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Evaluation Report





Flexi-coil 10-50 Grain Auger





FLEXI-COIL 10-50 GRAIN AUGER

MANUFACTURER AND DISTRIBUTOR:

Flexi-coil Ltd. 1000-71 St. E. Saskatoon, Sask. S7K 3S5 Tel: (306) 934-3500

RETAIL PRICE: \$5,518.00 (June 1991, f.o.b. Portage la Prairie, MB) Optional reverser \$262.00 and transfer auger \$1,779.00

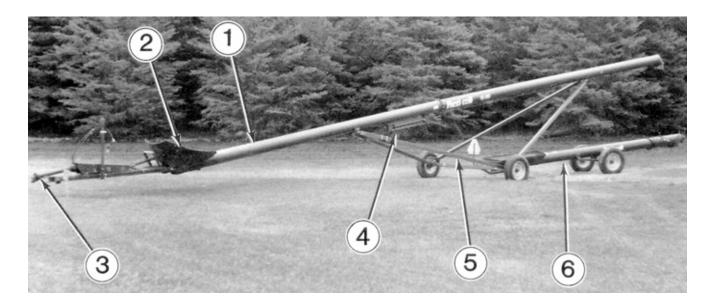


FIGURE 1. Flexi-coil 10-50: (1) Main Auger Tube, (2) Inlet Hopper, (3) PTO Drive, (4) Lift Cylinder, (5) Undercarriage, (6) Optional Transfer Auger (in transport position).

SUMMARY

Rate of Work: At the 30° elevation angle, corresponding to a discharge height of 25.2 ft (7.7 m), maximum capacities were 5720, 5300, 6010 and 5090 bu/h (149, 92,144 and 102 t/h) in wheat, oats, canola, and standard material respectively. Maximum capacities were usually obtained at flighting speeds between 490 and 600 rpm.

Quality of Work: Quality of work was very good. In dry wheat, damage was less than 0.2% for each pass through the auger.

Ease of Operation and Adjustment: The discharge height could be varied from 11.0 to 32.1 ft (3.4 to 9.8 m). Bin eave clearance varied from 8.5 to 15.8 ft (2.6 to 4.8 m) and reach varied from 10.7 to 21.1 ft (3.3 to 6.4 m) at elevation angles of 11.5° to 40° respectively.

Ease of operation was very good. The auger was easily positioned at the loading/unloading site from the tractor seat.

Ease of hitching the auger was very good. It utilized a 540 rpm PTO shaft and two hydraulic circuits.

Ease of manoeuvring was very good. The large hitch weight of 370 lbs (184 kg) made moving the auger by hand impractical. However, it could be transported, raised, positioned and operated from the tractor seat.

Ease of transporting was very good. It was stable at speeds up to 30 mph (50 km/h) on paved highways and gravel roads.

Ease of operating the optional transfer auger was very good. It was not attached to the main auger and was useful for unloading

hopper bottom bins or trucks with belly dumps.

Ease of lubrication was very good. The auger had six grease pressure nipples that were easy to get at.

Power Requirements: Power requirements for the main auger in dry grain ranged from 8 to 28 hp (6 to 21 kW). The Flexi-coil 10-50 required a tractor with a PTO shaft capable of 540 rpm and dual remote hydraulics capable of 1500 psi (10.3 MPa).

Operator Safety: The safety of the Flexi-Coil t0-50 was very good. All pinch points, rotating drive shafts, and inlet flighting were guarded in accordance with ASAE standards for safety.

Operator's Manual: The operator's manual was excellent. The manual was clearly written and illustrated.

Mechanical History: No mechanical problems were encountered during the test period.

RECOMMENDATIONS

It is recommended that the manufacturer consider: 1. Supplying a safety chain for the hitch of the main auger and the optional transfer auger.

Station Manager: B. H. Allen

Project Manager: R.K. Harris

THE MANUFACTURER STATES THAT:

1. The proper operation of the available safety chains is covered in the operator's manual. Consideration is being given to offering the safety chains as standard equipment.

GENERAL DESCRIPTION

The Flexi-coil 10-50 Grain Auger (FIGURE 1) is a 10 in (250 mm) diameter, 50 ft (15.2 m) long portable screw conveyor with a fixed hopper section at the inlet.

The main auger tube is mounted on a square tubular undercarriage and is raised or lowered hydraulically. The hitch portion, located forward of the inlet hopper is also raised or lowered hydraulically. The auger utilizes a direct drive 540 rpm, PTO drive shaft to the auger flighting, connected at the inlet end of the auger.

The test machine was equipped with an optional direction of rotation reversing device to aid in cleaning and emptying the auger tube. The Flexi-coil 10-50 is compatible with an optional transfer auger that is not an integral part of the main auger.

The transfer auger is 18 ft (5.5 m) in length, 10 in (250 mm) diameter and is powered by a hydraulic motor. The transfer auger is equipped with a wheeled undercarriage and is used to unload hopper bins, trailers or trucks.

Detailed specifications are presented in APPENDIX I.

SCOPE OF TEST

The machine evaluated by PAMI was configured as described in the General Description, FIGURE 1 and the Specifications section of this report. The manufacturer may have built different configurations of this machine before or after PAMI tests. Therefore, when using this report, check that the machine under consideration is the same as the one reported here. If differences exist, assistance can be obtained from PAMI or the manufacturer to determine changes in performance.

The Flexi-coil 10-50 grain auger was run 15 hours, loading canola into rail cars prior to capacity and power tests. During this 15 hour period, the auger moved 66,000 bu (174 t) of canola.

Capacity tests consisted of operating the auger in wheat, oats, canola and standard material. The auger was operated in each crop at a range of speeds from idle up to a maximum of 540 rpm. The auger was tested at 200, 300, and 400 or maximum height. All capacity tests were conducted with the inlet hopper adjusted so it was in contact with the ground.

The Flexi-coil was transported over gravel roads and paved highways for a distance of 50 mi (80 km). It was evaluated for rate of work, quality of work, ease of operation and adjustment, power requirements, and suitability of the operator's manual. Mechanical history and problems were also noted and recorded.

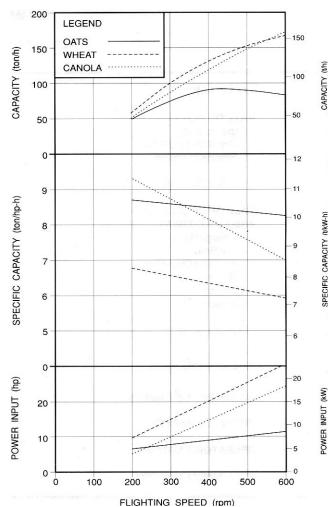
RESULTS AND DISCUSSION

RATE OF WORK

Capacity: FIGURE 2 shows the capacities of the Flexi-coil 10-50 in various dry grains at 30° elevation angle. Maximum capacities at this angle were 5720, 5300, 6010, 5090 bu/h (149, 92, 144, 102 t/h) in dry wheat, oats, canola, and standard material respectively. As flighting speeds are increased, the capacity of screw conveyors increases to a peak, then levels off or decreases. Maxi mu m or peak capacities for the Flexi-coil 10-50 occurred at flighting speeds (PTO speeds) ranging from 490 to 600 rpm. Capacities at 20° of elevation were significantly higher. At 540 rpm in dry wheat, the Flexi-coil produced a maximum capacity of 6210 bu/h (162 t/h).

The effect of elevation angle on capacity is illustrated in TABLE 1. Peak capacities in wheat dropped 23.5% from 6210 bu/h (162 t/h) at 20° elevation to 4750 bu/h (124 t/h) at the maximum 40° elevation.

The Flexi-coil 10-50 was operated in dry wheat at 20° , using the optional 18 ft (5.5 m) x 10 in (250 mm) diameter transfer auger to feed the inlet hopper of the 10-50. With the inlet hopper of the transfer auger flooded, and the main auger operating at 540 rpm, the capacity of the main auger was reduced by about 25%. Maximum obtainable capacity with the transfer auger was 4700 bu/hr (123 t/h).



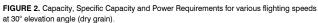


TABLE 1. Peak Capacity, Specific Capacity and Power Requirements vs Elevation Angle (dry wheat).

| ELEVATION ANGLE degrees | DISCHARGE HEIGHT ft (m) | PEAK CAPACITY bu/h (t/h) | SPECIFIC CAPACITY ton (t) hp·h (KW·h) | POWER INPUT hp (kW) |
|-------------------------------|-------------------------------|--------------------------------|------------------------------------------------|---------------------------|
| 20 | 17.0 (5.2) | 6210 (162) | 7.4 (9.0) | 24 (18) |
| 30 | 25.2 (7.7) | 5720 (149) | 6.0 (7.3) | 28 (21) |
| 40 | 32.1 (9.8) | 4750 (124) | 5.3 (6.5) | 26 (19) |
| 20* | 17.0 (5.2) | 4700 (123) | 8.3 (10.1) | 16 (12) |

*Main auger performance utilizing transfer auger.

Specific Capacity: Specific capacity is the amount of grain moved per unit of power in a specific time. A high specific capacity indicates efficient use of power. In general, specific capacity decreases (less grain is moved per horsepower hour) with increasing flighting speeds and elevation angle). Specific capacity at 30° ranged from 6.0 to 9.0 ton/hp-h (7.3 to 11.0 t/kW-h), in dry wheat, oats, canola, and standard material (FIGURE 2).

Critical Speeds: At certain critical flighting speeds auger vibration may become excessive. This phenomenon, known as resonance, is common to all augers. It would appear that this critical speed is outside the operating speed range of the Flexi-coil 10-50 as it did not appear within the range of speeds the auger was operated at during the evaluation.

QUALITY OF WORK

Grain Damage: Quality of work was very good. Damage in dry wheat (13% moisture content) was less than 0.2% for each pass through the auger. This was considered to be normal in comparison to other makes

of augers. Grain damage would not be significantly reduced when moving crops of higher moisture content.

EASE OF OPERATION AND ADJUSTMENT

Discharge Height: The discharge height (FIGURE 3) could be varied from 11.0 to 32.1 ft (3.4 to 9.8 m) with the hydraulic lift mechanism. Corresponding elevation angles varied from 11.5° to 40°. See TABLE 2.

The auger discharge height could be easily adjusted from the tractor seat. An in line ball valve was provided in the hydraulic hose feeding the cylinder to lock the auger tube at the desired elevation.

Auger Reach: The bin eave clearance and horizontal reach (FIG-URE 3) of the Flexi-coil 10-50 are shown in TABLE 2. Bin eave clearance, measured from the ground to the auger tube at the foremost part of the undercarriage, varied from 8.5 ft (2.6 m) at 11.5° to 15.8 ft (4.8 m) at 40°. The reach, measured from the foremost part of the undercarriage to the centre of the discharge, varied from 10.7 ft (3.3 m) at 11.5° to 21.1 ft (6.4 m) at 40°.

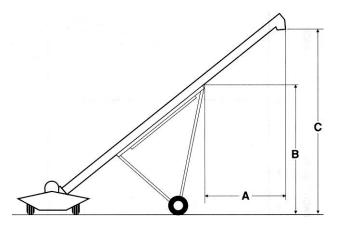


FIGURE 3. Dimensions: (A) Horizontal Reach (B) Bin Eave Clearance (C) Discharge Height.

| ELEVATION ANGLE degrees | A HORIZONTAL REACH ft (m) | B BIN EAVE CLEARANCE ft (m) | C DISCHARGE HEIGHT ft (m) |
|-------------------------------|------------------------------------|--------------------------------------|------------------------------------|
| 11.5° (min) | 10.7 (3.3) | 8.5 (2.6) | 11.0 (3.4) |
| 20.0° | 13.0 (4.0) | 12.5 (3.8) | 17.0 (5.2) |
| 30.0" | 17.5 (5.3) | 15.4 (4.7) | 25.2 (7.7) |
| 40.0° (max) | 21.1 (6.4) | 15.8 (4.8) | 32.1 (9.8) |

TABLE 2. Reach, Clearance, and Discharge Height at Various Elevations.

Operation: Ease of operation was very good. The Flexi-coil 10-50 was easily manoeuvred and positioned at the loading/unloading site.

The hydraulically powered auger tube adjustment for height was very easy to operate. The adjustments for auger tube height were carried out from the operator's station on the tractor.

The Flexi-coil was equipped with an optional reverse mechanism that reversed the direction of rotation of the flighting so the auger tube could be cleaned out completely.

The Flexi-coil 10-50 was equipped with a large inlet hopper. The hopper was equipped with a clean out door on the bottom of the hopper to allow thorough clean out.

Hitching: Ease of hitching the Flexi-coil 10-50 was very good. Hitching consisted of lifting the inlet end of the auger to correspond with the drawbar of the tractor and inserting a suitably sized pin. Once the auger was connected to the drawbar the implement jack was removed. The power shaft on the auger was connected to the PTO shaft of the tractor and two hydraulic hoses were connected to the remote couplers of the tractor to complete hitching. The Flexi-coil 10-50 was not supplied with a safety chain for the hitch.

Manoeuvrability: Ease of manoeuvring was very good. The Flexicoil 10-50 was designed as atractor implement. It could be transported, raised, positioned and operated from the tractor seat. The large hitch weight of 370 lbs (184 kg) made moving the auger by hand impractical. It was difficult to judge the distances between the auger outlet and Page 4 obstructions due to the auger's length.

Transportability: Ease of transporting the Flexi-coil 10-50 was very good. The auger transported well and was stable at normal agricultural implement speeds. The auger was equipped with 10 mph (16 km/h) rated tires.

The inlet end of the auger could be raised and lowered hydraulically for transport. The auger was prepared for transport by hydraulically lifting the auger inlet and installing the safety lock on the hitch hydraulic cylinder.

The auger was supplied with an adjustable, hydraulically controlled hitch. The operator should use a suitable hitch pin and safety chain to prevent accidental unhitching when travelling on public roads. The optional transfer auger was attached to the axle spreader bar of the main auger for transporting (FIGURE 4). The transfer auger towed true to the main auger but tended to bounce on rough roads.

Clearance under power lines was ample when fully lowered. The transport height was 10.7 ft (3.3 m).

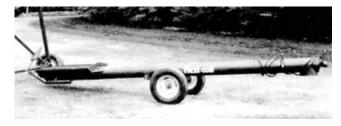


Figure 4. Transport position for transfer auger

Transfer Auger: Ease of operating the optional transfer auger was very good. The optional transfer auger was adjustable for height and offered adjustments that ranged from horizontal to 8 inches (200 mm) above horizontal. The transfer auger was not attached to the main auger and allowed a large degree of latitude for auger set-up. The transfer auger was useful for unloading hopper bottom bins or trucks with belly dumps.

Lubrication and Maintenance: Ease of lubrication was very good. The six grease pressure nipples were easy to get at. The operator's manual provided a maintenance schedule and lubrication chart.

POWER REQUIREMENTS

Power requirements for the main auger in dry wheat (FIGURE 2) ranged from 8 to 28 hp (6 to 21 kW). The Flexi-coil 10-50 required a tractor with a PTO shaft capable of 540 rpm and dual remote hydraulics capable of 1500 psi (10.3 MPa). The Flexi-coil required a tractor with a PTO shaft capable of 540 rpm and at least 40 hp (30 kW).

Damp Grain: No specific testing of damp grain was carried out for the Flexi-coil 10-50. However, tests with similar augers of this size generally show that power requirements increase and capacities decrease as moisture content rises. These tests are summarized in TABLE 3. If augers are used to move damp grain the power source should be sized accordingly.

| TABLE 3. Capacity and Powe | Requirements in Damp Grain for | Grain Augers (300 elevation) |
|----------------------------|--------------------------------|------------------------------|
|----------------------------|--------------------------------|------------------------------|

| GRAIN (Moisture Content) | PEAK CAPACITY AS % OF CAPACITY IN DRY GRAIN | POWER REQUIREMENTS AS % OF POWER REQUIRED IN DRY GRAIN |
|--------------------------------|---------------------------------------------------|--------------------------------------------------------------|
| Wheat (20% MC) | 65 | 150 |
| Corn (30% MC) | 70 | 133 |
| Canola (15% MC) | 90 | 105 |

OPERATOR SAFETY

Operator safety was very good. The Flexi-Coil 10-50 met current standards for safety in respect to grain augers. It was safe to operate if normal precautions were observed. Safety decals were provided, alerting the operator to potentially dangerous areas. Shielding was provided for all rotating shafts. An adequate inlet safety guard was provided. All capacities were measured with this inlet safety guard in place.

OPERATOR'S MANUAL

The operator's manual was excellent. It contained information on: safety, general information, operation, maintenance, trouble shooting, adjustments, specifications, assembly, options, and parts. The manual was well written, organized, and illustrated.

MECHANICAL HISTORY

The Flexi-Coil 10-50 auger was operated for about 30 hours. No mechanical problems arose during the test.

| SPECIFICATIONSMAKE:Flexi-CoilMODEL:10-50SERIAL NUMBER:GAIO ADO - V031447DVEFALL DIMENSIONS: | APPENDIX I | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------|--|
| MODEL:10-50SERIAL NUMBER:GAIO ADO - V031447OVERALL DIMENSIONS:53.3 ft (17.8 m)- Transport Length55.3 ft (17.8 m)- Transport Length9.9 ft (3.0 m)- Transport Height10.7 ft (3.3 m)9.9 ft (3.0 m)9.9 ft (3.0 m)- Transport Height10.7 ft (3.3 m)DIVE:9.9 ft (3.0 m)Main Auger:-01/7 ft (3.3 m)- Ower Take - off-01/7 ft (3.3 m)- Direct Drive-0.01/7 ft (3.3 m)- Power Take - off to Fighting1.1- Pressure Grease Fittings6- Sealed Baraings2- Packed Wheel Bearings3- Packed Wheel Bearings3- Packed Wheel Bearings1 reverse gear- Universal Joints1 reverse gear- Universal Joints9.8 in (250 mm)- Discharge Spout Diameter9.8 in (220 mm)- Diacter9.0 in (220 mm)- Diacter9.0 in (220 mm)- Diacter9.0 in (220 mm)- Diacter0.026 in (6.0 mm)- Diacter0.026 in (6.0 mm)- Diacter0.026 in (6.0 mm)- Noreall Size0.196 in (6.0 mm)- Outer0.25 in (63 mm)- Takenson2.8 x (6.10 m)- Outer0.25 in (0.11 ku25 mm)- Maximum Open Area3.8 in (97 mm)- Outer0.25 in (0.11 ku25 mm)- Maximum Open Area3.8 in (97 mm)- Outer2.8 x (6.11 mm) stoke- Oylinder Size1 (100 mm) diameter- Oylinder Size2 i | SPECIFICATIONS | | |
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| - Transport Length 58.3 ft (17.8 m) - Field Width 9.9 ft (3.0 m) - Transport Height 10.7 ft (3.3 m) DRIVE: Main Auger: - 540 rpm Tractor Power Take - Off - Direct Drive - Power Take - off to Fighting Speed Ratio Speed Ratio 1:1 Intake Feed Auger (Optional): - Hydraulic Motor Displacement - Hydraulic Motor Displacement 4.3 in ³ (70.5 cm ³) per rev - Motor to Filghting Speed Ratio 1:1 LUBRICATION: 6 - Pressure Grease Fittings 6 - Sealed Bearings 3 - Packed Wheel Bearings 2 Sets (1 set per wheel) - Inside Diameter 9.8 in (250 mm) - Material Thickness 0.12 in (3 mm) - Discharge Spout Diameter 9.8 in (250 mm) - Pitch Double cupped in hopper - Pitch Double cupped in hopper - Piner 0.196 in (5.0 mm) - Outer 0.098 in (25 mm) - Outer 0.25 in (6.3 | SERIAL NUMBER: | GAIO ADO - V031447 | |
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| Main Auger: - 540 rpm Tractor Power Take - Off - Direct Drive - Direct Drive - Direct Drive - Off to Fighting Speed Ratio 1:1 Intake Feed Auger (Optional): - Hydraulic Motor Displacement - Motor to Flighting Speed Ratio 1:1 LUBRICATION: - - Pressure Grease Fittings 6 - Sealed Bearings 3 - Packed Wheel Bearings 3 - Packed Wheel Bearings 1 reverse gear - Universal Joints 1 double cardan (constant velocity) AUGER TUBE: - 9.8 in (250 mm) - Inside Diameter 9.8 in (250 mm) - Discharge Spout Diameter 9.8 in (250 mm) - Discharge Spout Diameter 9.8 in (250 mm) - Diameter 9.0 in (230 mm) - Direct 0.098 in (2.5 mm) - Inner 0.196 in (5.0 mm) - Outer 0.098 in (2.5 mm) - Outer 0.098 in (2.5 mm) - Outer 0.098 in (2.5 mm) - Outer 0.25 in (6.3 mm) - Outer 0.25 in (6.3 mm) - Outer 0.25 in (70 x 66 mm) | | | |
| - S40 rpm Tractor Power Take - Off Direct Drive - Direct Drive - Power Take - off to Fighting Speed Ratio 1:1 Intake Feed Auger (Optional): 4.3 in ³ (70.5 cm ³) per rev - Hydraulic Motor Displacement 4.3 in ³ (70.5 cm ³) per rev - Motor to Fighting Speed Ratio 1:1 Universal Joints Pressure Grease Fittings - Sealed Bearings 3 - Pressure Grease Fittings 6 - Sealed Wheel Bearings 2 Sets (1 set per wheel) - Gearboxes 1 reverse gear - Universal Joints 1 double cardan (constant velocity) Auger TUBE: 9.8 in (250 mm) - Inside Diameter 9.8 in (250 mm) - Discharge Spout Diameter 9.8 in (250 mm) - Discharge Spout Diameter 9.0 in (230 mm) - Diameter 9.0 in (230 mm) - Diameter 9.0 in (230 mm) - Inner 0.196 in (5.0 mm) - Outer 0.098 in (2.5 mm) - Stopsed Length 19 in (483 mm) - Thickness 0.25 in (6.3 mm) - Overall Size 2.8 x 2.6 in (70 x 6 | | | |
| Direct Drive Power Take - off to Fighting Speed Ratio 1:1 Intake Feed Auger (Optional): Hydraulic Motor Displacement Motor to Fighting Speed Ratio 1:1 LUBRICATION: Pressure Grease Fittings Sealed Bearings Packed Wheel Bearings Gearboxes Universal Joints Packed Uneer Bearings Gearboxes Universal Joints Cearboxes Universal Joints Inside Diameter Discharge Spout Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Diameter Duble cupped in hopper Pitch Duble cupped in hopper Pitch Outer Outer Ougen in (230 mm) Duble cupped in hopper Pitch Dusper Cupped in (230 mm) Discharge Spout Diameter Seased Length Inner Outer Ougen in (5.0 mm) Outer Ougen in (5.0 mm) Outer Ougen in (25 mm) Outer Outer< | | | |
| - Power Take - off to Fighting Speed Ratio 1:1 Intake Feed Auger (Optional): 4.3 in ³ (70.5 cm ³) per rev - Motor to Fighting Speed Ratio 1:1 LUBRICATION: 6 - Pressure Grease Fittings 6 - Sealed Bearings 3 - Packed Wheel Bearings 3 - Racked Wheel Bearings 1 double cardan (constant velocity) AUGER TUBE: 9.8 in (250 mm) - Universal Joints 0.12 in (3 mm) - Discharge Spout Diameter 9.8 in (250 mm) - Diameter 9.8 in (250 mm) - Diameter 9.8 in (250 mm) - Diameter 9.0 in (230 mm) - Diameter 9.0 in (230 mm) - Diameter 9.0 in (230 mm) - Duble cupped in hopper 19 in (483 mm) - Thickness 0.196 in (5.0 mm) - Outer 0.098 in (2.5 mm) - Outer 0.25 in (6.3 mm) - Outer 0.25 in (6.3 mm) - Outer 0.28 x 2.6 in (70 x 66 mm) - Maximum Open Area 7.2 in² (4620 mm²) - Maximum Open Area 7.2 in² (4110 mm) stroke - Cylinder Size 4 in | | | |
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| Intake Feed Auger (Optional): | | 1.1 | |
| - Hydraulic Motor Displacement - Motor to Flighting Speed Ratio 4.3 in ³ (70.5 cm ³) per rev 1:1 LUBRICATION: 1:1 - Pressure Grease Fittings 6 - Sealed Bearings 3 - Packed Wheel Bearings 2 Sets (1 set per wheel) - Gearboxes 1 reverse gear - Universal Joints 1 double cardan (constant velocity) AUGER TUBE: 9.8 in (250 mm) - Inside Diameter 9.8 in (250 mm) - Material Thickness 0.12 in (3 mm) - Discharge Spout Diameter 9.8 in (250 mm) - Discharge Spout Diameter 9.0 in (230 mm) - Pitch Double cupped in hopper - Exposed Length 19 in (483 mm) - Thickness 0.196 in (5.0 mm) - Inner 0.196 in (6.0 mm) - Overall Size 27 x 16 in (691 x 425 mm) - Overall Size 27 x 16 in (691 x 425 mm) - Maximum Open Area 7.2 in ² (4620 mm ²) - Maximum Open Area 7.2 in ² (4620 mm ²) - Maximum Open Dimension 3.8 in (97 mm) - Maximum Open Dimension 3.8 in (97 mm) - Type Hydraulic Cylinder and Cables | | 1.1 | |
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| • Universal Joints 1 double cardan (constant velocity) • Universal Joints 1 double cardan (constant velocity) • Auger TUBE: - • Inside Diameter 9.8 in (250 mm) • Material Thickness 0.12 in (3 mm) • Discharge Spout Diameter 9.8 in (250 mm) • Discharge Spout Diameter 9.8 in (250 mm) • Discharge Spout Diameter 9.0 in (230 mm) • Thickness 19 in (483 mm) • Inner 0.196 in (5.0 mm) • Outer 0.098 in (2.5 mm) • Outer 0.098 in (2.5 mm) • Overall Size 27 x 16 in (691 x 425 mm) • Grill Openings 2.8 x 2.6 in (70 x 66 mm) • Maximum Open Dimension 3.8 in (97 mm) LIFT MECHANISM: Hydraulic Cylinder and Cables • Cylinder Size | | , | |
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| Inside Diameter 9.8 in (250 mm) Material Thickness 0.12 in (3 mm) Discharge Spout Diameter 9.8 in (250 mm) FLIGHTING: 9.8 in (250 mm) Plameter 9.0 in (230 mm) Pitch Double cupped in hopper Inner 0.196 in (5.0 mm) Outer 0.098 in (2.5 mm) INLET SAFETY GUARD: - Material Dimensions 0.25 in (6.3 mm) Overall Size 27 x 16 in (691 x 425 mm) Grill Openings 2.8 x 2.6 in (70 x 66 mm) Maximum Open Area 7.2 in ² (4620 mm ²) Maximum Open Dimension 3.8 in (97 mm) LIFT MECHANISM: - Type Hydraulic Cylinder and Cables Cylinder Size 4 in (100 mm) diameter 32 in (813 mm) stroke - WEIGHT: - Minimum Elevation - Right Wheel 692 lb (314 kg) - Left Wheel 797 lb (362 kg) - Hitch | | | |
| Material Thickness Discharge Spout Diameter 9.8 in (250 mm) FLIGHTING: Diameter Diameter Pitch Double cupped in hopper Exposed Length 19 in (483 mm) Thickness Inner Outer 0.98 in (250 mm) FNLET SAFETY GUARD: Material Dimensions Overall Size Grill Openings Azim (260 mm) Maximum Open Area T.2 in² (4620 mm²) Maximum Open Dimension 3.8 in (97 mm) LIFT MECHANISM: Type Mydraulic Cylinder and Cables Cylinder Size Yingh Wheel Right Wheel Right Wheel Right Wheel Right Wheel Right Wheel Ade 1 (160 mm) stroke FURCH: Minimum Elevation Right Wheel Left Wheel Ade 2 lb (314 kg) Hitch 406 lb (184 kg) (184 kg) TOTAL 1895 lb (860 kg) | | | |
| - Discharge Spout Diameter 9.8 in (250 mm) FLIGHTING: 9.0 in (230 mm) - Diameter 9.0 in (230 mm) - Pitch Double cupped in hopper - Exposed Length 19 in (483 mm) - Thickness - - Inner 0.196 in (5.0 mm) - Outer 0.098 in (2.5 mm) - Naterial Dimensions 0.25 in (6.3 mm) - Overall Size 27 x 16 in (691 x 425 mm) - Grill Openings 2.8 x 2.6 in (70 x 66 mm) - Maximum Open Area 7.2 in ² (4620 mm ²) - Maximum Open Dimension 3.8 in (97 mm) LIFT MECHANISM: - - Type Hydraulic Cylinder and Cables - Cylinder Size 4 in (100 mm) diameter - Cylinder Size 32 in (813 mm) stroke WEIGHT: - - Minimum Elevation - - Right Wheel 692 lb (314 kg) - Left Wheel 797 lb (362 kg) - Hitch 406 lb (184 kg) - TOTAL 1895 lb (860 kg) | | | |
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| - Maximum Open Dimension 3.8 in (97 mm) LIFT MECHANISM: - Type Hydraulic Cylinder and Cables - Cylinder Size 4 in (100 mm) diameter 32 in (813 mm) stroke WEIGHT: - Minimum Elevation - Right Wheel 692 lb (314 kg) - Left Wheel 797 lb (362 kg) - Hitch 406 lb (184 kg) TOTAL 1895 lb (860 kg) TIRES: | | | |
| LIFT MECHANISM: - Type Hydraulic Cylinder and Cables - Cylinder Size 4 in (100 mm) diameter 32 in (813 mm) stroke WEIGHT: - Minimum Elevation - Right Wheel 692 lb (314 kg) - Left Wheel 797 lb (362 kg) - Hitch 406 lb (184 kg) TOTAL 1895 lb (860 kg) TIRES: | | | |
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| 32 in (813 mm) stroke WEIGHT: - Minimum Elevation - Right Wheel 692 lb (314 kg) - Left Wheel 797 lb (362 kg) - Hitch 406 lb (184 kg) TOTAL 1895 lb (860 kg) | | | |
| - Minimum Elevation - Right Wheel 692 lb (314 kg) - Left Wheel 797 lb (362 kg) - Hitch 406 lb (184 kg) TOTAL 1895 lb (860 kg) TIRES: | - Cylinder Size | | |
| - Minimum Elevation - Right Wheel 692 lb (314 kg) - Left Wheel 797 lb (362 kg) - Hitch 406 lb (184 kg) TOTAL 1895 lb (860 kg) TIRES: | WEIGHT | | |
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| - Left Wheel 797 lb (362 kg) - Hitch <u>406 lb (184 kg)</u> TOTAL 1895 lb (860 kg) TIRES: | | 692 lb (314 kg) | |
| - Hitch <u>406 lb (184 kg)</u> TOTAL 1895 lb (860 kg) TIRES: | 5 | (0) | |
| TOTAL 1895 lb (860 kg) | | (3) | |
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| | - Size | 6.70 - 15 | |



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TRANSFER AUGER:

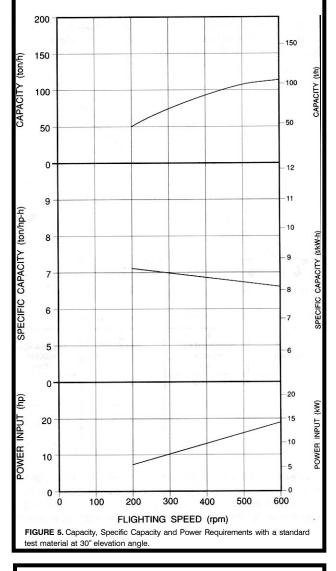
- Size - Number 6.70 - 15 2

APPENDIX II

PERFORMANCE WITH STANDARD TEST MATERIAL

The standard test material is a high density granular polyethylene. The material is consistent and not subject to damage or change in physical properties as are grains.

FIGURE 5 gives the capacity, specific capacity and power requirements for the Flexi-coil 10-50 in a standard test material. This data may be used for comparison of different grain augers.



APPENDIX III

MACHINE RATINGS

The following rating scale is used in PAMI Evaluation Reports:

| Excellent | Fair |
|-----------|----------------|
| Very Good | Poor |
| Good | Unsatisfactory |

SUMMARY CHART

FLEXI-COIL 10-50 GRAIN AUGER

| RETAIL PRICE | \$5518.00 (July 1991, f.o.b. Portage la Prairie, MB) |
|-----------------------------|----------------------------------------------------------------------------------------------|
| RATE OF WORK | |
| Capacity at 300 | |
| - Dry Wheat (13% MC) | 5720 bu/h (149 t/h) |
| - Standard Material | 5090 bu/h (102 t/h) |
| QUALITY OF WORK | Very Good; less than 0.2% damage for each pass through |
| EASE OF OPERATION | |
| AND ADJUSTMENT | |
| Discharge Height | 11.0 to 32.1 ft (3.4 to 9.8 m) |
| Auger Reach | |
| - Bin Eave Clearance | 8.5 to 15.8 ft (2.6 to 4.8 m) |
| - Reach | 10.7 to 21.1 ft (3.3 to 6.4 m) |
| Operation | Very Good; easily positioned |
| Manoeuvrability | Very Good; raised, positioned and operated from tractor seat |
| Transportability | Very Good; stable at speeds of 30 mph (50 km/h) on paved highways and gravel roads |
| Transfer Auger | Useful for unloading hopper bins or trucks with belly dumps |
| Lubrication and Maintenance | Very Good; six grease fittings |
| POWER REQUIREMENTS | 8 to 28 hp (6 to 21 kW) |
| OPERATOR SAFETY | Very Good; was safe to operate |
| OPERATOR'S MANUAL | Excellent; well written & organized |
| MECHANICAL HISTORY | No problems during test |



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Head Office: P.O. Box 1900, Humboldt, Saskatchewan, Canada S0K 2A0 Telephone: (306) 682-2555

Test Stations: P.O. Box 1060 Portage la Prairie, Manitoba, Canada R1N 3C5 Telephone: (204) 239-5445 Fax: (204) 239-7124

P.O. Box 1150 Humboldt, Saskatchewan, Canada S0K 2A0 Telephone: (306) 682-5033 Fax: (306) 682-5080

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