



## PTO SHAFTS



BASIC PTO SHAFTS  
WIDE ANGLE PTO SHAFTS

# PTO SHAFTS

SIPMA PTO shafts are designed to transmit a specific torque from the Power-Take-Off spline shaft of the tractor to the Power-Take-On spline shaft of the machine. SIPMA makes PTO shafts designed to transmit the torque of the following ranges: 220 Nm, 300 Nm, 460 Nm, 540 Nm, 630 Nm, 680 Nm, 900 Nm, 1200 Nm, 1700 Nm in the basic version and 300 Nm, 680 Nm, 900 Nm, 1200 Nm in wide angle version. Wide angle PTO shafts come in two versions:

- with one wide angle joint;
- with two wide angle joints.

## BASIC PTO SHAFTS

<b>SIPMA WPT 220</b>	<b>SIPMA WPT 300</b>	<b>SIPMA WPT 460</b>	<b>SIPMA WPT 540</b>	<b>SIPMA WPT 630</b>
<b>SIPMA WPT 680</b>	<b>SIPMA WPT 900</b>	<b>SIPMA WPT 1200</b>	<b>SIPMA WPT 1700</b>	

Basic PTO shafts are used when the mutual location of the Power-Take-Off and Power-Take-On spline shafts during continuous works does not result in exceeded 25° of joint breaking angle.

## WIDE ANGLE PTO SHAFTS

<b>SIPMA WPTS 300</b>	<b>SIPMA WPTS 680</b>	<b>SIPMA WPTS 900</b>	<b>SIPMA WPTS 1200</b>
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Wide angle PTO shafts are used in the case where the fracture of relative position of the tractor power take off to the machine power input connection shaft can allow reaching up to 50° angles in every working moment and 80° angles temporary. These shafts make it possible continuous power transmission without necessity disengaging the drive on headlands.



## SAFETY CLUTCHES

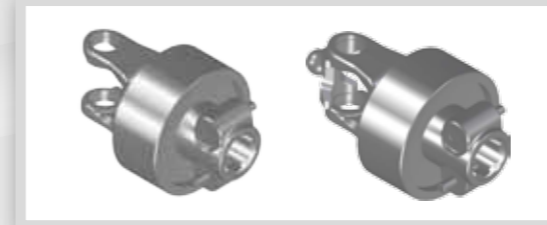
Basic and wide angle PTO shafts, depending on needs, may be equipped in the following safety clutches:

- overload clutch;
- overload automatic clutch;
- friction clutch;
- friction clutch with a plate spring;
- friction and overrunning clutch;
- one-way friction clutch with a plate spring;
- shear bolt clutch;
- overrunning clutch.



### Overload clutch (SP)

with scoops operating radially, operates by interrupting the drive transmission when the torque exceeds the clutch setting.



### Overload automatic clutch (SPA, SSPA)

is used to interrupt the power flow when the transmitted torque reaches a preset size. The clutch does not require the immediate shutdown of the drive at the time of the overload occurs.



### Friction clutch (SC)

transmits torque without switching off the drive when the overload reaches the set value. It can be used as a starting or overload clutch for machines with elements having high inertia.



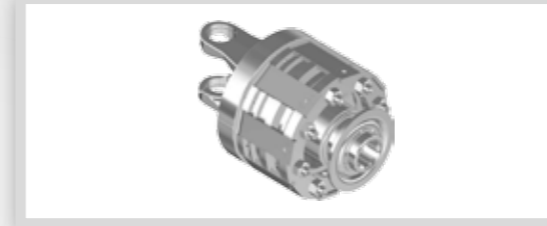
### Friction clutch with a plate spring (SB)

transmits the torque without disengaging the drive when the overload reaches the set value. It is used as a starting or overload clutch for driving machines with elements with high moment of inertia.



### Friction and overrunning clutch (SD)

allows for the torque transmission without switching of the drive, even under overload conditions exceeding the maximum clutch setting. At the same time, it allows the torque transmission in one direction only. It can be used for machines with elements having high inertia.



### One-way friction clutch with a plate spring (ST)

allows the transmission of torque without shutting down the drive, even when the overload reaches the size of the clutch setting. At the same time, the one-way friction clutch allows the torque to be transferred only in one direction. It can be used in machines with elements with a high moment of inertia. The clutch can be available right or left.



### Shear bolt clutch (SK)

protects the driveline against blockage and disconnects the torque transmission from the tractor when the torque exceeds the clutch setting which breaks the bolt.



### Overrunning clutch (SJ)

transmits the torque in one direction only and is used in PTO shafts which drive machines with elements having high inertia (e.g. disc mowers).



MODEL		WPT 220	WPT 300	WPT 460	WPT 540	WPT 630	WPT 680	WPT 900	WPT 1200	WPT 1700
Strength parameters - 540 rpm										
power	kW (HP)	12 (17)	17 (23)	26 (35)	31 (42)	36 (48)	38 (52)	51 (69)	68 (92)	96 (131)
torque	Nm	220	300	460	540	630	680	900	1200	1700
Strength parameters - 1000 rpm										
power	kW (HP)	19 (26)	26 (36)	40 (55)	47 (64)	55 (75)	59 (81)	79 (107)	105 (142)	146 (199)
torque	Nm	183	250	383	450	525	567	750	1000	1400
Max. dynamic torque	Nm	330	450	690	810	945	1020	1350	1800	2550

MODEL		WPTS 300	WPTS 680	WPTS 900	WPTS 1200
Strength parameters - 540 rpm					
power	kW (HP)	17 (23)	38 (52)	51 (69)	68 (92)
torque	Nm	300	680	900	1200
Strength parameters - 1000 rpm					
power	kW (HP)	26 (36)	59 (81)	79 (107)	105 (142)
torque	Nm	250	567	750	1000
Max. dynamic torque	Nm	450	1020	1350	1800

## CONFIGURATOR OF PTO SHAFTS

In order to select the appropriate shaft for the machine model, we have created a configurator of PTO shafts, which is available on our website [www.sipma.pl](http://www.sipma.pl) and online shop [www.sklep.sipma.pl](http://www.sklep.sipma.pl).



CONFIGURATOR OF PTO SHAFTS - [WWW.SIPMA.PL](http://WWW.SIPMA.PL)



2 YEARS WARRANTY



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