AGI YORK

Incline Drag Conveyor

Raising the bar for moving material upward.

The YORK name is synonymous with grain and material handling—and has been since 1878. YORK incline drag conveyor systems continue the tradition of performance, efficiency and reliability over the long haul.

We take a common sense approach to systems design and construction, with a special attention to details that matter.

It all starts with understanding every aspect of your operation: The type of material you're handling.

The method of feeding the conveyor. What your system requires in terms of volume and capacity. The overall distance over which materials must travel.

Then we engineer the system that makes the most sense for your application and your budget.

You get an incline drag conveyor system that installs quickly and accurately, is competitively priced and performs exactly as it should—now and for years to come.

High performance and efficiency from every angle

Flexible, adaptable and sensible.

Grain-friendly YORK incline drag conveyors help preserve grain quality and integrity, especially when compared to screw conveyors which can severely damage grain.

With a YORK incline drag conveyor, you can reduce the depth of your boot pit and keep your elevators above ground for easier inspection and maintenance.

Wide range of capacities from 5,000 bushels (127 MTPH) to 25,000 bushels per hour (635 MTPH) to meet your specific application and requirements.

YORK incline drag conveyors feature **galvanized (G-90) construction** for long life and reliable performance. Components that require welding are manufactured from mild steel with a powder coat finish.

Bolt-on flanges allow for easy adjustment and alignment.

Easily adaptable to your existing system to make retrofits and upgrades simple and affordable.

Reduced power consumption thanks to efficient design and performance — and that translates into bottom line savings.

Efficiency moving grain in a variety of applications

YORK drag conveyor systems are on the job in facilities around the world including:

- Commercial grain terminals and feed mills
- Port facilities
- Large farm operations with high capacity grain and livestock demands
- Food processing, specialty grains, fertilizer, seed processing and aggregate operations
- Small farm systems moving moderate volumes of grain

YORK conveyor systems are perfect for transferring grain from a truck pit efficiently and quickly. YORK systems are easily adaptable to the most demanding installations, even in a "tight squeeze" configuration.

York® Incline Drag Conveyors

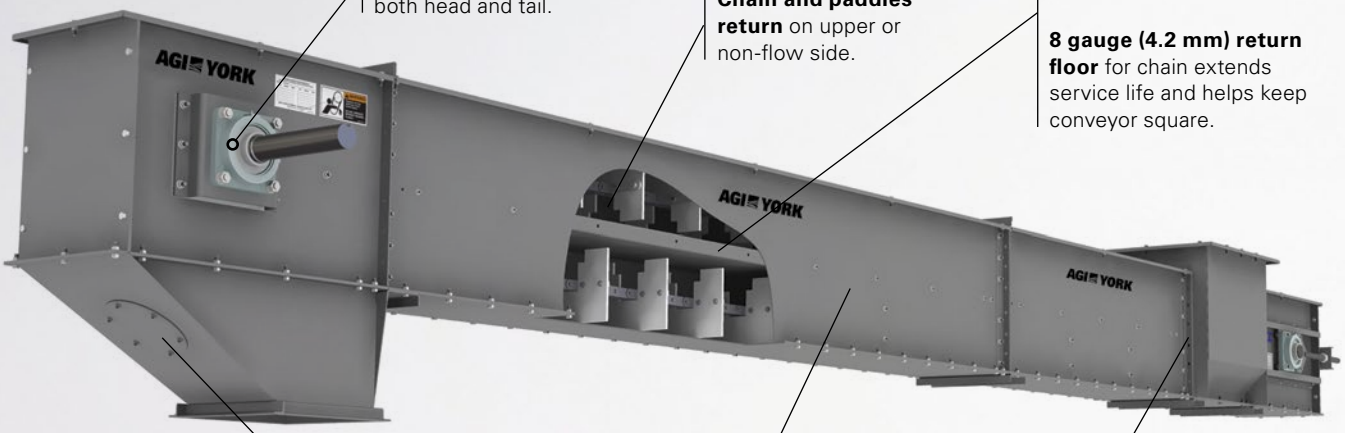
Galvanized construction includes 11 gauge (3 mm) intermediate sides with 8 gauge (4.2 mm) bottom and 14 gauge (2.0 mm) cover standard.

Heavy-duty Dodge® 4-bolt flange bearing standard on both head and tail.

Chain and paddles return on upper or non-flow side.

Heavy-duty flame-cut and flame-hardened sprockets used on models 1220 and 1624. Split sprockets used on models 2731 and 3336.

8 gauge (4.2 mm) return floor for chain extends service life and helps keep conveyor square.



Abrasion resistant steel liners on grain flow side available on request or as dictated by application.

Optional plug switch for overload protection.

All bolted construction for easy replacement.

Smooth wall sides keep moisture, outside elements and dust from building up and causing corrosion.

Bypass inlet to reduce grain damage and control flow during loading.

Model ID

These **"straight run" incline drag conveyors** are used to move material with maximum efficiency along set incline of up to 45°. These YORK conveyors are commonly used for any application in which material must be conveyed along an incline of 10° or more.

YORK Model ID incline conveyors are used for:

- Distribution to overhead bins
- Carrying material up the incline of a structured grain bin roof
- Moving materials from below a truck receiving hopper up into a bucket elevator
- YORK Model ID systems can be designed to match your requirements for use from small farm systems to large commercial operations with capacities ranging up to 25,000 bushels per hour (635 MTPH).
- A wide range of optional abrasive-resistant side and bottom liners are available for use in demanding commercial operations.

Receiving bypass hopper reduces grain damage and controls flow during loading.

Hemmed covers for a better seal and ease in assembly.

Bolt-on flanges for perfect alignment.

Abrasion resistant (AR) bottom and side liners on grain flow side available on request.

81X and 81XHH roller chain used on models 1220 and 1624. **WH124 and WH132** used on models 2731 and 3336.

Curved elbows for inclines ranging from 5° to 45° on a 68" (1727 mm) radius.

Model IDC

These **"elbowed" incline conveyors** are engineered to move high volumes of material in specific configurations combining a horizontal distance with an incline ranging from 5° to 45° on a 68" (1727 mm) radius. An ideal application for the Model IDC is quickly moving high volumes of materials from an under-truck pit up into a bucket elevator.

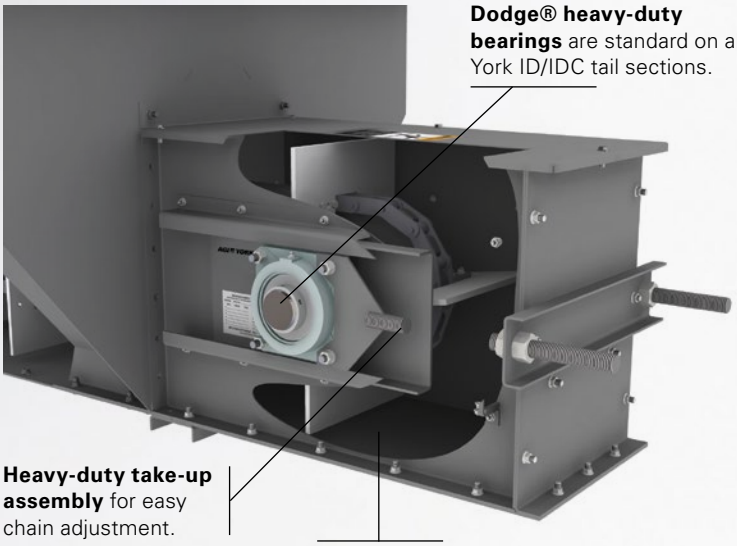
Materials in the YORK Model IDC travel as a solid mass to eliminate turbulence—protecting material quality and integrity. These high-volume systems are designed and manufactured for strength, long life and reliability.

YORK Model IDC systems can be designed for any use from small farm systems up to large commercial operations with capacities of 25,000 bushels per hour (635 MTPH) and above. A wide range of optional abrasive-resistant side and bottom liners are available for use in demanding commercial operations.

Tail Sections

The tail sections on YORK incline drag conveyor systems are built to take a beating. The bypass inlet diverts grain evenly and quickly around the paddles. Heavy-duty bearing and sturdy galvanized steel bottoms can handle tremendous volumes and weight.

All tail sections include a heavy-duty flame-cut and flame-hardened sprocket, with split sprockets available on request. Specifications can be easily modified to match your application and capacity requirements.



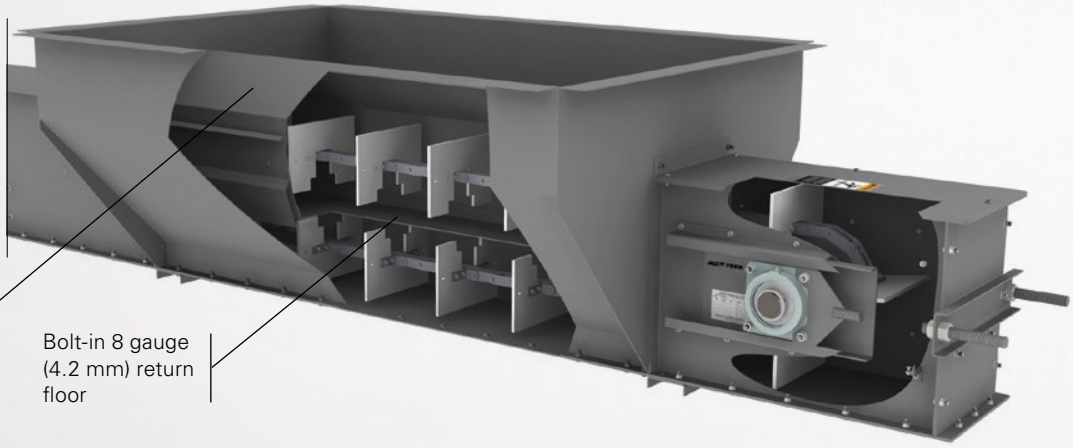
Dodge® heavy-duty bearings are standard on all York ID/IDC tail sections.

Heavy-duty take-up assembly for easy chain adjustment.

8 gauge (4.2 mm) galvanized bottoms are standard on tail sections with abrasion resistant (AR) steel bottoms available upon request.

ADDITIONAL OPTIONS

Dump Hopper



Bypass inlets divert grain evenly and quickly around paddles.

Bolt-in 8 gauge (4.2 mm) return floor

Drive-Over Grate Assembly

Rugged grates available for all conveyor sizes.

Grain slides are located on corners to help reduce material hang-up.

81X Chain

2.609" [66.27 mm]

81XHH Chain

2.609" [66.27 mm]

WH124 Chain

Flow side towards head

4.000" [101.6 mm]

WH132 Chain

Flow side towards head

6.000" [152.4 mm]

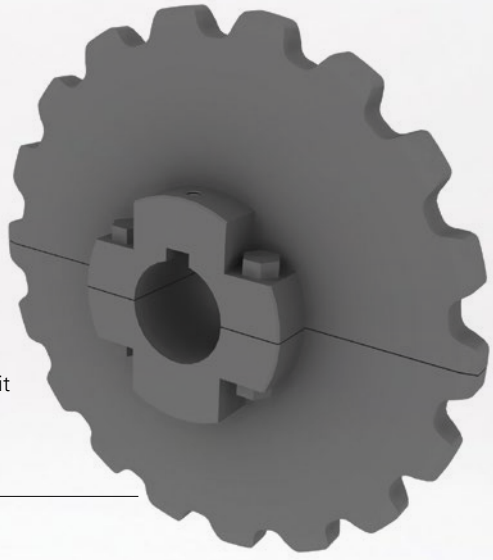
Chains, Sprockets & Paddles

Heavy-duty roller chain standard on all conveyors with flame-cut and flame-hardened sprockets. On systems of 15,000 bushels per hour (381 MTPH) and above, split sprockets are standard with WH124 and WH132 chain when required.

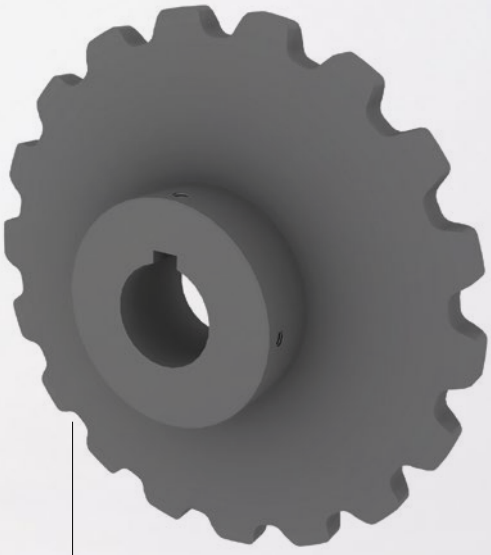
IDC Backup Plates

Backup plates provide additional strength for paddles in moving large volumes of material.

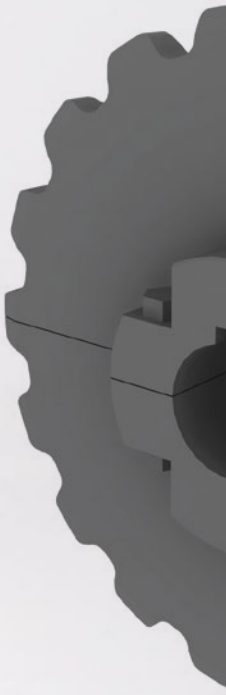
- 3/8" (9.5 mm) UHMW paddles standard on all models
- 8 gauge (4.2 mm) backup plates are standard on all ID16 and IDC16 conveyors and above.



Flame-cut and flame-hardened split sprockets standard with WH124 and WH132 chain.



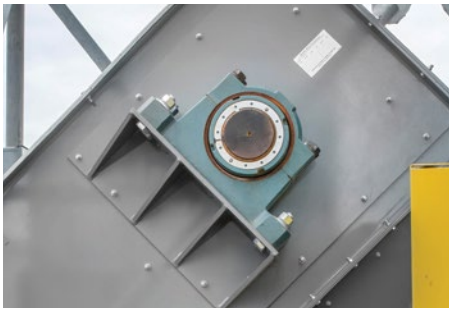
Flame-cut and flame-hardened solid sprockets are standard with 81X and 81XHH chain, with split sprocket available on request.



Details make the difference.

Direct drive motorized torque arm (available on request) eliminates need for belt drive and belt guard. Unit is self-contained.

Plug switch option in head discharge eliminates potential overload concerns.



Heavy-duty gusset channels keep head and bearings rigid and stabilized during operation.

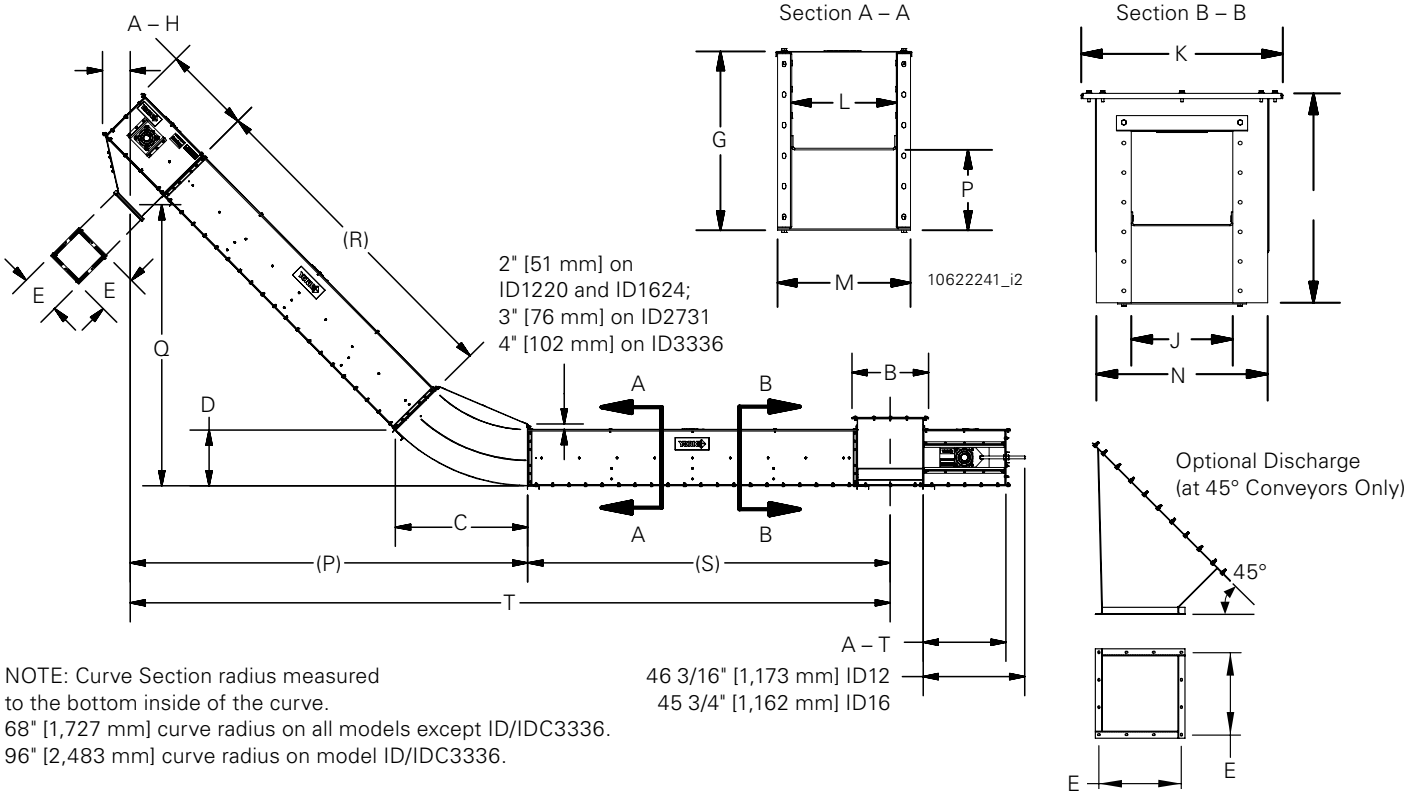
All Dodge speed reducers come furnished with a drive guard that **meets OSHA standards**.

YORK Model IDC conveyor system eliminates need for a deep gravity pit and allows elevator to be positioned above grade to avoid water damage.

MODEL	AH	AT	B	E	G	I*	J	K	L	M	N	P
ID & IDC 1220	31 7/8" [810 mm]	40" [1,016 mm]	24" [610 mm]	12" [305 mm]	20" [508 mm]	32" [813 mm]	12" [305 mm]	24" [610 mm]	12" [305 mm]	15 1/4" [387 mm]	20 1/2" [521 mm]	8 1/2" [216 mm]
ID & IDC 1624	37 7/8" [962 mm]	36" [914 mm]	24" [610 mm]	16" [406 mm]	24" [610 mm]	36" [914 mm]	16" [406 mm]	32" [813 mm]	16" [406 mm]	19 1/4" [489 mm]	28 1/4" [718 mm]	10" [254 mm]
ID & IDC 2731	50" [1,270 mm]	36" [914 mm]	24" [610 mm]	18" [457 mm]	31" [787 mm]	46 1/4" [1,175 mm]	26 3/4" [679 mm]	52" [1,321 mm]	27" [686 mm]	30" [762 mm]	48" [1,219 mm]	13 1/4" [337 mm]
ID & IDC 3336	62" [1,575 mm]	60" [1,524 mm]	77 3/4" [1,975 mm]	20" [508 mm]	37 3/4" [959 mm]	57" [1,448 mm]	33" [838 mm]	60" [1,524 mm]	33" [838 mm]	37 1/4" [946 mm]	54 3/8" [1,381 mm]	15 7/8" [403 mm]

* Includes bottom splice plate

	MODEL ID 1220			MODEL ID 1624			MODEL ID 2731			MODEL ID 3336		
DEGREE	C	D	H	C	D	H	C	D	H	C	D	H
5	6" [152 mm]	1/4" [6 mm]	23" [584 mm]	6" [152 mm]	1/4" [6 mm]	28" [711 mm]	6" [152 mm]	1/4" [6 mm]	39" [991 mm]	8 1/2" [216 mm]	3/8" [10 mm]	50" [1,270 mm]
10	11 3/4" [298 mm]	1" [25 mm]	24" [610 mm]	11 3/4" [298 mm]	1" [25 mm]	27" [686 mm]	11 3/4" [298 mm]	1" [25 mm]	37" [940 mm]	16 3/4" [425 mm]	1 1/2" [38 mm]	48" [1,219 mm]
15	17 1/2" [445 mm]	2 1/4" [57 mm]	23" [584 mm]	17 1/2" [445 mm]	2 1/4" [57 mm]	25" [635 mm]	17 1/2" [445 mm]	2 1/4" [57 mm]	34 1/2" [876 mm]	24 3/4" [629 mm]	3 1/4" [83 mm]	45" [1,143 mm]
20	23 1/4" [591 mm]	4" [102 mm]	21" [533 mm]	23 1/4" [591mm]	4" [102 mm]	24" [610 mm]	23 1/4" [591 mm]	4" [102 mm]	32" [813 mm]	32 3/4" [832 mm]	5 3/4" [146 mm]	42" [1,067 mm]
25	28 3/4" [730 mm]	6 1/2" [165 mm	19" [483 mm]	28 3/4" [730 mm]	6 1/2" [165 mm]	21" [533 mm]	28 3/4" [730 mm]	6 1/2" [165 mm]	29" [737 mm]	40 1/2" [1,029 mm]	9" [229 mm]	38 3/4" [984 mm]
30	34" [864 mm]	9" [229 mm]	17" [432 mm]	34" [864 mm]	9" [229 mm]	19" [483 mm]	34" [864 mm]	9" [229 mm]	26" [660 mm]	48" [1,219 mm]	12 3/4" [324 mm]	35 1/4" [895 mm]
35	39" [991 mm]	12 1/4" [311 mm]	15" [381 mm]	39" [991 mm]	12 1/4" [311 mm]	17" [432 mm]	39" [991 mm]	12 1/4" [311 mm]	23" [584 mm]	55" [1,397 mm]	17 1/4" [438 mm]	31 1/2" [794 mm]
40	43 3/4" [1,111 mm]	16" [406 mm]	13" [330 mm]	43 3/4" [1,111 mm]	16" [406 mm]	14" [356 mm]	43 1/4" [1,099 mm]	16" [406 mm]	19 1/2" [495 mm]	61 3/4" [1,568 mm]	22 1/2" [572 mm]	27 1/2" [699 mm]
45	48" [1,219 mm]	20" [508 mm]	10" [254 mm]	48" [1,219 mm]	20" [508 mm]	12" [305 mm]	48" [1,219 mm]	20" [508 mm]	16" [406 mm]	68 3/8" [1,738 mm]	28 1/2" [724 mm]	23 1/4" [591 mm]



NOTE: Curve Section radius measured
to the bottom inside of the curve.
68" [1,727 mm] curve radius on all models except ID/IDC3336.
96" [2,483 mm] curve radius on model ID/IDC3336.

York® Incline Conveyor Capacities

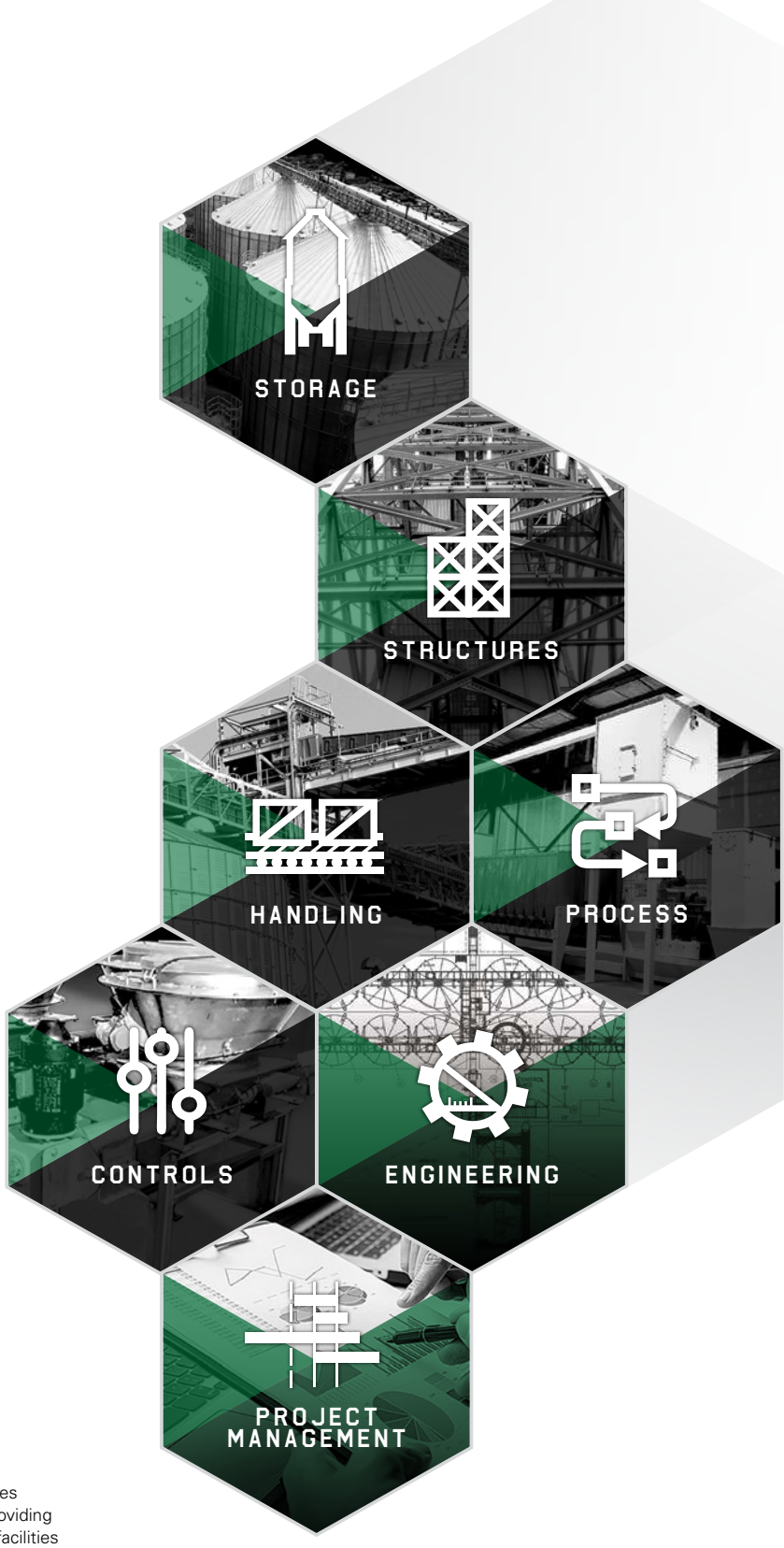
BUSHELS PER HOUR CAPACITY	MODEL	CUBIC FEET PER HOUR	CONVEYOR WIDTH	CONVEYOR HEIGHT	CHAIN SPEED	
					FT/MIN	RPM
2,500	ID/IDC1220	3,125	12"	20"	102	36
3,000	ID/IDC1220	3,750	12"	20"	122	43
3,500	ID/IDC1220	4,375	12"	20"	141	50
4,000	ID/IDC1220	5,000	12"	20"	161	57
4,500	ID/IDC1220	5,625	12"	20"	181	64
5,000	ID/IDC1220	6,250	12"	20"	201	71
	ID/IDC1624	6,250	16"	24"	125	32
5,500	ID/IDC1624	6,875	16"	24"	141	36
6,000	ID/IDC1624	7,500	16"	24"	153	39
7,000	ID/IDC1624	8.750	16"	24"	176	45
7,500	ID/IDC1624	9.375	16"	24"	188	48
10,000	ID/IDC1624	12,500	16"	24"	250	64
	ID/IDC2731	12,500	27"	31"	103	22
12,000	ID/IDC2731	15,000	27"	31"	121	26
15,000	ID/IDC2731	18,750	27"	31"	149	32
17,500	ID/IDC3336	21,875	33"	36"	112	21
20,000	ID/IDC3336	25,000	33"	36"	128	24
22,500	ID/IDC3336	28,125	33"	36"	144	27
25,000	ID/IDC3336	31,250	33"	36"	160	30

Above capacities are based on #2 Corn weighing 56 lbs./bushel.

Incline Drag Conveyor Systems

- Industry-leading quality and innovation
- Wide range of models and capacities for virtually any application
- Easily adaptable to existing facilities and structures
- Competitive pricing without sacrificing quality
- Engineered for unmatched strength, long life and outstanding performance
- Engineering expertise to help you match the right system to your requirements
- Complete grain handling systems including bucket elevators and en masse conveyors

METRIC TONS PER HOUR CAPACITY	MODEL	CUBIC METER PER HOUR	CONVEYOR WIDTH	CONVEYOR HEIGHT	CHAIN SPEED	
					M/SEC	RPM
63	ID/IDC1220	88.5	305 mm	508 mm	0.52	36
76	ID/IDC1220	106.2	305 mm	508 mm	0.62	43
89	ID/IDC1220	123.9	305 mm	508 mm	0.72	50
101	ID/IDC1220	141.6	305 mm	508 mm	0.82	57
114	ID/IDC1220	159.3	305 mm	508 mm	0.92	64
127	ID/IDC1220	177.0	305 mm	508 mm	1.02	71
	ID/IDC1624	177.0	406 mm	610 mm	0.64	32
140	ID/IDC1624	194.7	406 mm	610 mm	0.72	36
152	ID/IDC1624	212.4	406 mm	610 mm	0.78	39
178	ID/IDC1624	247.8	406 mm	610 mm	0.90	45
191	ID/IDC1624	265.5	406 mm	610 mm	0.96	48
254	ID/IDC1624	354.0	406 mm	610 mm	1.27	64
	ID/IDC2731	354.0	686 mm	787 mm	0.52	22
306	ID/IDC2731	424.8	686 mm	787 mm	0.62	26
381	ID/IDC2731	530.9	686 mm	787 mm	0.76	32
444	ID/IDC3336	619.4	838 mm	914 mm	0.57	21
508	ID/IDC3336	707.9	838 mm	914 mm	0.65	24
571	ID/IDC3336	796.4	838 mm	914 mm	0.73	27
635	ID/IDC3336	884.9	838 mm	914 mm	0.81	30



YORK is an AGI Brand.

AGI is a leading provider of equipment solutions for agriculture bulk commodities including seed, fertilizer, grain, and feed systems with a growing platform in providing equipment and solutions for food processing facilities. AGI has manufacturing facilities in Canada, the United States, the United Kingdom, Brazil, South Africa and Italy and distributes its products globally.

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