

SNO-KING DT-9 SNOW PLOW PACKAGE

SK0200P WITH HYDRAULICS
FOR 11,000 – 16,000 LB GVW TRUCKS

	Minimum Specification <i>9' power reversible snows plow with double polyurethane safety trip mechanisms. 11,000 – 16,000 GVW truck</i>	Does not Meet Spec	Meets Spec	Comments
Moldboards				
1	Moldboard height 32", width 9' (34" with cutting edge)			
2	Moldboard sheet is orange, 1/4" HMW polyurethane moldboard sheet orange 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 arm 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 1/4" 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 108" 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 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 108", edge is 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 1/4", 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 with 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	Single lift chain 3/8", grade 70 transport chain		
9	1 1/2" x 8" SA reverse cylinders		
10	Bolt on swivel with 1" grade 8 center bolt, 3/4" plate ears and 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 106" long		
4	Upper moldboard safety trip via urethane torque arms inserted into each end of the torque tube		
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	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 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	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 1/2" x 6" x 27 1/2" backer plate		

Lift Frame Assembly (continued)				
4	A 2 1/2" x 3/16" wall square 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 1/2" x 2 1/2" x 3/16" wall tube bent (4) times standing 23 1/2" 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) 3/4" 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 1/2" 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 3/4" 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 1/2" sq. x 3/16" cross tube where the electric hydraulic power unit is mounted.			
10	The plow lift cylinder is single acting 1 1/2" x 8" stroke			
11	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 1/2" 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 the 1" spring-loaded keeper pins.			
4	The receiver boxes are on the underside of the plate and are on 23 1/2" 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			
6	1/4" NPT ports			

Hydraulics (continued)			
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 light with directional, 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 10" SA reverse cylinders for 8' & 9' plows		