

GRAIN > STATIONARY AUGERS >
U-TROUGH AUGERS



U-trough augers are a versatile choice for material handling applications of all kinds. Sudenga u-troughs are engineered for ease of installation and operational reliability. Available in 6", 8", 10" and 12" diameters.

Sudenga®

INDUSTRIES, INC.

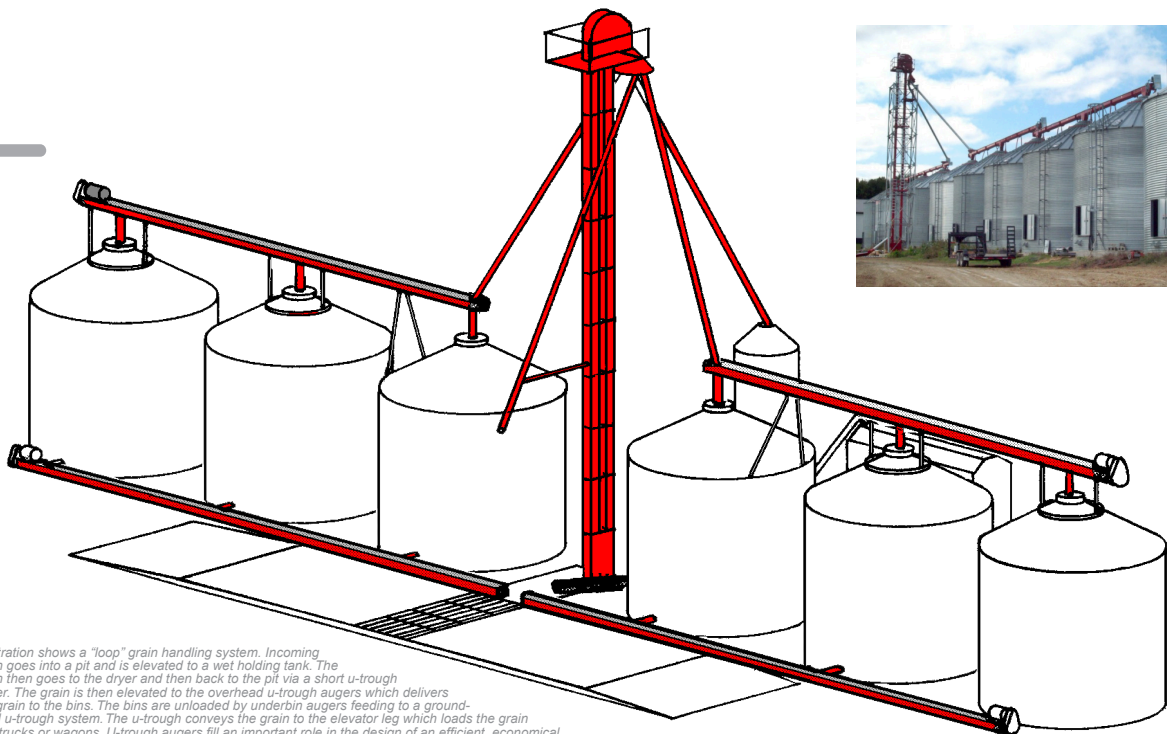


Illustration shows a "loop" grain handling system. Incoming grain goes into a pit and is elevated to a wet holding tank. The grain then goes to the dryer and then back to the pit via a short u-trough auger. The grain is then elevated to the overhead u-trough augers which delivers the grain to the bins. The bins are unloaded by underbin augers feeding to a ground-level u-trough system. The u-trough conveys the grain to the elevator leg which loads the grain into trucks or wagons. U-trough augers fill an important role in the design of an efficient, economical grain handling system.

- Direct, chain reduction, or helical gear drive available with several types of motor mounts.
- Runs to 150 feet, depending on application.
- Wood block hanger bearings provide quiet operation, long flighting life, and easy maintenance. Bronze bearings optional.
- Trough and hip roof cover.
- Drives and motor mounts for all applications.
- Directional valves, adaptors, and spouting in urethane, galvanized, and painted steel.
- Bin rings, bin stands, eave stands, and special motor mounts are available for overbin installations.

Learn more
or get a quote



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U-TROUGH AUGERS

Sudenga u-trough augers are available in 6", 8" 10", and 12" diameters. Wood block hanger bearings provide quiet operation, long flighting life, and easy maintenance/replacement. Bolt-on hip roof trough cover is standard equipment, keeping these covers in place at all times. U-trough augers are available with three styles of direct drive, chain reduction drives, and helical gear drive.



STANDARD FEATURES

- Available in 6", 8", 10" and 12" diameters.
- Direct, chain reduction, or helical gear drive available with several types of motor mounts.
- Runs to 150 feet, depending on application.
- Wood block hanger bearings provide quiet operation, long flighting life, and easy maintenance. Bronze bearings optional.
- Trough and hip roof cover.
- Drives and motor mounts for all applications.
- Directional valves, adaptors, and spouting in urethane, galvanized, and painted steel.
- Mounting brackets in several styles and clear span trussing let you handle a variety of installation requirements.
- Bin rings, bin stands, eave stands, and special motor mounts are available for overbin installations.
- Guarded inlets and outlets, discharge controls, perforated screen cleaning trough, hinge joints (up to 15°), pulleys and cable are available.
- Protected inlets must be used. Guards and covers must be in place during u-trough operation.



MATERIAL

U-trough augers will convey any free flowing material where particle size does not exceed 1/3 of the trough diameter.



APPLICATIONS

U-trough augers are recommended for any horizontal or inclined application up to 15°, but should not have grain or products stacked on them. In flat storage buildings, one run of u-trough can be mounted in the building's peak for filling the building. One or two runs with guarded intakes can go in the floor to empty the building.

- Over-bin installations
- Feed or seed processing system links
- Elevator leg "feeders"
- Horizontal to vertical applications

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SPECIFICATIONS

	Trough Gauge	Flight Gauge	Flight Pipe	Shaft Diameter	Capacity*	Auger RPM**
6" Augers	14	10	1 1/4"	1"	428 BPH	210
8" Augers	14	3/16"	1 1/2"	1 1/4"	1125 BPH	210
10" Augers	12	3/16"	2 1/2"	1 1/2"	1985 BPH	180
12" Augers	12	1/4"	2 7/8"	1 1/2"***	3550 BPH	180

*If larger capacities are required, it is better to move up to a larger diameter trough.

**Augers with intermediate discharges should run at the speeds shown. Higher RPM may cause the conveyed material to be carried across intermediate discharges.

***Pipe is 2" ID sleeved down to 1 1/2"

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