



ASPIRATORS YARN SUCTION GUNS

Wide range of standard and custom built high performance, low consumption string up & doffing suction (compressed air used to develop suction, not dependent on external vacuum system for same) devices for spinning of mono / multi filament / tape yarns / BCF / Staple fibres in PET - PP - PA / Nylon - etc.

Superior Mechanical Design with Elegant Aesthetics - Standard metallic or special plastic thread guide holder with ceramic insert - Quarter turn rotation sleek ball valve for smooth & quick operation - Standard special plastic protective sleeve on suction pipe offering protection against possible physical contact with mating metallic parts while threading, handling, etc.

Standard high speed range capable of sucking yarn up to 4,000 Mtrs / min even at low pressure of 6 bar at the inlet of the Gun.

Modified versions with suffix "M" having typical air nozzle configuration offers approx 20% more yarn tension, Capable of handling yarn speeds up to 5,400 Mtrs / min requiring higher air pressures.

Easy Trouble Free Maintenance - All threaded joints have 'O' Ring seals eliminating need to apply adhesives for sealing, enabling dismantling & assembly several times without damaging threads / parts. All individual spares & dismantling tool available.

HIGH SPEED RANGE - For POY Applications

- Air Pressure** : 6 to 18 bar (kg/cm²). For standard high speed range recommended at least 6 bar at the gun. For higher efficiency & hose length more than 5 mtrs., Increased pressure will be necessary, obviously leading to Higher air consumption.
Normal Air consumption : 165 to 240 (depending on model) Nm³/hr at 6 bar
- Air Connection** : 3/4" Ball Valve.
Inlet Pipe - 20 mm I/D Hose. Outlet (Waste) Pipe - 30 mm I/D Hose.
- Overall Length** : Approx. 425 mm.
- Weight** : 0.9 - 1.05 Kgs, depending on model with protective sleeve on suction pipe.

Model : AEC - 500

- Denier Range : 2,000 Dtex Total.
Yarn Speed : 4,800 Mtrs / Min.
Suction Pipe : 5 mm I/D.

Model : AEC - 750

- Denier Range : 4,000 Dtex Total.
Yarn Speed : 4,000 Mtrs / Min.
Suction Pipe : 7 mm I/D.

Model : AEC - 1000

- Denier Range : 10,000 Dtex Total.
Yarn Speed : 3,700 Mtrs / Min.
Suction Pipe : 10 mm I/D.

Model : AEC - 1250

- Denier Range : 12,000 Dtex Total.
Yarn Speed : 3,500 Mtrs / Min.
Suction Pipe : 12 mm I/D.



**DETACHABLE
EXTRA SUCTION ATTACHMENT**
For catching threads in the
traverse range of Take-up.

**SPECIAL LOW CONSUMPTION VERSIONS WITH MODIFICATIONS IN VALVE SIZE & INLET PIPE CONFIGURATION
AVAILABLE SUITABLE FOR STANDARD 20 MM ID HOSE OR SMALLER ID HOSE.**

MODIFIED CONFIGURATION HIGH SPEED RANGE - For FDY Applications

Offers approx. 20% more yarn tension than standard high speed range
Can handle Yarn Speeds upto 6,000 m/m requiring higher operating pressures

Model : AEC - 500 M

Denier Range : 2,000 Dtex Total.
Yarn Speed : 5,400 Mtrs / Min.
Suction Pipe : 5 mm I/D.

Model : AEC - 1000 M

Denier Range : 10,000 Dtex Total.
Yarn Speed : 4,800 Mtrs / Min.
Suction Pipe : 10 mm I/D.

Model : AEC - 750 M

Denier Range : 4,000 Dtex Total.
Yarn Speed : 5,400 Mtrs / Min.
Suction Pipe : 7 mm I/D.

Model : AEC - 1250 M

Denier Range : 12,000 Dtex Total.
Yarn Speed : 4,200 Mtrs / Min.
Suction Pipe : 12 mm I/D.



ULTRA HIGH SPEED RANGE - For POY / FDY Applications

Ultra High Speed Spinning with take-up speeds 8000 Mtrs/Min & more of mono & multi filament yarns, requiring higher suction power (higher operating pressures), simultaneous threading up to 12 ends / take-up or more. Does not loose yarn tension even at extreme take-up speeds. BCF, Staple fibres, etc.

Air Pressure : 6 to 18 bar (kg/cm²)

Air Consumption : 360 Nm³/hr at 8 bar

Air Connection : 1" Ball Valve.

Inlet Pipe - 25 mm or 3/4" I/D Hose with 1" BSP male threaded end connector.

Outlet (Waste) Pipe - 32 mm O/D.

- **OPTIONAL** Waste Pipe - 38.1 mm O/D. This increases velocity of air currents within the nozzle resulting in smooth & higher suction performance, as desired in specific applications.
- **OPTIONAL** Off-set Adaptor for Valve, facilitates accommodating larger hose, on enlarged waste pipe as above, for specific applications.

Weight : 1.2-1.35 Kgs, depending on model with protective sleeve on suction pipe.
Over all length : Approx. 414 mm

Model : AEC - 500 U

Denier Range : 2,000 Dtex Total.
Yarn Speed : 8,000 Mtrs / Min.
Suction Pipe : 5 mm I/D.

Model : AEC - 1000 U

Denier Range : 10,000 Dtex Total.
Yarn Speed : 7,200 Mtrs / Min.
Suction Pipe : 10 mm I/D.

Model : AEC - 750 U

Denier Range : 4,000 Dtex Total.
Yarn Speed : 7,500 Mtrs / Min.
Suction Pipe : 7 mm I/D.

Model : AEC - 1250 U

Denier Range : 12,000 Dtex Total.
Yarn Speed : 6,900 Mtrs / Min.
Suction Pipe : 12 mm I/D.



SPECIAL MODEL

Model : AEC - 1200-M

Denier Range : Upto 50,000 Dtex
Air Connection : 3/4" Valve (Built in)
Suction Pipe : 12.5 mm I/D.
Air Pressure : 9 to 15 kg/Cm²
Inlet Pipe - 20 mm I/D Hose.
Outlet (Waste) Pipe - 30 mm I/D Hose.



Modified special model for staple fibre tow & bulky carpet or heavy industrial yarn applications.

A funnel shaped tip can be provided for ease in catching or pick up of yarn bulk / yarn ends.

HEAVY DUTY SPECIAL MODELS

AEC - 1800 U - For PSF Applications

SPECIAL MODELS with truly majestic performance. Aspirator (Yarn Suction) Guns for customized applications.

- Specially made for spinning applications requiring high suction power such as - staple fibre, advanced craft winders, ultra high speed spinning & winding - stringing up bulky multi filament yarn & heavy industrial yarns, BCF, mono filament yarns of heavy denier, etc.
- Creates excellent yarn tension & necessary spin due to specially configured internals. As such they will not be ideal or suitable for low speed spinning applications.
- Its funnel shaped metallic suction nozzle ensures total collection of all ends of bulky yarn/staple fibre, very efficiently & effectively. Metallic machined cylindrical suction nozzle also available.
- Successfully tested & established for extreme applications, in spinning of multiple end high Bulk yarns & very high operating pressures.

Denier Range : 20,000 Dtex or even more. It is to be noted that many factors & operating conditions like type of polymer, involved bulk, yarn speed, operating pressure at the gun, operators efficiency, etc, greatly influence or limit the performance. Yarn Speed - 4,800 Mtrs/Min.

Ultra High Speed Series Modified Special Models

Outlet (**Waste**) Pipe - **38.1 mm O/D**. This increases velocity of air currents within the nozzle resulting in smooth & higher suction performance.

Off-set Adaptor for Valve - Facilitates accommodating larger hose, on enlarged waste pipe as above, as required in certain applications.



STATIC ASPIRATORS - Also For Bobbin Stripping

Stationary non - twisting suction of ends on multi filament yarn spinning machines, below the duct. or equipment for automatic suction of broken filaments or for stripping few layers of yarn from bobbins while packing.

Type : AEC - 100 (Over all size: 50 x 150 mm)

Inlet	:	3/4" BSP Connection
Outlet	:	28 mm ID hose
Air Consumption	:	120 Nm /hr at 6 bar.

Type : AEC - 110 (Over all size: 63 x 120 x 30 mm)

Inlet	:	12 mm OD plastic pipe
Outlet	:	20 mm ID hose
Air Consumption	:	90 Nm /hr at 6 bar.

Type : AEC - 120 (Over all size: 75 x 60 x 32 mm)

Inlet	:	12 mm OD plastic pipe
Outlet	:	20 mm ID hose
Air Consumption	:	60 to 75 Nm /hr at 6 bar.

Type : AEC - 140



LOW SPEED ASPIRATOR GUNS

Low speed conventional spinning, **Non Twisting Suction** applications such as Flat Fibre / Tape Yarns / PSF - Non fibrillated or fibrillated tapes. Using different suction pipe profiles can be used on Zinser & Rieter draw winders, Barmag FK6 texturiser, Scragg draw texturiser, etc.

Model : AEC - LS 250 (Non Twisting)

Denier Range	: 2,500 Dtex Total.
Yarn Speed	: 2,400 Mtrs/Min Max.
Air Pressure	: 4 to 8 Bar (kg/cm ²).
Air Consumption	: 120 Nm ³ /hr at 6 bar.
Air Connection	: 1/2" Ball Valve. Inlet Pipe - 12 mm I/D Hose. Outlet (Waste) Pipe - 18 mm I/D Hose.
Suction Pipe	: 5 mm or 7 mm I/D.
Weight	: 0.750 Kg (with standard straight suction pipe & protective sleeve). Smaller, compact cast aluminium body Overall size 365 x 62 x 32 mm

AEC - LS 251	: ZINSER DRAW WINDER
AEC - LS 252	: BARMAG FK6 DRAW TEXTURISER
AEC - LS 253	: SCRAGG SDS700 DRAW TEXTURISER

Model : AEC - LS 1000 / 1500 (Non Twisting) Heavy duty

Denier Range	: 10,000 to 60,000 Dtex or more
Yarn Speed	: 2,400 Mtrs/Min Max.
Air Pressure	: 4 to 8 Bar (kg/cm ²).
Air Consumption	: 210 Nm ³ /hr at 6 bar.
Air Connection	: 3/4" Ball Valve. Inlet Pipe - 20 mm I/D Hose. Outlet Pipe - 30 mm I/D Hose

Model : AEC- 300 & D - series Models

Low speed suction device useful for medium or low denier conventional spinning, air texturing, non twisting suction applications. With modifications of suction pipe suitable for Barmag Fk6 texturisers, S12 crimper & draw texturisers.

Denier Range	: 1,500 Dtex Total.
Yarn Speed	: 2,000 Mtrs/Min Max.
Air Pressure	: 4 to 8 bar (kg/cm ²).
Air Consumption	: 60 Nm ³ /hr at 6 bar.
Air Connection	: 3/8" Ball valve. Inlet Pipe - 12 mm I/D Hose. Outlet (Waste) Pipe - 18 mm I/D Hose
Suction Pipe	: 5 mm I/D.
Weight	: 0.660 kg (with standard straight suction pipe) Flat triangular C. I. / body. Overall size - 420 x 70 x 20 mm

Extended odd suction tube profiles for texturing applications

AEC - 310 D	: BARMAG FK6 - 600
AEC - 311/312 D	: BARMAG FK6 - 700
AEC - 313 D	: BARMAG FK6 - 900
AEC - 315 D	: BARMAG FK6 - 999
330 D	: BARMAG FK6- S12 (CRIMPING)



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