



**SAWTOOTH**  
INDUSTRIAL

50 E. Ellis St Paul, ID 83347  
Tel 208.312.5868

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## COVER PAGE

### **Bid Solicitation: 20270PR240000192Q**

To whom it may concern,

Sawtooth Industrial is pleased to submit a bid for Solicitation No. 120270PR240000192Q. In this package, you will find the following documents:

1. Quote
2. Sawtooth L36 Equipment Brochure
3. Warranty Literature
4. Major Components Parts Documents

Thank you for your consideration. We look forward to the potential working relationship.

Sincerely,

A handwritten signature in black ink, appearing to read 'SP', is placed above the typed name.

Scott Pilling  
President  
Sawtooth Industrial LLC



# SNOW BLOWER

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## L36 - SELF CONTAINED SNOW BLOWER

### GENERAL DATA

- Capacity: 2,000 tph
- Casing Distance: 150 feet
- Two-Stage Blower Design
- Operating Conditions: -40F to 110F
- Compatible Loader Size: 1-2 Cubic Yard

### DIMENSIONS

- Blowerhead Working Height: 45"
- Spot Chute Working Height: NA
- Total Weight 13,500 lbs.
- Cutting Width: 118"
- Scraper Blade Width: 108"
- Total Height 73"
- Total Length: 113"

### FRAME

- Bolted and Welded Construction
- Steel Rated for Maximum Usage
- Fusion Coupler to Match Loader: ACS Pro Series 2000
- Frame Designed to Withstand Loads Induced by the Loader
- Split Frame for Maintenance

## WARRANTY

- One-Year Limited Warranty
- Warranty Literature to be Included w/ Operator's Manual

## ENGINE

- Diesel Engine Turbo Charged
- Yanmar 4TN107FTT
- HP Rating: 208 HP @ 2200 RPM
- Torque Rating: 627 Lb-Ft
- Heavy-Duty Alternator
- Two Stage Dry-Type Air Cleaner w/ Pre-Cleaner
- Air Restriction Vacuum Gauge
- Heavy Duty Cooling System
- Electronic Controlled Injection System
- Low Oil and High Coolant Temp Shutdown System
- In-Line Heated Fuel/Water Separator w/ Replaceable Element
- Fuel and Oil Filters
- Fuel, Oil and Coolant Reservoirs Include Remote Drains and Easy Access Fills

## COOLING SYSTEM

- Heavy Duty Cooling System
- Permanent Type Antifreeze Rated -40F to 110F
- Radiator and Charge Air Cooler System w/ Galvanized Mesh
- Radiator Clamps Constant Torque Design

## SPOT CHUTE

- Stationary Truck Loading Chute
- 2-Section Chute Deflector
- 270-Degrees Rotation
- Remote Grease Point for Chute
- LED Lights on Chute
- Chain-less Rotation

## ENGINE COMPARTMENT

- Tilting Engine Enclosure for Full Access to Compartment
- Protective Screen Over Radiator
- Completely Water Sealed
- Side Vents
- Actuator to Hold Compartment Open
- Gas Strut Assist When Opening

## FUEL SYSTEM

- 50 Gallon
- Under-Body Fuel Drain
- Under-Body Protective Guard
- Fuel Tank Includes Louvers
- Fuel System Includes Primary Fuel Filter and Secondary Fuel/Water Separator
- Fuel Tank Breather

## HYDRAULIC SYSTEM

- Heavy-Duty Hydraulic Valving w/ Insulated Wiring Connections
- All Functions Controlled Through One Valve Manifold
- Auxiliary Gear Pump for Functions
- Valving controlled On-Demand
- 11-Micron Return Filter
- 10-Gallon Hydraulic Tank w/ Breather, Sight Glass, Remote Drain w/ Ball Valve, Suction Strainer, Chained Cap, & Filler Neck Strainer

## ELECTRICAL SYSTEM

- 12VDC
- STFused Fully Wireless System
- Handheld Remote for All Functions
- 7" LCD Screen In-Cab
- 25' Backup Hardwire
- Wiring Color-Coded
- Wiring Sealed & All Connections Water Proof
- Screen Includes Digital

- Readouts for Tachometer, Hour Meter, Volt Meter, Engine Coolant, Oil Pressure, Fuel Level, and DEF Level
- Audible and Visual Alarms for All Engine and Sawtooth Faults
- Full Diagnostic/Code Center for Engine and Sawtooth Faults w/ Auto Resetting Feature When Code Is Cleared
- Master Emergency Shut Down
- Master Electrical Disconnect
- Automatic Clutch Protection
- Two 1000 CCA Maintenance-Free Batteries
- Lighting Package: LEDs Mounted on Blower Head, Engine Compartment, Spot Chute, and Master Shear Assembly
- Cold Weather Aid Package: Engine Block Heater, Heated Fuel Water Separator.



## POWERTRAIN DRIVE SYSTEM

- Hydrostatic Drive Train
- Heavy-Duty Rugged Hydrostatic Pumps and Motors for both Fan and Reel Drive - NO Shear Pins!
- Heavy-Duty Deaeration Hydraulic Tank
- Independent Charge Pressure Systems
- Infinitely Variable Control for Precise Operation
- Quick Couplers for Maintenance

## BLOWER HEAD

- Two-Stage Design
- First Stage: Ribbon, 36" Diameter, 3/8", Two-Piece, Serrated, Bolted to Heavy-Duty Reels
- Second Stage: Impeller, 36" Diameter, 12" Depth, 1/4" Casing, 5 Blades of Abrasion-Resistant Steel, Blades Individually Replaceable, Full Fan Opening
- Discharge: Flat Cast Right w/ 135-Degree Full Rotation
- Rubber Deflector Bolted to Top of Blower Head Frame
- Housing Rotation by Hydraulic Cylinder

## BLADES/SHOES

- Replaceable Abrasion Resistant Scraper Blade, Full Width, Two Piece
- Adjustable Replaceable Swivel Skid Shoes

## PAINT

- All Surfaces Prepped Before Paint
- Primer: Two Coats of Two-Part Epoxy Primer
- Top Coat: Two-Part Polyurethane Paint
- Paint: Custom Paint Options to Match Customer Preference
- Optional Powder Coat

## DOCUMENTATION

- Complete Set of Operators Manuals, Maintenance Manuals, and Parts Manuals
- Manuals Include Electrical, Hydraulic Schematics & Lubrication Charts.
- Training: 1 Day Operational and Mechanical Training

FOR THE TOUGHEST JOBS, TRUST SAWTOOTH



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# WARRANTY

## ONE-YEAR

### **Limited Warranty**

Sawtooth Parts Department: [parts@sawtoothindustrial.com](mailto:parts@sawtoothindustrial.com), 208-312-1969

Sawtooth Service Department: [service@sawtoothindustrial.com](mailto:service@sawtoothindustrial.com), 208-670-3768

Limited Warranty: Subject to the limitations set forth herein, Sawtooth Industrial warrants its products to be free from defects in material and workmanship for two years or 250 hours from the date when the machine is first put into service. This warranty includes parts and labor. Travel and travel related expenses are excluded from this warranty. Parts used for warranty repairs shall be warranted to the end of the Limited Warranty period or thirty days, whichever is longer. This warranty is not transferable without the written consent of Sawtooth Industrial.

Notice: Sawtooth's obligations under this Limited Warranty are conditioned on Sawtooth receiving, within the warranty period, written notice from Buyer specifying the nature of any alleged defect and requesting corrective action by Seller.

Remedies: Sawtooth, at its option, will repair or replace the warranted items. If requested by Sawtooth, products or parts for which a warranty claim is made shall be returned, transportation prepaid by Sawtooth to Sawtooth's factory. Buyer shall not return any product for repair, replacement or credit without Sawtooth's advance written consent.

Other Manufacturer's Warranty: On products furnished by Sawtooth, but manufactured by any other manufacturer, the warranty of said manufacturer, if any, will be assigned to the end user, if the said warranty is assignable. This includes any portion of said manufacturer's warranty which is longer than the Sawtooth standard warranty. However, Sawtooth does not represent or guarantee that the other manufacturer will comply with any of the terms of their warranty.



Exclusions: Any improper use, operation beyond capacity, or substitution of parts not approved by Sawtooth, or any alteration or repair by others in such a manner as in Sawtooth's judgment materially and/or adversely affects the product shall void this warranty. This warranty does not apply to defects caused by damage or unreasonable use while in the possession of the owner, including but not limited to: failure to provide reasonable and necessary maintenance, normal wear, routine tune-ups or adjustments, specifications, improper or insufficient lubrication or improper storage.

The batteries, consumables, rubber materials, ribbons, brushes, skid shoes, cutting blades and material normally consumed in operation are excluded from this warranty.





# MODEL DRAWING

# L36 + Yanmar Engine Pack

- 36" fan (12" depth)
- 36" Flights
- 116" Plow Width
- S-Style shoes (new Concept)
- Telescoping Truck loading Spot cute with travel folding
- Hydrostatic drive systemn
- 100 Gal fuel tank



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DO NOT SCALE DRAWING All Others  
 DIMENSIONS ARE IN INCHES x.x ±0.10  
 Dual dimensions are in mm x.xx ±0.06  
 Reference dimensions are in ( ) x.xxx ±0.03

TOLERANCES:  
 Fractional ± 1/8"  
 Angular: MACH ±0.5° BEND ±2°  
 Machined/Drilled Holes: ±0.01

CUSTOMER:  
**SAWTOOTH**

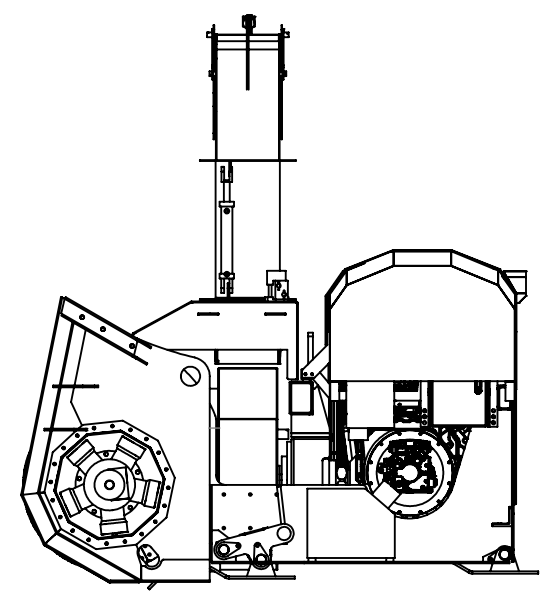
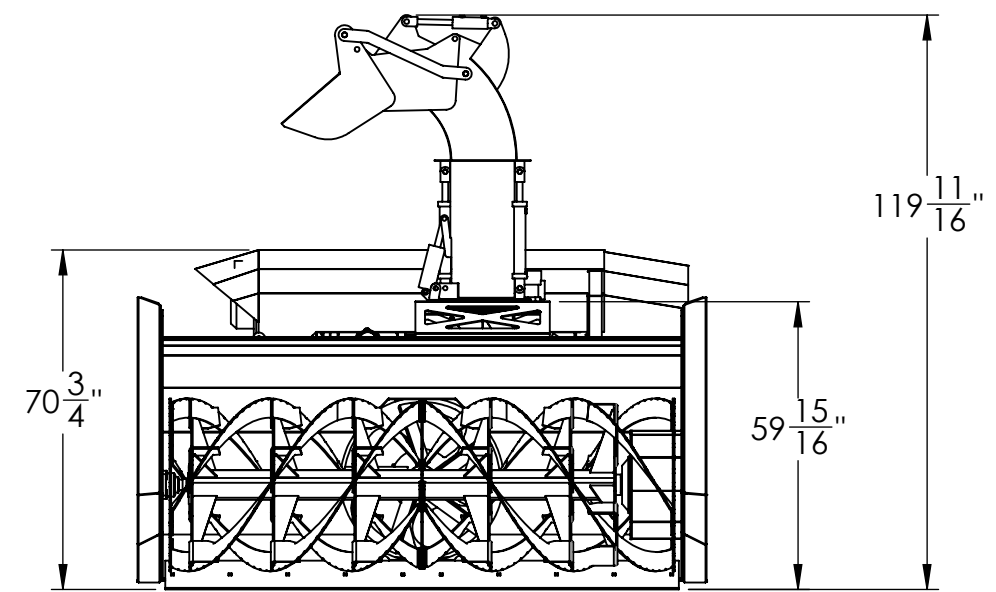
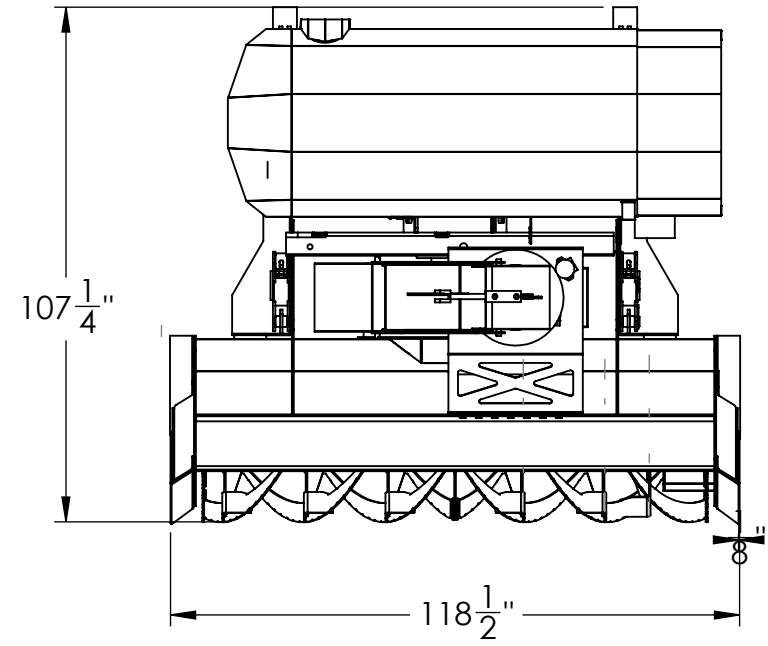
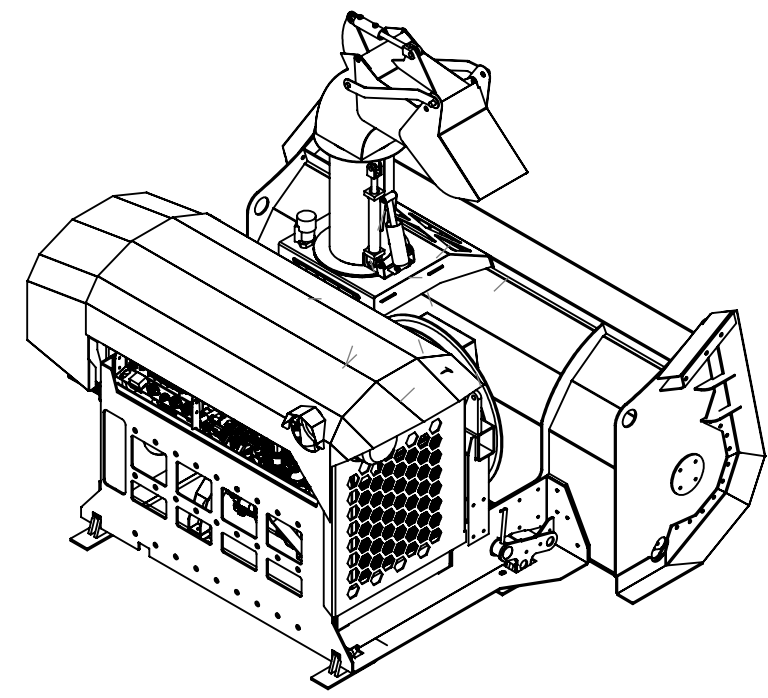
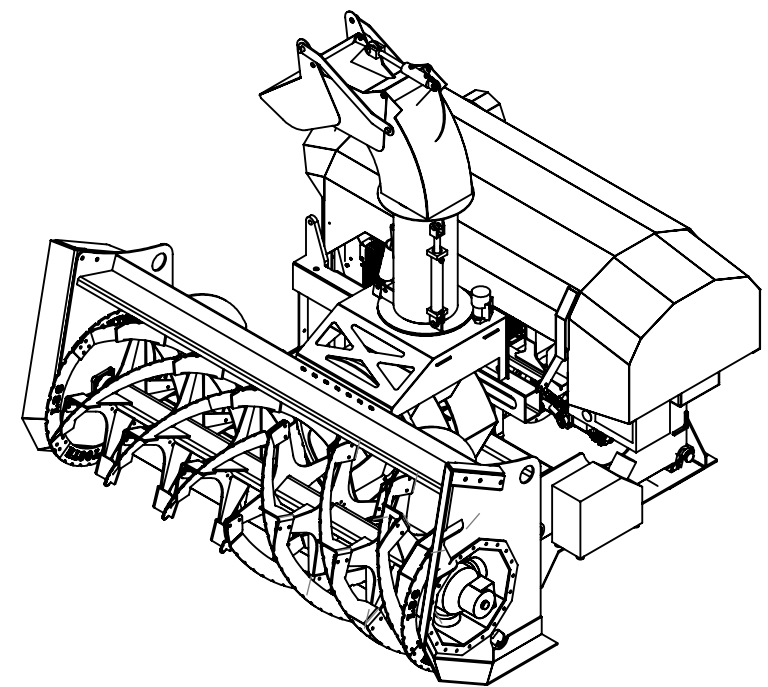
LOCATION: PAUL, ID JOB NUMBER:

DESCRIPTIONS  
 L36 Design

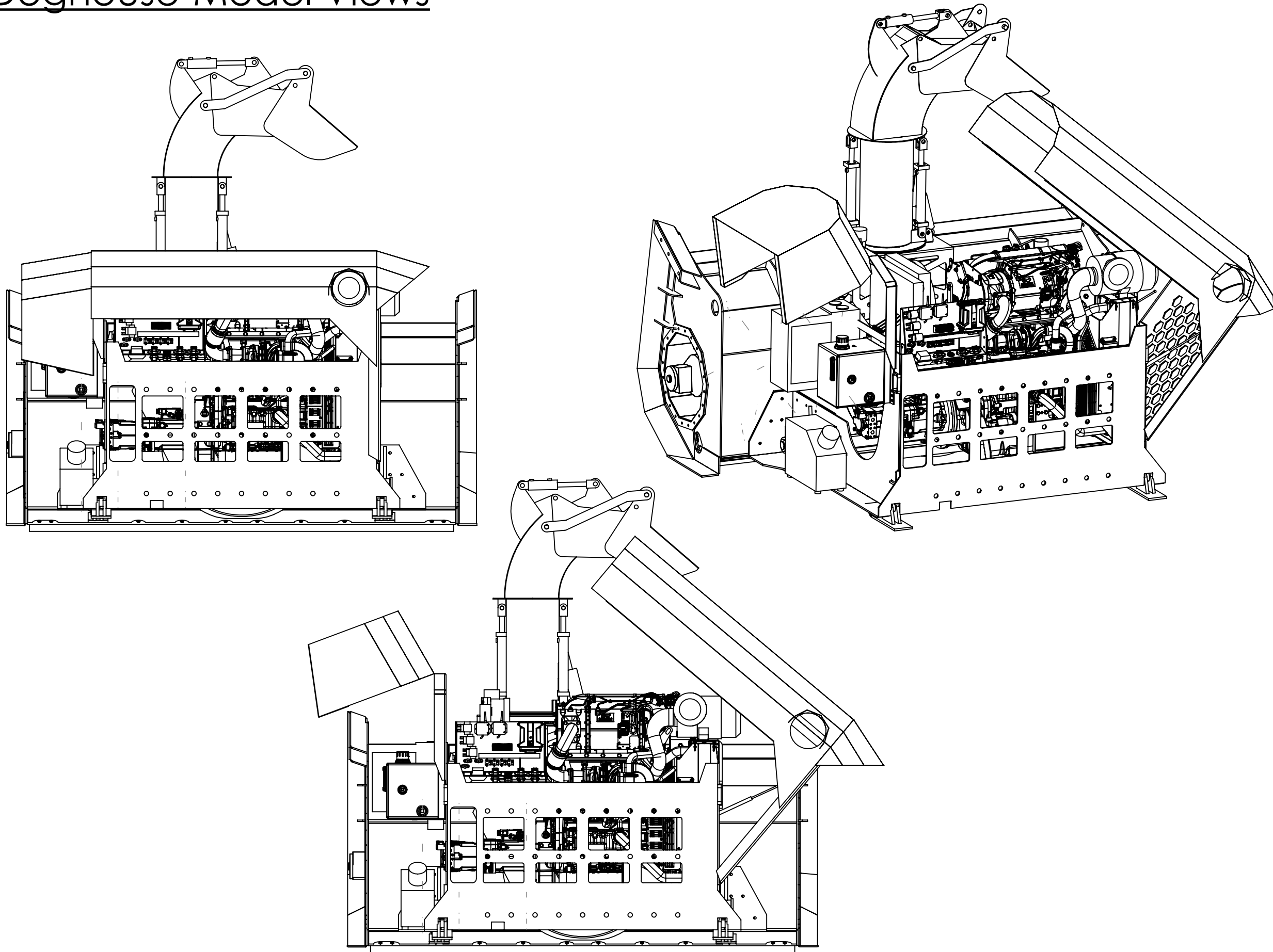
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SCALE: 1:40 SHEET 1 OF 11



# Doghouse-Model Views



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All Others  
 x.x ±0.10  
 x.xx ±0.06  
 x.xxx ±0.03

TOLERANCES:  
 Fractional ± 1/8"  
 Angular: MACH ±0.5° BEND ±2°  
 Machined/Drilled Holes: ±0.01

CUSTOMER:  
**SAWTOOTH**

LOCATION: PAUL, ID

DESCRIPTIONS  
 L36 Design

NOTES:

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SCALE: 1:25 SHEET 10 OF 11



# ENGINE

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## 4TN107FTT-1SYA2

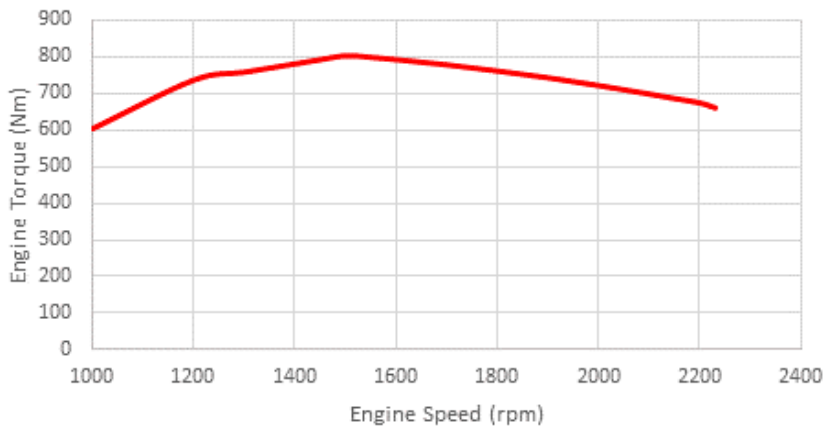
### POWER PACK WITH HARNESS

SPECIFICATION	1SYA2
CYLINDERS	4
BORE X STROKE (mm)	107 x 127
DISPLACEMENT (L / ci)	4.57 / 279
GROSS POWER (kW / HP)	155 / 208
RATED SPEED (rpm)	2200

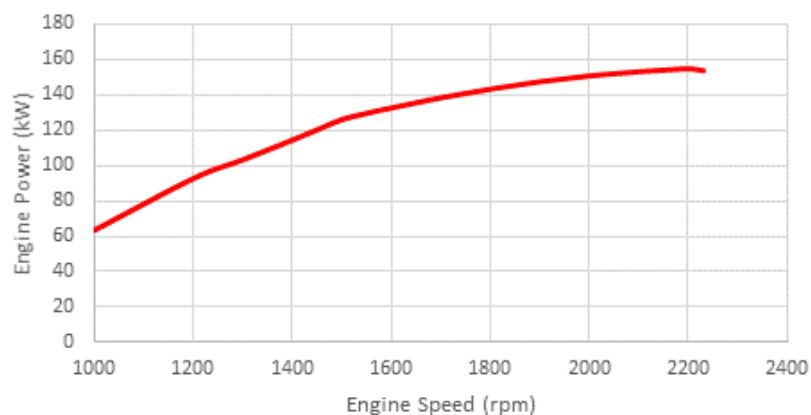
COMBUSTION TYPE	Direct Injection
ASPIRATION	2-Stage Turbo & Intercooled
GOVERNOR TYPE	Electronic
OIL PAN CAPACITY (L/G)	20 / 5.2
ELECTRICAL SYSTEM	12V-240A
FUEL SYSTEM	Common Rail Fuel Injection
COOLING SYSTEM	Complete, Closed Loop System
POWER TAKE OFF	FWH: SAE 3 (FULL) FW: SAE 11.5

	METRIC	STANDARD
LENGTH mm/in	1446.24	56.9
WIDTH mm/in	1000.70	39.4
HEIGHT mm/in	1760.27	69.3
WEIGHT kg/lb	812	1790

#### TORQUE

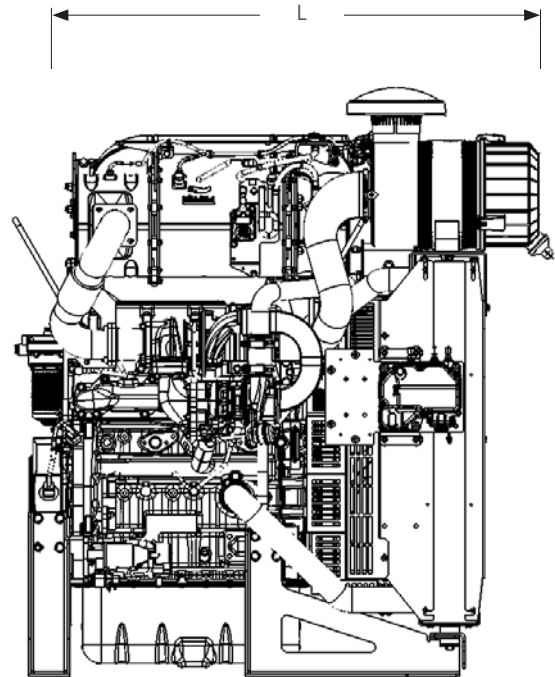
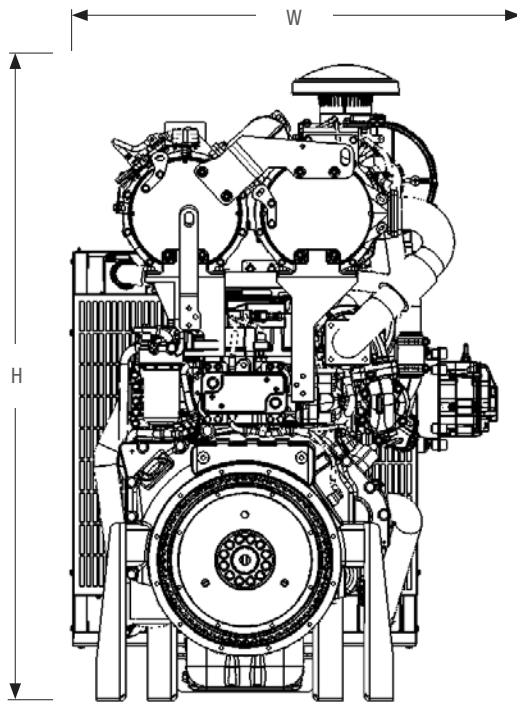


#### POWER

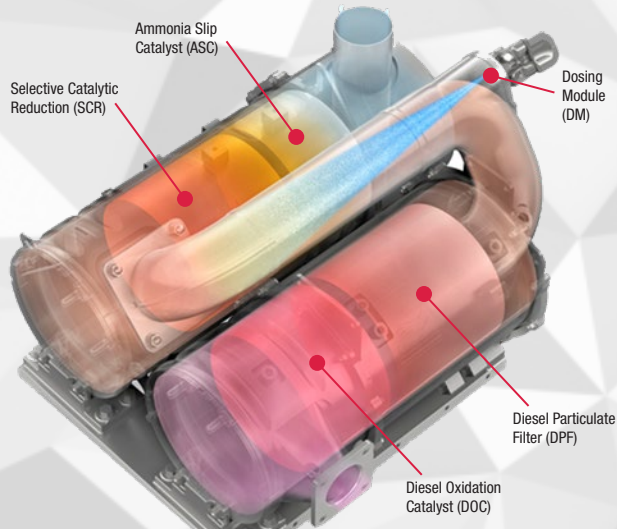


# 4TN107FTT-1SYA2

Standard Kits	Optional Kits Available Separately
Air Cleaner Kit: KAC26	Monochrome Panel: KP8, KP8E, KP8N, KP8-AS, JP8E-AS
Engine Feet Kit: KF8	Color Panel: KP9, KP9N, KP9E, KP9-S
Exhaust Pipe Kit: KM16	Harness Kit: KPH10 (5FT EXT)
Radiator Kit: KR21	Harness Kit: KPH11 (10FT EXT)
Radiator Mounting Kit: KRM17	SAR-Adaptor Harness Kit: KPH12
DEF Kit: KDEF1	
ECU Harness Kit: KPH21	
DCU Harness Kit: KPH22	



## ADVANCED PROVEN TECHNOLOGY | Selective Catalytic Reduction (SCR) System



### AUTOMATIC REGENERATION

No scheduled down time or "out of service" time for cleaning or servicing filters. YANMAR's industry proven DPF regeneration technology provides seamless operation for the customer.

### ROBUST DESIGN

YANMAR's after-treatment system does not need an additional canister section for mixing. Utilizing a side-by-side layout, the length of the canisters are shorter. The mixing pipe design allows for the injection of DEF in line with the flow of exhaust gas. This minimizes the potential for deposit build up around the injector.

### MORE FLEXIBILITY

Providing more design flexibility, YANMAR does not use a mass airflow sensor which allows for more options with air filter placement. \*Yanmar SCR ATD systems may be located

[www.yanmar.com](http://www.yanmar.com) / 770.877.9894

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# **ELECTRONIC MANAGEMENT SYSTEM**

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# ST-FUSED WIRELESS

## FEATURES:

- Handheld Wireless Remote
- 7" LCD Touch Screen
- Backup Operational Controls On Screen In Case of Remote Failure
- No Additional Panels or Joysticks;  
**Only 1 Component to Mount In Cab!**
- Total Weight of Component to Mount In Cab: 3.5 lbs
- Power Button On Side of Screen Panel
- USB Port for Charging On Side of Screen Panel
- Visible and Audible Alarm for Faults
- Custom Position Ram Mount for Optimal Operator Viewing or Face Mount
- Hardwire Backup Connection
- Power and Ground Hookups for Ignition Power
- System Comes with an Electrical Panel to Mount On the Snow Blower with All Necessary Componentry



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