

ISO

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1050

CONTINUOUS MECHANICAL HANDLING EQUIPMENT
FOR LOOSE BULK MATERIALS

SCREW CONVEYORS

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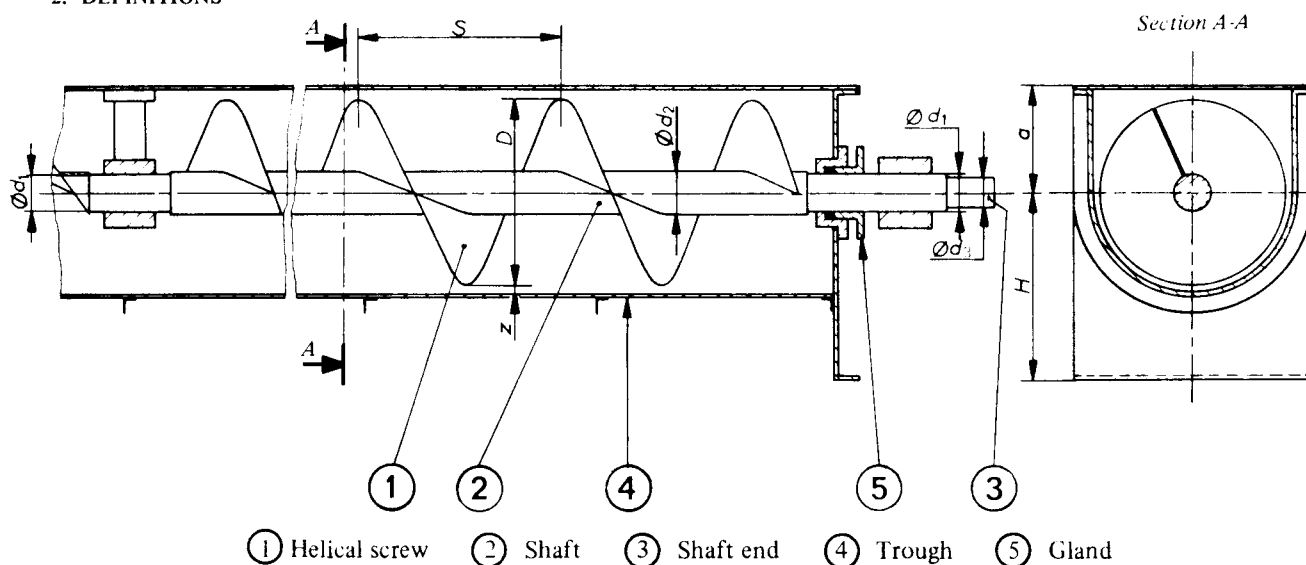
CONTINUOUS MECHANICAL HANDLING EQUIPMENT FOR LOOSE BULK MATERIALS

SCREW CONVEYORS

1. SCOPE

This ISO Recommendation defines the recommended values of the main dimensions of the screw conveyors' elements.

2. DEFINITIONS



2.1 Helical screw

2.1.1 *Nominal diameter.* The nominal diameter D of a screw conveyor is the outside diameter of the helical screw.

2.1.2 *Pitch.* The pitch S of a screw conveyor is the pitch of the helical screw.

2.2 Shaft

2.2.1 *Constitution.* The shaft of the helical screw may be made either solid (diameter d_1), or partly solid (diameter d_1) and partly tubular (diameter d_2).

2.2.2 *Shaft end.* The driven end of the shaft (diameter d_3).

2.3 Trough

2.3.1 *Shaft height.* Height H of the shaft centre line above the foot of the trough support.

2.3.2 *Height above shaft.* Distance a between the shaft centre line and the top of the trough.

2.3.3 *Clearance.* Radial clearance z between the helical screw and the interior of the cylindrical part of the trough.