

RESOLUTION 2009-45

5-18-09

RESOLUTION BY THE PUBLIC WORKS AND CAPITAL IMPROVEMENTS COMMITTEE AUTHORIZING THE PURCHASE OF A SKID STEER AND COLD PLANER AND AUTHORIZING THE SALE OF SURPLUS EQUIPMENT

WHEREAS, the Village Board has determined that it would be in the best interests of the Village to purchase a new skid steer and cold planer at a cost estimated at approximately \$47,700 and that the money for said purchase shall come from funds borrowed as part of the 2009 bond issue; and

WHEREAS, the Village Board has determined that certain items of equipment are surplus equipment and no longer needed and should be sold if acceptable bids are received.

NOW THEREFORE, the Village Board of the Village of Sturtevant, Racine County, Wisconsin does hereby resolve:

1. That the purchase of a Case 440 Series 3 Skid Steer and Zanetis 18 " Cold Planer from Miller-Bradford & Risberg, as set forth in Exhibit A which is attached hereto and incorporated herein at total cost not to exceed \$47,700.00 is authorized and approved.
2. That this equipment shall be purchased using the proceeds of the 2009 bond issue.
3. That the Village President and the Village Clerk are authorized to execute any sales contracts or other documents necessary to carry out the intent of this resolution.
4. That the Public Works Director and the Village Administrator, at their discretion, are authorized to set a minimum price and sell the following surplus equipment:
 - A. 1995 Case Model 1840 Uniloader w/BucketSerial (# JAF0154357) 737 Hours
 - B. Kohler 33 Kw, 3 Phase Trailer mounted Generator (Model # 30R751, 99.3 Amps 60 Hertz) 197 hours with Battery Float Charger Engine Serial Number WL 3330461 Gas Engine
 - C. Le ROI Dresser Air Compressor w/ 2 Thor Jack Hammers (Model #40873T) and 100 ft of Hose Waukesha Gas Engine Model # VRG220A (Serial # 368414) 615 Hours
 - D. 1995 Ford, L8000 250 HP Dump Truck with Front 11ft Plow (Wausau Single Trip Edge) and Auger Type Spreader VIN # 1FDYK82E0SVA54923 35400 GVWR FGAWR 14400 lbs RGAVR 21000 lbs 10 Ft Box (7 CY Cap)

Adopted by the Village Board of the Village of Sturtevant, Racine County,
Wisconsin, this 19th day of May, 2009.

Village of Sturtevant

By _____
Steven Jansen, President

Attest _____
Mary Hanstad, Village Clerk

ENGINE

Model	
Case 445T/M3 diesel, Tier III certified	
Type	4-stroke, turbocharged
Cylinders	4
Bore/Stroke	4.1 in x 5.2 in (104 mm x 132 mm)
Displacement	274 in ³ (4.5 L)
Fuel injection	Direct
Fuel	#2 Diesel
Fuel filter	In-line strainer
Air intake	Cross-flow
Cooling	Liquid
Engine speeds (rpm)	
High idle - no load	2415±60
Rated - full load	2300
Low idle	1075±75
Horsepower per SAE J1349	
Gross	90 (67 kW) @ 2300 rpm
Net	83 (63 kW) @ 2300 rpm
Peak torque	
@ 1300 rpm	288 lb-ft (390 N-m)

ENGINE COOLING

Radiator	
Core type	Square wave serpentine
Core size area	377 in ² (.243 m ²)
Rows of tubes	4
Cap pressure	14.0 psi (97.0 kPa)
Fan	
Diameter	18.9 in (480 mm)
Ratio	1.09:1
Water pump	
Style	Integral
Flow	29.0 gpm (110 L/min)
Engine lubrication	
Pump	Deep sump with plate cooler and pressurized under-piston nozzles
Pump operating angle ratings	
Side-to-side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, full-flow cartridge

POWERTRAIN

Drive pump	
Tandem, axial piston hydrostatic transmission with integral charge pump driven directly off engine flywheel	
Pump to engine ratio	1:1
Displacement	0 to 2.81 in ³ (46 cc)
Pump flow @ high idle engine rpm	29.4 gpm (111 L/min)
Flow	Bi-directional
Charge pressure	360 psi (24.8 bar)
System relief	4350 psi (300 bar)
Controls	
Servo	
Drive motors	
Fixed displacement radial piston	
Maximum displacement	28.7 in ³ (470 cc)
Speed @ high idle engine rpm	
@ max displacement	237 rpm
Optional high speed	394 rpm
Torque @ max displacement and relief pressure	
1,655 lb-ft (2245 N-m)	
Travel speed mph (km/h)	
Low range	7.0 (11.2)
High range (optional)	11.4 (18.3)
Final drive	
Single-reduction chain drive	
Drive chain	
Size	ASA #100HV
Tensile strength	30,000 lb (133 447 N)
Axles	
One-piece, forged induction-hardened high carbon steel	
Torque @ max displacement and relief pressure	
4,170 lb-ft (5653 N-m)	
Diameter	2.0 in (51 mm)
Length	14.61 in (371 mm)
Parking brakes	
Spring applied, hydraulic release disc	
Engagement	
Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat, or stop engine	

HYDRAULIC SYSTEM

Standard equipment pump	
Type	Gear pump
Displacement	2.2 in ³ /rev (36 cc)
Pump flow @ rated engine rpm	
Total	21.9 gpm (83 L/min)
Optional high flow @ rated engine rpm	
Total	37.8 gpm (143.1 L/min)
Loader control valve	
3-spool open-center series with power beyond port	
Relief pressure	3050 psi (210 bar)
Port relief pressures	
Loader Raise	3120 psi (215 bar)
Bucket Dump	3800 psi (260 bar)
Bucket Curl	3350 psi (230 bar)
Hydraulic lines	
Tubing	37° JIC Flare
Loop hoses	SAE 100 R12
Hydraulic oil cooler	
Core type	4 row in line
Hydraulic filter	
6 micron spin-on replaceable element on the return line with warning indicator	

INSTRUMENTATION

Indicators	
Digital Hourmeter	
Fuel level LCD bar graph with alarm	
Warning lights with alarms	
Engine coolant temperature	
Engine oil pressure	
Engine Malfunction	
Hydraulic charge pressure	
Hydraulic filter restriction	
Hydraulic oil temperature	
Warning alarms	
Battery voltage (plus display)	
Indicator light	
Engine preheat	
Parking brake	
Seat bar reminder	

ELECTRICAL SYSTEM

Alternator	95 amp
Starter	2.7 kW
Battery	
12-volt low-maintenance 1125 cold-cranking amps @ 0° F (-18° C)	

OPERATOR ENVIRONMENT

ROPS/FOPS level 1 canopy w/side screens	
Tilt ROPS/FOPS	
Rear window w/ emergency escape	
Instrument panels	
Suspension vinyl seat	
2 in (51 mm) retractable seat belt	
Hand throttle	
Foot throttle	
Alarm package	
Headliner	
Top window	
Cup holder	
Power plug socket	
Foot rest	
Storage tray	
Low effort ergonomic hand controls	
Padded seat bar w/integral armrests	
Loader control lockout system	
Electric parking brake control	
Floor cleanout panel	

CYLINDERS

Lift cylinder	
Bore diameter	2.5 in (63.5 mm)
Rod diameter	1.5 in (38.1 mm)
Stroke	35.8 in (910 mm)
Closed length	46.8 in (1190 mm)
Bucket cylinder	
Bore diameter	3.0 in (76.2 mm)
Rod diameter	1.5 in (38.1 mm)
Stroke	14.6 in (370 mm)
Closed length	26.9 in (683 mm)

OPERATING WEIGHTS

Unit equipped with 12 x 16.5 Galaxy Beefy Baby II tires, 66 in (1.6 m) foundry/excavating bucket, mechanical attachment coupler, full fuel tank and 165 lb (75 kg) operator	
	7,040 lb (3193 kg)
Shipping weight	6,390 lb (2898 kg)
Add-on weights	
Side cab glass	+70 lb (32 kg)
Lexan® door	+50 lb (22.6 kg)
Glass door w/wiper	+77 lb (35 kg)
Suspension seat	+10 lb (4.5 kg)

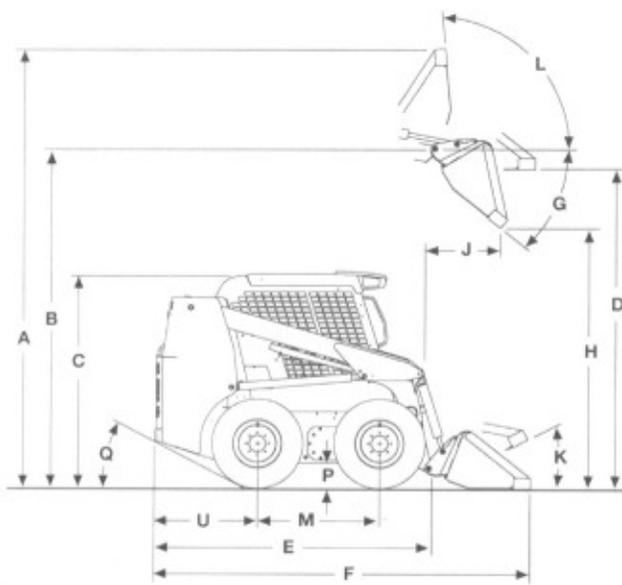
SERVICE CAPACITIES

Fuel tank	22 gal (83.3 L)
Engine oil w/filter	12.7 qt (12 L)
Engine cooling system	3 gal (11.4 L)
Hydraulic system	
Reservoir	7.1 gal (26.8 L)
Total	13.2 gal (50 L)
Chain tanks (per side)	8 qt (7.6 L)

TIRE SELECTION

	Size	Ply Rating	Tread Depth	Tire Width	Width Over Tires	Tire Weight*
Galaxy XD2002	10.00 x 16.5	8	0.59 in (15 mm)	10.7 in (284 mm)	59 in (1.50 m)	52 lb (23.6 kg)
Galaxy XD2002	12.00 x 16.5	10	0.69 in (17 mm)	12.4 in (315 mm)	64 in (1.63 m)	72 lb (32.7 kg)
Galaxy XD2002 (offset wheel)	12.00 x 16.5	10	0.69 in (17 mm)	12.4 in (315 mm)	69 in (1.80 m)	72 lb (32.7 kg)
Galaxy Beefy Baby II	12.00 x 16.5	10	0.81 in (21 mm)	12.4 in (315 mm)	64 in (1.63 m)	82 lb (37.2 kg)
Galaxy Beefy Baby II (offset wheel)	12.00 x 16.5	10	0.81 in (21 mm)	12.4 in (315 mm)	71 in (1.80 m)	82 lb (37.2 kg)
Galaxy Hippo	33/15.50 x 16.5	12	0.81 in (21 mm)	15.2 in (386 mm)	70 in (1.78 m)	94 lb (42.6 kg)
Galaxy Hulk	12.00 x 16.5	12	1.37 in (35 mm)	12.0 in (305 mm)	64 in (1.63 m)	96 lb (43.5 kg)
Galaxy Bulky Hulk	33/15.50 x 16.5	14	1.37 in (35 mm)	15.1 in (384 mm)	70 in (1.78 m)	117 lb (53.1 kg)
Galaxy Solid Flex	12 x 16.5	n/a	.8 in (21 mm)	11 in (279 mm)	61 in (1.54 m)	280 lb (127 kg)
Galaxy Solid Flex (offset wheel)	12 x 16.5	n/a	.8 in (21 mm)	11 in (279 mm)	67 in (1.70 m)	280 lb (127 kg)

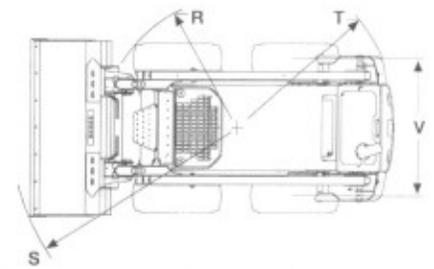
NOTE: *Tire weight does not include wheel weight.



DIMENSIONS*

A. Overall operating height	
w/foundry/excavating bucket – short lip	154.0 in (3.91 m)
w/low profile bucket – standard lip	160.6 in (4.08 m)
w/low profile extended bucket – long lip	165.6 in (4.21 m)
Height to	
B. Bucket hinge pin	121.6 in (3.09 m)
C. Top of rollover protective structure	80.0 in (2.03 m)
D. Bottom of level bucket, loader arm fully raised	114.2 in (2.90 m)
Overall length	
E. w/o attachment w/coupler	102.5 in (2.60 m)
F. w/foundry/excavating bucket on ground	129.4 in (3.29 m)
F. w/low profile bucket on ground	135.1 in (3.43 m)
F. w/low profile extended bucket on ground	140.1 in (3.56 m)
3. Dump angle at maximum height	39°
H. Dump height – loader arm fully raised	
w/foundry/excavating bucket	96.0 in (2.44 m)
w/low profile bucket	93.1 in (2.37 m)
w/low profile extended bucket	90.0 in (2.29 m)
J. Dump reach – loader arm fully raised	
w/foundry/excavating bucket	22.8 in (0.58 m)
w/low profile bucket	25.9 in (0.66 m)
w/low profile extended bucket	29.7 in (0.75 m)
Maximum attachment rollback	
K. Bucket on ground	29°
L. Bucket at full height	96°
M. Wheelbase	42.3 in (1.07 m)
Ground clearance	
P. Bottom of belly pan	9.2 in (234 mm)
Q. Angle of departure	28°
Clearance circle front	
R. less bucket	51.8 in (1.32 m)
S. w/66 in (1.68 m) foundry/excavating bucket in carry position	78.7 in (1.95 m)
S. w/66 in (1.68 m) low profile bucket on ground	84.0 in (2.13 m)
S. w/66 in (1.68 m) low profile extended bucket on ground	85.2 in (2.16 m)
T. Clearance circle rear	59.2 in (1.50 m)
U. Rear axle to bumper	37.0 in (0.94 m)
V. Tread width, centerline to centerline	51.8 in (1.32 m)

NOTE: *Equipped with 12.00 x 16.5 Galaxy Beefy Baby II tires.



PERFORMANCE SPECS

Operating load	2,200 lb (998 kg)
Tipping load	4,400 lb (1996 kg)
Breakout force	
Lift cylinder	4,576 lbf (20 355 N)
Bucket cylinder	6,207 lbf (27 610 N)
Dig depth	
w/bucket flat	0.9 in (23.0 mm)
Cycle time	
Raise	4.1 seconds
Lower	2.6 seconds
Dump	1.7 seconds
Rollback	1.9 seconds

NOTE: SAE rated lift capacities.

OPTIONAL BUCKETS

Type	Width inch (m)	Weight lb (kg)	Heaped Capacity ft ³ (m ³)
Foundry/ Excavating	66 (1.6)	370 (168)	15.2 (0.43)
	72 (1.8)	390 (177)	16.7 (0.47)
	78 (2.0)	435 (197)	18.4 (0.52)
Low Profile	66 (1.6)	400 (181)	13.2 (0.37)
	72 (1.8)	425 (193)	14.5 (0.41)
Low Profile Extended	66 (1.6)	434 (197)	15.5 (0.44)
	72 (1.8)	477 (216)	17.1 (0.48)
	78 (2.0)	502 (228)	18.6 (0.53)
Utility/Light Material	72 (1.8)	434 (197)	23.7 (0.67)
	84 (2.1)	497 (225)	27.9 (0.79)
Heavy-Duty/ Dirt	66 (1.6)	474 (215)	13.3 (0.37)
	72 (1.8)	501 (227)	14.6 (0.41)
	78 (2.0)	527 (239)	15.9 (0.45)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS level 1 canopy w/side screens
Tilt ROPS/FOPS
Rear window w/emergency escape instrument panels
Suspension vinyl seat
2 in (51 mm) retractable seat belt
Hand throttle
Foot throttle
Alarm package
Headliner
Top window
Cup holder
Power plug socket
Foot rest
Storage tray
Low effort ergonomic hand controls
Padded seat bar w/integral armrests
Loader control lockout system
Electric parking brake control
Floor cleanout panel

LOADER

Radial loader arm design
Mechanical attachment coupler
Loader lift arm support

ENGINE

Case 445T/M3 diesel
Tier III certified
No maintenance belt
Battery disconnect switch w/jumpstart terminals
Side-by-side radiator and oil cooler
Grid heater
Integral engine oil cooling
Fuel filter w/water trap
Dual element air cleaner
95 amp alternator
1125 CCA 12-volt battery

POWERTRAIN

Hydrostatic four wheel drive
Servo controls
ASA #100HS drive chain
SAHR disc parking brakes

HYDRAULICS

Auxiliary hydraulics 3050 psi (210 bar) – 21.9 gpm (83 L/min)
Hydraulic circuit pedal lock
Loader arm-mounted ISO flat face connectors
Auxiliary function lockout override
Loader function lockout system
Loader lift lockout override
3-spool loader control valve
Heavy-duty oil cooler
Loader arm float position

OTHER

Integral bumper counterweight
Lockable service access hood
Single-point daily servicing
Halogen lights, 2-front, 1-rear
Rear tail lights
Options harness
Battery disconnect switch/jump start terminals

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Deluxe cloth suspension seat w/heater and lumbar support
Interior mirror
Electric auxiliary hydraulic control
Glass front door w/wiper & washer
Sliding side windows
3 inch retractable seat belt
Heater and AC
Radio
Demolition door

LOADER

Auxiliary front electric control
Ride control
Pilot controls
Hydraulic attachment coupler
Hydraulic one-way self-leveling

HYDRAULICS

High-flow auxiliary hydraulics
3050 psi (210 bar) – 37.8 gpm (143.1 L/min)
Second auxiliary hydraulics
Attachment case drain plumbing

ENGINE

Coolant block heater

OTHER

2 speed ground drive
Deluxe instrument panel
Road lights
Rotating beacon
Lift hooks
Special paint
Language decals
Factory-installed tires – see page 2
Buckets – see page 3
Bolt-on bucket cutting edges
42 in (1.07 m) and 43 in (1.22 m) pallet forks
Steel tracks

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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ZANETIS

Power Attachments

- **Zanetis high flow planer drivelines consist of a planetary gear hub coupled to a piston motor.**
This driveline combination puts the load on the large bearings and gears within the torque hub and not on the motor, giving the owner years of service. Universal is direct drive, producing lower torque.
- **Zanetis drums are 1.5" thick, providing a longer wear life and adding weight to the cutting area.**
A feature enhanced by the fact that the torque hub is mounted within the drum, adding 90 lbs. over the cut.
- **Zanetis planers are equipped with wheels and side skids for fine grade control.**
The wheels decrease the rolling resistance while the skids maintain depth over voids in the pavement.
- **Zanetis planer tooth clearance from the tip of the tooth to the surface of the drum is 5 inches.**
This distance is twice that of the competition and greatly reduces drag in the cut, increasing overall production. This is like the "open drum" design, but with a solid tube drum which is a stronger design.
- **Zanetis cutting depth on all high flow planers is 8" which is 2" deeper than any other brand.**
This benefit allows the operator to cut completely through pavements for patch repair, utility cuts and stabilization.
- **Zanetis drum hood exposes the front *and* sides of the drum, allowing excellent tooth access.**
No other skidsteer planer offers such excellent access to the side cutters, decreasing maintenance time. Universal's hood does not expose the sides of the drum.
- **Our 18" weighs 2,070lbs versus Universal at 1,700lbs published weight, reducing bouncing in the cut.**
- **Zanetis planers have only one grease point, which is located on the deadshaft bearing.**
When asphalt dust and grease are combined, it creates a grinding compound and accelerates wear. All other pivot points use replaceable bushings that are impregnated with PTFE- based Teflon lining. Universal's planer has 5 grease zerks, requiring the operator to find and grease all for proper lubrication.
- **Zanetis planers carry an unmatched 18 month parts and 12 month labor warranty.**
Burriss is offering a 90 day warranty, which will barely get them thru the '09 season.