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1. Fundamentals

General advice:

We would like to point out that not all of the below described PTO options are available ex factory. Availability of power take-offs is defined in the sales program.

2. Operating period und Power flow dependencies

Power take-offs can be distinguished according to the following factors:

- Operating period
- Power flow dependencies

Operating period	Brief reference in tables	Clutch-dependent
Short-period operation < 60 min	K < 60 min	-
Continuous operation \geq 60 min	D	81Z2 2266 290x (+ 500x)

3. Type of power take-off output

The last letter in the power take-off designation, that is to say the letter "b" or "c", indicates the type of output.

A distinction is made between:

- Version "b": basic version für shaft drive
- Version "c": direct mounting of a pump

Version "b" may possibly be derived from version "c".

Version "c" can, depending on the type of power take-off, be changed into version "b".

4. Permissible mass moments at power take-off

If pumps are mounted directly (version "c"), the body building firm must ensure that the maximum permissible mass moment of a direct-mounted pump with add-on elements (e.g. hoses) is not exceeded!!

Permissible mass moment	Power take off – transmission dependent
\leq 30 Nm	2266 290x
\leq 50 Nm	81Z2

5. Overview of power take-offs at gearbox

The following tables list all power take-offs available for specific gearbox types. Please note that not all combinations of chassis – gearbox – power take-offs are possible.

For information on prohibited combinations for certain vehicles, please consult:

- the local branch or dealer.

Only a written reply to a written enquiry will be considered valid.

In the tables, the power take-off technical data are shown with reference to each specific gearbox.

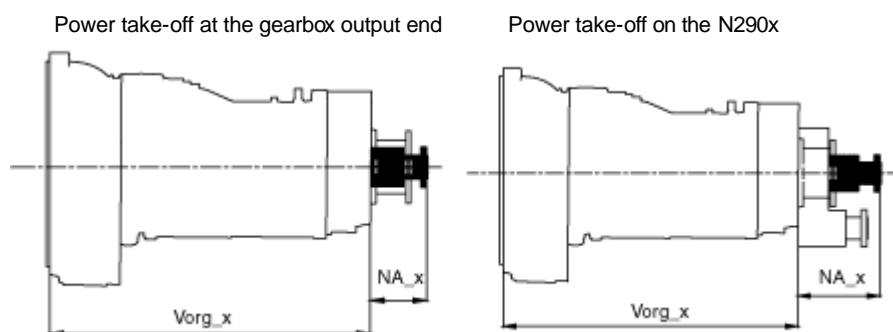
The technical data quoted in the tables are:

- Direction of rotation (left = anti-clockwise; right = clockwise)
- Speed factor f (can be multiplied by engine speed to obtain speed at power take-off)
- Permissible torque at 1,500 rpm at the power take-off
- Flange diameter
- Operating period ($K < 60$ min, D)
- Installed position
- Position in relation to countershaft and mainshaft with x-, y- and z-coordinates

By combined power take-offs (as 5001 on 290x), all details are corresponding to the former power take-off!!

6. Technical data and tables

x-coordinates for gearbox and power take-offs



Vorg_x: Distance from the engine mating flange surface to the installation face for the power take-off on the transmission

NA_x: Distance from the installation face for the power take-off on the transmission to the rear edge of the power take-off

y- and z-coordinates for gearbox and power take-offs

Fig. 1

P290Xb,c

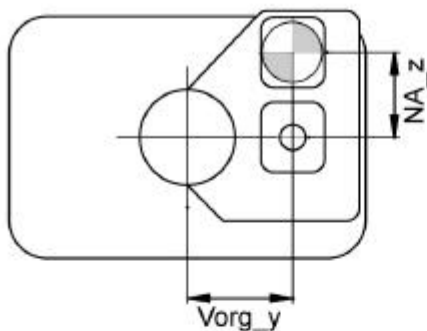


Fig. 2

5001c / 5002b
on
P290X

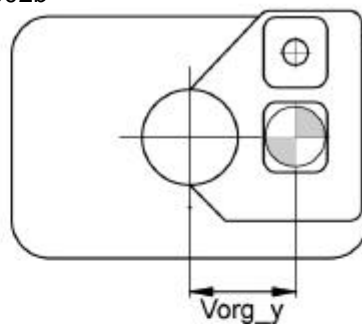


Fig. 3

P81Z2b,c

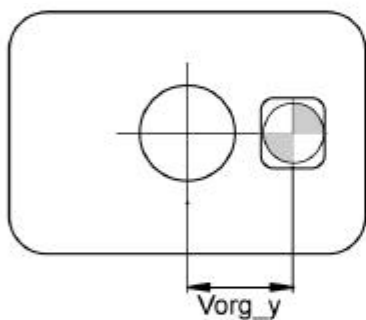


Fig. 4

P2266b,c above

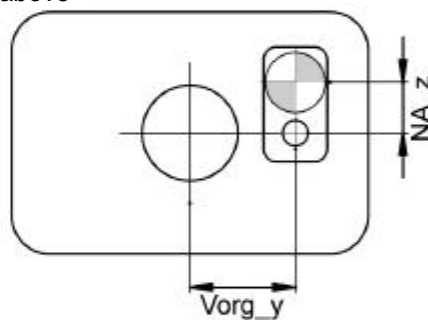


Fig. 5

P2266b,c right

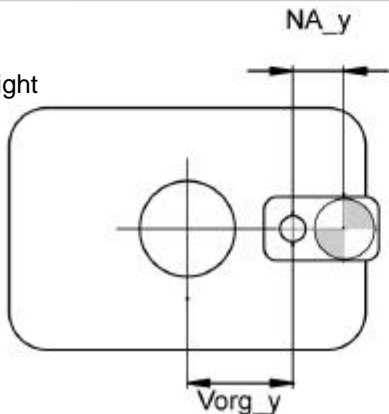
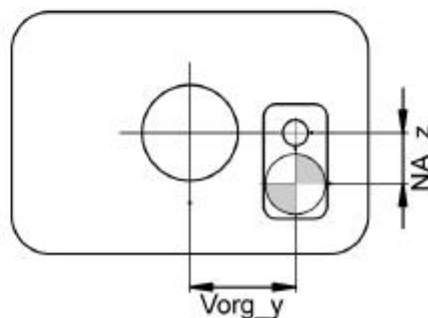


Fig. 6

P2266b,c below



Vorg_y: lateral off-set from center of main output flange to center of countershaft (+: right from main output flange; -: left)

NA_y: lateral off-set from center of countershaft to center of power take-off (+: right from countershaft; -: left)

NA_z: height off-set from center of countershaft to center of power take-off (+: above from countershaft; -: below)

FS

Power take-offs for gearbox:							FS 8309 LH (Standard) 12,57 – 1			
							FS 8309 RH (Standard) 12,57 – 1			
Position: Gearbox output end right of main output flange										
Vorg_x [mm]: 754,00		Vorg_y [mm]: 125,00		Vorg_z [mm]: 0,00		Gearbox flange diameter [mm]: 155,00				
Designation	Direct. of rotation	Speed factor f	Torque [Nm]	Flange diameter [mm]	Operating period	Installed position	Fig.	NA_x [mm]	NA_y [mm]	NA_z [mm]
5001c on P290XRD11c	right	0,77	600		D	coaxial	2	181,20	0,00	0,00
5001c on P290XRD12b	right	0,77	600		D	coaxial	2	181,20	0,00	0,00
5001c on P290XRD13b	right	0,77	600		D	coaxial	2	181,20	0,00	0,00
5002b on P290XRD21c	right	0,77	600	90,00	D	coaxial	2	242,70	0,00	0,00
5002b on P290XRD22b	right	0,77	600	90,00	D	coaxial	2	242,70	0,00	0,00
5002b on P290XRD23b	right	0,77	600	90,00	D	coaxial	2	242,70	0,00	0,00
P2266P294c	left	1,06	430		D	above	4	122,00	0,00	82,50
P2266P294c	left	1,06	430		D	right	5	122,00	82,50	0,00
P2266P294c	left	1,06	430		D	below	6	122,00	0,00	-82,50
P2266P740b	left	1,06	430	90,00	D	above	4	163,00	0,00	82,50
P2266P740b	left	1,06	430	90,00	D	right	5	163,00	82,50	0,00
P2266P740b	left	1,06	430	90,00	D	below	6	163,00	0,00	-82,50
P2905RDY1c	left	0,85	680		D	above	1	112,00	0,00	110,50
P2905RDY2b	left	0,85	680	90,00	D	above	1	150,00	0,00	110,50
P2905RDY3b	left	0,85	680	100,00	D	above	1	150,00	0,00	110,50
P2906RDY1c	left	1,19	550		D	above	1	112,00	0,00	110,50
P2906RDY2b	left	1,19	550	90,00	D	above	1	150,00	0,00	110,50
P2906RDY3b	left	1,19	550	100,00	D	above	1	150,00	0,00	110,50
P2907RDY1c	left	1,70	410		D	above	1	112,00	0,00	110,50
P2907RDY2b	left	1,70	410	90,00	D	above	1	150,00	0,00	110,50
P2907RDY3b	left	1,70	410	100,00	D	above	1	150,00	0,00	110,50
P2908RDY1c	left	2,26	300		D	above	1	112,00	0,00	110,50
P2908RDY2b	left	2,26	300	90,00	D	above	1	150,00	0,00	110,50
P2908RDY3b	left	2,26	300	100,00	D	above	1	150,00	0,00	110,50
P81Z2P15204c	right	0,77	590		D	coaxial	3	86,50	0,00	0,00
P81Z2P15740b	right	0,77	590	90,00	D	coaxial	3	168,00	0,00	0,00
P81Z2P15742b	right	0,77	590	100,00	D	coaxial	3	168,00	0,00	0,00

FSO

Power take-offs for gearbox:							FSO 8309 LH (Standard) 9,4 – 0,75			
							FSO 8309 RH (Standard) 9,4 – 0,75			
Position: Gearbox output end right of main output flange										
Vorg_x [mm]: 754,00		Vorg_y [mm]: 125,00		Vorg_z [mm]: 0,00		Gearbox flange diameter [mm]: 155,00				
Designation	Direct. of rotation	Speed factor f	Torque [Nm]	Flange diameter [mm]	Operating period	Installed position	Fig.	NA_x [mm]	NA_y [mm]	NA_z [mm]
5001c on P290XRD11c	right	1,02	600		D	coaxial	2	181,20	0,00	0,00
5001c on P290XRD12b	right	1,02	600		D	coaxial	2	181,20	0,00	0,00
5001c on P290XRD13b	right	1,02	600		D	coaxial	2	181,20	0,00	0,00
5002b on P290XRD21c	right	1,02	600	90,00	D	coaxial	2	242,70	0,00	0,00
5002b on P290XRD22b	right	1,02	600	90,00	D	coaxial	2	242,70	0,00	0,00
5002b on P290XRD23b	right	1,02	600	90,00	D	coaxial	2	242,70	0,00	0,00
P2266P294c	left	1,41	430		D	above	4	122,00	0,00	82,50
P2266P294c	left	1,41	430		D	right	5	122,00	82,50	0,00
P2266P294c	left	1,41	430		D	below	6	122,00	0,00	-82,50
P2266P740b	left	1,41	430	90,00	D	above	4	163,00	0,00	82,50
P2266P740b	left	1,41	430	90,00	D	right	5	163,00	82,50	0,00
P2266P740b	left	1,41	430	90,00	D	below	6	163,00	0,00	-82,50
P2905RDY1c	left	1,12	680		D	above	1	112,00	0,00	110,50
P2905RDY2b	left	1,12	680	90,00	D	above	1	150,00	0,00	110,50
P2905RDY3b	left	1,12	680	100,00	D	above	1	150,00	0,00	110,50
P2906RDY1c	left	1,57	550		D	above	1	112,00	0,00	110,50
P2906RDY2b	left	1,57	550	90,00	D	above	1	150,00	0,00	110,50
P2906RDY3b	left	1,57	550	100,00	D	above	1	150,00	0,00	110,50
P2907RDY1c	left	2,25	410		D	above	1	112,00	0,00	110,50
P2907RDY2b	left	2,25	410	90,00	D	above	1	150,00	0,00	110,50
P2907RDY3b	left	2,25	410	100,00	D	above	1	150,00	0,00	110,50
P2908RDY1c	left	3,00	300		D	above	1	112,00	0,00	110,50
P2908RDY2b	left	3,00	300	90,00	D	above	1	150,00	0,00	110,50
P2908RDY3b	left	3,00	300	100,00	D	above	1	150,00	0,00	110,50
P81Z2P15204c	right	1,02	590		D	coaxial	3	86,50	0,00	0,00
P81Z2P15740b	right	1,02	590	90,00	D	coaxial	3	168,00	0,00	0,00
P81Z2P15742b	right	1,02	590	100,00	D	coaxial	3	168,00	0,00	0,00