



**GEAR  
DRIVE**

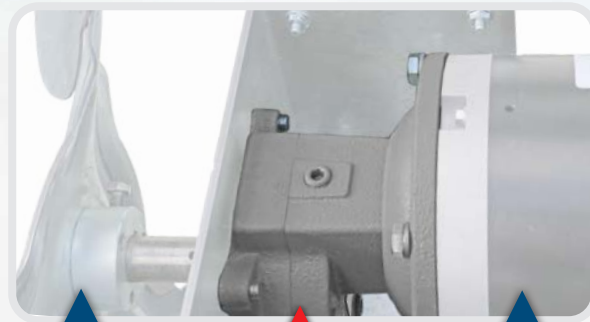
**54" GEAR DRIVE CIRCULATING FANS**

*No Pulleys, Belts,  
or Tensioners to Replace!*



## 54" GEAR DRIVE CIRCULATING FANS

The FALCON™ Fan by Genesys is built around a standard, off the shelf motor that is coupled to a frame-mounted gear reducer with prop attached. Our gear-reducer attachment provides exceptional efficiency, maximizing CFM output per watt and delivering greater thrust which ultimately increases wind speeds. What's more, the FALCON™ Fan avoids the friction loss and maintenance of worn belts and pulleys known to gradually reduce fan performance and efficiency.



Fan Prop

Gear Reducer

56C Motor

**Powered by 1 HP, 56C Standard Motor**  
**No Pulleys, Belts, or Tensioners to Replace**

**Available in  
Single or 3 Phase**

No Soft Starters required



**Lifetime  
Synthetic Lubrication**

Sealed Housing -  
No quarterly or yearly servicing

**Minimal  
Fan Maintenance**

No Pulleys, Belts, or  
Tensioners to replace



**Variable Speed  
Drive \*(optional)**

Reduced energy  
usage for  
increased efficiency

**Sturdy Built Galvanized  
Steel Fan Frame**

Tough construction  
for durability  
and blade protection

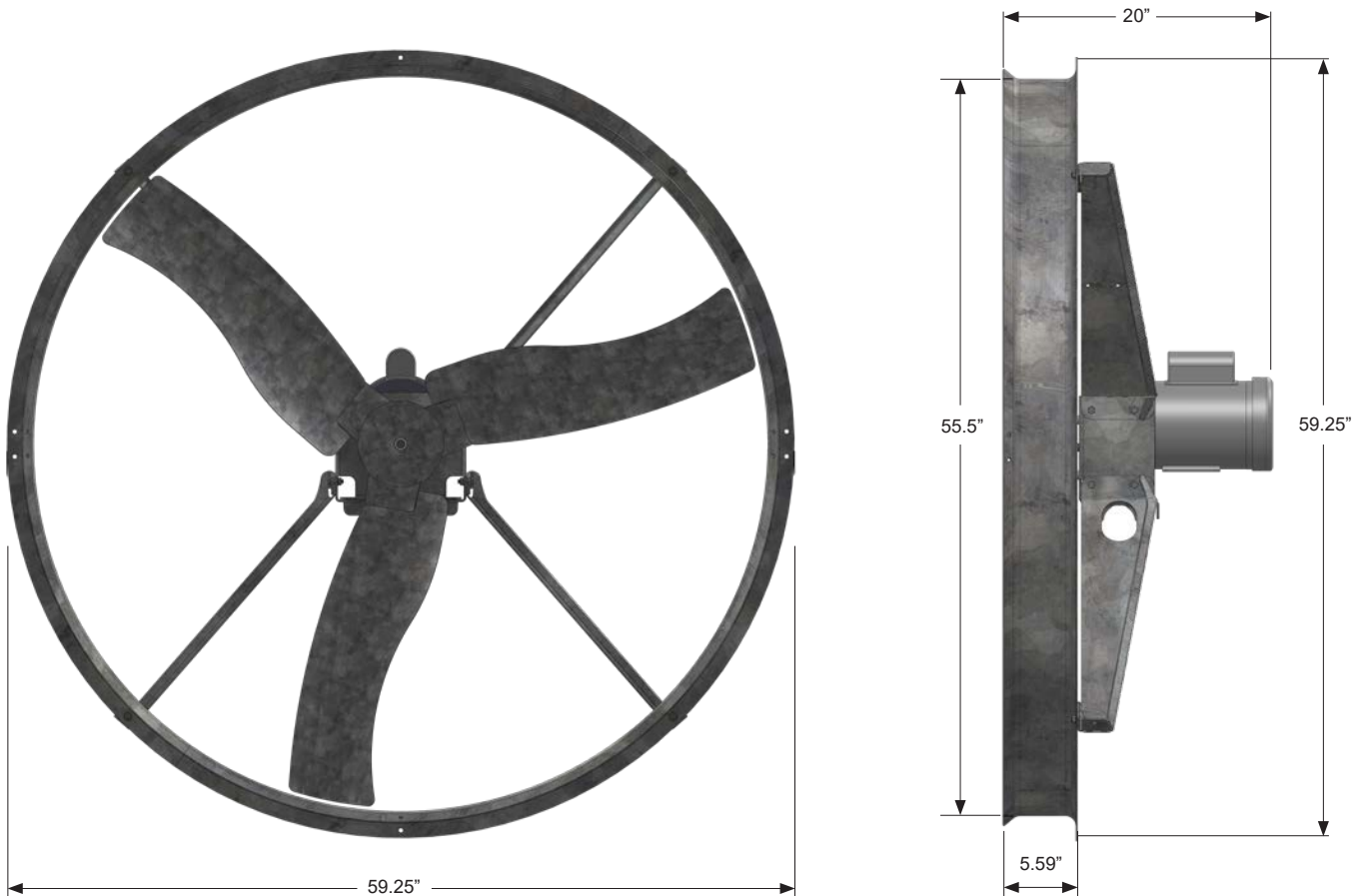
**Fan Mounting Brackets**

With three-axis adjustment.  
Available for I-Beams,  
Round Posts,  
and Wooden Posts

# 3-Blade Gear Drive Fans



The Falcon™ 3-Blade Gear Drive Circulating Fan supplies a strong thrust, resulting in faster wind speeds and improved air quality. Properly regulated temperatures will maintain cow comfort and encourage productivity throughout the year.



**1 HP**  **HIGH VOLUME**

Fan Model #	Fan Size	Motor HP	RPM	Volts	Amps	kW	5X Diameter Centerline Velocity (FPM*)	Airflow* (Thrust CFM)	Efficiency (Thrust CFM/Watt)
FANFGDV543101 (Single Phase)	54"	1	580	229.9	5.18	1.123	870	27,400	24.4
FANFGDV543103 (Three Phase)	54"	1	584	225.3	3.51	1.061	870	27,000	25.4

\*FPM = Feet Per Minute, \*Airflow - ANSI/AMCA 230-12 Eq. 9.6 IP

GENESYS certifies that the performance data for the above two fan models is based on tests conducted in an accredited laboratory (University of Illinois, Department of Agricultural and Biological Engineering, Bioenvironmental and Structural Systems Lab (BESS LAB) in accordance with ANSI/AMCA Standard 210-85.

**GEAR DRIVE**



**Sturdy  
Built**  
Manufacturing, LLC

**NEW!**

**[ 42 INCH ] 3-Blade  
Circulating Fans**

- 15,000 CFM at 24.9 CFM / watt
- Variable Speed Controlled with 0-5V Input

Ask your sales representative  
for more information



*A compact fan for low ceilings  
and tight spaces!*

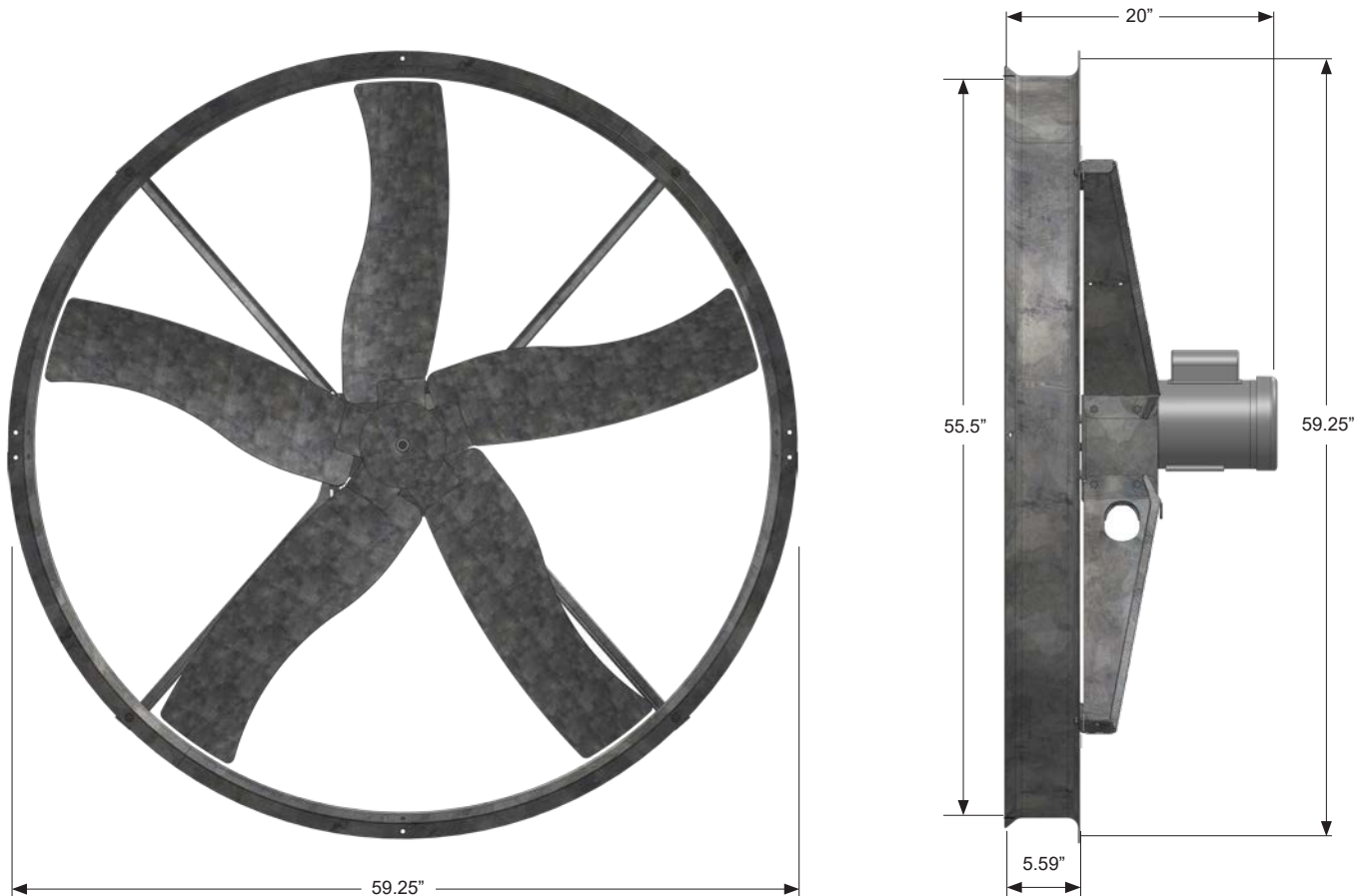


**DIRECT DRIVE**

# 5-Blade Gear Drive Fans



The Falcon™ 5-Blade Gear Drive Circulating Fan is slightly quieter than the 3-Blade model. It moves air effectively with less force, while performing at a higher CFM's per watt efficiency. Benefit from long-term energy savings and reliability.



Fan Model #	Fan Size	Motor HP	RPM	Volts	Amps	kW	5X Diameter Centerline Velocity (FPM*) at Full Speed	Airflow* (Thrust CFM)	Efficiency (Thrust CFM/Watt)
FANFGDV545101 (Single Phase)	54"	1	439	230.3	4.19	0.93	760	25,000	26.9
FANFGDV545103 (Three Phase)	54"	1	439	225	3.26	0.90	780	24,900	27.6

\*FPM = Feet Per Minute, \*Airflow - ANSI/AMCA 230-12 Eq. 9.6 IP

GENESYS certifies that the performance data for the above two fan models is based on tests conducted in an accredited laboratory (University of Illinois, Department of Agricultural and Biological Engineering, Bioenvironmental and Structural Systems Lab (BESS LAB) in accordance with ANSI/AMCA Standard 210-85.

COMING SOON!



[ **64 INCH** ] Size

*For more air volume  
in large-barn applications*



## Galvanized Fan Mounting Brackets



- Three-Axis Adjustment
- Available for I-Beams, Round Steel Posts, & Wood Posts



Fan frame slides securely onto fan mounting arm.  
Provides easy tilt angle and left to right adjustment



***Cow Comfort Generates Productivity***

# Variable Speed Drives for Falcon™ Fans

- Auto-tuning drives  
do not interfere with Wireless ID Systems
- Touch screen interface displays real time monitoring of current power consumption, windspeed, temperature and costs per day, week, month or year. Convenient setting adjustments to fully optimize power consumed by the system and realize dramatic energy savings.
- Easy to access variable speed drive panels mounted outside and away from corrosive conditions. Uses conventional wiring methods between drive panels and fan motors.
- Single phase or three-phase input



## Touch Screen Controller

Mounted inside the barn at any convenient location(s)  
within 1000 ft. of exterior drive panel.



## Easy-to-Access Exterior Drive Panel

Mounted outside and away from  
corrosive conditions.



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Dealer: