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GRAIN SYSTEMS

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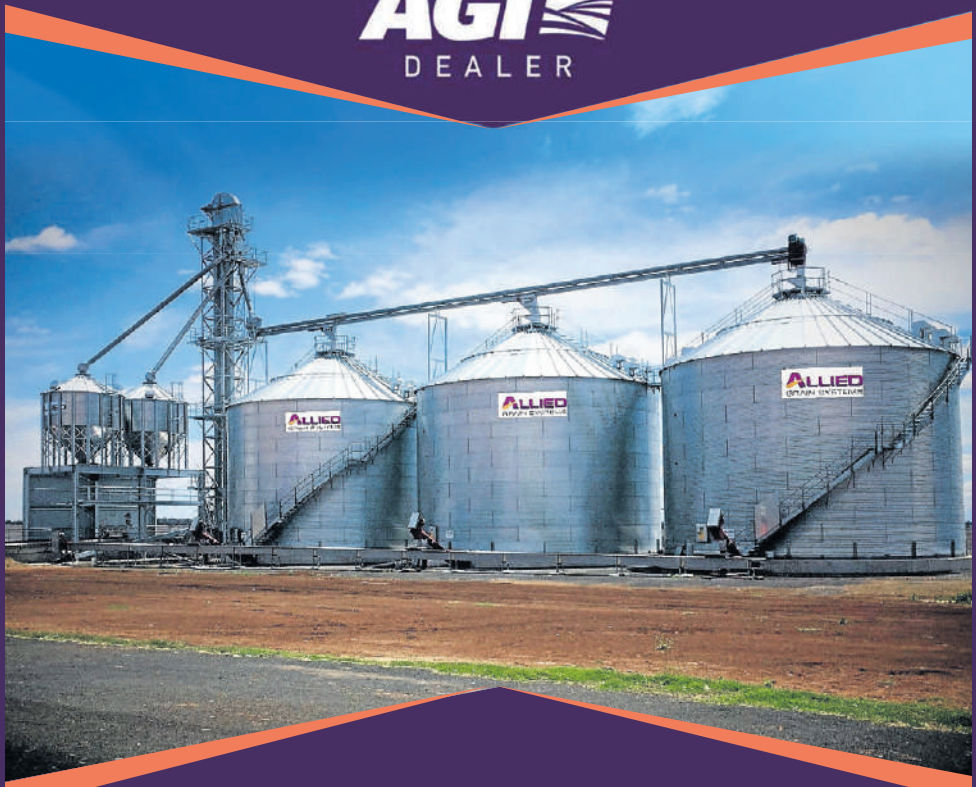


CONVEYING SYSTEMS

1800 689 433

GRAIN HANDLING STORAGE SOLUTIONS
www.alliedgrainsystems.com.au

Hutchinson

RM65.49696

STATIONARY DOUBLE RUN

Cross section of housing

Stationary grain pumps can be used in various applications at angles from horizontal to 60º. Lengths available in 5' increments. A flow through inlet is convenient for overhead applications.

STATIONARY GRAIN PUMP SPECIFICATIONS · DOUBLE RUN SYSTEM

	6” DOUBLE RUN	8” DOUBLE RUN	10” DOUBLE RUN	12” DOUBLE RUN
DIMENSIONS OF CONVEYING CHAMBER	6” (15.2 cm)	8” (20.3 cm)	10” (25.4 cm)	12” (30.5 cm)
MAXIMUM CAPACITY*	1,500 BPH (41 TPH)	4,000 BPH (108 TPH)	6,000 BPH (162 TPH)	10,000 BPH (270 TPH)
CHAIN TRAVEL	338 FPM (103.0 MPM)	329 FPM (100.3 MPM)	348 FPM (106.1 MPM)	400 FPM (121.9 MPM)
HEAD SHAFT RPM	126	126	114	102
ZAM GALVANIZED HOUSING	12 Ga. (2.7 mm)	12 Ga. (2.7 mm)	12 Ga. (2.7 mm)	10 Ga. (3.4 mm)
PADDLE THICKNESS (UHMW)	3/8” (9.5 mm)	3/8” (9.5 mm)	1/2” (12.7 mm)	1/2” (12.7 mm)
HEAD SHAFT DIAMETER	1-1/2” (38.1 mm)	2” (50.8 mm)	2” (50.8 mm)	3-7/16” (87.3 mm)
BOOT SHAFT DIAMETER	1-1/2” (38.1 mm)	2” (50.8mm)	2” (50.8 mm)	3-7/16” (87.3 mm)
CONVEYOR CHAIN	81 X	81 X	81 XHH	81 XHH
CONVEYOR SPROCKET	12 Tooth	12 Tooth	14 Tooth	18 Tooth

* Clean, dry, and non abrasive grain

Stationary Double Run filling a dryer and unloading dryer to multiple bins. Eclipse Towers and Hutchinson Truss Kits are now available.

DOUBLE RUN SYSTEM — HORSEPOWER TABLE

MODEL	ANGLE OF OPERATION	HORIZONTAL	15	30	45	60	90
6” DOUBLE RUN	HP per Foot	0.042	0.062	0.085	0.120	0.140	N/A
	(kW per Meter)	(0.102)	(0.151)	(0.207)	(0.292)	(0.341)	
8” DOUBLE RUN	HP per Foot	0.076	0.113	0.167	0.222	0.270	N/A
	(kW per Meter)	(0.185)	(0.275)	(0.407)	(0.541)	(0.658)	
10” DOUBLE RUN	HP per Foot	0.114	0.170	0.250	0.333	0.405	0.5
	(kW per Meter)	(0.278)	(0.414)	(0.610)	(0.812)	(0.988)	(1.2)
12” DOUBLE RUN	HP per Foot	0.180	0.268	0.397	0.524	0.629	N/A
	(kW per Meter)	(0.439)	(0.654)	(0.968)	(1.278)	(1.534)	

Use your existing Auger to feed Hutchinson Double Run Grain Pump with ground operated discharge gates
Located Curban NSW

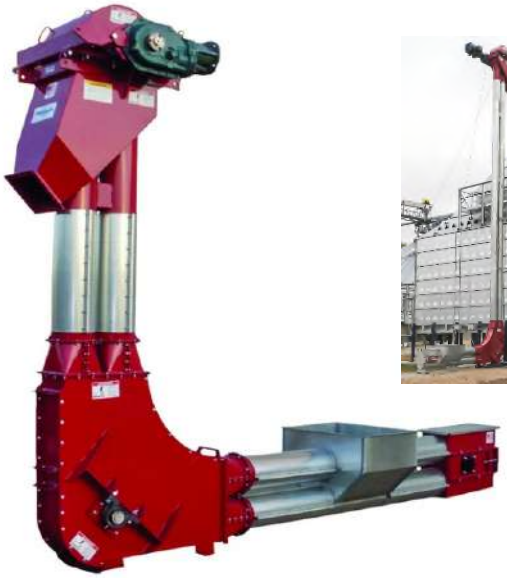
Ground operated manual discharge gates.
Electric also available

Fit optional sealing valves to ensure your silo seal to AS2628-2010 is maintained

York Bucket Elevator feeding Double Run Grain Pump
across 3 x 1550 Tonne Allied Silos
Located North Star NSW

Link Existing Silo
Located Blighty NSW

10" VERTICAL DOUBLE RUN GRAIN PUMP



Features:

- Up to 6,000 BPH Capacity

- 10' Minimum amount of required horizontal space

- Optional AF plate liner available for Extra live in very dirty grain conditions

- Wet fill systems to dryers

-Maximum discharge height of 68' with Total equipment height of 72'

- Dry grain transfer to dryer

- Drives 15-40 HP (Dodge Reducer)

- Chain Speed 348 FPD

-Receiving grain

- *81XHH Chain*
- *½ UHMW Paddles*
- *Bypass Inlet*
- *Corner and head manufactured with 7 gauge material*
- *Bolt-in AR Liner on bottom of corner*
- *Removable access doors with handles*
- *Chain tension on boot assembly for easy chain adjustment*
- *5' and 10' Dump Hoppers*

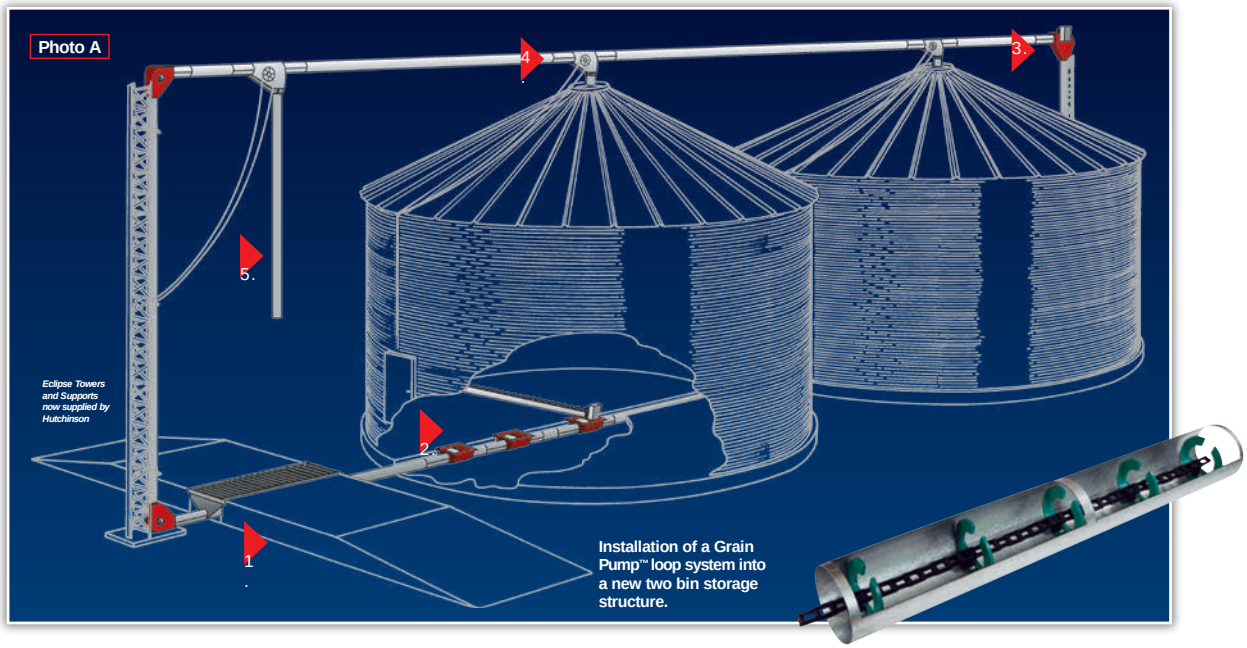
Vertical Pump with permeant Drive over Hopper

Located Hay NSW

Vertical Hutchinson – 10inch Double Run Grain Pump
Located Hay NSW (Left) Bunnaloo NSW (Right)

Permanent Drive over hopper

Located Bunnaloo NSW



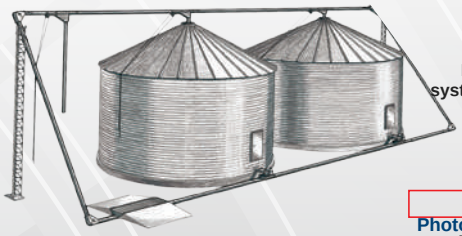
Let Hutchinson tailor a Grain Pump™ to your storage system.

The innovative Hutchinson Grain Pump™ lets you move grain with gentle efficiency and at high capacities. It requires less horsepower than air systems and Hutchinson's en masse (grain-moving-grain) concept causes less damage to grain and needs less maintenance than traditional conveying systems. The secret is Hutchinson's unique Ultra High Molecular Weight (UHMW) paddle, designed to keep your grain flowing gently and evenly from inlet to discharge source. These round plastic paddles are spaced every 10 1/2", taking the place of traditional auger flighting. These paddles are notched to go around corners. Grain Pump™ owners have found a reduction in grain damage when compared to traditional conveying systems.

The closed-loop design offers the versatility to create a complete load-in/load-out system that also provides recirculation capabilities. One or more bins can be unloaded at a time into the loop. Reduced drying costs can be achieved with this innovative system by blending higher moisture and dried grain from one bin to another. Possibilities are nearly unlimited. Install the Grain Pump™ underneath a row of bins (Photo A), in an existing in-line row of bins (Photo B), or in a flat storage structure (Photo C). The loop system may provide future expansion capabilities.

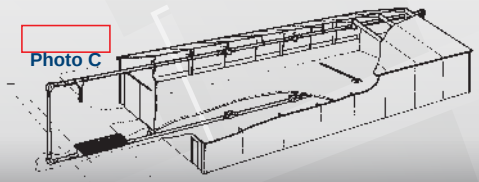
1. **Drive over Grain Pump pit hopper**
2. **Center and intermediate wells**
3. **Drive corner**
4. **90° discharge drops with ground control kit**
5. **Complete load out capability**

Photo B



Installations of loop systems with existing bins.

Photo C



Installation of loop system in a flat storage structure.

ZAM®

GRAIN PUMP

Installation of Grain Pump Loop System with a wet bin and dryer application.

Eclipse Towers and Catwalks now available through Hutchinson

Installation of Grain Pump loop system into existing bin structure

GRAIN PUMP SPECIFICATIONS

	6” LOOP	8” LOOP	10” LOOP	12” LOOP
DIMENSIONS OF CONVEYING CHAMBER	6” (15.2 cm)	8” (20.3 cm)	10” (25.4 cm)	12” (30.5 cm)
MAXIMUM CAPACITY*	1,500 BPH (41 TPH)	4,000 BPH (108 TPH)	6,000 BPH (162 TPH)	10,000 BPH (270 TPH)
CHAIN TRAVEL	325 FPM (99.1 MPM)	325 FPM (99.1 MPM)	325 FPM (99.1 MPM)	400 FPM (121.9 MPM)
HEAD SHAFT RPM	124	109	94	83
HOUSING GAUGE, GALVANIZED	12 Ga. (2.7 mm)	12 Ga. (2.7 mm)	12 Ga. (2.7 mm)	10 Ga. (3.4 mm)
PADDLE THICKNESS (UHMW)	3/8” (9.5 mm)	3/8” (9.5 mm)	1/2” (12.7 mm)	1/2” (12.7 mm)
CORNER SHAFT DIAMETER	1-1/2” (38.1 mm)	2” (50.8 mm)	3” (76.2 mm)	3-7/16” (87.3 mm)
CONVEYOR CHAIN	81 X	81 XHH	81 XHH	81 XHH
CONVEYOR SPROCKET	12 Tooth	14 Tooth	16 Tooth	22 Tooth
CONVEYOR HP (kW) REQUIRED* -PER FOOT (METER) VERTICAL -PER FOOT (METER) HORIZONTAL	 .20 HP (.48 kW) .05 HP (.12 kW)	 .35 HP (.85 kW) .08 HP (.19 kW)	 .50 HP (1.20 kW) .11 HP (.27 kW)	 .75 HP (1.80 kW) .18 HP (.44 kW)
WEIGHT PER FOOT OF TUBULAR CONVEYOR -EMPTY -FULL OF 56 LB. PER BU MATERIAL	 10.5 lbs./ft. 19.5 lbs./ft	 18.0 lbs./ft. 34.0 lbs./ft	 20.0 lbs./ft. 45.0 lbs./ft	 26.5 lbs./ft. 63.0 lbs./ft
WEIGHT PER METER OF TUBULAR CONVEYOR -EMPTY -FULL OF 720 KG PER CU. METER MATERIAL	 (14.9 kg/m) (28.3 kg/m)	 (17.9 kg/m) (41.7 kg/m)	 (22.0 kg/m) (59.5 kg/m)	 (35.7 kg/m) (89.3 kg/m)

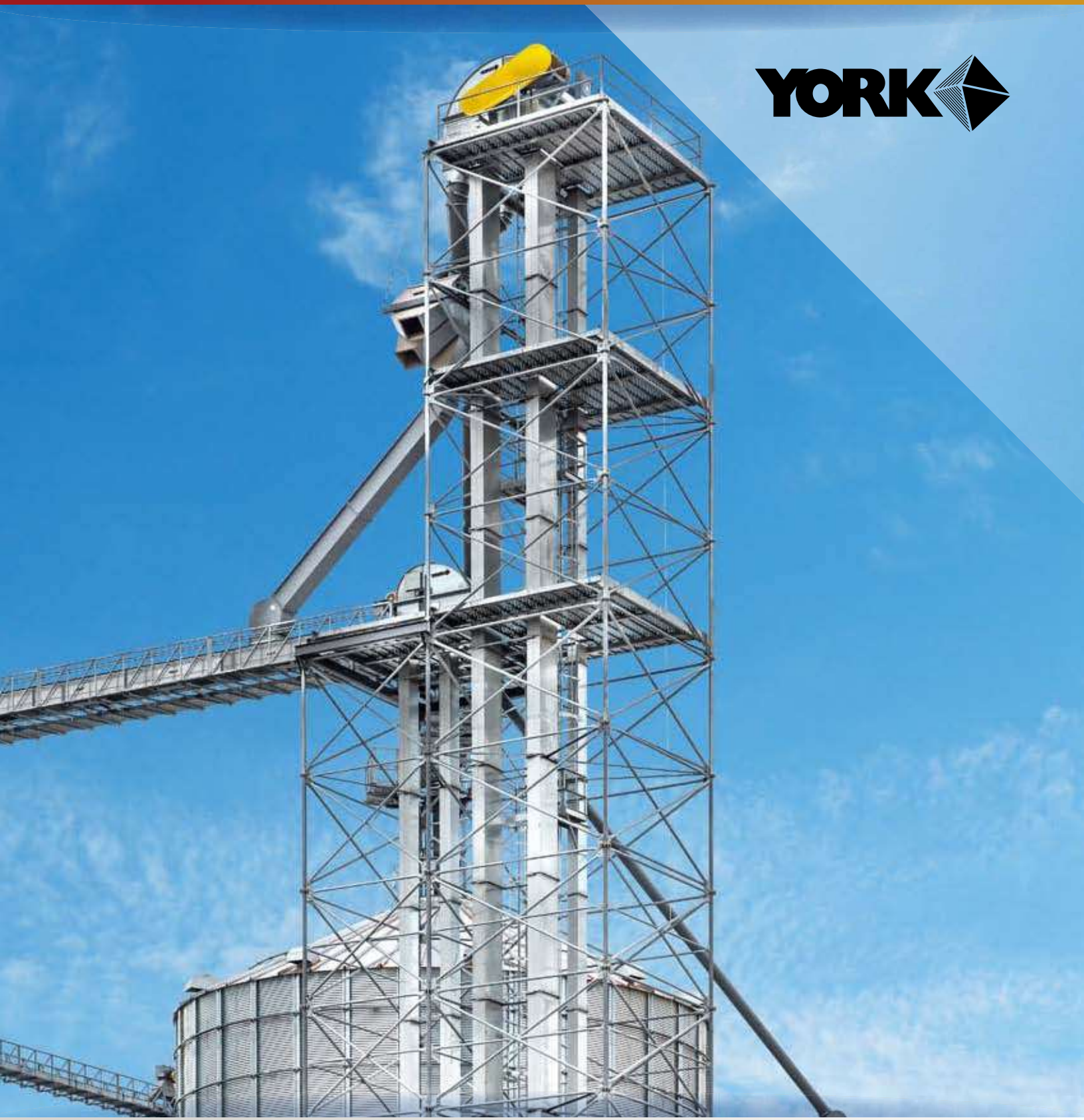
* Clean, dry, and non abrasive grain

Hutchinson Loop System with permanent drive over hopper installed at time of erecting silos.
Located Goondiwindi NSW

Hutchinson loop system installed on an angle to fill and empty existing silos.
Located Lake Bolac VIC

Two new 856 tonne sealed silos linked to existing 8" hutch loop system
Located Mullaley NSW

YORK Bucket Elevators



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On the job in a variety of grain facilities.

YORK bucket elevator systems are working hard in a wide range of facilities including:

- Commercial systems for grain terminals, feed mills and port facilities
- Large farm systems for high capacity grain and livestock operations
- Small farm systems for moving low volumes of grain
- Industrial systems for food processing, specialty grains, fertilizer, seed processing and sand and gravel operations

METRIC TONS PER HOUR	MODEL	CUBIC METERS PER HOUR	PULLEY DIAMETER (MM)	PULLEY RPM	METERS PER SECOND	BUCKET (mm)		TRUNKING Size (mm)	SPOUTING REQUIRED (mm)
						Size	SPACING		
25	16-10	35	406	60	1.28	228 x 127	229	330 x 228	152
38	16-15	53	406	90	1.92	228 x 127	229	330 x 228	152
50	16-20	71	406	80	1.70	228 x 127	152	330 x 228	203
	24-20	71	610	53	1.69	228 x 153	229	330 x 228	203
63	16-25	88	406	100	2.13	228 x 127	152	330 x 228	203
	24-25	88	610	68	2.17	228 x 153	229	330 x 228	203
76	16-30	106	406	120	2.55	228 x 127	152	330 x 228	203
	24-30	106	610	62	1.98	228 x 153	178	330 x 228	203
89	24-35	124	610	72	2.30	228 x 153	178	330 x 228	203
101	24-40	142	610	74	2.36	228 x 153 LP	152	330 x 228	254
	30-40	142	762	56	2.24	304 x 153	203	406 x 305	254
	36-40	142	914	50	2.39	304 x 153	203	406 x 305	254
114	24-45	159	610	70	2.24	228 x 153 LP	127	330 x 228	254
	30-45	159	762	64	2.56	304 x 153	203	406 x 305	254
	36-45	159	914	54	2.59	304 x 153	203	406 x 305	254
127	24-50	177	610	78	2.49	228 x 153 LP	127	330 x 228	254
	30-50	177	762	60	2.39	304 x 178	229	406 x 305	254
	36-50	177	914	58	2.78	304 x 153	203	406 x 305	254
140	30-55	195	762	68	2.71	304 x 178	229	406 x 305	254
	36-55	195	914	65	3.11	304 x 153	203	406 x 305	254
152	30-60	212	762	68	2.71	304 x 178	203	406 x 305	305
	36-60	212	914	62	2.97	304 x 178	229	406 x 305	305
178	30-70	248	762	68	2.71	304 x 178 LP	178	406 x 305	305
	36-70	248	914	61	2.92	304 x 178	203	406 x 305	305
191	30-75	265	762	72	2.87	304 x 178 LP	178	406 x 305	305
	36-75	265	914	65	3.11	304 x 178	203	406 x 305	305
204	36-80	283	914	65	3.11	304 x 178 LP	178	406 x 305	356
	42-80	283	1,067	56	3.13	304 x 203	254	406 x 356	356
254	42-100	354	1,067	56	3.13	304 x 203 LP	203	406 x 356	356
	48-100	354	1,219	61	3.89	304 x 203	254	406 x 356	356
306	42-120	425	1,067	59	3.30	304 x 203 LP	178	406 x 356	406
	48-120	425	1,219	59	3.76	304 x 203 LP	203	406 x 356	406
381	42-150	531	1,067	61	3.40	406 x 203 LP	203	508 x 356	457
	48-150	531	1,219	60	3.83	406 x 203 LP	229	508 x 356	457
508	42-200	708	1,067	58	3.24	508 x 203 LP	178	660 x 356	508
	48-200	708	1,219	56	3.58	508 x 203 LP	203	660 x 356	508
635	48-250	885	1,219	54	3.58	(2) 406 x 203	254	965 x 356	610
762	48-300	1,061	1,219	60	3.83	(2) 406 x 203	229	965 x 356	610

Above capacities are based on #2 corn weighing 721 kg/m3.
Capacities for standard buckets are based on water level +10%. Capacities for low profile buckets are based on water level +5%.
Spouting capacity calculations are based on round spouts at .38 m3/cm2. This would require that grain be clean and the spout be at 40 degrees or greater angle (applies to only corn, soybeans and wheat). Wet corn should be spouted at no less than 45 degrees and capacities do not apply.
Capacities may be reduced by lining material and other factors. These are guidelines only and capacities may vary.

Three MFS 856 Tonne silos added onto run of existing silos then all linked using 8" Hutchinson Grain Pump Loop system at an angle

Located Comet QLD

York Bucket Elevator, Hutchinson double run grain pumps with permanent drive over hopper, many options available

Located Walpeup VIC

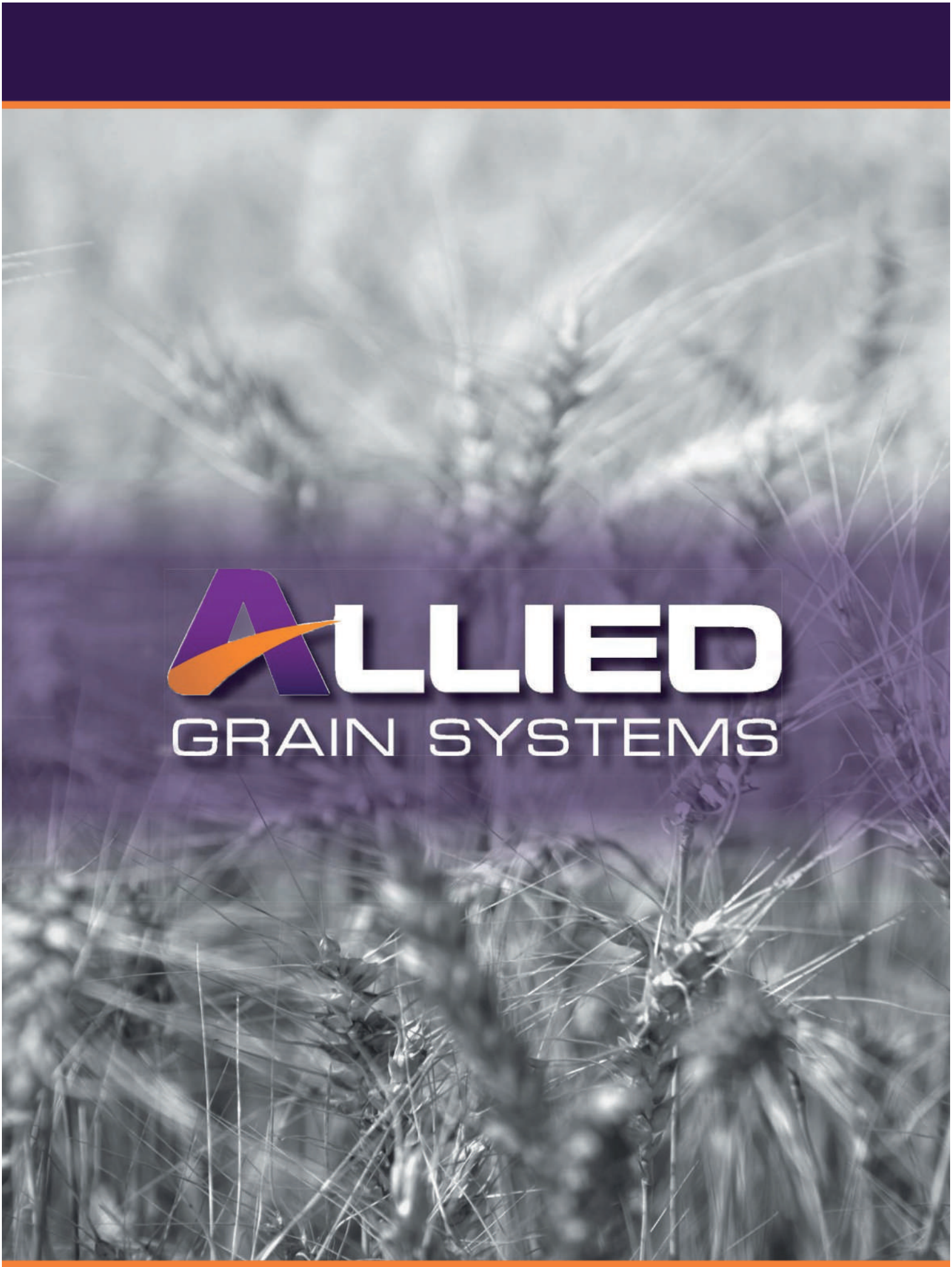
3x 1550 Tonne Sealed silos, York bucket elevator, with drive over hopper & Hutchinson 12 inch Double Run Grain pump with two quick fill 89 tonne garner bins

Located North Star NSW

Permanent Drive over hopper

Quick fill garner bins
Located North Star NSW

Shed Fill options available
Located Lismore VIC



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