



PTO SHAFTS

PARTS/ACCESSORIES FOR AGRICULTURE AND AUTOMOTIVE

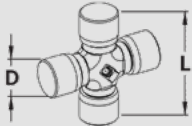


- U-JOINTS FOR SHAFTS
- INNER/OUTER YOKES
- WIDE ANGLE JOINTS
- PTO ADAPTERS
- PROFILED TUBES
- COVERS AND ACCESSORIES

- AUTOMATIC CLUTCHES
- FRICTION TORQUE CLUTCHES
- SINGLE DIRECTION FRICTION CLUTCH
- RATCHET TORQUE CLUTCHES
- SHEAR BOLT TORQUE CLUTCHES
- OVERRUNNING CLUTCHES

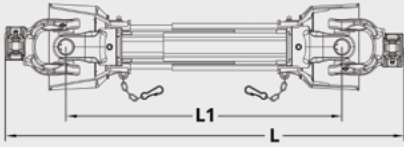


1. HOW TO CHOOSE THE PARAMETERS OF THE PTO SHAFT



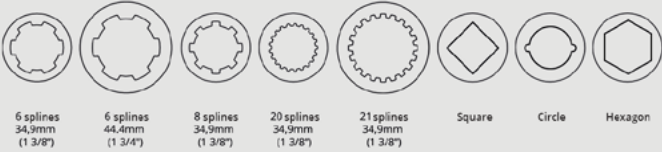
MEASURE THE DIAMETER OF THE CROSS

- 1) First of all, measure the outer diameter of the bearing (D) and the height of the joint (L). From the table, determine the amount of torque of the articulated telescopic shaft and compare it with the energy consumption of the agricultural machine.
- 2) If there is no appropriate value, refer to the PTO shaft selection table to determine the size based on the PTO shaft torque and compare it with the power consumption of the agricultural machine.



MEASURE THE LENGTH

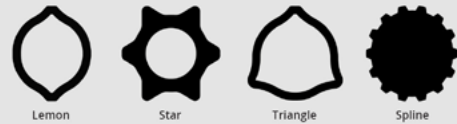
- L1 - length of the articulated telescopic shaft from the center of the cross to the center of the joint.
- L - length of the articulated telescopic shaft at the ends of the forks.



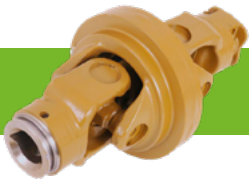
SPECIFY TYPES OF YOKES

6/8/20/21 splines, square, circle, hexagon

2. CHOOSE PIPE TYPE



3. CHOOSE THE CLUTCH TYPE, CHECK IF IT HAS A WIDE ANGLE JOINT



WIDE-ANGLE JOINT

It ensures even operation and allows the drive shaft to work temporarily at an angle of up to 80 degrees.

The standard working angle of the wide angle joint is 30-50 degrees. The wide angle joint can be mounted on both the tractor side and the agricultural machine side. At the same time, two wide-angle joints can be mounted on one universal joint shaft: one on the tractor side and the other on the agricultural machine side.



AUTOMATIC CLUTCH

At the moment of overload, the clutch switches off without causing any wear (e.g. in ratchet, friction or shear pin clutches). When the resistance is overcome, the clutch automatically engages, transmitting torque.

When the set clutch setting is exceeded, the cams, under the influence of the encountered resistance, twist and snap into the groove on which they slide, without transmitting the torque, and thus without damaging the clutch. As soon as the resistance is overcome, the cams automatically turn and snap into the drive grooves, transmitting torque.



SHEAR BOLT TORQUE LIMITER CLUTCH

It is designed to protect agricultural machinery exposed to sudden overload or jamming of working units. The transmission of torque in shear bolt couplings occurs due to the bolt, as a result of which the hub and the flange fork begin to rotate relative to each other, without transmitting torque. To restore the drive, replace the damaged shear bolt with a new one.



OVERRUNNING CLUTCH

It is designed to protect against excessive torque caused by the inertia of the agricultural machine, which occurs during braking and when the machine comes to a complete stop.

The backstop transmits torque in one direction only. In the opposite direction, the clutch rotates freely.

Standard direction of the backstop is clockwise.



FRICTION TORQUE LIMITER CLUTCH

It is used in agricultural machinery operating with a constant excess of torque that must be overcome without interrupting the transmission of torque and the movement of the machine. The friction clutch transmits the torque by means of friction plates located between the flange yoke and the clutch hub.



SINGLE DIRECTION FRICTION TORQUE LIMITER CLUTCH

It is used in agricultural machinery operating with a constant excess of torque that must be overcome without interrupting the transmission of torque and the movement of the machine. The friction backstop transmits the torque by means of friction plates located between the flange yoke and the clutch hub.

The friction one-way clutch is designed to protect against excessive torque caused by the agricultural machine inertia, which occurs during braking and when the machine comes to a complete stop.



RATCHET TORQUE LIMITER CLUTCH

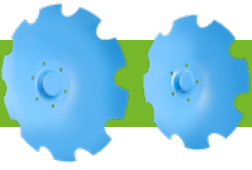
In overload clutches, spring pins engage with corresponding grooves in the housing. The overload clutch stops transmitting torque when the rated torque is exceeded.

4. PTO SHAFT SELECTION TABLE

Type Size	Universal joint		Torque (540/1000 RPM, Nm)	Applicability
	Ø D (MM)	H (MM)		
L1, T1	22	54	210/172	Mounted seed drills, sprayers, fertilizer spreaders
L2, T2	23.8	61.3	270/220	Trailed seed drills, sprayers
T3	27	70	390/330	Grain reapers, Harvesters, Mowers, Trailed sprayers, Trailed and mounted seed drills, Harrowes,
L3, T3	27	74.6	390/330	
L4, T4, SP4			460/380	
T4	28	73		
L4-WAJ T4-WAJ SP4-WAJ	23.8 27	91(95) 74.6	460/380	
T5	30.2	80	620/520	Combine sunflower, corn, shredder feed mixers mulchers, presses, rotary tillers
T5	35	98	620/520	
T6			830/710	
L6	30.2	92	695/580	
T6, S6			830/710	
L6-WAJ	27 32	94(98) 76	695/580	
T6-WAJ			780/650	
S6-WAJ SP6-WAJ			830/710	
T7, S7	30.2	106.3	970/830	
L7	32	76	850/725	
T7, S7, SP7			970/830	
T7	34.9	94	970/830	
T7-WAJ	32	106.3(110) 89	970/830	
S8-WAJ	36		1175/975	
T8, S8, SP8	34.9	106.3	1240/1050	
T7	35	106.3	970/830	
T8, S8			1240/1050	
T8, S8	36	89	1175/975	
S8	39	118	1165/965	
S9	42	104.5	1400/1190	
S9-WAJ	36 42	124 104	1400/1190	

Note: T - triangle profile pipe; L - lemon; S - star; SP - splined shaft; WAJ - wide angle joint shaft

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