machine can incorporate with European-made gearbox, T-die, melt pump, tape winder upon customer's special requirements.



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One Stop Solution for...



Jumbo bags



PP/HDPE woven bags



PP woven fabric inner liner inside laminated bags



Laminated Valve Bag



PP/HDPE woven cement bags



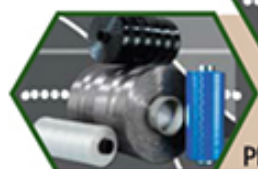
Tarpaulin



Onion bags



PP/HDPE Twine



PP Raffia Tape , HDPE Raffia Tape



EXTRUDER

HY7/SP-80HE	HY7/SP-90HE	HY7/SP-100HE
HY7/SP-110HE	HY7/SP-120HE	

- ❶ The screw and barrel are manufactured from SCM-1 alloy steel, nitrogen treated and precision ground.
- ❷ Gears inside the gearbox are precision ground for noise-free running. Equipped with a water cooling system for cooling the oil of the gearbox.
- ❸ Built with auto loader and patent design material force feeding unit.
- ❹ Choice of AC or DC motor drive.
- ❺ Low energy consumption.



ROTARY SLITTING BLADES

- ❶ Constructed with single row slitting blade for fast & easy replacement.
- ❷ The slitting width is adjustable.
- ❸ Full pneumatic operation for convenience.
- ❹ Fitted with edge trim auto - recycle unit.



STRETCHING UNIT

- ❶ Two stages hot air circulation system ensures raffia tape proper stretched.
- ❷ Air flow volume is adjustable.
- ❸ Air flow orientation design



TAKE OFF UNIT

- ❶ Exclusive 2 independent driving motors provide raffia tape with superior quality.
- ❷ Static electricity elimination provided.
- ❸ Waste yarn collection box for reclaiming is provided.



Optional equipment

- ❶ Touchscreen interface.
- ❷ Chiller.
- ❸ Air conditioning unit for electrical cabinet.
- ❹ Static mixer unit.
- ❺ Dosing system.
- ❻ Tape fibrillation device.
- ❼ 6 rows slitting blade unit available upon special request.
- ❽ Plastic melt pump.



OPTION

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Dedication to Quality Ensures Reliable Performance...

SPECIFICATIONS: HY7/SP-80HE HY7/SP-90HE HY7/SP-100HE HY7/SP-110HE HY7/SP-120HE

EXTRUDER

Screw diameter	80 mm	90 mm	100 mm	110 mm	125 mm
Screw L/D	30/1	30/1	30/1	30/1	30/1
Screw material	SCM-1	SCM-1	SCM-1	SCM-1	SCM-1
Cylinder material	SCM-1	SCM-1	SCM-1	SCM-1	SCM-1
Maximum PP melting output	160 kg/h	220 kg/h	300 kg/h	420 kg/h	520 kg/h
Maximum HDPE melting output	120 kg/h	170 kg/h	240 kg/h	320 kg/h	410 kg/h

T-DIE

T die width	650 mm	900 mm	1150 mm	1350 mm	1700 mm
Film width	550 mm	800 mm	1050 mm	1250 mm	1600 mm
Number of flat yarn	Upto 110 pcs	Upto 150 pcs	Upto 200 pcs	Upto 240 pcs	Upto 310 pcs
Die gap application	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable

CONTROL PANEL

Type	Single type controller box	Single type controller box	Single type controller box	Single type controller box	Single type controller box
Temperature controller	10 zones	12 zones	14 zones	15 zones	17 zones

COOLING DEVICE

Cooling method	Water circulation	Water circulation	Water circulation	Water circulation	Water circulation
Quench system	Water bath system	Water bath system	Water bath system	Water bath system	Water bath system

TAKE-OFF UNIT A

Take off roller	Ø 190 x 700mm x 2pcs	Ø 190 x 950mm x 2pcs	Ø 190 x 1200mm x 2pcs	Ø 190 x 1400mm x 2pcs	Ø 190 x 1700mm x 2pcs
Powerful water suction unit	Equipped	Equipped	Equipped	Equipped	Equipped
Three wheel type stretching unit					
a) Edge trim auto recycle unit	1 set	1 set	1 set	1 set	1 set
b) Press roller	Ø190 x 700mm x 3pcs	Ø190 x 950mm x 3pcs	Ø190 x 1200mm x 3pcs	Ø190 x 1400mm x 3pcs	Ø190 x 1700mm x 3pcs
c) Included 1 pc of rubber pressing roller					
R. P. M. Display	0 - 60 m/min	0 - 60 m/min	0 - 60 m/min	0 - 60 m/min	0 - 60 m/min
Rotary tape slitting unit	Equipped	Equipped	Equipped	Equipped	Equipped
Edge trim auto recycle unit	Equipped	Equipped	Equipped	Equipped	Equipped

STRETCHING DEVICE

Type	Oven (Hot air circulation)	Oven (Hot air circulation)	Oven (Hot air circulation)	Oven (Hot air circulation)	Oven (Hot air circulation)
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TAKE-OFF UNIT B

AND ANNEALING

(Relaxation)

Take off godet	7 pcs	7 pcs	7 pcs	7 pcs	7 pcs
Pneumatic type press roller	1 PC	1 PC	1 PC	1 PC	1 PC
a) First 4 stretching godets					
including Heating plate	1 set	1 set	1 set	1 set	1 set
b) Last 3 annealing godets					
including Chill roller	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs
R.P.M. display	0 - 320 m/min	0 - 320 m/min	0 - 320 m/min	0 - 320 m/min	0 - 320 m/min
Static electricity eliminator	Equipped	Equipped	Equipped	Equipped	Equipped
Waste yarn collector	Equipped	Equipped	Equipped	Equipped	Equipped

WINDING MACHINE

(With Synchronized Control)

Number of winder	110 pcs	150 pcs	200 pcs	240 pcs	310 pcs
Flat yarn wind-up roll	Ø150 x 200 mm (L)	Ø150 x 200 mm (L)	Ø150 x 200 mm (L)	Ø160 x 200 mm (L)	Ø150 x 200 mm (L)
Maximum mechanical winding speed	320 m/min	320 m/min	320 m/min	320 m/min	320 m/min

GENERAL

Tape line speed	270 m/min	270 m/min	270 m/min	270 m/min	270 m/min
Denier application	500 - 1500	500 - 1500	500 - 1500	500 - 1500	500 - 1500
Total start-up power	250 HP	310 HP	390 HP	410 HP	480 HP

Design and specifications are subject to change without prior notice.



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