MonsterFans GD Series

Submittal
Geared-Drive HVLS Fan
### MonsterFans GD Series Fan Components Diagram

- **Structural Support of the building**
  - (1) Mounting Plate + (2) Shim Plates + (2) Holding Plates
  - (4) Bolt ½" x 2½" UNC FT
  - (8) Washers Flat ½"
  - (4) Nylock ½" UNC

- **Safety Cable**
  - (1) Cable 3/16" SS
  - (Length 6.5 ft)
  - (4) Cable Clamps 3/16"

- **Extension**
  - (2) Bolt 3/4" x 4 ½" UNC
  - (2) Nylock 3/4" UNC

- **Fan Frame**
  - (1) Hub
  - (5) Blades (not shown)
  - (10) Bolts 3/8" x 3½" UNC
  - (5) Bolts 3/8" x 4" UNC
  - (1) Trantorque Nut [specific torque setting required]

- **Guy Wires**
  - (1) Cable 1/8" SS
  - (60 ft length provided to equal 4 @ 15 ft)
  - (8) Thimbles 1/4" SS
  - (16) Cable Clamps 1/8"

- **Typical Guy Wire**
  - (4) Bolt 1/8" x 1 ½" UNC
  - (8) Washers Flat 1/8"
  - (4) Nylock 1/8" UNC

- **Guys Wires**
  - (4) Cable Clamps 3/16"

- **Standard Mount**
  - (Available in approx 12", 24" or 48" lengths, custom lengths are optional)

### Control Options

#### MonsterFans Smart Control
- Automated Fan Control for Single or Multiple Fans
- Continuously Measures Temperature and Humidity, Adjusting Fan Speed Accordingly
- Integrated Light Operation to Control On/Off
- Plug-and-Play Installation
- Monitor Performance of Motor and Drive

#### MonsterFans Touch Control
- Single Point Fan Control
- Controls up to 65 Fans
- CAT-5 Daisy Chain Connections
- Intuitive Operation
- Individual and Group Controlling
- Remote Diagnostics
- Over 500m (1640’) of Wire Distance

#### MonsterFans Link Control
- Single Point Fan Control
- Controls up to 247 Fans
- Uses BACnet Signal
- Works In Conjunction with Building Automation Controls
- Individual Fan and Group Controlling

#### MonsterFans Simple Control
- One MonsterFans Simple Control Per Fan Required
- Provides Remote Operation for Fan Mounted VFD
- User Friendly, Simplified Installation and Operation

---

*Note: All bolts are “Grade 5 UNO” FT = Fully Threaded
[#] = Quantity Supplied*
### MonsterFans GD Series Fan Specifications

**Model**
- 8 ft [2.4 m] 12 ft [3.7 m] 16 ft [4.9 m] 20 ft [6.1 m] 24 ft [7.3 m]

**Model #**
- MF-GD08-XX MF-GD12-XX MF-GD16-XX MF-GD20-XX MF-GD24-XX

**Input power**
- 208–240 VAC, 50/60 Hz, 1 Φ; 208–240 VAC/400–480 VAC/575–600 VAC, 50/60 Hz, 3 Φ

**Diameter**
- 8 ft [2.4 m] 12 ft [3.7 m] 16 ft [4.9 m] 20 ft [6.1 m] 24 ft [7.3 m]

**Weight**

**Airflow**
- 59,494 CFM 70,424 CFM 127,033 CFM 176,200 CFM 315,026 CFM

**Max. velocity**
- 386 ft/min 386 ft/min 550 ft/min 505 ft/min 497 ft/min

**Max. rotational speed**
- 105 RPM 105 RPM 80 RPM 63 RPM 53 RPM

**Max. affected area**
- 60 ft [18 m] 80 ft [24 m] 140 ft [43 m] 200 ft [61 m] 230 ft [70 m]

**Power usage**

**Motor power**
- 1HP [0.75 kW] 1HP [0.75 kW] 1.5HP [1.1 kW] 2 HP [1.5 kW] 2 HP [1.5 kW]

**Torque**
- 39 ft-lbs [53 Nm] 39 ft-lbs [53 Nm] 104 ft-lbs [141 Nm] 160 ft-lbs [217 Nm] 248 ft-lbs [142 Nm]

**Thrust**
- 28 ft-lbs [125 Nm] 28 ft-lbs [125 Nm] 52 ft-lbs [231 Nm] 63 ft-lbs [280 Nm] 142 ft-lbs [632 Nm]

**Noise level**
- 62.5 dB 62.5 dB 62.7 dB 63.4 dB 63.4 dB

**Motor**
- Helical Inline Reducer

**Hub**
- 713 Cast Aluminum Alloy

**Max. ceiling slope**
- 18.5°

**Blades**
- 5 - 6063 Enforced Anodized Aluminum with High Impact Polystyrene blade end caps

**Airfoil clearance**
- 1.5 ft [0.46 m] on sides
- 5 ft [1.5 m] below the ceiling

**Mounting**
- Versatile universal mounting system included with fan

**Safety components**
- Safety cables - 3/16” Stainless Steel
- Guy wires - 1/8” Stainless Steel
- Safety clips - Zinc Plated Steel

**Control**
- Includes standard VFD with ON/OFF control switch
- Optional controls include Smart fan control and/or Touch fan control
- Building automation systems integrations

**Warranty**
- Lifetime warranty on blades, hub & mounting system
- 5-year Limited Warranty

**Certification**
- UL Standard, CSA Standard & CE

**Options**
- Optional wind sensor
- Optional mounting extension kits
- Fire-relay

*Please see MonsterFans GD Series Installation Guide for more information regarding mounting hardware.*
12 ft [3.7 m] MonsterFans GD Series Fan Spec Drawing
**16 ft [4.9 m] MonsterFans GD Series Fan Spec Drawing**

**Schwank**

**MonsterFans GD Series Fan Assembly**

**MF-GD16-XX**

**Checked Date:**

**ENG APPR. Date:**

**WEIGHT:**

**Monday, January 15, 2018 3:51:22 PM**

**Last Saved Date:**

**REVISIONS:**

**ANGULAR: MACH**

**FINISH**

**TWO PLACE DECIMAL**

**SHEET 1 OF 1**

**MATERIAL VENDORS NUMBER:**

**DRAWN**

**Checked By:**

**MFG APPR.**

**Q.A.**

**Drawing Date:**

**Last Revised Date:**

**TITLE:**

**SIZE**

**DWG. NO.**

**SCALE: 1:50**

**UNLESS OTHERWISE SPECIFIED:**

**DIMENSIONS ARE IN INCHES**

**TOLERANCES:**

**FRACTIONAL**

**DO NOT SCALE DRAWING**

**PROPRIETARY AND CONFIDENTIAL**

**THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SCHWANK. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SCHWANK IS PROHIBITED.**

**SHOULD THERE BE ANY DISCREPANCIES WITH THIS CONSTRUCTION DRAWING, SCHWANK SHOULD BE CONTACTED IMMEDIATELY FOR RESPONSE.**

**COMMENTS:**

Note: Contractor is responsible for verifying all site conditions to include field dimensions where applicable. If the contractor elects to make any changes without consulting service of drawings, plans, and authorities are informed in regard to the work and that all permits are attained before commencing the work.
Velocity Map
20' [6.1m] diameter

Test results are based on a blade mounting height of 16' [4.9m] from the floor. Results were measured 1' [0.3m] off the floor. Average air speeds were utilized as actual air velocity from fan's guiding. Results will vary depending on testing conditions.
**MonsterFans GD Series Fan Packaging Details**

**Packaged Fan**

30” x 31” x 32” [76.2 cm x 78.74 cm x 81.28 cm]
255 lbs [115.6 kgs]

**Packaged Blades**

**Mounts & Extensions Packaging Details**

These items can be placed inside the packaged fan when ordering with a fan.
[Excluding 4 ft [1.22 m] items] Please add the additional weight to the fan packages above.

1 ft [0.31 m] Packaged UMH Mount
9” x 9” x 15” [22.9 cm x 22.9 cm x 38.1 cm]
22 lbs [9.98 kgs]

2 ft [0.61 m] Packaged UMH Mount
9” x 9” x 28” [22.9 cm x 22.9 cm x 71.1 cm]
33 lbs [14.97 kgs]

2 ft [0.61 m] UMH Extension
9” x 9” x 28” [22.9 cm x 22.9 cm x 71.1cm]
21 lbs [9.53 kgs]

4 ft [1.22 m] Packaged UMH Mount
9” x 9” x 51” [22.9 cm x 22.9 cm x 129.5 cm]
47 lbs [21.32 kgs]

4 ft [1.22 m] UMH Extension
9” x 9” x 49” [22.9 cm x 22.9 cm x 124.5 cm]
31 lbs [14.06 kgs]

---

1-877-446-3727 [toll-free]
1-706-554-6191
monsterfans@schwankgroup.com

USA
2 Schwank Way,
Waynesboro, GA
30830

Canada
5285 Bradco Blvd.,
Mississauga, ON
L4W 2A6

schwankgroup.com/monsterfans