Kubota BV4160 vs.
John Deere 451M

Bale Chamber

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Summary

PRO FRAMEWORK

Competitive Comparison

Kubota® UNIVERSITY

Kubota BV4160 vs. John Deere 451M

Bale Chamber

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SUMMARY

- The standard BV4160 is capable of handling any type of crop including silage where the 451M standard base model is limited to dry hay only. The BV4160 has 3 large driven formation rollers and 5 belts, and the 451M only has one small formation roller with 6 belts. The BV4160 has a variable chamber controlled from the cab by a standard Intelligent Density System. Three bale zones can be customized for size and density. The 451M bale density comes factory set.

PRODUCTIVITY

- The BV4160 bale chamber has increased capacity to handle all types of crops including wet silage.

RELIABILITY

- The BV4160 chamber design ensures positive bale starting, formation, and shape.

OPERATOR EXPERIENCE

- The BV4160 with Intelligent Density System allows the operator to customize the bale size and density to their specific needs.

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Net System

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SUMMARY

- The BV4160 has the front mounted PowerBind net system with capacity to store 2 additional rolls of net wrap. When compared to the 451M, the BV4160 net system is advantageous because the PowerBind system is front mounted whereas the 451M is rear mounted with a capacity to only store 1 additional roll of net wrap.
- The PowerBind system is very close to the bale chamber and only moves a short distance. The net in the 451M has to travel down tailgate belts and into the bale chamber.
- The BV4160 net system requires nothing where the 451M system sometimes requires the application of baby or talcum powder to prevent net issues.

PRODUCTIVITY

- The BV4160 has a full width net brake compared to a smaller brake shoe system on the 451M. The full width net brake ensures a positive start and tight net placement with any type of net.
- In the BV4160, the net is injected closer to the bale and results in quicker wrapping time.

RELIABILITY

- The simple design of the PowerBind system without need of baby or talcum powder eliminates the possibility of net damage and adjustments.

OPERATOR EXPERIENCE

- The front mounted, easily loaded PowerBind system can be seen and monitored by the operator from the tractor seat.

Kubota BV4160 vs.
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Pickup | **Back**

SUMMARY

- The BV4160 pickup is 79” wide flare to flare with 112 curved tines compared to 56” and 72 straight tines on the 451M standard base pickup. The BV4160 comes standard with hydraulic lift and the 451M has a standard manual lift with the option of hydraulic. Additionally, the BV4160 pickup is easily seen from the cab of the tractor and the 451M pickup is tucked underneath and more difficult for the operator to monitor.

PRODUCTIVITY

- The BV4160 pickup has more width and curved tines compared to the 451M pickup thus able to handle wider windrows and reduce crop loss even in light conditions.

RELIABILITY

- The heavy-duty BV4160 pickup with dual wheels and suspension allows it to follow the ground contour without damage.

OPERATOR EXPERIENCE

- The standard hydraulic lift on the BV4160 allows the operator to stay in the cab instead of having to stop and dismount tractor to lift or lower the pickup like on the 451M with the manual pickup.
- The BV4160 pickup is easily seen from the tractor allowing the operator to monitor crop flow and spot potential issues.

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Drive Mechanism

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SUMMARY

- The BV4160 drive mechanism is heavy-duty with #100H (1.25” pitch) drive chains and high quality, large drive and idler rollers. The major drives and adjustments are located outside the chassis. The 451M has #80H (1.00” pitch) main drive chain with light stamped idlers and light sprockets.

PRODUCTIVITY

- The BV4160 heavy-duty drives enable to handle any type of crop including heavy silage baling applications.

RELIABILITY

- The BV4160 heavy-duty drives and centrally located grease banks give longevity to the baler.

OPERATOR EXPERIENCE

- The BV4160 heavy-duty drive mechanism results in less downtime, maintenance, replacement parts, and operating costs.

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Summary

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SUMMARY

The Kubota BV4160 comes standard with numerous PRO features such as a variable chamber with Intelligent Density System, high capacity, heavy-duty 79” pickup with hydraulic pickup, PowerBind net system, and a heavy-duty drive mechanism which makes the BV4160 silage ready. The heavy-duty BV4160 weighs 5,842 lbs. and the 451M standard base model for dry hay weighs 3,820 lbs.

The 451M standard base model is limited to dry hay. It has a less robust bale chamber and drive mechanism compared to the BV4160. Also, it has a smaller pickup, rear mounted net system that is difficult to monitor, and manual pickup lift that are not as operator friendly when compared to the BV4160.

In conclusion, the standard Kubota BV4160 is silage ready and has more key features and benefits compared to the John Deere 451M standard base baler for dry hay.