

“Permanent” Replacement Seals For Deere 30, 40 Series Tractors

A Missouri machine shop that got tired of replacing leaky load control shaft seals on Deere 30 and 40 series tractors came up with heavy-duty “PERMANENT” replacement seals.

Boling Machine Shop, Lenter, Mo., says Deere’s seals often start leaking after six months or less. Boling has been making heavy-duty replacements for 20 years. The replacements are machined out of steel with Teflon liners, O-rings, or neoprene washers, depending on model. The O-rings, liners and washers can be replaced without replacing the seals. The 4020 seals also fit 4010, 5010, 5020 and some applications of 4000 models.

The 3020 seal also fits 2510, 2520, 3010 and 4030 tractors. A 4520 seal also fits 4620, 7020, and 7520 tractors. This series sells for \$55 a set.

The company also has seals and bushings for newer tractors which include 4440, 4230, 4240, 4320, 4430, 4440 and 6030. Each set contains two hardened steel bushings which have a wider surface to reduce shaft wear and two seals with replaceable inserts. They sell for \$85 per set.

We also sell load control shafts for most models. New seals this year are, 2950, 2940, 2840, 2850, 2855, 2550 and many others. All seals are fully guaranteed.



Permanent replacement seals don’t leak like factory seals, says Boling Machine.

Contact: Boling Machine Shop, 2357 Shelby 418, Lenter, Mo. 63450 (ph 660 699-3717; website: www.bolingmachine.com).

Reader Inquiry No. 92



Rusty Inskeep cut up 2 New Holland 5070 balers and combined them into a single machine. “It lets us make more than 900 bales an hour in heavy, first crop hay,” he says.



Double baler picks up hay from large merged windrows, separates the inflow into 2 separate chambers, and kicks bales out 2 separate chutes at the same time.

Photo courtesy Carl Stafford

Two New Holland Balers Merged Into One Big Machine

“We cut up two New Holland 5070 balers and combined them into a single machine,” says Virginia haymaker Rusty Inskeep. “With this new outfit we’re able to bale more than 900 bales an hour in heavy first crop hay.”

Inskeep’s double baler works efficiently because it picks up hay from large merged windrows, separates the inflow into two separate chambers, and kicks bales out two separate chutes in the back at the same time. One tractor pulls the oversize machine that Inskeep calls the “Mt. Pony Special”.

Turns out the Mt. Pony Special is more than capable of high output. The Inskeeps averaged about 70,000 bales of hay and straw a year with it in 2012 and 2013. “One day we made just short of 5,000 bales in 6 hrs.,” Rusty says. “It was amazing to see.”

Inskeep’s double barrel special has the pickup, baling and discharge mechanisms of both New Holland 5070 machines. The machine on the left (looking back from the tractor) only has modifications to the hitch and the pickup. The other machine was cut apart and re-assembled to create a mirror image of the one on the left. A 7-1/2 ft. wide pickup

is in the center of the joined machines, able to consume double-wide windrows. As hay is picked up, separate gathering forks pull material into both baling chambers. Plungers in each chamber cut, compact and build 50 to 60-lb. bales that are discharged out the back on separate chutes. Each chute is equipped with a moisture tester and scale so bales can be sized equally from both chambers. Uniform and equal weight bales are needed because the Inskeeps pick up all their hay with self-propelled bale wagons.

An elaborate, arching hitch made of 8 in. by 8 in. square tubing and reinforced framing behind the pickup holds the whole setup together. The conjoined machine is 13 ft. wide, weighs 11,000 lbs. and has a tongue weight of 2,640 lbs. It rides on two single 24-ply trailer tires. Rusty’s nephew Paul brought his computer programming and design skills to the project by configuring the whole setup on 3D CAD. “I only had ideas in my head and sketches on paper,” Rusty says. “Paul put it all onto the computer so we could make changes with the software rather than building it with metal and tearing it apart if it didn’t work.”

Configuring the drive for the two baling mechanisms was a major undertaking. A 1-3/8 in. dia. drive shaft runs from the 1,000 rpm tractor pto to a speed-reducing gearbox that creates two 540 rpm drives. The plungers are timed so they alternate compressing hay. “Because of the timed plungers, running this machine doesn’t take any more power than running one baler,” Inskeep says. They use a 140 hp. tractor with dual wheels to pull the baler. Twine is dispensed from a super-sized 16-ball twine box mounted between the two balers at the back.

The Inskeeps use the Mt. Pony Special for baling about 450 to 500 acres of hay and straw every year. Two discbines cut the hay, and twin rakes pull about 26 ft. of hay together into one super-sized swath for the baler. “It’s saved us a lot of time and helped speed up our operation,” says Rusty. “I think it probably does the work of 3 balers, and that’s just what we needed.”

Contact: FARM SHOW Followup, Rusty Inskeep, 22502 Mt. Pony Farms Drive, Culpeper, Va. 22701 (ph 540 825-0109).