1-22-2004

STANDARD 60Hz SPECIFICATION # 2004-667-1

HARRIS GORILLA-"C" 200T-13/9

I. Dimensions:

A. Bale Chamber:	29" high x 60" wide x 40" deep
B. Charge Box:	28" high x 60" wide x 159" long
C. Overall Baler Length:	437"
D. Box Opening:	60" x 101 1/4" @ Center of knives
E. Standard Hopper:	
1. Hopper Opening (Top):	86" wide x 98 – 109 3/4" long
2. Hopper Height:	96"
3. Max. Machine Height (Cooler):	129"
4. Baler Width:	Without extended side ram 208" With extended side ram 236"
F. Approximate Weight W/Oil:	48 tons
G. Approx. Exp. Bale Size:	31" x 63" x 45"
H. Approx Bale Volume:	51 cu/ft.

II. Performance Ratings - Corrugated: Input Density: 3.0-6.0 lbs./cu.ft.

A. Density:	25 - 31 lbs./cu.ft.
B. Bale Weight:	1250 - 1550 lbs.
C. Tons/Hour w/o door:	23 - 27
D. Tons/Hour with door:	19 - 22

Performance Ratings - Solid Waste: Input Density: 7.0-12.0 lbs./cu.ft.

A. Density:	38 - 50 lbs./cu.ft.
B. Bale Weight:	1975 - 2600 lbs.
C. Tons/Hour w/o door:	44 - 67
D. Tons/Hour with door:	36 - 54

Performance Ratings - Newsprint: Input Density: 6.8-8.0 lbs./cu.ft.

A. Density:	28 - 36 lbs./cu. ft.
B. Bale Weight:	1375 - 1750 lbs.
C. Tons/Hour w/o door:	34 - 43
D. Tons/Hour with door:	27 - 35

Performance Ratings - UBC Aluminum: Input Density: 1.5-4.5 lbs./cu.ft.

A. Density:	22 - 26 lbs./cu. ft.
B. Bale Weight:	1000 - 1200 lbs.
C. Tons/Hour w/o door:	13 - 21
D. Tons/Hour with door:	12 - 17

Performance Ratings - Tin Cans: Input Density: 6.0-9.0 lbs./cu.ft.

A. Density:	34 - 49 lbs./cu. ft.
B. Bale Weight:	1550 - 2250 lbs.
C. Tons/Hour w/o door:	32 - 50
D. Tons/Hour with door:	26 - 40

Performance Ratings - Plastic: Input Density: 1.2-4.0 lbs./cu.ft.

A. Density:	23 - 30 lbs./cu.ft.
B. Bale Weight:	1250 - 1625 lbs.
C. Tons/Hour w/o door:	12 - 22
D. Tons/Hour with door:	10 - 18

Performance Ratings - Non-Ferrous: Input Density: 3.0-6.5 lbs./cu.ft.

A. Density:	33 - 52 lbs./cu.ft.
B. Bale Weight:	1500 - 2400 lbs.
C. Tons/Hour w/o door:	22 - 37
D. Tons/Hour with door:	19 - 31

* NOTE: Performance Rates and/or Production Rates are subject to Material Input Density, Feed Rates, and other Variables of Production outside the control of HWMG, Inc.

III.	Hydraulics:	3500 p.s.i. system operating pressure.
	A. Main Cylinder:	13" bore secured to platen with four "easy-off" bolts. 232 tons force, 277 p.s.i. ram face pressure. Flame hardened rod, Teflon Piston.
	B. Eject Cylinder:	9" bore secured to platen with four "easy-off" bolts. 111 tons force 203 p.s.i. ram face pressure. Flame hardened rod, Teflon Piston.
	C. Flooded Suction Hydraulic Pumps:	Main flow = 672 GPM Circulation = 127 GPM Total Flow = 799 GPM
	D. Hydraulic Valving:	State-of-the-art cartridge and spool valves
	controlling all hydraulic functions.	
	E. Reservoir Capacity:	1600 gallons.
	F. Filter:	7 micron, nominal.
	G. Cooler:	Oil to air - thermostatically controlled.
	H. Heaters:	9 KW thermostatically controlled oil heater.

IV. Power Unit:

A. Motors:

Main - (2) 100 HP, 460/3/60, 1750 RPM. Open, drip proof.
Cooler Fan - (1) 10 HP 460/3/60, 1160 RPM. TEAO.
Oil Circ. - (1) 20 HP, 460/3/60, 1750 RPM. ODP.

B. Starters:

Wye-Delta main motor starters with overload protection. Auxiliary motors are across-line started.

C. Location:

Standard power unit location is parallel and alongside baler on the side opposite the bale eject. Optional power unit locations available at additional cost.

V. Controls:

A. Type:

Solid-state programmable controller with a color graphic display in the operator console.

B. Functions:

Harris Navigator Control System for both Automatic or Manual baling cycles. Push buttons, joy sticks and OIT are mounted on operator console. Digital pressure and position indication. Full self diagnostics. . Multiple baling and strapping modes. Modem is standard.

C. Location:

Control console mounted over compression chamber. Optional locations available.

VI. Electrical Enclosures:

Standard enclosures are NEMA 12 and are NOT suitable for outdoor operation.

VII. Construction:

A. Main Frame:

The main frame and compression chamber are constructed of heavy steel plate and reinforcing ribs. The floor is reinforced with 10" beams. Critical components are machined to insure proper fit. Wear surfaces are covered with replaceable Hardox © liners. Back wall is reinforced solid steel plate. Floor ribs are standard.

B. Platens:

Both the gathering and eject platens are heavy steel weldments, machined as necessary to achieve tolerances.

C. Piping: ASTM A-106 Schedule 160 and 80. Joints are welded with bolted, O-ring sealed flange connections. Suitable pipe clamps and supports are provided for all pipe runs.

D. Fixed Knife: Fitted with Harris' unique **"Smart-knife" adjusting system. No shims are required. Serrated knives are an available option.

E. Liners: Harris' quick-change floor liner and main platen shoe replacement system **"Sky-jacker" is standard and includes segmented floor liners for easy handling and replacement. Main platen shoe and floor liner can be replaced without removal of main platen.

VIII. Tying Unit: L&P Wire-Tie, Model Series 330 or 340.

IX. Testing: Machine will be assembled and tested prior to shipment.

X. Startup Service: Startup in accordance with the Harris Startup Service Policy.

XI. Other Services: A maintenance and operation training school in Cordele, GA is available. Ask for details.

XII. Purchaser to provide:
(Unless stated otherwise in Proposal or Contract.)

A. Approximately 1600 gallons of hydraulic oil.
B. Electric power to baler motor control center.
C. Foundation and anchoring plan acceptable to Harris conveyors, conveyor pits, and all required site preparation.
D. Personnel, equipment and tools to unload, assemble and install equipment. Spreader bars are required for lifting equipment.
E. Wire for automatic tier.
F. Adequate and appropriate materials for processing during the Start-up/Training period.
G. Conveyor pit and apron closures, guards and access.
H. Tools and spare parts for performing maintenance, adjustments and troubleshooting.

XIII LIMITED WARRANTY:

This machine is covered under Harris warranty (HWMG, Inc.990101W-Std) which is attached.

XIV. Options: Harris offers many options including:

-- Installation or installation assistance
-- Conveyors
-- Hopper extension
-- Bale run out table
-- Climate controlled operator's cab
-- Oversize bale release door
-- Combination bale release and separation door
-- Plus many more, please consult your Harris representative

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XV. Acceptable Materials: This baler is intended to process the following materials; any materials other than these could severely damage the machine and will void the warranty.

A. Empty aluminum cans.
B. Empty tin cans, buckets or barrels, 55 gallons or less.
C. High grade paper if segregated and "delumped."
D. Corrugated paper.
E. Solid waste (excluding large pieces of masonry, steel or other such non compressibles.) Ferrous metals greater than 1/8" thickness or 3/8" in diameter along with masonry and concrete greater than 2 square inches in cross section or 12" in length are not acceptable materials for processing. Glass, masonry and other such abrasive NON-compressibles can cause excessive wear or damage and can interfere with baler functions such as shearing or the operation of the door. Therefore, the content of this type material should be minimized.
F. Drywall.
G. Wooden pallets.
H. Empty PET bottles.
I. "White goods" without motors and transmissions.
J. Newsprint if segregated and "delumped."
K. Aluminum siding and aluminum cable less than 1" diameter.
L. Aluminum extrusions less than 1/2".
M. Copper less than 1/2" thick.
N. Radiators (automobile only made of aluminum or brass).
O. Steel cable less than 3/8" in diameter.
P. Non-magnetic ferrous material with a thickness no greater than 1/8".
Q. Rags.
R. Ferrous material with a tensile strength of less than 50,000 lbs/sq. inch, a thickness of no more than 1/8" and a cross section of no more than 1/4" sq. inches.

NOTE: 1. Some bridging may occur in the hopper depending upon the material being processed and how the material is being presented to the hopper. Wet solid waste may tend to extrude the plug bale if the baler has no baling door. Some materials may require pre-conditioning, consult your Harris representative.

2. The knife edges and the vertical blade clearance must be maintained within the limits established by the knife blade gauge furnished with the machine; however, the clearance must, in any event, be less than the thickness of the thinnest metallic material being processed.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

The provisions of this specification shall apply unless specifically provided for otherwise in your Proposal or Contract.