

TRUCK CHASSIS



Specifications

TMR Mixers and Manure Spreaders

Ground Speed Information

MIXERS

Very low ground speeds are important for satisfactory unloading of feed rations.

We advise the greatest gear reduction available and a transmission that allows for very low ground speeds (2-3 mph).

We recommend a minimum first gear ratio of 8:1 or higher and a minimum rear axle ratio of 7:1 or higher. An auxiliary transmission may be required to achieve proper ground speed. A hand throttle control or electronic speed control is also desirable for all mixer units. Extra leaf springs are often required on the left side suspension (front and rear) to properly support the loaded Reel mixers.

Diesel Engine / Automatic Transmission Combinations: Some newer truck diesel engine and automatic transmission combinations experience problems creating adequate power at low RPM.

Contact the Kuhn Knight truck specialists if a newer truck with an automatic transmission combination might be used.

SPREADERS

Very low ground speeds are important for satisfactory unloading. We advise the greatest gear reduction and a transmission that allows for very low ground speeds (3-6 mph). We recommend a minimum first gear ratio of 8:1 or higher and a minimum rear axle ratio of 6:1 or higher. A hand throttle control or electronic speed control is also desirable for all spreader units.

Additional Information For Mixers and Spreaders

PTO INFORMATION

Mechanical drive units: The truck transmission needs to have the capacity to operate a PTO with the proper torque, speed, and rotation for the Kuhn Knight unit being installed. For proper speed and rotation for your unit, please contact the truck specialist in the Kuhn Knight sales department.

Hydrostatic drive units: The truck chassis must have front PTO provision. The truck requires bucket seats (no bench) for pedestal installation and may require additional cab-to-axle distance.

Information required to order the proper truck PTO unit:

Transmission make
Transmission model number
Number of transmission speeds
Preferred PTO opening location

Also helpful:

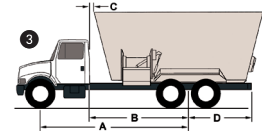
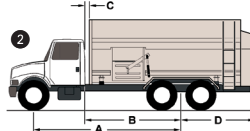
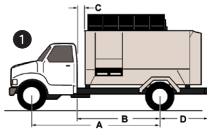
Truck make
Truck model
Truck year

TRUCK MODIFICATIONS

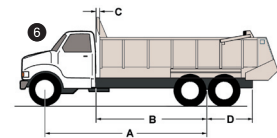
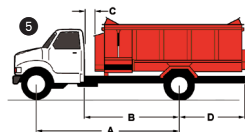
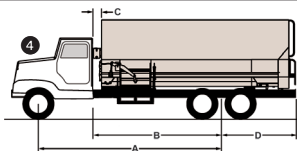
Chassis not meeting our specifications may be modified for an additional charge at Kuhn Knight's discretion. Tilt cabs, four-wheel drives, army trucks, trucks with MACK transmissions, etc., all require special parts and installation procedures. Additional charges will be made for additional driveline components, labor for relocation of exhaust systems, tanks, body removal, frame cleaning, lighting, etc. Charges of this nature will be based on time and material.

Truck Chassis

Visit your dealer or our Web site at www.kuhnnorthamerica.com for additional truck information, and all Kuhn Knight products.



MODEL	A Wheel Base	B1 Cab to Axle/Trunnion	C Set Back Cab to Unit	D Minimum Afterframe	Axle Single (SA) Tandem (TA)	Minimum GVW	Minimum Frame Sec. Mod. ²	Minimum Axle Front/Rear 1000#	Minimum Engine HP	Minimum PTO Torque
TMR MIXERS										
REEL AUGGIE ¹										
3120	169" - 177"	103" - 109"	11" - 17"	42"	SA	25,000	12.5	10 / 15	180	200 ft. lbs.
3125	169" - 177"	103" - 109"	11" - 17"	42"	SA	25,000	12.5	10 / 15	180	200 ft. lbs.
3130	185" - 193"	119" - 125"	11" - 17"	50"	SA	25,000	12.5	10 / 15	180	200 ft. lbs.
3136	162" - 170"	96" - 102"	9" - 15"	56"	SA	27,500	12.5	10 / 17.5	180	250 ft. lbs.
3142	179" - 187"	113" - 119"	9" - 15"	56"	SA	36,000	12.5	12 / 24	210	250 ft. lbs.
REEL COMMERCIAL ¹										
RC 150	184" - 192"	118" - 124"	9" - 15"	56"	SA	45,000	17	12 / 33	210	300 ft. lbs.
RC 160	204" - 212"	138" - 144"	9" - 15"	66"	SA	48,000	17	12 / 36	250	300 ft. lbs.
RC 160	204" - 212"	138" - 144"	9" - 15"	66"	TA	51,000	17	14 / 37	250	300 ft. lbs.
RC 170 Mch. Drv.	223" - 231"	157" - 160"	12" - 15"	90"	TA	64,000	23	14 / 42	285	300 ft. lbs.
RC 170 Hydro.	223" - 231"	157" - 163"	12" - 15"	90"	TA	64,000	23	14 / 42	285	hydrostatic
RC 195	223" - 231"	157" - 163"	12" - 15"	90"	TA	64,000	23	18 / 46	285	hydrostatic
BOTEC ²										
4136	178" - 188"	112" - 120"	13" - 24"	62"	SA	27,500	12.5	10 / 17.5	180	180 ft. lbs.
4142	178" - 188"	112" - 120"	13" - 24"	62"	SA	36,000	12.5	12 / 24	210	180 ft. lbs.
4052	190" - 206"	124" - 138"	13" - 24"	62"	SA	45,000	16	12 / 33	210	250 ft. bs.
4063	204" - 220"	138" - 152"	13" - 24"	80"	SA	48,000	16	14 / 34	230	300 ft. bs.
4063	204" - 220"	138" - 152"	13" - 24"	80"	TA	51,000	17	14 / 37	250	300 ft. lbs.
4072	204" - 220"	138" - 152"	13" - 24"	80"	TA	56,000	17	14 / 42	285	300 ft. lbs.
4090	210" - 220"	144" - 152"	13" - 24"	74"	TA	64,000	23	18 / 46	285	300 ft. lbs.
VERTICAL-MAXX FRONT DISCHARGE (FD) SIDE DISCHARGE (SD) ³										
5144 SD	171" - 175"	105" - 109"	NA	56"	SA	36,000	12.5	12 / 24	250	250 ft. lbs.
5156 SD	186" - 190"	120" - 124"	NA	56"	SA	45,000	17	12 / 33	250	300 ft. lbs.
5168 SD	207" - 213"	141" - 145"	NA	56"	TA	54,000	17	14 / 40	250	300 ft. lbs.
VT & VTC 180 SD	222" - 228"	158" - 162"	NA	66"	TA	59,000	23	16 / 43	300	hydrostatic
VT & VTC 180 FD	257" - 264"	194" - 198"	NA	66"	TA	59,000	23	16 / 43	300	hydrostatic
VT & VTC 1100 SD	222" - 228"	158" - 162"	NA	66"	TA	64,000	23	18 / 46	325	hydrostatic
VT & VTC 1100 FD	257" - 264"	194" - 198"	NA	66"	TA	64,000	23	18 / 46	325	hydrostatic
PROFEED DELIVERY BOX ⁴										
70110	241" - 245"	175" - 179"	12" - 16"	80"	TA	72,000	23	20 / 52	300	hydrostatic



MODEL	A Wheel Base	B1 Cab to Axle/Trunnion	C Set Back Cab to Unit	D ³ Minimum Afterframe	Axle Single (SA) Tandem (TA)	Minimum GVW	Minimum Frame Sec. Mod. ²	Minimum Axle Front/ Rear 1000#	Minimum Engine HP	Minimum PTO Torque
MANURE SPREADERS										
PROTWIN SLINGER ⁵										
8118	216" - 224"	150" - 156"	17" - 23"	68"	SA	40,000	12.5	12 / 28	210	300 ft. lbs.
8124	216" - 224"	150" - 156"	17" - 23"	68"	SA	45,000	12.5	12 / 33	250	300 ft. lbs.
8124	216" - 224"	150" - 156"	17" - 23"	68"	TA	47,000	12.5	12 / 35	250	300 ft. lbs.
8132	216" - 224"	150" - 156"	17" - 23"	68"	TA	54,000	17	14 / 40	285	300 ft. lbs.
8141	245" - 253"	179" - 185"	17" - 23"	88"	TA	64,000	17	18 / 46	330	300 ft. lbs.
8150	241" - 250"	175" - 181"	17" - 23"	88"	TA + TAG	80,000	23	20 / 48 / 12	410	hydrostatic
COMMERCIAL PROSPREAD ⁶										
PSC 161 HB	219" - 231"	154" - 158"	9" - 15"	52"	TA	72,000	25	20 / 52	300	300 ft. lbs.
PSC 161 VB	225" - 231"	158" - 162"	9" - 15"	52"	TA	72,000	25	20 / 52	325	300 ft. lbs.
PSC 171 HB	231" - 243"	174" - 178"	9" - 15"	68"	TA	74,000	30	20 / 58	350	300 ft. lbs.
PSC 171 VB	237" - 243"	178" - 182"	9" - 15"	68"	TA	74,000	30	20 / 58	375	300 ft. lbs.
PSC 181 HB	270" - 274"	208" - 212"	9" - 15"	70"	TA & PUSHER	82,000	40	20 / 52 / 12	400	300 ft. lbs.
PSC 181 VB	274" - 278"	212" - 216"	9" - 15"	70"	TA & PUSHER	82,000	40	20 / 52 / 12	425	300 ft. lbs.

¹ This information may not apply to tilt cab trucks. A longer cab-to-axle may be required. ² The FRAME SEC. MOD. column refers to the strength of the frame based on 110,000 PSI yield strength. For trucks with frames other than 110,000 PSI yield strength, contact the truck specialist in the sales department. ³ ProTwin afterframes are required only for bumper supports and are non-load bearing.



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Your Kuhn Knight Dealer