

SNO-KING DT-10 SNOW PLOW PACKAGE

SK0310P WITHOUT HYDRAULICS
FOR 8,600 – 10,000 LB GVW TRUCKS

	Minimum Specification <i>10' power reversible snow plow with double polyurethane safety trip mechanisms. For 8,600 – 10,000 GVW truck</i>	Does not Meet Spec	Meets Spec	Comments
Moldboards				
1	Moldboard height 32", width 10'			
2	Moldboard sheet is orange, 1/4" HMW polyurethane, UV stabilized			
3	The Moldboard sheet is pressed and bolted into a 16 1/2" radius steel frame assembly			
4	There are (2) 1/2" x 2 1/2" main ribs which are 60" apart. These ribs are the attaching points of the torque arms. The torque arms attach point has a series of (5) holes to change the blade attach angle			
5	There are (3) 1/4" x 2 1/2" center ribs and (2) 1/4" x 2 1/2" outer ribs			
6	The ribs are reinforced with 3/8" x 3" cross brace the full width of the moldboard			
7	The moldboard base angle is 7" x 2 1/2" x 3/8" x 120" long w/ full length crimp for additional rigidity			
8	7" leg base angle is parallel to the direction of impact			
9	The moldboard top angle is 2" x 2" x 1/4" structural angle with pre punched holes for the optional rubber deflector			
10	There are (2) 1/4" x 1 1/2" flat bars running the length of the moldboard to reinforce the moldboard frame and to provide a bolting strip for the poly moldboard sheet			
11	(1) R.H. moldboard curb guard			
12	(2) Moldboard mounted trip stops			
13	Moldboard frame is 100% welded			
Cutting Edge				
1	5/8" x 6" x 120", TS 1080 steel cutting edge			
2	Bolt holes are 11/16" conventional AASHO punched and counter sunk for plow bolts			
3	Hardware is 5/8" grade 8 plow bolts with top lock nuts and oversize washers			
4	(3) 3/8" x 2" x 26" and (2) 3/8" x 2" x 6" plate washers to evenly distribute load on the hinge			
A-Frame Push-Frame				
1	The "A" frame "legs" are constructed from 3 1/2" x 3 1/2" x 3/8" wall structural angle iron			

A-Frame Push-Frame (continued)				
2	The point of the “A” frame has a top and bottom connection plate to strengthen the joint and position the center pivot bushing			
3	The “A” frame end plate is constructed from 5/8” plate which is 4” wide and 24” long with a 1-1/32” swivel bolt hole			
4	Four 1/2” plate cylinder lugs join the “A” frame legs and the end plate as well as provide the reverse cylinder attachment point			
5	The reverse cylinders pin to the “A” frame and torque tube with 1” mounting pins w/ cotter pins as keepers			
6	The center pivot bushing is full depth of the “A “ frame and made from 2” OD DOM tube			
7	1 1/2” grade 8 center pivot bolt with top lock nut			
8	Lift chain to be a single 3/8” grade 70 transport chain			
9	1 1/2” x 8” SA reverse cylinders			
10	Bolt on swivel with 1” center bolt, 3/4” plate ears, & holes for 1” hitch pins			
Trip Edge & Full Moldboard Trip				
1	Safety trip mechanism’s to operate <i>without</i> the use of <i>steel</i> torsion or compression trip springs.			
2	Lower trip edge utilizing high performance polyurethane technology			
3	Polyurethane trip hinge 1 3/8” x 5 1/2” x 118 1/2” long			
4	Upper full safety trip via urethane torque arms inserted into each end of the torque tube arm shafts			
5	Torque arms constructed from 1/2” steel plate ends with a 2” DOM tube welded perpendicular to the end plate			
6	Urethane material is bonded to the torque arm to provide moldboard trip and return			
7	Tube is tapped and threaded to provide the lower connection and pivot point to the plow moldboard			
8	Top of torque arms bolted to corresponding holes in the main 1/2” plate ribs of the moldboard to provide upper connection to the plow moldboard, as well as attack angle adjustment			
Lift Frame Assembly				
1	(2) 2” O.D. x 3/8” wall x 12 1/4” DOM mounting tubes insert into the receiver boxes			
2	(2) Holes in each mounting tubes provide a four-point attachment to the receiver			
3	The mounting tubes pass through and are welded to both sides of the 1/2” x 6” x 27 1/2” backer plate.			
4	A 2 1/2” x 3/16” wall square tube is welded to the front of the backer plate to form the base of the lift frame. The base member has (4) 3/8” plate dual lugs with 1” holes to pin the plow to the lift frame.			

Lift Frame Assembly (Continued)			
5	The vertical support is a single 1 ½" x 2 ½" x 3/16" wall tube bent (4) times standing 23 ½" tall. The lift arm will pivot the flat section on the top of the lift frame.		
6	The vertical tube of the lift frame and base weldment of the lift frame are attached via (2) ¾" plates. The shape of the plate positions the plow attaching point below and behind the vertical portion of the lift frame.		
7	The cylinder base tube is 2 ½" sq. x 3/6" wall tube with (2) 3/8" cylinder lugs.		
8	The plow light mounting plates are 3/16" x 2" x 12 ¾" long and are welded at the top of the vertical support tubes. These plates are reinforced with a 3/16" thick gusset.		
9	Above the push tube there is a 2 ½" sq. x 3/16" cross tube where the electric hydraulic power unit is mounted.		
10	The lift arm is 2 ½" sq. tube 14 ½" long welded to a 3" sq. x ¼" wall life yoke.		
11	The plow lift cylinder is a single acting 1 ½" x 8" stroke.		
12	The cylinder mounting pins are 1" diameter cold rolled steel.		
Receiver Mounting System			
1	Engineered, custom vehicle attachment kit for the receiver plate, which mounts below and behind the vehicle bumper		
2	Receiver mounting plate is 6" x 40" from ½" steel plate with a 3/8" x 2" stiffener		
3	The receiver has two boxes, constructed from 3" x 3/8" square tube, each with two holes for 1" keeper pins		
4	The receiver boxes are on the underside of the plate and are on 23 ½ centers		
5	(4) Standard 1" spring loaded keeper pins to attach the lift frame		
Finish			
1	Blasted and chemically washed		
2	Paint – powder coated gloss black		
Hydraulics – For use with truck central hydraulic system			
1	Cylinders with ¼" "O" ring parts		
2	Hydraulic lines are Weatherhead ¼", 2 wire		
3	Quick disconnect & 90 degree swivel		
Accessories			
1	Blade guides-orange, bolt on flexible plastic rods		
2	Jack shoe for lift cylinder		
3	Plow directional lights with harness and headlight adapters		
Accessories Optional			
1	12 Gauge steel moldboard		
2	Moldboard shoes w/ washer adjustment		
3	2" x 8" double acting plow lift cylinders for central hydraulics		

Accessories Optional (continued)				
4	2" x 8" double acting plow lift cylinders for central hydraulics			
5	Cushion valve for plow reverse circuit with relief set at 2500 psi			