

SNO-KING DT-9 SNOW PLOW PACKAGE

SK0210P WITH OUT HYDRAULICS
FOR 11,000 – 16,000 LB GVW TRUCKS

| | Minimum Specification <i>9' power reversible snows plow with double polyurethane safety trip mechanisms. For 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, UV stabilized, made from virgin material | | | |
| 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 1/2" 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 108" long w/ full length crimp for additional rigidity | | | |
| 8 | 7" leg 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", 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 | | | |
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| 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 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 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 106" 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 | These mounting tubes pass through and are welded to both sides of the 1/2" x 6" x 27 1/2" backer plate. | | | |
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| 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 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 3/6" wall tube with (2) 3/8" cylinder lugs. | | | |
| 8 | The plow light mounting plates 3/16" x 2" x 12 ¾" long are 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 14 ½" 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 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 and 90 degree swivels | | | |
| 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" SA reverse cylinders for 8' & 9' plows | | | |
| 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 | | | |