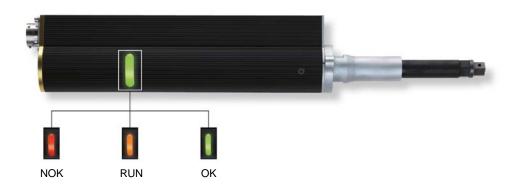


# **BUILT-IN NUTRUNNERS DS line**

Overview of the different construction sizes	
Туре	Models Maximum torque in Nm
> DS 26	0,5   1   2   4
> DS 34	2,5   5   10   15
> DS 44	2,5   5   10   20   35
> DS 57	25   50   70   90   140
> DS 80	220   300   420   500   600
> DS 80-130	900   1000   1500   2000   2400



The illuminated field at the tool shows the tightening status.

# The correct nutrunner for every tightening process

The requirements to a built-in nutrunner are multifaceted. The DS series offers you products which are especially configured for your application.

In the suitable size, with the suitable torque, in the required precision, with the suitable output.

# **Components of DS-nutrunners**

- · Maintenance-free brushless servo motor
- · Robust housing out of stainless steel and aluminium
- · Various motors and outputs

# **Advantages of DS-nutrunners**

- · Insensitive against electro-magnetic radiation due to digital data transfer
- · Absolut measuring system enables positioning (MDW)
- · Illuminated field for indication of the tightening status
- · Simple programmable at the control unit or via external PC

#### MDW or SA - with or without torque transducer

DS-nutrunners of type MDW have a digital torque transducer. With this, the upcoming torque can be collected very precise. The accuracy-deviation is max. 0,5 % of the final value.

By DS-nutrunners of the type SA, the torque and the angle of rotation are collected via the motor. The accuracy-deviation here is max. 5 % of the final value.

Туре	Torque measuring	Torque accuracy	Angle resolution	
MDW	via digital torque transducer	0,5 %	> Data sheet	
SA	via motor current	5 %	> Data sheet	

#### Suitable control units for nutrunners of the DS series



Control unit	MultiBasic Blue TA	MultiBasic TA	MultiClassic TA	MultiPro TA
suitable for type	SA	SA	MDW	MDW

#### **Technical data**

Nutrunners of the DS series in equal measure are suitable to be used in manual working stations as well as in automatic stations.

Available in the execution MDW, the torque measurement is made directly at the output by an transducer, or in the execution SA, the torque measurement is made indirect by the motor.

The tightening tools consist out of a robust mechanic with servo drive technology and gearbox unit with precision gearwheel bearing.



- · Torque control, angle of rotation control and signal control are integrated
- · Integrated digital parameter memory module enables error-free setup
- · Monitoring with envelope technology and windowing (tightening control system)
- · Thanks to the torque transducer with consistent accuracy, only one measuring range is necessary
- · Powerful, maintenance-free EC motor with infinitely variable speed control, CW / CCW
- · Status indication (RUN, OK, NOK) directly at the nutrunner

DS 26 series	MDW   SA					
Models, max. torque	<b>.</b>		0,5 Nm	1 Nm	2 Nm	4 Nm
max. speed (execution	on MDW)		1450 rpm	1450 rpm	1020 rpm	400 rpm
max. speed (executi	on SA)		1700 rpm	1700 rpm	820 rpm	400 rpm
						- 1
DS 34 series	MDW   SA					
Models, max. torque	)		2,5 Nm	5 Nm	10 Nm	15 Nm
max. speed			880 rpm	880 rpm	1540 rpm	1540 rpm
max. speed (with an	gle output)		610 rpm	610 rpm	1070 rpm	1070 rpm
D0 44	AADVA/ LOA					
DS 44 series	MDW   SA					
Models, max. torque	)	2,5 Nm	5 Nm	10 Nm	20 Nm	35 Nm
max. speed		1300 rpm	1300 rpm	900 rpm	530 rpm	480 rpm
max. speed (with an	gle output)		900 rpm	625 rpm	370 rpm	250 rpm
D0 57	NADIA/ LOA					
DS 57 series	MDW   SA					
Models, max. torque	<b>)</b>	25 Nm	50 Nm	70 Nm	90 Nm	140 Nm
max. speed		1050 rpm	1050 rpm	800 rpm	430 rpm	430 rpm
max. speed (with an	gle output)		1000 rpm	760 rpm		420 rpm
DS 80 series	MDW   SA					
Models, max. torque	•	220 Nm	300 Nm	420 Nm	500 Nm	600 Nm
	<b>;</b>					
max. speed	.1 (. ()	320 rpm	320 rpm	160 rpm	160 rpm	160 rpm
max. speed (with an	gie output)	200 rpm				
<b>DS 80-130</b> series	MDW   SA					
Models, max. torque	1	900 Nm	1000 Nm	1500 Nm	2000 Nm	2400 Nm
Wodolo, Max. torquo						

# **Accessories**

- · Diverse motor and output variants, crow foots as well as individual technical solutions
- · Socket boxes, handling equipment
- · Complete workstations