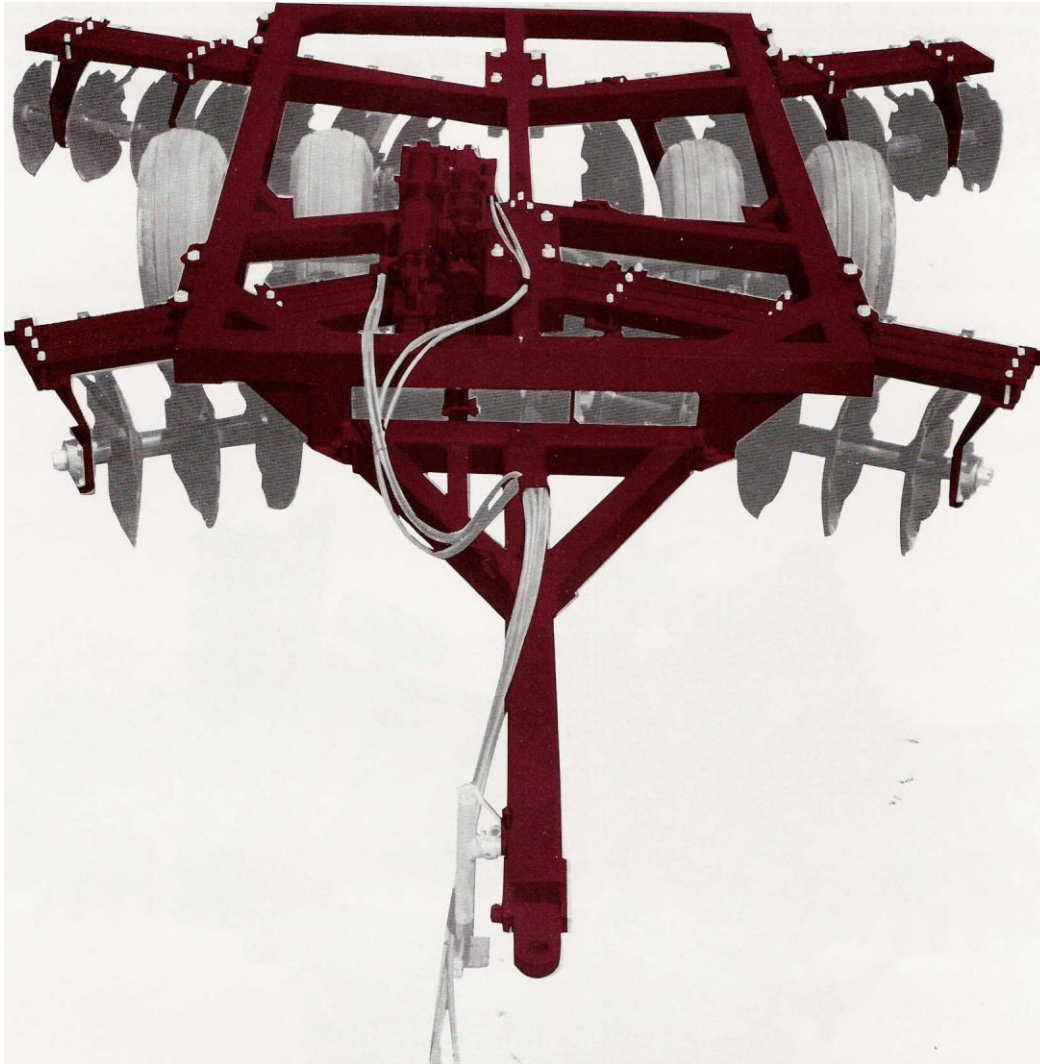


Miller Series VII Tandem Discs

MANUFACTURED BY
K&M MFG. CO., INC.
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Designed for Durability



Designed for Durability

The Miller Series VII Tandem is designed and built for the heavy discing jobs. The standard models weigh from 600 to 680 lbs. per foot of cutting width. The Series VII Model line uses 6" x 6" and 4" x 6" heavy wall tubing in the frame and two or three 3-1/2" x 3-1/2" section tubes, depending on model and option. All bearing and spacing spools are heavy welded steel construction for strength and toughness (no castings are used in the gang system of washers and spools). Gang shafts are high strength 1-3/4" cold drawn steel. The gang bearings use a special Miller shielding system to protect the primary bearing seals for longer bearing life. The front sections have bearings mounted outside the end blades to provide extra bearing strength and to provide a strong spacing spool backup to the two most heavily loaded blades of the machine. The gang sections are held to the frames with a large double-pin clamping system that has positive mechanical angle lock. The machine is heavily braced in the

corners and critical load areas.

Strong, Compact Frame

The Miller Series VII Tandem was designed in a compact, rugged frame styling which allows for increased strength. This design avoids the performance problems created by offset main frame wheels in the double-offset styling which causes the machine to roll sideways when leveled from front to rear. It also avoids the frame strength loss realized by the longer frames required for operating room in that type styling.

All wheels are dual wheels which have capability for side to side leveling control. Wing frames on flex units are designed for solid performance in operation, with extra strength to remain stable in difficult conditions.

Performance Blade Configurations

All front section disc blades are of the same diameter to provide full depth of cut on the full cutting width of the machine, as the Miller Tandems do not require smaller-end blades on the front sections to provide level discing performance. Series VII machines are available with 24" or 26" diameter blades, plain or notched, in thicknesses up to 5/16". Blade spacing on 24" blades is 9" front and 10 1/2" rear. Blade spacing on 26" blades is 10 1/2" front and 12" rear. The front spacing is closer for a better cutting action while the rear spacing is wider to give these blades more room to handle the loose soil and residues and to provide an easier, more complete soil aeration and residue incorporation. The Miller system of using a deeper concavity on rear section blades provides the ground leveling, soil lifting and mixing action in a soil conditioning performance that other machines cannot provide.

Although the Series VII is designed for high performance heavy discing, the machine has unique soil leveling capabilities that provide a finishing type performance.

Positive Depth Control

Miller Series VII Tandems are equipped with a patented hydraulic axle control cylinder control. This unit provides adjustable positive mechanical control of discing depth as well as mechanical wheel lockdown for transport.

HYDRAULIC OPTIONS

The Series VII is equipped, as standard, with a separate set of hydraulic hoses for the axle hydraulic cylinder, the leveling hydraulic cylinder and, if a flex model, the wing hydraulic cylinders. If desired, the flex models can be equipped with a selector valve to operate either the hydraulic leveling or the wing folder cylinders with one set of hoses as an option for tractors with only two hydraulic valves. Also, if desired, the flex models can be equipped with a hydraulic sequencing system that raises the machine on its wheels and then lifts the wings in the amount desired for easier and tighter turns.



Hydraulic Leveling

The Miller Series VII Tandem features a patented hydraulic leveling unit that controls performance in soil flow and leveling. Without leaving the tractor seat, the operator can easily adjust the back section pressure as required to precisely level the outer ridges and fill the center exactly. The hydraulic system is designed for easy operation, it is spring loaded to compensate for shock and uneven ground.

The hitch on Miller Discs is interconnected by a control system through the hydraulic leveling unit to the main axle. It then automatically compensates when the machine is raised or lowered so that the machine remains level.

Disc Gangs

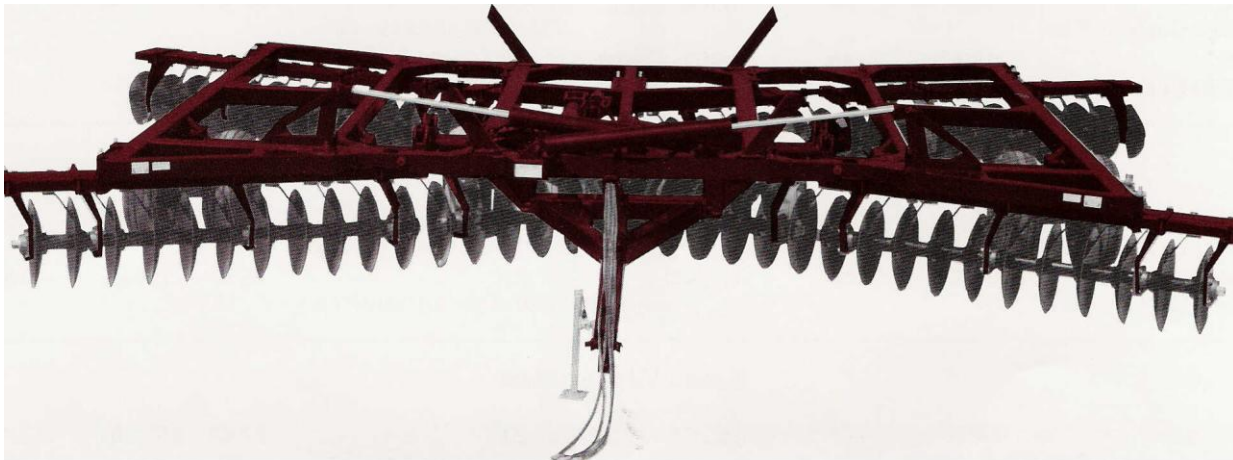
The Series VII Miller Disc has adjustable gang angle from 17 to 23 degrees for aggressive cutting. The outer ends of the rear gangs have a three-blade stepdown to provide complete soil leveling. A spring mounted offset center knife is positioned in the center behind the front gangs to completely cut and break the center ridge.

The disc gangs are mounted either on strong, tapered steel rigid bearing mounts or on optional heavy, tapered spring C-Shanks as a Miller Cushion-Flex for rocky or difficult working conditions.

An optional center third tube can be added to the gang sections on the flex models for additional strength and weight. The center tubes can also be obtained as an option as internally reinforced for further strength and weight. The third tube is standard equipment on rigid models and on the 33' and 40' sizes in the flex models.

Cutting Width Designations

Miller provides more machine in listing cutting width sizes. Miller uses only the blade cutting of the front section in determining the width of cut. The front section disc blades are all full-diameter and no smaller outer end front section blades are used, or needed, on the Miller tandem. Additionally, Miller calculates blade cut at the maximum gang angle of 23 degrees, not at some intermediate position. Although the Miller tandems use a system of three smaller blades on the outer end of each side of the rear sections in a tapered configuration which reach and level the front section outer ridges, the extra width of the rear sections is not used in listing the cutting widths of Miller discs as some companies do. The Miller Disc, in many cases, is a wider machine than other makes of the same listed cutting width.



Series VII - Models

7101 - Rigid

7201 - Flex Narrow

7301 - Flex Wide

Standard Equipment Includes:

Triple-sealed 211 disc section ball bearings on 1 3/4" shafts, heavy-duty hubs with 6-bolt wheels, axle control cylinder, fold-up cylinders on flex models, hydraulic hoses. Hydraulic leveling control, blade scrapers, adjustment wrenches, steel bearing and spacing spools. 3-tube section on rigid models and on 33' - 34' width on flex models. 2-tube sections on flex models except for 33' - 34' widths.

11L-15 Tires on Dual 6-bolt wheels on 7101 Rigid Models. 12.5L-15 Tires on Dual 6-bolt wheels on the Mains, 11L -15 tires on dual 6-bolt wheels on the wings on 30" 7201 Flex Wing Models. 12 x 16.5 Tires on Dual 8-bolt wheels on the Mains, 11L-15 Tires on Dual 6-bolt wheels on the Wings on 60" 7301 Flex Wing Models. Separate Hydraulic Hose lines for each hydraulic operation.

Blade Spacing 9" front x 10 1/2" rear

Blade Options Available
16 thru 25, 51 thru 54
Cushion Flex
20 thru 23, 53, 54

Blade Spacing 10 1/2" front x. 12" rear

Blade Options Available
26 thru 31, 55 thru 57
Cushion Flex
26 thru 31, 55 thru 57

Series VII Rigid

Model Number	Cutting Width	Blades	Approx. Wt. (Lbs.)	Model Number	Cutting Width	Blades	Approx. Wt. (Lbs.)
7101-120	10'11"	30	8,100	7101-130	10'10"	26	8,200
7151-120 Cushion Flex				7151-130 Cushion Flex			
7101-220	12'4"	34	7,522	7101-230	12'6"	30	8,700
7151-220 Cushion Flex				7151-230 Cushion Flex			
7101-320	13'9"	36	7,800	7101-330	14'2"	34	9,300
7151-320 Cushion Flex				7151-330 Cushion Flex			
7101-520	15'2"	40	8,196	7101-530	15'10"	38	9,800
7151-520 Cushion Flex				7151-530 Cushion Flex			
7101-620	16'7"	44	9,600	7101-630	17'6"	42	10,200
7151-620 Cushion Flex				7151-630 Cushion Flex			
7101-720	18'0"	48	9,069				
7151-720 Cushion Flex							

Series VII Flex Narrow

7201-320	22'3"	60	14,494	7201-430	22'5"	52	15,600
7251-320 Cushion Flex				7251-430 Cushion Flex			
7201-520	25'1"	66	15,246	7201-630	25'9"	56	16,600
7251-520 Cushion Flex				7251-630 Cushion Flex			

Series VII Flex Wide

7301-220	28'0"	74	16,795	7301-230	27'5"	64	17,500
7351-220 Cushion Flex				7351-230 Cushion Flex			
7301-420	30'9"	82	17,746	7301-430	30'9"	72	18,600
7351-420 Cushion Flex				7351-430 Cushion Flex			
7301-620	33'7"	90	19,800	7301-630	34'1"	78	20,100
7351-620 Cushion Flex				7351-630 Cushion Flex			

Series VIII Flex, 90" Wings

7401-320-84	37'10"	100	23,100	7401-330	37'5"	86	23,100
7451-320			24,600	7451-330			24,500
7401-520-84	40'8"	108	24,100	7401-530	40'8"	94	24,500
7451-520			25,800	7451-530			26,100

Any piece of machinery can be built to custom specifications, i.e.: Blade spacings, blade options.

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