SNO-KING DT-10 SNOW PLOW PACKAGE

SK0300P WITH HYDRAULICS
FOR 8,600 – 10,000 LB GVW TRUCKS

	Minimum Specification *10' power reversible snows plow with double polyurethane safety trip mechanisms. For 8,600 – 10,000 GVW truck*	**Does not Meet Spec**	**Meets Spec**	**Comments**
Moldboards				
1	Moldboard height 32", width 10'			
2	Moldboard sheet is orange, ¼" HMW polyurethane, UV stabilized, made from virgin material			
3	The Moldboard sheet is pressed and bolted into a 16 ½" radius steel frame assembly			
4	There are (2) ½" x 2 ½" main ribs which are 60" apart. These ribs are the attaching points of the torque arms. The torque arm attach point has a series of (5) holes to change the blade attack angle			
5	There are (3) ¼" x 2 ½" center ribs and (2) ¼" x 2 ½" 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 ½" x 3/8" x 120" long with a full length crimp for additional rigidity			
8	7" leg of the base angle is perpendicular to the direction of impact			
9	The mold board top angle is 2" x 2" x ¼" structural angle with pre punched holes for the optional rubber deflector			
10	There are (2) ¼" x 1 ½" 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	(4) 3/8" x 2" x 18" plate washers to evenly distribute load on the hinge			

A-Frame Push-Frame				
1	The "A" frame "legs' are constructed from 2" x 3" x 1/4" wall structural rectangular tube			
2	The point of the "A" frame has a top and bottom connection plate made from ¼", to strengthen the joint and position the center pivot bushing			
3	The "A" frame end plate is construct from 5/8" plate which is 4" wide and 24" long with a 1-1/32" swivel bolt hole			
4	Four ½" 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 ½" grade 8 center pivot bolt with top lock nut			
8	Single lift chain to be a single 3/8" grade 70 transport chain			
9	1 ½" x 8" SA reverse cylinders			
10	Bolt on swivel with 1" grade 8 center bolt, ¾" plate ears, & holes for 1" hitch pins			
Trip Edge & Full Moldboard Trip				
1	Safety trip mechanism's to operate ***without*** the use of ***steel*** torsion or compression trip springs.			
2	Lower trip edge utilizing high performance polyurethane technology			
3	Polyurethane trip hinge 1 3/8" x 5 ½" x 118 1/2" long			
4	Upper moldboard safety trip via urethane torque arms inserted into each end of the torque tube			
5	Torque arms constructed from ½" 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	Torque arm tube is tapped and threaded to provide the lower connection and pivot point to the plow moldboard			
8	Top of torque arms bolt to corresponding holes in the main ½" 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 ¼" DOM mounting tubes insert into the receiver boxes.			
2	Both mounting tubes have (2) holes for 1" pins, providing a four-point attachment to the receiver.			
3	These mounting tubes pass through and are welded to both sides of the ½" x 6" x 27 ½" backer plate.			

Lift Frame Assembly (continued)				
4	A 2 ½" 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.			
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 from 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 plates 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 3/16" wall tube with (2) 3/8" cylinder lugs.			
8	The plow light mounting plates are 3/16" x 2" x 12 ¾" long and welded at the top of the vertical support tube. 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 13" long welded to a 3" sq. x ¼" wall lift 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 mount 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" spring loaded 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				
1	Monarch electric hydraulic self contained power unit mounted in lift frame			
2	12-volt electric motor, extended duty cycle, & is molded rubber covered on the starter solenoid			
3	Pump flow is 2.0 CC per revolution at 2600 PSI			
4	Polyethylene reservoir is 2 quart capacity			
5	Easy visual fluid level recognition			

Hydraulics (continued)				
6	¼" NPT ports			
7	Hydraulic lines are Weatherhead ¼", 2 wire			
8	Quick disconnect & 90 degree swivels			
9	Hand held controller for electric solenoid actuated valves to control plow functions with on/off switch,			
10	Dual adjustable cross over relief factory preset at 1800 PSI on reverse circuit			
11	Two-piece control cable w/ disconnect plugs			
12	Weather-Pack resistant plug connectors			
13	Power unit cover – aluminum, powder coated black			
Accessories				
1	Blade guides-orange, bolt on flexible plastic rods			
2	Jack shoe for lift cylinder			
3	Low profile plow lights with directionals, complete wire harness with molded rubber plugs, and headlight adapter.			
Accessories Optional				
1	12 Gauge steel moldboard			
2	Moldboard shoes w/ washer adjustment			
3	2" x 8" SA reverse cylinders for 8' & 9' plows			
4	2" x 8" double acting plow lift cylinders for central hydraulics			