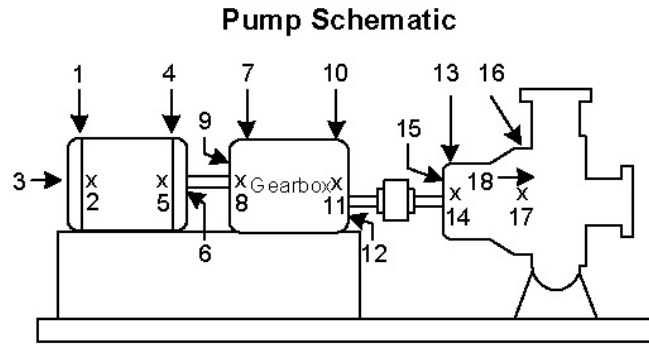
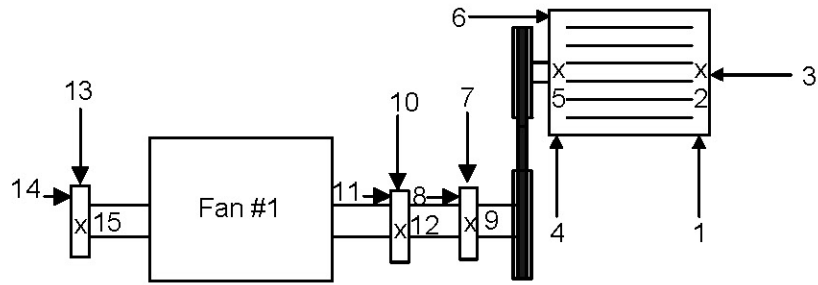


# Gear Driven Pump Schematic



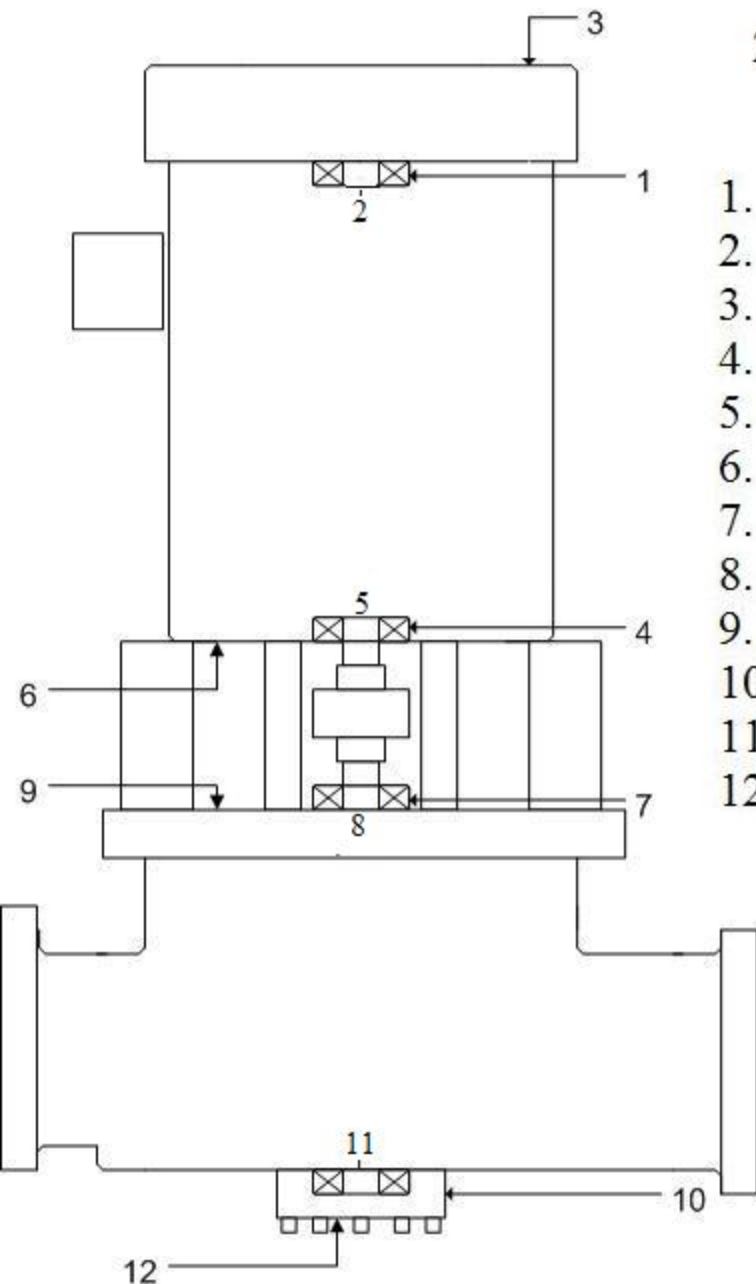
- |        |                                |         |                                 |
|--------|--------------------------------|---------|---------------------------------|
| 1. MOV | Motor off vertical             | 10. GOV | Gearbox output shaft vertical   |
| 2. MOH | Motor off end horizontal       | 11. GOH | Gearbox output shaft horizontal |
| 3. MOA | Motor off end axial            | 12. GOA | Gearbox output shaft axial      |
| 4. MDV | Motor drive end vertical       | 13. PIV | Pump inboard vertical           |
| 5. MDH | Motor drive end horizontal     | 14. PIH | Pump inboard horizontal         |
| 6. MDA | Motor drive end axial          | 15. PIA | Pump outboard axial             |
| 7. GIV | Gearbox input shaft vertical   | 16. POV | Pump outboard vertical          |
| 8. GIH | Gearbox input shaft horizontal | 17. POH | Pump outboard horizontal        |
| 9. GIA | Gearbox input shaft axial      | 18. POA | Pump outboard axial             |

### Fan Schematic



- |          |                              |           |                             |
|----------|------------------------------|-----------|-----------------------------|
| 1. MOIL  | Motor outboard in line       | 9. FB1A   | Fan bearing 1 axial         |
| 2. MOP   | Motor outboard perpendicular | 10. FB2IL | Fan bearing 2 in line       |
| 3. MOA   | Motor outboard axial         | 11. FB2P  | Fan bearing 2 perpendicular |
| 4. MIIL  | Motor inboard in line        | 12. FB2A  | Fan bearing 2 axial         |
| 5. MIP   | Motor inboard perpendicular  | 13. FB3IL | Fan bearing 3 in line       |
| 6. MIA   | Motor inboard axial          | 14. FB3P  | Fan bearing 3 perpendicular |
| 7. FB1IL | Fan bearing 1 in line        | 15. FB3A  | Fan bearing 3 axial         |
| 8. FB1P  | Fan bearing 1 perpendicular  |           |                             |

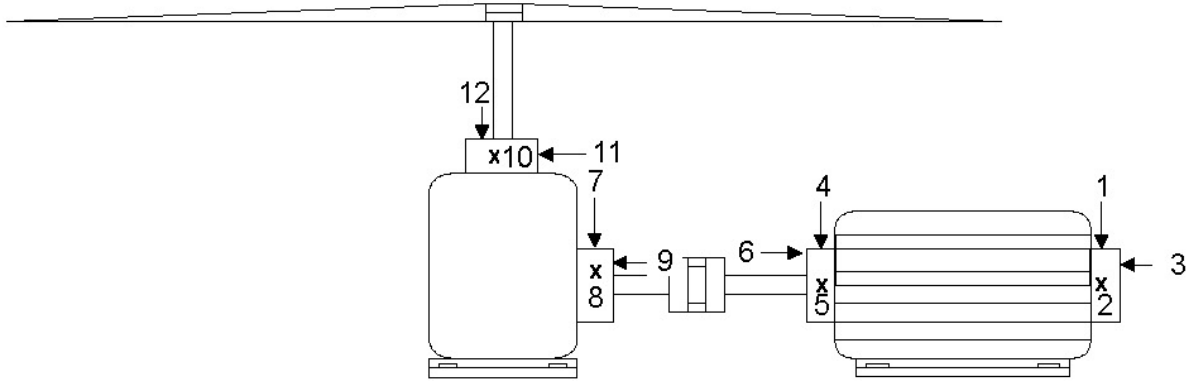
## 2 Bearing Vertical Pump Schematic



1. MOR1 Motor Outboard Radial 1
2. MOR2 Motor Outboard Radial 2
3. MOA Motor Outboard Axial
4. MDR1 Motor Drive Side Radial 1
5. MDR2 Motor Drive Side Radial 2
6. MDA Motor Drive Axial
7. PIR1 Pump Inboard Radial 1
8. PIR2 Pump Inboard Radial 2
9. PIA Pump Inboard Axial
10. POR1 Pump Outboard Radial 1
11. POR2 Pump Outboard Radial 2
12. POA Pump Outboard Axial

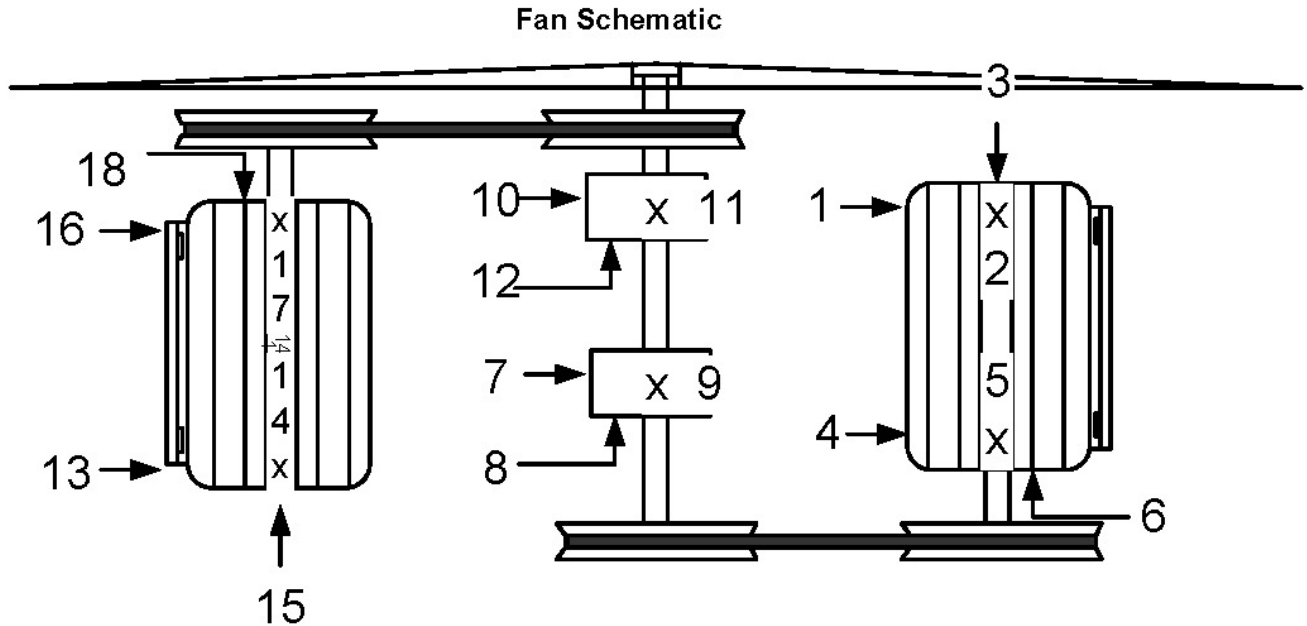
## 2 Bearing Gear Driven Cooling Tower Schematic

Cooling Tower Schematic



- |        |                            |         |                                |
|--------|----------------------------|---------|--------------------------------|
| 1. MOV | Motor off vertical         | 7. GIV  | Gearbox input shaft vertical   |
| 2. MOH | Motor off end horizontal   | 8. GIH  | Gearbox input shaft horizontal |
| 3. MOA | Motor off end axial        | 9. GIA  | Gearbox input shaft axial      |
| 4. MDV | Motor drive end vertical   | 10. GOV | Gearbox output vertical        |
| 5. MDH | Motor drive end horizontal | 11. GOH | Gearbox output horizontal      |
| 6. MDA | Motor drive end axial      | 12. GOA | Gearbox output axial           |

## 2 Motor Belt Driven Cooling Tower Schematic

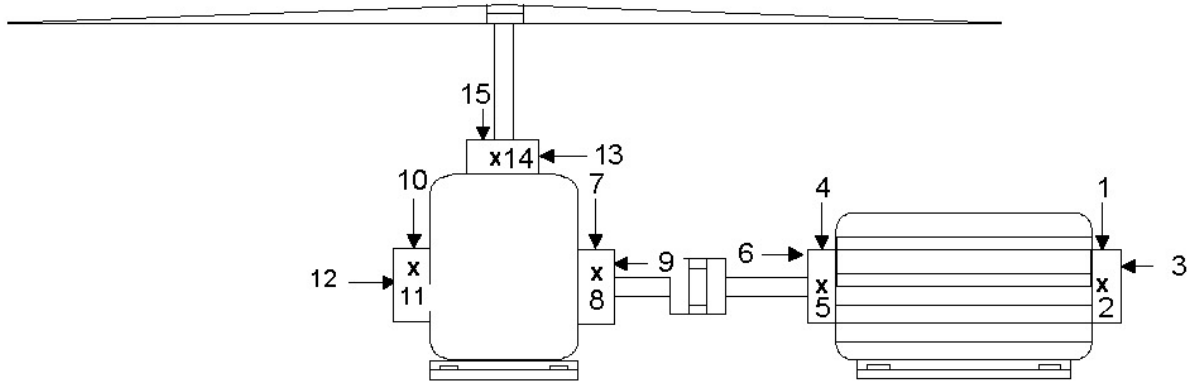


Side View

- |          |  |           |   |
|----------|--|-----------|---|
| 1. HMOIL | High-speed Motor Off end Inline          | 10. FOIL  | Fan Outboard Inline                     |
| 2. HMOP  | High-speed Motor Off end Perpendicular   | 11. FOP   | Fan Outboard Perpendicular              |
| 3. HMOA  | High-speed Motor Off end Axial           | 12. FOA   | Fan Outboard Axial                      |
| 4. HMDIL | High-speed Motor Drive End Inline        | 13. LMOIL | Low-speed Motor Off end Inline          |
| 5. HMDP  | High-speed Motor Drive End Perpendicular | 14. LMOP  | Low-speed Motor Off end Perpendicular   |
| 6. HMDA  | High-speed Motor Drive End Axial         | 15. LMOA  | Low-speed Motor Off end Axial           |
| 7. FIIL  | Fan Inboard Inline                       | 16. LMDIL | Low-speed Motor Drive End Inline        |
| 8. FIP   | Fan Inboard Perpendicular                | 17. LMDP  | Low-speed Motor Drive End Perpendicular |
| 9. FIA   | Fan Inboard Axial                        | 18. LMDA  | Low -speed Motor Drive End Axial        |

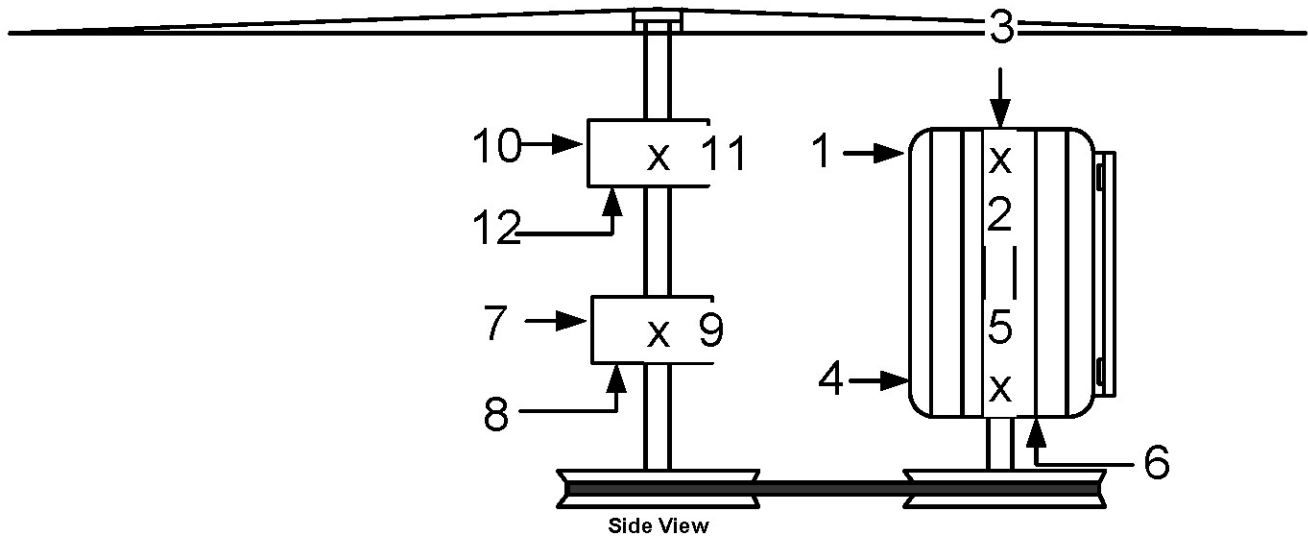
# Gear Driven Cooling Tower Schematic

Schematic



- |        |                                |         |                                 |
|--------|--------------------------------|---------|---------------------------------|
| 1. MOV | Motor off vertical             | 10. GOV | Gearbox output shaft vertical   |
| 2. MOH | Motor off end horizontal       | 11. GOH | Gearbox output shaft horizontal |
| 3. MOA | Motor off end axial            | 12. GOA | Gearbox output shaft axial      |
| 4. MDV | Motor drive end vertical       | 13. FIV | Fan inboard vertical            |
| 5. MDH | Motor drive end horizontal     | 14. FIH | Fan inboard horizontal          |
| 6. MDA | Motor drive end axial          | 15. FIA | Fan inboard axial               |
| 7. GIV | Gearbox input shaft vertical   |         |                                 |
| 8. GIH | Gearbox input shaft horizontal |         |                                 |
| 9. GIA | Gearbox input shaft axial      |         |                                 |

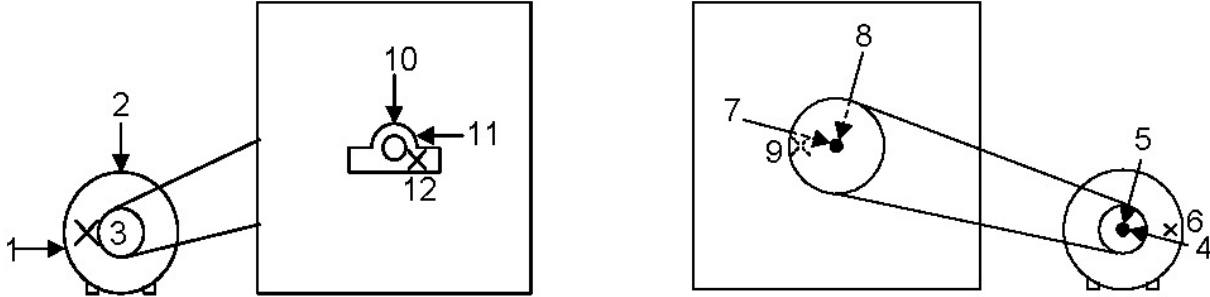
### Fan Schematic



- |         |                               |          |                            |
|---------|-------------------------------|----------|----------------------------|
| 1. MOIL | Motor off end inline          | 7. FIIL  | Fan Inboard inline         |
| 2. MOP  | Motor off end perpendicular   | 8. FIP   | Fan Inboard perpendicular  |
| 3. MOA  | Motor off end axial           | 9. FIA   | Fan Inboard axial          |
| 4. MDIL | Motor drive end inline        | 10. FOIL | Fan Outboard Inline        |
| 5. MDP  | Motor drive end perpendicular | 11. FOP  | Fan Outboard perpendicular |
| 6. MDA  | Motor drive end axial         | 12. FOA  | Fan Outboard axial         |

# Center Hung 2 Bearing Belt Driven Fan Schematic

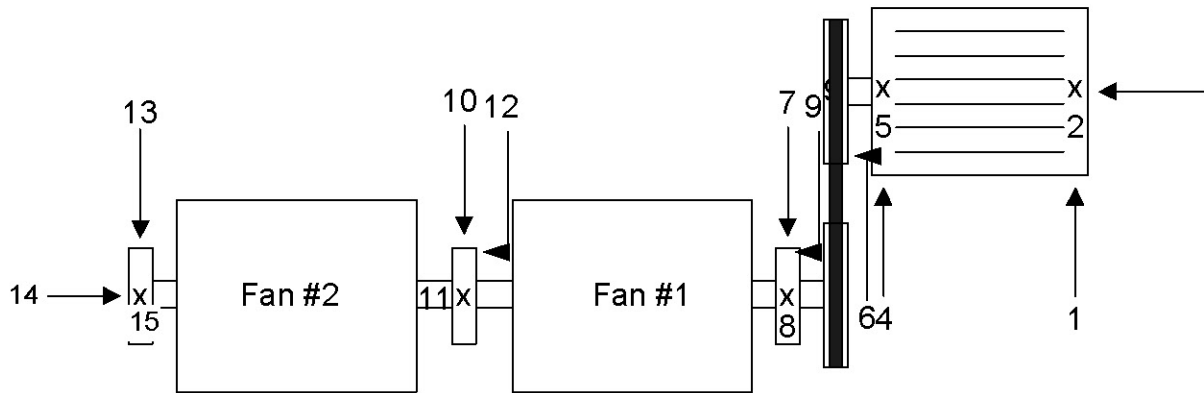
2 Bearing, Center Hung, Belt Driven, Fan Schematic



- 1. MOIL Motor off end in line
- 2. MOP Motor off end perpendicular
- 3. MOA Motor off end axial
- 4. MDIL Motor drive end in line
- 5. MDP Motor drive end perpendicular
- 6. MDA Motor drive end axial

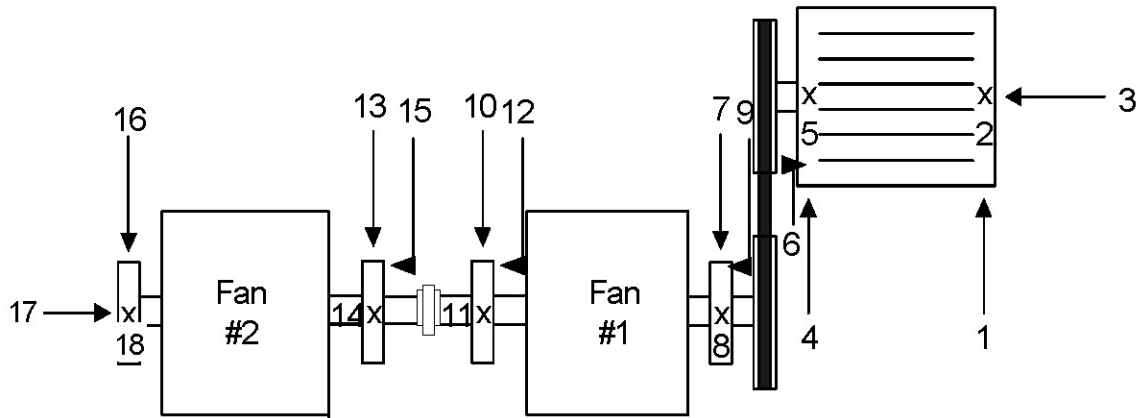
- 7. FIIL Fan inboard in line
- 8. FIP Fan inboard perpendicular
- 9. FIA Fan inboard axial
- 10. FOIL Fan outboard in line
- 11. FOP Fan outboard perpendicular
- 12. FOA Fan outboard axial

### Fan Schematic



- |          |                              |           |                             |
|----------|------------------------------|-----------|-----------------------------|
| 1. MOIL  | Motor outboard in line       | 9. FB1A   | Fan bearing 1 axial         |
| 2. MOP   | Motor outboard perpendicular | 10. FB2IL | Fan bearing 2 in line       |
| 3. MOA   | Motor outboard axial         | 11. FB2P  | Fan bearing 2 perpendicular |
| 4. MIIL  | Motor inboard in line        | 12. FB2A  | Fan bearing 2 axial         |
| 5. MIP   | Motor inboard perpendicular  | 13. FB3IL | Fan bearing 3 in line       |
| 6. MIA   | Motor inboard axial          | 14. FB3P  | Fan bearing 3 perpendicular |
| 7. FB1IL | Fan bearing 1 in line        | 15. FB3A  | Fan bearing 3 axial         |
| 8. FB1P  | Fan bearing 1 perpendicular  |           |                             |

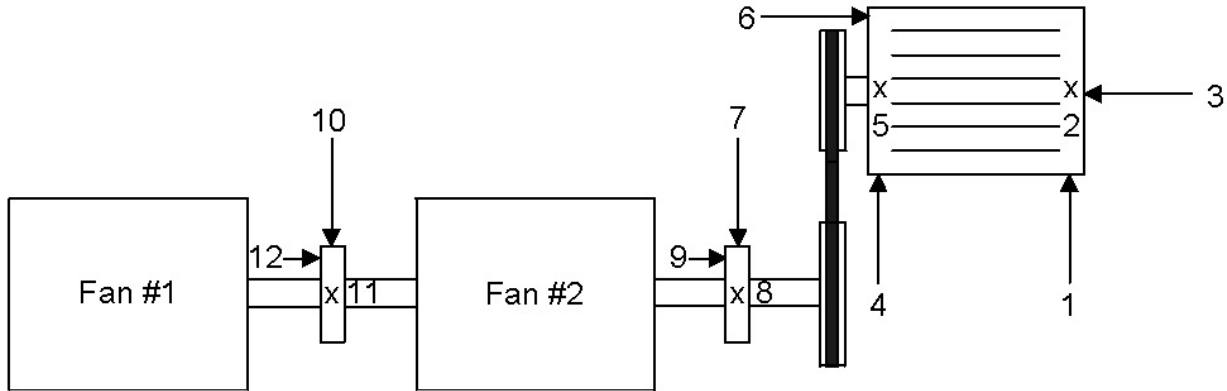
### Fan Schematic



- |          |                              |           |                             |
|----------|------------------------------|-----------|-----------------------------|
| 1. MOIL  | Motor outboard in line       | 10. FB2IL | Fan bearing 2 in line       |
| 2. MOP   | Motor outboard perpendicular | 11. FB2P  | Fan bearing 2 perpendicular |
| 3. MOA   | Motor outboard axial         | 12. FB2A  | Fan bearing 2 axial         |
| 4. MIL   | Motor inboard in line        | 13. FB3IL | Fan bearing 3 in line       |
| 5. MIP   | Motor inboard perpendicular  | 14. FB3P  | Fan bearing 3 perpendicular |
| 6. MIA   | Motor inboard axial          | 15. FB3A  | Fan bearing 3 axial         |
| 7. FB1IL | Fan bearing 1 in line        | 16. FB4IL | Fan bearing 4 in line       |
| 8. FB1P  | Fan bearing 1 perpendicular  | 17. FB4P  | Fan bearing 4 perpendicular |
| 9. FB1A  | Fan bearing 1 axial          | 18. FB4A  | Fan bearing 4 axial         |

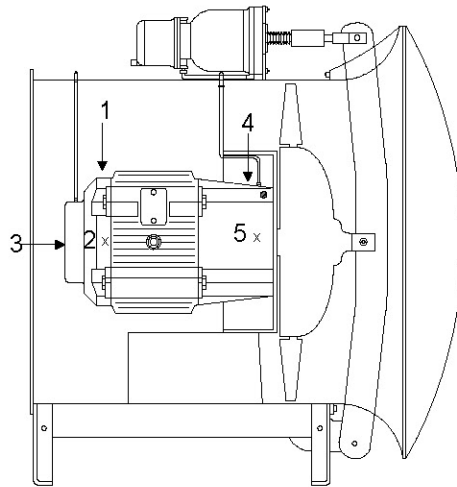
## Center Hung and Over Hung 2 Bearing Belt Driven Fan Schematic

Fan Schematic



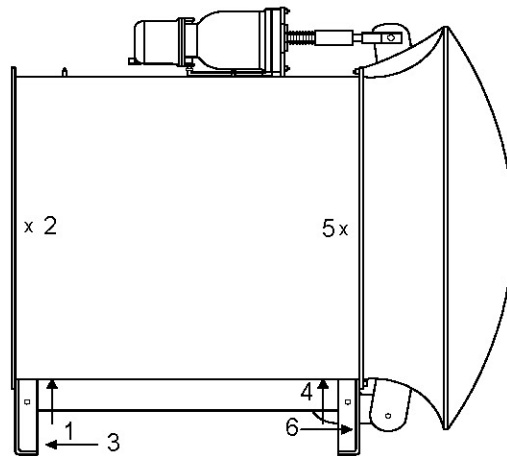
- |    |      |                               |     |      |                            |
|----|------|-------------------------------|-----|------|----------------------------|
| 1. | MOIL | Motor off end in line         | 7.  | FIIL | Fan inboard in line        |
| 2. | MOP  | Motor off end perpendicular   | 8.  | FIP  | Fan inboard perpendicular  |
| 3. | MOA  | Motor off end axial           | 9.  | FIA  | Fan inboard axial          |
| 4. | MDIL | Motor drive end in line       | 10. | FOIL | Fan outboard in line       |
| 5. | MDP  | Motor drive end perpendicular | 11. | FOP  | Fan outboard perpendicular |
| 6. | MDA  | Motor drive end axial         | 12. | FOA  | Fan outboard axial         |

## Fan Schematic



- 1. MOV Motor Outboard Vertical
- 2. MOP Motor Outboard Horizontal
- 3. MOA Motor Outboard Axial
- 4. MDV Motor Drive Vertical
- 5. MDH Motor Drive Horizontal

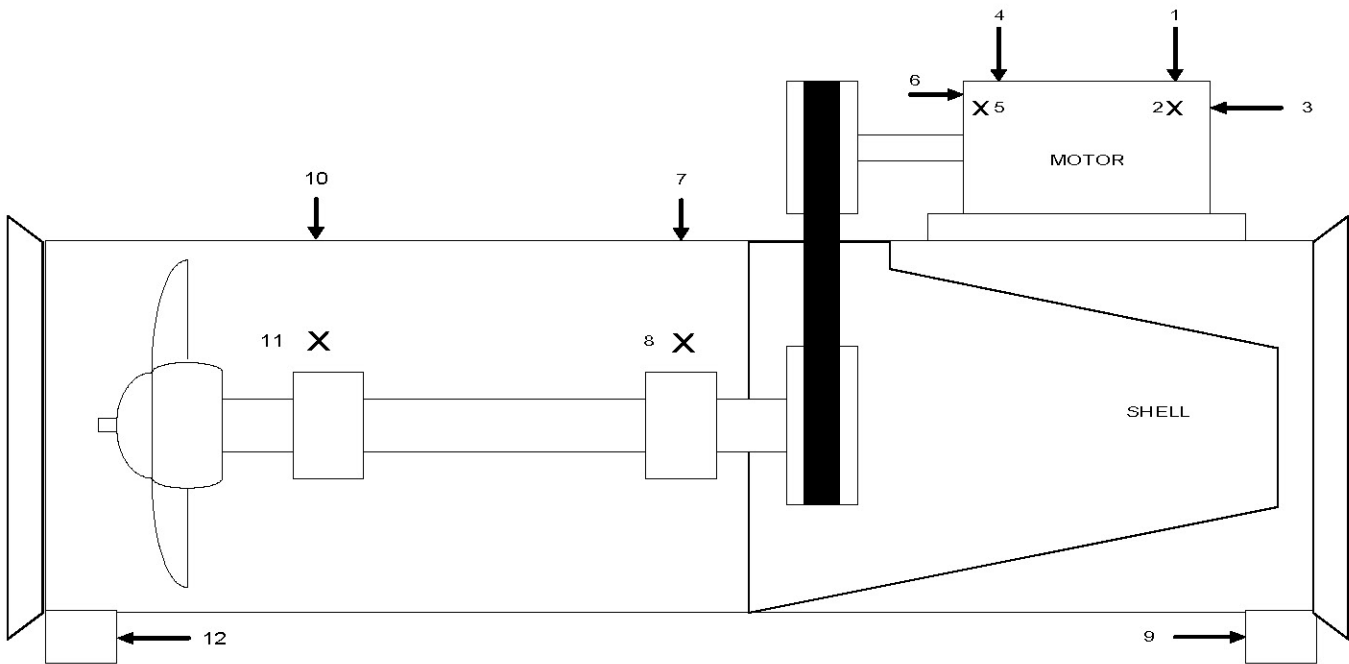
## Fan Schematic



Note: This route is for shell only.

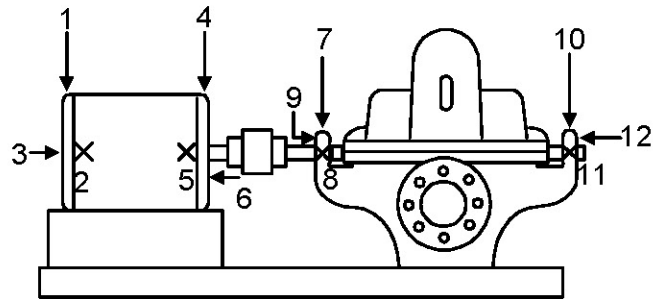
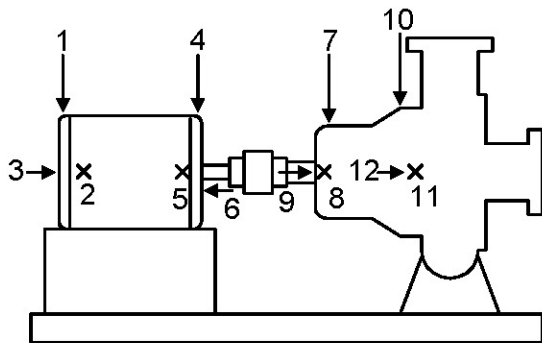
1. SOV Shell outboard vertical
2. SOH Shell outboard horizontal
3. SOA Shell outboard axial
4. SIV Shell inboard vertical
5. SIH Shell inboard horizontal
6. SIA Shell inboard axial

### Fan Schematic



- |    |      |                               |     |      |                            |
|----|------|-------------------------------|-----|------|----------------------------|
| 1. | MOIL | Motor off end in line         | 7.  | FIIL | Fan inboard in line        |
| 2. | MOP  | Motor off end perpendicular   | 8.  | FIP  | Fan inboard perpendicular  |
| 3. | MOA  | Motor off end axial           | 9.  | FIA  | Fan inboard axial          |
| 4. | MDIL | Motor drive end in line       | 10. | FOIL | Fan outboard in line       |
| 5. | MDP  | Motor drive end perpendicular | 11. | FOP  | Fan outboard perpendicular |
| 6. | MDA  | Motor drive end axial         | 12. | FOA  | Fan outboard axial         |

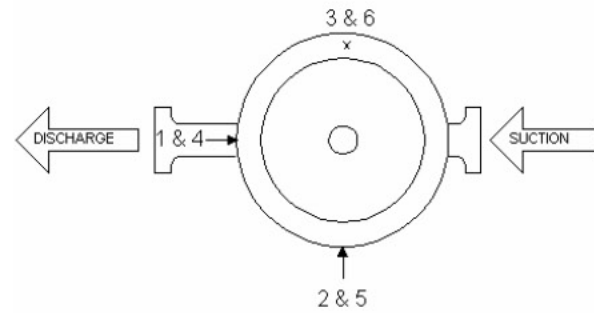
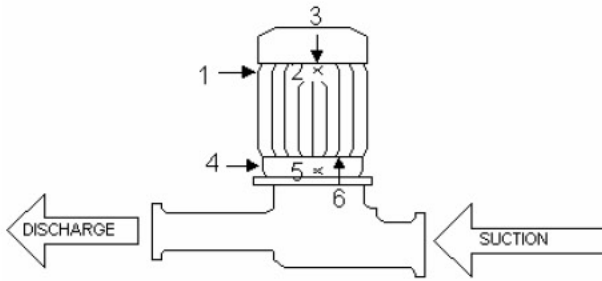
## 2 Bearing Horizontal Pump Schematic



- |        |                            |
|--------|----------------------------|
| 1. MOV | Motor off end vertical     |
| 2. MOH | Motor off end horizontal   |
| 3. MOA | Motor off end axial        |
| 4. MDV | Motor drive end vertical   |
| 5. MDH | Motor drive end horizontal |
| 6. MDA | Motor drive end axial      |

- |         |                          |
|---------|--------------------------|
| 7. PIV  | Pump inboard vertical    |
| 8. PIH  | Pump inboard horizontal  |
| 9. PIA  | Pump inboard axial       |
| 10. POV | Pump outboard vertical   |
| 11. POH | Pump outboard horizontal |
| 12. POA | Pump outboard axial      |

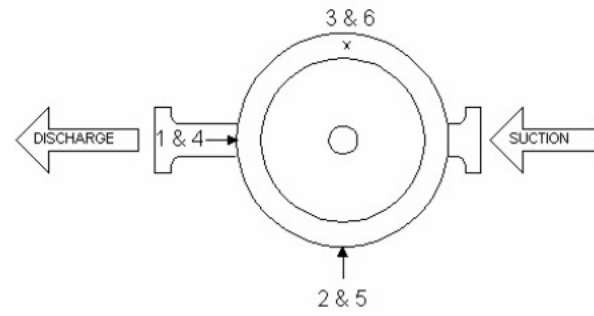
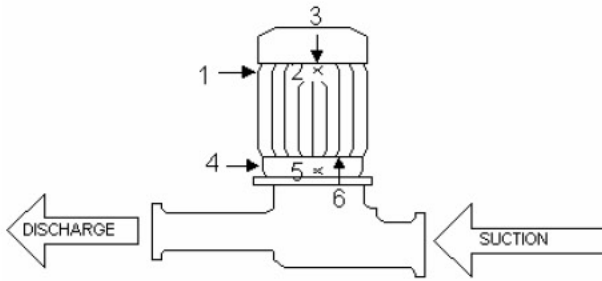
## Pump Schematic



NOTE: "Inline" refers to inline with discharge of the pump.  
 "Perpendicular" refers to perpendicular with respect to the discharge of the pump.

- |        |                             |        |                              |
|--------|-----------------------------|--------|------------------------------|
| 1. MII | Motor inboard in line       | 4. MOI | Motor outboard in line       |
| 2. MIP | Motor inboard perpendicular | 5. MOP | Motor outboard perpendicular |
| 3. MIA | Motor inboard axial         | 6. MOA | Motor outboard axial         |

## Pump Schematic



NOTE: "Inline" refers to inline with discharge of the pump.  
"Perpendicular" refers to perpendicular with respect to the discharge of the pump.

1. MOR1 Motor Outboard Radial 1
2. MOR2 Motor Outboard Radial 2
3. MOA Motor Outboard Axial

4. MDR1 Motor Drive Radial 1
5. MDR2 Motor Drive Radial 2
6. MDA Motor Drive Axial