BUCKET ELEVATORS & CONVEYORS









The performance of your handling system can be the difference between success and failure in your farm or agri-business. It can save or drain time and money. Planning and building an efficient handling system can help you better manage your costs. It can also be overwhelming with so many factors to consider. You cannot afford to make a mistake. Your profit depends on it.

At Norstar, we do more than build your conveyance equipment; we help you visualize, plan and design a handling system that is custom built to fit your needs. We partner you with experienced dealers and millwrights to fully equip and complete your system. We help make it simple to build a system that maximizes your efficiency and boosts your profit.

MOVE WITH EASE. MOVE WITH CONFIDENCE.







BUILT FOR PERFORMANCE AND PRODUCT PROTECTION

Norstar bucket elevators are designed and built to provide you with reliable performance. We offer a wide range of models, options and accessories to ensure a solution that is right for your application.

CAPACITY

MAX. HEIGHT

up to 60,000 BPH (1,500 MT)

200



ELEVATOR HEAD FEATURES:

- Curved design for minimal product impact
- Two-piece hood design for interior access
- UHMW shaft seals for dust and weather protection
- Crown-faced drum pulley with SCOFR (static conductive, oil resistant & fire retardant) rubber lagging
- · Inspection ports for belt tracking
- Shaft-mounted DODGE gearbox
- Double or triple ply SCOFR Goodyear belting

OPTIONAL:

· Liner packages (incl: UHMW and tile) for abrasive use



Inspection Doors Providing convenient access to inside of head section.



Head Bearings Heavy-duty pillow block bearings are externally mounted on all models.







ELEVATOR TRUNKING FEATURES:

- Double legged trunking design
- 14ga, 12ga and 10 ga available (size dependent)
- Flanges are laser-cut (to ensure hole pattern alignment) and jigged.
- Trunking seams are track welded for strength and dust/ weather protection.
- Connector plates included with each section to ensure square and simple installation.
- Service trunking with inspection ports with hinged doors for easy access to belting and buckets



Provide rigidity and ensure a straight install



Laser Cut Flanges
Reliable strength and hole pattern alignment.

ELEVATOR BOOT FEATURES:

- · Heavy gauge steel construction
- · Winged "easy clean" pulley
- Easy-access cleanout doors (16" pulley and larger)
- · Externally mounted pillow block bearings
- UHMW shaft seals for weather/dust protection
- · Threaded rod belt adjustment

OPTIONAL:

- Up-Leg or Down-Leg boot hoppers
- · Flanged boot hoppers

OTSIA!

WHY RUBBER BELTING?:

We use a SCOFR (static conductive, oil resistant & fire retardant) rubber belting specifically designed for grain handling applications. We use rubber belting for the best combination of strength, and flexibility in the widest climate range. It also offers better bolt retention.







Winged Pulley

Prevents material buildup on elevator boot pulley face, preserving the product.



Clean-Out Doors

Easily slide open to access elevator floor for clean-out. NOW ON ALL MODELS

SPECS: BUCKET ELEVATORS

SPECIFICATIONS: (for specs on capacities greater than 20,000 BPH please contact our office)



Series	Pulley Dia (")	ВРН	FPM	RPM	Bucket Size (")	Bucket Spacing (")	Belt Width (")	Trunking Size (")	Max Height	Head Shaft Dia	Boot Shaft Dia	Trunking Gauge (over 150')	Gauge of Boot / Head
	6	100	177	115	4 x 3	12	5	7 x 6	100'	1 1/4	1 1/4	12	10 / 12
600	6	140	177	115	4 x 3	8	5	7 x 6	100'	1 1/4	1 1/4	12	10 / 12
600	6	200	269	175	4 x 3	8	5	7 x 6	100'	1 1/4	1 1/4	12	10 / 12
	6	400	269	175	4 x 3	4	5	7 x 6	100'	1 1/4	1 1/4	12	10 / 12
	8	500	349	175	6 x 4	12	7	9 x 7	100'	1 1/2	1 1/4	12	10 / 12
800	8	700	230	115	6 x 4	6	7	9 x 7	100'	1 1/2	1 1/4	12	10 / 12
	8	1000	349	175	6 x 4	6	7	9 x 7	100'	1 1/2	1 1/4	12	10 / 12
	12	1000	620	192	7 x 5	12	8	10 x 8	100'	1 3/4	1 1/4	12	10 / 12
1200	12	1500	565	175	7 x 5	6	8	10 x 8	100'	1 3/4	1 1/4	12	10 / 12
	12	2000	620	192	7 x 5	6	8	10 x 8	100'	1 3/4	1 1/4	12	10 / 12
1600	16	2500	413	95	9 x 6	7.75	10	10 x 16	200'	3 7/16	1 11/16	14 (12)	10 / 10
1000	16	3000	413	95	10 x 6	7	11	10 x 16	200'	3 7/16	1 11/16	14 (12)	10 / 10
	24	3000	471	73	11 x 6	9.5	12	10 x 16	200'	3 7/16	2	14 (12)	10 / 10
2400	24	4000	471	73	11 x 6	7	12	10 x 16	200'	3 15/16	2	14 (12)	10 / 10
	24	5000	471	73	11 x 6 LP	5.25	12	10 x 16	200'	3 15/16	2	14 (12)	10 / 10
	30	4000	537	67	11 x 6	9.5	12	12 x 18	200'	3 15/16	2 7/16	14 (12)	10 / 10
3000	30	5000	537	67	13 x 6	7.5	14	12 x 18	200'	4 7/16	2 7/16	14 (12)	10 / 10
	30	6000	537	67	13 x 6 LP	5.75	14	12 x 18	200'	4 7/16	2 7/16	14 (12)	10 / 10
	36	6000	614	64	13 x 7	10.5	14	12 x 18	200'	4 7/16	2 15/16	12 (10)	10 / 10
3600	36	7000	614	64	13 x 7	9	14	12 x 18	200'	4 7/16	2 15/16	12 (10)	10 / 10
3000	36	8000	614	64	13 x 7	8	14	12 x 18	200'	4 15/16	2 15/16	12 (10)	10 / 10
	36	10000	614	64	14 x 7 LP	6	15	12 x 18	200'	5 1/2	2 15/16	12 (10)	10 / 10
4200	42	10000	670	60	16 x 8	12.25	17	14 x 22	200'	5 1/2	3 7/16	12 (10)	7/7
4200	42	12000	670	60	16 x 8	10	17	14 x 22	200'	5 1/2	3 7/16	12 (10)	7/7
	48	15000	713	56	20 x 8	11	21	14 x 26	200'	6 7/16	3 15/16	10 (10)	7/7
4800	48	18000	713	56	20 x 8	9	21	14 x 26	200'	6 15/16	3 15/16	10 (10)	7/7
	48	20000	713	56	20 x 8 LP	7.5	21	14 x 26	200'	6 15/16	3 15/16	10 (10)	7/7

BUCKET ELEVATORS							
CAPACITY	100 - 60,000 BPH (up to 1,500 MT)						
PULLEY SIZES	6", 8", 12", 16", 24", 30", 36", 42", 48"						
DISCHARGE HEIGHTS	up to 200'						
FINISH OPTIONS	Powder Coated, Galvanized, Stainless Steel						



EZ-FLOWTM SLOW DUMP BUCKET ELEVATOR

Designed to <u>move material gently and with minimal impact</u>, Norstar EZ-Flow™ Bucket Elevators are perfect for handling products such as seed, edible beans and other fragile commodities.



THE SOLUTION FOR PROTECTING YOUR COMMODITIES



EZ-Flow™ Bucket Elevators move product with buckets fastened to two lengths of chain. The elevator's chain runs significantly slower than a traditional belt system allowing it to use free-gravity discharge. As the bucket and chain runs over the head sprocket, material gently pours out of the bucket into a discharge on the side of the elevator head.

CAPACITY RANGE

• 100 - 2,500 BPH

KEY FEATURES

- Easy Clean-Out Boot
- Weather-Tight Construction
- Heavier Steel Design
- DODGE Flanged Bearings
- Reversible Side Discharge



Looking to move product as gently as possible?

Protect your product quality with the gentle handling of an EZ-Flow™ leg.

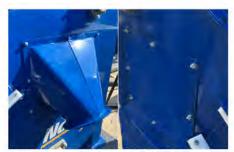
KEY FEATURES



EASY CLEAN-OUT BOOT All EZ-Flow™ models feature Clean-Out Doors that slide open for easy access to the boot floor for cleaning.



WEATHER-TIGHT DESIGN
UHMW shaft seals ensure that
your product is protected from
dust and weather, maximizing
your commodity value.



REVERSIBLE DISCHARGE
The discharge can be positioned
on either side of the head on-site.
Our ladders & platforms work
with either configuration as well.

HEAVIER/DURABLE BUILD

Norstar EZ-Flow[™] legs are built for long-lasting performance. HD Construction prevents twisting. ALL Head and Boot sections are built with 10ga steel. Standard Trunking sections are built with 12ga steel and feature laser cut flanges for accurate hole alignment.

OPTIONS

- Ladders and Cages
- Platforms
- Flanged and Non-Flanged Inlets
- Distributors
- Spouting
- Flow-Retarders, Cushion Boxes
- Powder Coated, Galvanized or Stainless Steel finish

SPECIFICATIONS

Model	Capacity	Cubic Ft/Hr	Bucket Size	Chain	FPM	RPM	Max Height (ft)
600 Series	100-200 BPH	125-250	6" x 4"	C2060H	60-90	26-39	100
800 Series	400-600 BPH	500-750	8" x 6"	C2060H	60-90	22-34	100
1200 Series	800-1,200 BPH	1,000-1,500	12" x 6"	C2060H	60-90	22-34	100
2400 Series	1,500-2,500 BPH	1,875-3,125	24" x 10"	C2080H	60-90	22-34	100





HIGH EFFICIENCY CONVEYANCE WITH THOROUGH CLEAN-OUT

Norstar En-Masse conveyors provide optimal efficiency in horizontal material handling. The chain and paddle design uses less horsepower to move your product and increases conveyor lifespan. Norstar En-Masse conveyors are used in on-grade, overhead and under-bin applications.

CAPACITY

MAX. LENGTH

▶ up to **60,000 BPH (1,500 MT)**

150



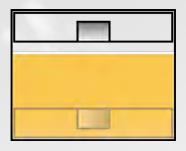


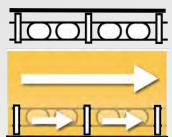






EN-MASSE CHAIN CONVEYORS							
CAPACITY	up to 60,000 BPH (1,500 MT)						
CONVEYOR SIZES	9", 12", 15", 18", 21", 24", 27", 30", 36"						
MAXIMUM HORIZONTAL LENGTH (FT)	150'						
INCLINE RANGE	5° - 15°						
FINISH OPTIONS	Powder Coated, Galvanized, Stainless Steel						





IS IT ACTUALLY EFFICIENT?:

- Paddles drag along conveyor floor, pushing the material at bottom of conveyor which carries the material particles above. (= less torque and less horsepower required)
- Requires less housing space (minimizes footprint)
- The shallow En-Masse paddle allows for a higher fill rate within the housing (= higher volume moved)

CONTAMINATION PROTECTION:

- Fully-enclosed housing keeps material protected from the elements
- · Single chamber design with no risk of product drop off
- UHMW shaft seals keeps dust and weather out
- Self-cleaning tail section prevents product build-up
- Optional cleaning paddles for thorough cleanout
- · Optional flush Cross Slide Gate with no catch points

Self-Cleaning Tail

A curved back plate in the tail prevents material build up. The plate is attached to the tensioning system and moves with adjustments for appropriate proximity to the paddles.

LOW MAINTENANCE:

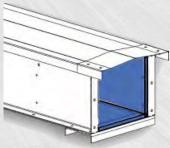
Chain conveyors offer cost savings with much lower maintenance requirements than other conveyance options.

- UHMW paddles are gentle on conveyor housing.
- Easier to add or remove chain links compared to splicing belts.
- Fully enclosed with no dust control required.

Cleaning Paddles

Use our Cleaning Paddles to further prevent cross contamination (there is one paddle/10 of chain). The paddle is a rubber plate, sized to slide against the walls of the conveyor to provide a `squeegee`cleanout.

OPTIONS/ACCESSORIES:





Liners

For abrasion resistance, we offer AR200, AR400 and UHMW bottom and side liner packages.

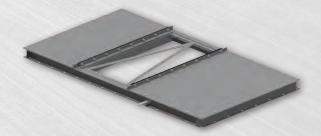


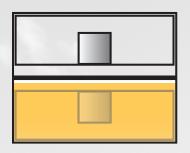
Inlets

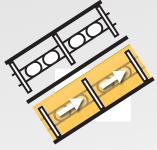
Norstar offers a range of inlets including Drive-Over Hoppers, Hoppers with hinged or bolt-on lids, etc.

CROSS SLIDE GATE:

Norstar's Cross Slide Gate is designed to preserve the integrity of your product. The gate is built so that the slide plate sits flush with the conveyor floor when closed with no cracks for product build up or ledges that could damage product during transit.







MOVING YOUR PRODUCT AT HIGH RATES OF INCLINE

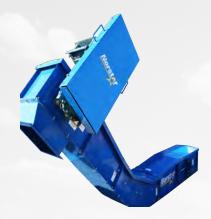
Norstar Incline Chain Conveyors are able to transport material at inclines from 15° - 45°. Most commonly used in receiving applications, Norstar Incline Conveyors offer efficient operation, low-maintenance and excellent material protection.

CAPACITY

MAX. LENGTH

► up to 40,000 BPH (1,000 MT)

150











INCLINE CHAIN CONVEYORS								
CAPACITY	up to 40,000 BPH (1,000 MT)							
CONVEYOR SIZES	9", 12", 15", 18", 21", 24", 27", 30", 36", 44"							
MAXIMUM HORIZONTAL LENGTH (FT)	150'							
INCLINE RANGE	15° - 45°							
FINISH OPTIONS	Powder Coated, Galvanized, Stainless Steel							

A COST-EFFECTIVE & VERSATILE CONVEYANCE SOLUTION

Norstar Screw Conveyors serve as a cost-effective and low maintenance solution to transfer bulk material from one process to another. We design and build our Screw Conveyors to handle applications in numerous industries and are available in a wide range of sizes (6" - 24") with capacities to meet your specific operational requirements.



CONVEYOR TROUGH:

- U-Trough Size: 6", 8", 10", 12", 14", 16", 18", 20" and 24"
- Standard Formed-Flanged U-Trough Design
- Tubed Conveyors available
- Various guages of steel construction available
- Fully enclosed for protection and dust containment

CONVEYOR AUGER:

- · Thickened-Edge Auger Flighting (8" and larger) for increased durability and capacity
- · Helicoid (standard) or Sectional flighting
- · Cut or Cut and Folded flighting
- Pitch options (Short, Variable or Long Pitch)
- Mixing Paddles optional
- · Split Wood Hanger Bearings minimize noise and wear

DRIVES:

· Belt, Chain or Direct Drive configurations







SCREW CONVEYORS						
CAPACITY	Contact Us For Specific Capacity Requirements					
CONVEYOR SIZES	6", 8", 10", 12", 14", 16", 18", 20", 24"					
MAXIMUM HORIZONTAL LENGTH (FT)	N/A					
INCLINE RANGE	up to 15°					
FINISH OPTIONS	Powder Coated, Galvanized, Stainless Steel					





CHAIN LOOP

Managing your Grain Storage System can be <u>complicated</u>... From filling to transfer to unload, there are <u>many moving parts</u>.

A Chain Loop is an easy-to-use solution that can do it all!



CAPACITY RANGE

• 1,500 - 10,000 BPH

LOOP SIZES

6", 8", 10", 12"

PADDLE MATERIAL

UMHW

A <u>single Norstar Chain Loop System</u> can fill, transfer and unload grain from an entire row of grain bins. In a linear system like this, there is no need for multiple pieces of grain handling equipment to move grain into; to and from and out of your grain bins.

<u>One operator</u> can easily manage the functions of a Chain Loop system. Achieving successful fill, transfer or unload of a bin is as simple as opening and closing the correct discharge gates.

Norstar Chain Loop systems can be <u>installed on existing sites as well</u> as new ones.

Our <u>vertical system</u> works on a row of bins where the centers are aligned and the center gates dump into chain loop tubes installed under the bin floor.

Our <u>offset system</u> can be used where there are existing bin unloads and the front discharges are aligned for dumping into the loop.





Too many pieces of equipment for each grain handling function on your farm? Looking to easily control your entire grain storage operation?

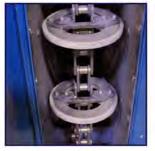
FEATURES

- 6" 12" Models
- UMHW Paddles
- Reinforced Backing on every other Paddle
- DODGE Gearbox Drives
- AR Plate Square-To-Round Transitions
- 81X, 81XHH or WH124 Chain
- Externally Mounted Heavy Duty Pillow Block Bearings
- Powder Coat Finished Corners and Discharges

OPTIONS

- Towers and Catwalks
- Inlets
 Tube Unloaders/Sweeps
- Vertical or Offset Configuration
- Cleaning Paddles Inspection Ports
- Corner and Discharge Liner Packages
- Discharge Gate Automation
- Monitoring Sensors









Norstar offers the infrastructure to set up your Chain Loop system. This includes supporting End Towers and H-Tower/Intermediate Support Towers. We also offer multiple catwalk configurations for easy access to your system.

Norstar offers multiple inlet options for Chain Loop systems including truck drive-over inlets.

Choose your preferred way to unload your grain. Norstar offers chain loop tube systems, carry-in sweeps or full bin unloader/sweep combinations.





TWIN LINES

Managing your Grain Storage System can be <u>complicated</u>... From filling to transfer to unload, there are <u>many moving parts</u>.

A Twin Line is an easy-to-use solution that can do it all!



CA	PACITY RANGE
6"	Up to 2,000BPH
8"	Up to 4,000BPH
10"	Up to 6,000BPH
12"	Up to 10,000BPH

A <u>single Norstar Twin Line System</u> can fill, transfer and unload grain from an entire row of grain bins.

In a linear system like this, there is no need for multiple pieces of grain handling equipment to move grain into; to and from and out of your grain bins.

One operator can easily manage the functions of a Twin Line system. Achieving successful fill, transfer or unload of a bin is as simple as opening and closing the correct discharge gates.

Norstar Twin Line systems provide gentler handling of product, and can be <u>installed on existing sites as well as new ones</u>.

Our <u>system</u> allows for minimal loss of capacity at greater angles. Optional left or right hand drives. And are available in 10" gauge for durability.





Too many pieces of equipment for each grand handling function on your farm? Looking to easily control your entire grain storage operation?

FEATURES

- 6" 12" Models
- UMHW Paddles
- Reinforced Steel Paddle Backing
- DODGE Gearbox Dives
- Requires less HP than auger systems
- Norstar's system allows for minimal loss of capacity at greater angles – up to 60 degrees
- Powder coat finish corners and discharges
- Manual or Automated Discharge Gates







INL	INLET/DISCHARGE						
6"	12ga						
8"	12 or 10ga						
10"	10 ga or 3/16						
12"	10 ga or 3/16						

TUBE	THICKNESS
6"	12 or 10 ga
8"	12 or 10 ga
10"	10ga
12"	10ga



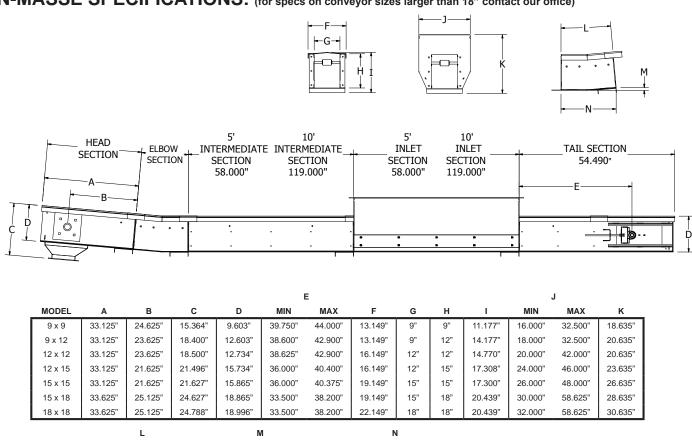
Norstar offers the infrastructure to set up your Twin Lines system. This includes supporting End Towers and H-Tower/Intermediate Support Towers. We also offer multiple catwalk configurations for easy access to your system.

Norstar offers multiple inlet options for Twin Line systems including truck drive-over inlets.



SPECS: EN-MASSE CHAIN CONVEYORS

EN-MASSE SPECIFICATIONS: (for specs on conveyor sizes larger than 18" contact our office)



			L			M			N	
	MODEL	5°	10°	15°	5°	10°	15°	5°	10°	15°
١	9 x 9	5°	10°	15°	0.965"	1.880"	2.873"	19.012"	19.947"	20.779"
1	9 x 12	5°	10°	15°	0.980"	1.940"	3.009"	19.360"	20.642"	21.834"
	12 x 12	5°	10°	15°	0.980"	1.940"	3.090"	19.360"	20.642"	21.834"
	12 x 15	5°	10°	15°	0.995"	2.000"	3.145"	19.709"	21.336"	22.870"
	15 x 15	5°	10°	15°	0.995"	2.001"	3.145"	19.070"	21.336"	22.870"
	15 x 18	5°	10°	15°	1.010"	2.062"	3.282"	20.057"	22.031"	23.905"
ı	18 x 18	5°	10°	15°	1.010"	2.062"	3.282"	20.057"	22.031"	23.905"

To calculate an approximate discharge height;

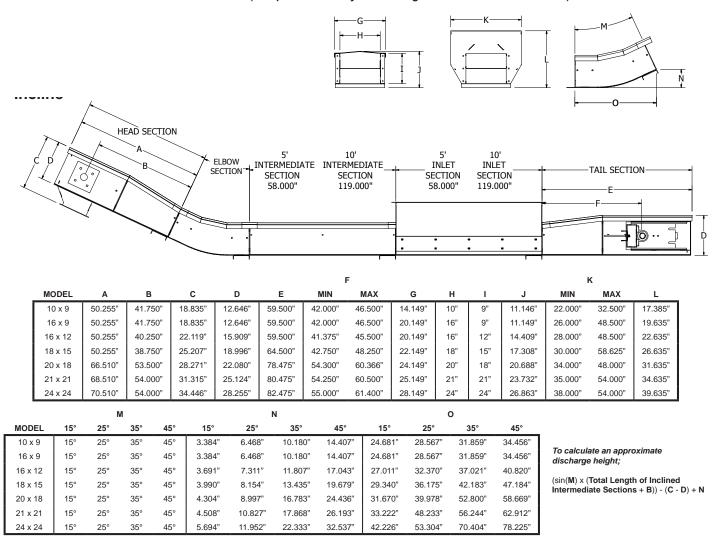
(sin(L) x (Total Length of Inclined Intermediate Sections + B)) - (C - D) + M

Conveyor Size	9" x 9"	9" x 12"	12" x 12"	12" x 15"	15" x 15"	15" x 18"	18" x 18"
Chain Speeds	0 - 175 FPM	0 - 175 FPM					
Capacity (BPH)	Up to 2,500	Up to 3,900	Up to 5,200	Up to 7,375	Up to 9,225	Up to 11,700	Up to 14,000
Head Shaft RPM	27 - 97	20 - 72	20 - 72	15 - 53	15 - 53	12 - 42	12 - 42
Paddle Thickness	1/4"	1/4"	1/4"	1/4"	1/2"	1/2"	1/2"
Discharge Size	8" x 8"	8" x 8"	10" x 10"	10" x 10"	14" x 14"	14" x 14"	16" x 16"
Max. Length	150'	150'	150'	150'	150'	150'	150'

	175 FPM	125 FPM	110 FPM	100 FPM	75 FPM	50 FPM	RPM (50 FPM)
9" x 9"	2,500 BPH	1,800 BPH	1,575 BPH	1,425 BPH	1,075 BPH	700 BPH	27
9" x 12"	3,900 BPH	2,800 BPH	2,475 BPH	2,250 BPH	1,675 BPH	1,100 BPH	20
12" x 12"	5,200 BPH	3,750 BPH	3,275 BPH	3,000 BPH	2,250 BPH	1,450 BPH	20
12" x 15"	7,375 BPH	5,275 BPH	4,650 BPH	4,225 BPH	3,175 BPH	2,050 BPH	15
15" x 15"	9,225 BPH	6,575 BPH	5,775 BPH	5,250 BPH	3,975 BPH	2,600 BPH	15
15" x 18"	11,700 BPH	8,350 BPH	7,350 BPH	6,700 BPH	5,000 BPH	3,325 BPH	12
18" x 18"	14,000 BPH	10,000 BPH	8,800 BPH	8,000 BPH	6,000 BPH	4,000 BPH	12

SPECS: INCLINE CHAIN CONVEYORS

INCLINE SPECIFICATIONS: (for specs on conveyor sizes larger than 24" contact our office)

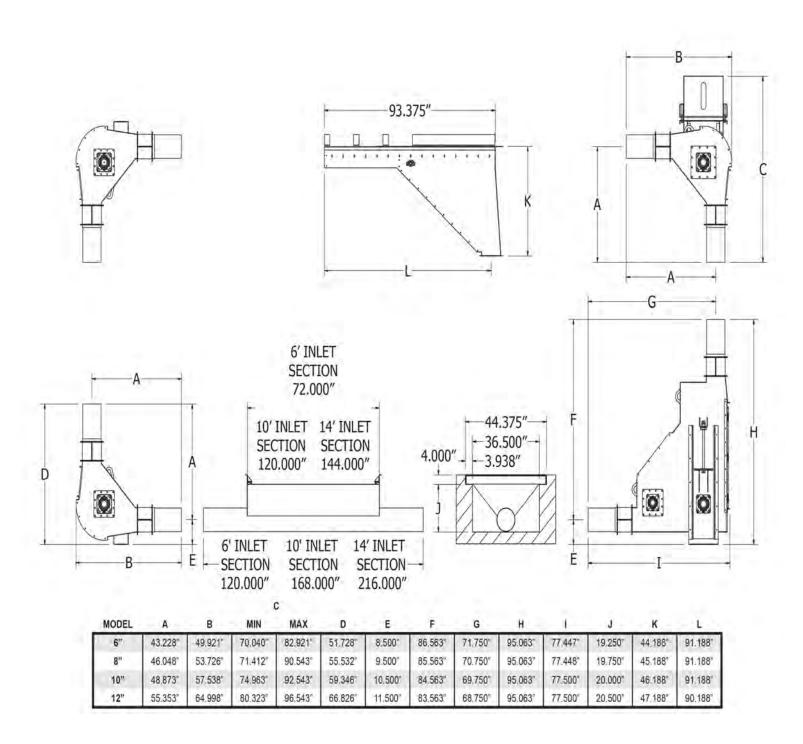


Conveyor Size	10" x 9"	16" x 9"	16" x 12"	18" x 15"	20" x 18"	21" x 21"	24" x 24"
Chain Speeds	0 - 175 FPM	0 - 175 FPM	0 - 175 FPM				
Capacity (BPH)	Up to 2,525	Up to 4,025	Up to 5,375	Up to 7,575	Up to 10,100	Up to 12,375	Up to 16,175
Head Shaft RPM	25 - 87	25 - 87	21 - 72	17 - 61	15 - 53	13 - 47	13 - 44
Paddle Thickness	1/4"	1/4"	1/2"	1/2"	1/2"	1/2"	1/2"
Discharge Size	10" x 10"	14" x 14"	14" x 14"	16" x 16"	18" x 18"	20" x 20"	22" x 22"
Max. Length	150'	150'	150'	150'	150'	150'	150'

	175 FPM	125 FPM	110 FPM	100 FPM	75 FPM	50 FPM	RPM (50 FPM)
10" x 9"	2,525 BPH	1,810 BPH	1,590 BPH	1,585 BPH	1,080 BPH	725 BPH	25
16" x 9"	4,025 BPH	2,900 BPH	2,535 BPH	2,310 BPH	1,725 BPH	1,150 BPH	25
16" x 12"	5,375 BPH	3,870 BPH	3,400 BPH	3,100 BPH	2,300 BPH	1,550 BPH	21
18" x 15"	7,575 BPH	5,425 BPH	4,775 BPH	4,350 BPH	3,250 BPH	2,150 BPH	17
20" x 18"	10,100 BPH	7,250 BPH	6,350 BPH	5,800 BPH	4,350 BPH	2,900 BPH	15
21" x 21"	12,375 BPH	8,850 BPH	7,800 BPH	7,100 BPH	5,300 BPH	3,550 BPH	13
24" x 24"	16,175 BPH	11,600 BPH	10,200 BPH	9,250 BPH	6,900 BPH	4,650 BPH	13

SPECS: CHAIN LOOP CONVEYORS

CHAIN LOOP SPECIFICATIONS: (for specs on conveyor sizes larger than 24" contact our office)





MILL ACCESSORIES

2022 CATALOG



YOUR #1 CANADIAN SOURCE FOR MILLING ACCESSORIES



SPOUTING, ELBOWS, CLAMP BANDS, PIPE SLEEVES, TRUSS KITS, DISTRIBUTORS, SPLITTER & PAN VALVES, EXPANSION JOINTS, CUSHION BOXES, FLOW RETARDERS, TRANSITIONS, FLANGES, SLIDE GATES, TOWERS, STAIRCASES

CALL 1.855.746.8200 OR VISIT WWW.MILLACCESSORIES.CA TO ORDER



ALL ORDERS ARE F.O.B. MORRIS, MB CANADA

MILL ACCESSORIES:

Norstar Industries offers a wide range of mill and elevator accessories. We provide accessories in Primed, Powder Coated, Galvanized or Stainless Steel finishes as per your order and can provide a large variety of sizes to ensure that your specific on-site needs are met. Whether you are in the installation business or looking to upgrade your site, Norstar has the components that you need.







4 Duct Flat Back

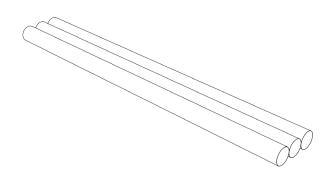
8 Duct Flat Back

DISTRIBUTORS

- Powder Coated, Galvanized or Stainless Steel
- 6" 16" models
- 4 12 ducts
- 45° and 60°
- Flat Back design

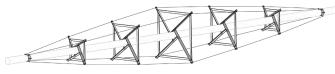
ROUND SPOUTING

- · Carbon Steel, Galvanized, or Stainless Steel
- Raw or Powder Coated (carbon only)
- All spouting available in 20' and 40' lengths
- 4" 16" diameters
- Truckload quantities available



TRUSS KITS

- Compatible with 6" to 16" spouting
- Powder Coated or Galvanized
- 40' 100' kits
- Kits include star and anchor assemblies, wire rope, turnbuckles, wire clamps and hardware
- Components also available separately



Round Spout Truss Kit

CLAMP BANDS & PIPE SLEEVES

- 4" 24" Bolted Clamp Bands
- Galvanized or Stainless Steel
- 24" long Bolted Pipe Sleeves
- Powder Coated, Galvanized or Stainless Steel
- 6" 18" diameters





Clamp Band

Pipe Sleeve



22.5° Elbow

45° Elbow **Assembly**



67.5° Elbow Assembly

ELBOWS

- 22.5° elbows
- 6", 8", 10", 12", 14", 16", 18", 20", and 24" diameters
- Single, Double and Triple assemblies (up to 67.5° angle)
- Powder Coated, Galvanized or Stainless Steel









2-Way Pan Valve 2-Way Offset Pan Valve

3-Way Pan Valve

PAN VALVES

- Powder Coated, Galvanized or Stainless Steel
- 6" 16" models
- 2-way, 3-way and offset designs
- 45° angles

TRANSITIONS

- Powder Coated, Galvanized or Stainless Steel
- Square-to-square, square-to-round, round-to-round
- up to 24" in size







Round-to-Round

Square-to-Round

Square-to-Square







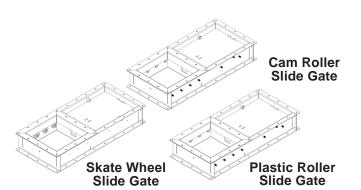
Flow Retarder

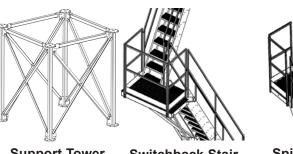
CUSHION BOXES & FLOW RETARDERS

- Powder Coated, Galvanized or Stainless Steel
- 6" 16" Adjustable Cushion Boxes
- 6" 16" Flow Retarders (10ga and 7ga)

SUPPORT TOWERS & STAIRCASES

- Powder Coated or Galvanized
- 8'x8', 10'x10' and 12'x12' towers
- Engineered towers up to 160'
- Switchback and Spiral Staircases
- Diamond Grip® stair tread





Support Tower

Switchback Stair

Spiral Stair

SLIDE GATES

- Powder Coated, Galvanized or Stainless Steel
- Plastic Slider, Cam Roller & Skate Wheel models
- Manual or Actuator (Cam Roller & Skate Roller) compatible
- Motor/Gearbox operation packages
- Hand Wheels and Chain Wheels
- 6" 36" Wide

ORDER ONLINE NOW







www.millaccessories.ca www.millaccessories.com







Call 1.855.746.8200 or visit www.norstarmfg.com for more product information.

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