

# CORNELL PUMP COMPANY

100 - 250 GPM

1.5 YH 200

200 - 400 Feet TDH

## STANDARD SPECIFICATION

Discharge - 1.5 inch threaded discharge Suction - 2 inch threaded suction Impeller - Enclosed cast iron Volute - Right hand tangential discharge, four positions

Mechanical Seal or Traditional Packing - Single type 1 carbon ceramic mechanical seal: Cycloseal® design, Run-dry available

Footprint - Matches Cornell's historical 1.5Y

## Materials of Construction

- Cast iron bronze fitted
- Other materials available

## **PURCHASE OPTIONS**

Complete Pump

Fully assembled at the factory Ready to go to the field

- Pump End Kit
  - Finished components
  - PrePainted

Easy assembly

- Common tools
- Simple instructions
- Obtain drives locally or through Cornell

## **MOUNTING OPTIONS**

- Close Coupled Electric
  - Standard JP motor shaft
    - Standard Efficiency
    - Cornell's Energy Efficient Design
- Frame Mount Cornell F5 Cornell F85
- Engine Bracket
  - Cornell EM5 (SAE 5) Cornell EM309 (SAE 5)
  - Cornell EM85 (SAE 3 and 4)



# **FEATURES & BENEFITS**

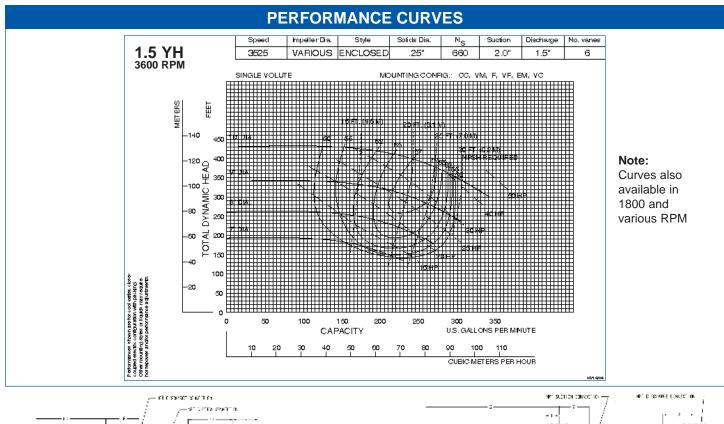
- Cornell's Tradition of Excellence:
  - Highest Quality Products
  - Experience
    - Over 50 years in the centrifugal pump business
  - Optimum Hydraulics
    - In house engineering staff and test lab facilities
  - Strong Local Dealer Support
    - Our agricultural products are sold only through authorized dealerships
    - Dealerships provide full service to customers from sales to replacement parts
    - Dealers maintain and improve their knowledge at educational activities like Cornell's "Pump School"
- Economically Priced:

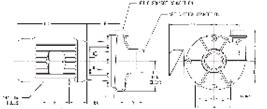
#### Component Design

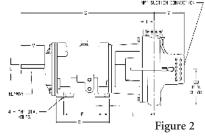
- Efficient manufacturing through increased volume of common parts
- Versatility
  - The ability to mix and match components reducing local inventory of both parts and wholegoods with a wide variety of pumps and mounting configurations for the customer

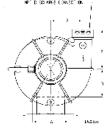
#### Exceptional Design:

- Efficiency
  - Effectively converts energy into fluid flow and pressure
- Long Product Life
  - Thick walled castings
  - Heavy duty shafts
  - 20,000 hour bearings
  - Replaceable wear rings and shaft sleeves
  - Reduced thrust load through design and balance lines where appropriate

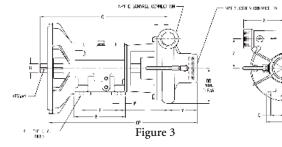


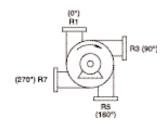












#### PUMP DIMENSIONS

NIN COLLER

MOUNT	AK	Fig.	Α	В	C	CP	D	DA	DD	E	F	Н	L	Р	Т	U	٧	Х	Y	Z	LP	KEYWAY
CC	4.5	1	-	-	-	-	-	-	6.38	-	-	-	-	-	3.15	-	-	6.5	3.47	5.5	7.19	-
	8.5	1	-	-	-	-	-	-	6.38	-	-	-	-	-	3.15	-	-	6.5	3.47	5.5	8	-
	12.5	1	-	-	-	-	-	-	6.38	-	-	-	-	-	3.15	-	-	6.5	3.47	5.5	8	-
F5	-	2	7.5	7.36	18.62	-	5.5	-	6.38	2.62	4.5	0.56	8.78	1.44	-	1.25	3	6.5	3.47	5.5	-	.25 x .12
F85	-	2	6.5	9.52	24.45	-	5.25	-	6.38	2.5	7	0.69	9.72	1.16	3.15	2	4.81	6.5	3.47	5.5	-	.50 X .25
EM5	-	-	7.5	7.36	18.62	21.72	5.5	8.25	6.38	2.62	4.5	0.56	8.78	1.44	-	1.25	-	6.5	3.47	5.5	-	.25 X .12
EM85	-	-	6.5	9.52	24.45	26.31	5.25	6.38	6.38	2.5	7	0.69	9.75	1.16	3.15	2	-	6.5	3.47	5.5	-	.50 X .25
EM309	-	-	-	-	18.23	20.33	-	-	6.38	-	-	-	-	-	3.15	1.25	-	6.5	3.47	5.5	-	.25 X .12

## MOTOR DIMENSIONS

MOTOR	AK									
FRAME	DIM.	Α	В	D	E	F	H	AB	BA	LC
143-5	4.5	6.5	5.94	3.5	2.75	5	0.34	5.62	2.88	10
182-3	4.5	8.62	6.5	4.5	3.75	5.5	0.41	6.75	3.5	12.25
	8.5	8.62	6.5	4.5	3.75	5.5	0.41	6.75	3.5	12.25
213-5	8.5	9.5	8	5.25	4.25	7	0.41	7.94	4.5	13.69
254-6	8.5	11.25	11.25	6.25	5	10	0.53	9.5	5	17.94
284-6	12.5	12.25	12.25	7	5.5	11	0.53	11.37	5	21.31
324-6	12.5	14.25	13.75	8	6.25	12	0.66	12.22	5.5	22.19
364-5	12.5	15.75	14	9	7	12.25	0.66	13.2	6.12	24.31
404-5	12.5	18.5	16.62	10	8	13.75	0.81	16.39	6.88	29.97

## **Cornell Pump Company**

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