



# APEX EMIRATES GENERAL TRADING CO. L.L.C

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APEX PUMPS & ENGINE



## COMPANY INTRODUCTION

Apex Emirates General Trading Co.LLC was established in 1993 and since we have been striving to provide all our customer's construction needs. We proudly worked with various leading Contracting Companies in the fields of building construction, pile foundation, dewatering, ground engineering, pre stressing and post tensioning in the UAE. Being one of the top importers, our products are all bought to you from Germany, United Kingdom, France, Switzerland, Spain, Italy, Malaysia, Taiwan, China, and India.

We have a vast network of suppliers with high quality goods, to ensure we provide the best to our large number of satisfied customers. Through our established supplier's network, we offer the widest range of construction products in the region. Apex emirates general trading has a complete solution for dewatering materials, ground anchoring materials, foundation materials, pre stressing and post tensioning materials. We serve many customers in the region and have been recognized as the procurement partner for tools and equipments.

As we desire to provide more outstanding customer service and we strive to adopt a specialized computerization system in integrating material planning, procurement, sales, inventory, logistics, and financials.

We built our strong reputation in the market through the continuous improvement of our operational practices and ensuring our alignment with the ongoing development of the international markets standards.

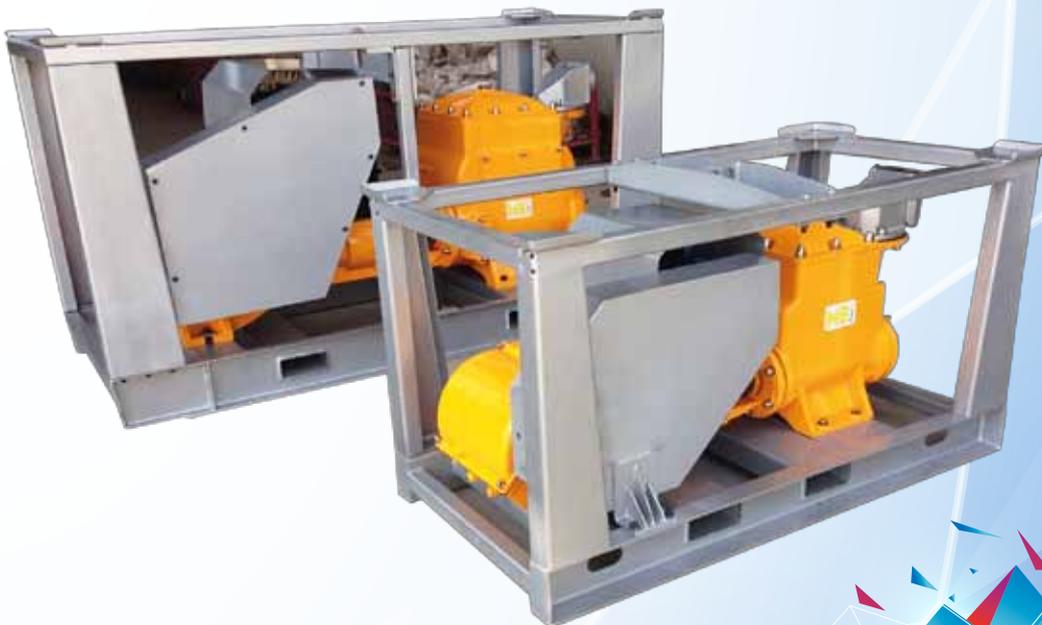
Apex's team ensures to provide the best in class quality of service to ensure our client's satisfaction every time.

# APEX PISTON TYPE SELF PRIMING DEWATERING PUMP

## GENERAL :

Fuel efficiency and low operational cost are the biggest advantages of Apex Piston Pump for achieving desired drawdown or lowering of water table. The objective of Groundwater control is achieved at low cost to facilitate the excavations below the natural water table.

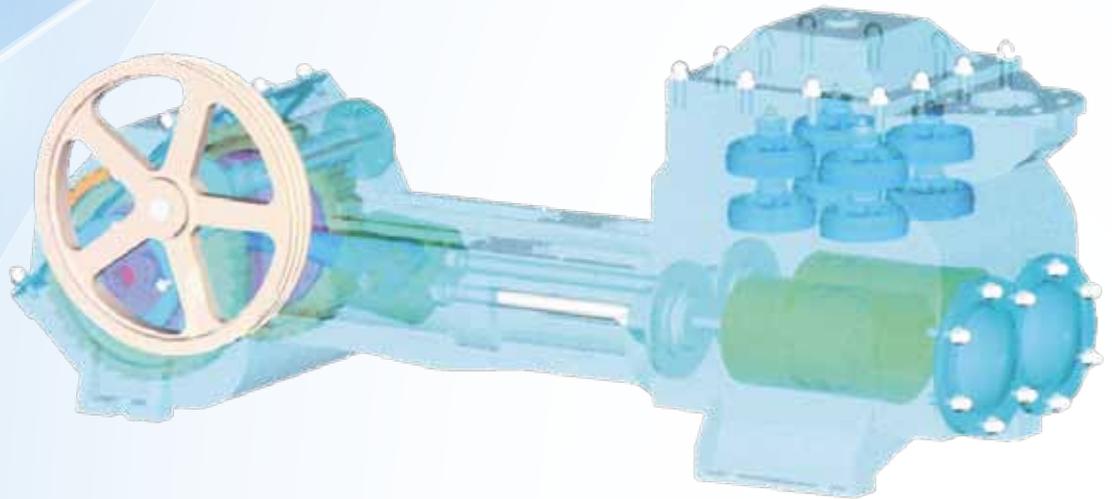
- Most economical for achieving desired drawdown.
- Self-Priming therefore free from vacuum pump hassles.
- Low maintenance, Simple in operations.
- Equipped with most durable parts in any kind of environment i.e humid and tropical conditions as well.
- Gradual development of vacuum avoids air bubbles in swing hose.
- Fuel efficient design based on excellent engineering technology.



# APEX PISTON DEWATERING PUMP INTERNAL VIEW

## Technical Specification

Maximum Suction depth	= 8.0m
Maximum Delivery Head	= 27m
Maximum Discharge Capacity	= 90m <sup>3</sup> /hr



Maximum Suction Pressure	= 0.9Bar
Suction Side Diameter	= 150mm
Delivery Side Diameter	= 150mm
Piston Type	= Double Acting

## Applications : Extensively used for

- Well Point dewatering systems.
  - Single Stage System.
  - Double Stage System.
- Drainage
- Soil treatment by removing contaminated water.



# BSA ENGINE 13.5HP 2 CYLINDER

## Engine Specification

Type	Vertical Totally Enclosed , Compression Ignition, Four Stroke Cycle Cold Starting, Air Cooled Diesel Engine
combustion	Direct Injection Combustion Between Chamber, And Aluminium Alloy Piston In Combination With A Long Stem Multi Hole Nozzle Resulting Low Fuel Consumption And Easy Starting
fuel System	Fuel Is Supplied To The Fuel Pump By Gravity Feed, Through The Fuel Tank And An Efficient Filter.
#cooling	Air Cooling
Governing	Class-b1
Rotation	Clockwise While Facing The Fly Wheel
Starting	Hand Start Self Start Optional
Standard Accessories	Starting Handle, Operator Manual And Necessary Tools



## Technical Data

Engine Model	Bsd-1a
Bore Stroke	87.5x110
Maximum Output	12/1500
No Of Cylinders	2
Compression Ratio	16--1
Fuel Tank Capacity	12
Specific Fuel Consumption	185
Dry Wt Appx	225
Sump Capacity	6.5
Lube Oil Consumption	1% Of Fuel Consumption



# AP - 150 (AUTO PRIMING PUMPS (6" - 150))

## Application / Advantage

- Ap - 150 fitted with Self Priming system commonly used in construction projects for municipal application including irrigation and over pumping.
- Suitable for operation in high humid, high / low temperature conditions.
- Hard wearing materials SS 316, cast iron and bronze.
- Surge protection system - prevents water escaping and damaging exhauster.
- Four wheel site trailer or skid mounting.
- Better suction lift, efficient water handling.
- Automatic priming and re-priming.
- Less vibration & noise, sound reduction canopy (optional)
- Improved guard design - more safety.
- Moves clean as well dirty water (particles up to 10 mm)
- Specially designed for dewatering operations

well point system  
sumping  
over pumping  
boosting  
emergency



# AP - 150 (AUTO PRIMING PUMPS (6" - 150))

● DESIGN ● MANUFACTURE ● SUPPLY ● INSTALLATION ● SERVICE

Suppliers to municipalities, Oil & Construction, Process Industries, Agriculture and Mine Industries

## OUR TRACK

Over 20 years of vast experience enable us to execute various construction projects for dewatering, irrigation, mining, sewage over pumping and emergency water pumping.

## SOLID DESIGN

robust design enables easy handling and maintenance. Careful development and testing of pumps facilitate high suction lift and minimize damage to the internals. Lateral volute discharge minimize cavitation in volute to get more life improved pump efficiency.

## SOLID DESIGN

Choice of diesel engines, air cooled / water cooled Deutz, Kirloskar, other operating between 1500 and 2000 rpm. Alternative 4 pole electric motors also available.

## FUEL TANK CAPACITY

200 ltr with cleaning facilities.

## PUMP PERFORMANCE

Max Head : 40mtr  
Max Flow : 350m<sup>3</sup> / hrs  
Max Solid : 50mm  
Suction Head : 8.8 mtr.

## SUCTION & DISCHARGE

Suction Flange : 150mm PN 16  
Discharge Flange : 150mm PN 16  
Quick acting couplings optional

## MAIN COMPONENTS

Volute : Cast Iron  
/ 316 SS  
Impeller : Bronze / 316 SS  
Shaft : 304 / 316 SS

## WEIGHT

NP 150 SE 971 Kgs.  
NP 150 HE 1072 Kgs.

## CHASSIS

4 Wheel site trailer, 2 wheel road trailer or skid mount

## VACUUM SYSTEM

Vacuum pump for automatic priming & repriming at 60 CFM. Double vacuum system also available as optional

## SHAFT SEAL

Carbon ceramic special mechanical seal designer for long life when used for sandy sea water

# BS - 150 ( 6" AUTO PRIMING PUMP)

Automatic self-priming system for simple maintenance limited to checking fluid levels and filters. Available with gland packing, oil seals or mechanical seals.

**The Max Head :** 43 Mtr.

**Max Flow :** 90.0 L/s

**Max Solid :** 380 M<sup>3</sup> / hr

**Suction Lift :** 9 Mtr.

Suction and Discharge 6"

Table D Flange

**LxWxH :** 2850 x 1600 x 1680

**Optional :** Any type of Quick Coupling M,B,E & L Type

**Weight :** 800 Kg. (with Pump and 4 Wheel Trailer)



## Vacuum Pumps

Vacuum Pumps  
60 CFM A Type



Displacement - 60 CFM  
Nominal Speed - 1050 RPM  
Maximum Lift - 9 m  
Required Power - 3 KW  
Weight - 57 Kg

Vacuum Pumps  
70 CFM B Type



Displacement - 70 CFM  
Nominal Speed - 1430 RPM  
Maximum Lift - 9.2 m  
Required Power - 3 KW  
Weight - 42 Kg

Vacuum Pumps  
25 CFM A Type



Displacement - 25 CFM  
Nominal Speed - 1520 RPM  
Maximum Lift - 9 m  
Required Power - 1.5 KW  
Weight - 26 Kg

# AS TYPE CONSTRUCTION DRAINAGE PUMPS

## Features

- Specifically design for civil engineering applications for heavy duty, Light weight, top outlet required.
- Double outer casing and water cooled motor design extremely appropriate for low water level and extended operation applications.
- Special designed high efficient and wear resistant HCR (High Chrome) impeller
- Multi impeller design suitable from high head with small capacity to low head with large capacity of application requirement. (H:high, N: normal L: large)
- Complete stainless steel outer cover of AS5.5 - 7.5 KW exceptional consolidation design weight less than 80kg of light weight structure and diameter 286mm of miniature outlook.
- Optional discharge connection (hose, flange and thread connection)

## Applications

- Civil engineering tunneling and ground works dewatering
- Dewatering of fluids contain solid sediments.
- Easy of mobility for use by contractors- installer and service industries.



## Models Code

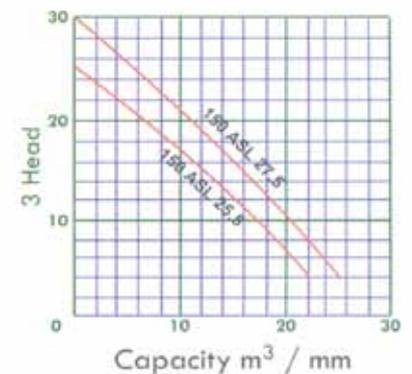
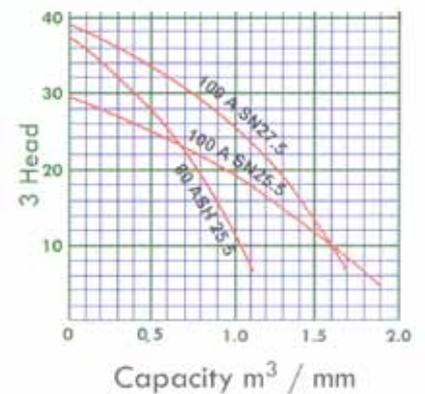
<u>100</u>	<u>AS</u>	<u>N</u>	<u>N</u>	<u>5.5</u>
Discharge mm	Pump type	Impeller type	Polo	kw

# SPECIFICATIONS

## Specification

Discharge mm		80	100 - 150	
Pumping liquid	Liquid temp	On - 400 c		
	Liquid nature	Sandy - Waste Water		
	Max. depth	30 m		
Pump	Structure	Impeller	Open      Enclosed	
		Mech. Seal	Double Mechanical Seal	
		Bearing	Ball type bearing	
	Material	Out cover	SUS 304	
		Upper Cover	FC 200	
		Casing	FC 200	
		Impeller	HCR	
		Wear ring	HCR	
		Mech. Seal	Sic. / Sic.	
Motor	Type	Dry motor		
	Pole	2 P		
	Insulation	F		
	Frequency Phase	50 Hz 3		
	Protector	Auto cut		
	Material	Frame	FC 200	
		Shaft	SUS 420 J2	
Cable		HVCT		

## Performance Curve



## Performance SPEC.

Hz	Model	Power HP (KW)	Discharge Inch (mm)	Phase	Start Method	Head m	Capacity M3 / mm	Max head m	Weight kg	Solid Passage mm	Dimension (mm) Width X Height
50	80ASH25.5	7.5 (5.5)	3" (80)	3	Direct	28	0.5	37	74	10	286 x 661
	100ASN25.5	7.5 (5.5)	4" (100)	3	Direct	19	1.0	29	76	10	286 x 661
	100ASN27.5	10 (7.5)	4" (100)	3	Direct	25	1.0	39	78	10	286 x 661
	150ASL25.5	7.5 (5.5)	6" (150)	3	Direct	12	1.5	25	78	10	286 x 723
	150ASL27.5	10 (7.5)	6" (150)	3	Direct	16	1.5	30	80	10	286 x 723

# PROJECTS





## APEX GROUP OF COMPANIES

### Apex Emirates General Trading CO. L.L.C

- ▶ Hydraulic Equipments
- ▶ Dewatering Equipments
- ▶ Anchoring Accessories
- ▶ Post Tensioning Accessories
- ▶ Piling Accessories
- ▶ Rebar Couplers

### Apex International Construction & Land Dewatering L.L.C

#### Apex Dewatering

- ▶ Deepwell Dewatering System
- ▶ Wellpoint Dewatering

#### Apex Anchoring

- ▶ Tie-Back Anchoring works
- ▶ Static Compression Pile Load Test using Crown
- ▶ Uplift & Compression Pile Load Test
- ▶ Horizontal Lateral Pile Load Test
- ▶ Anchor Stressing Work
- ▶ Micro Piling
- ▶ Injection Grouting
- ▶ Soilnailing
- ▶ Rockbolt Anchor
- ▶ Shortcrete