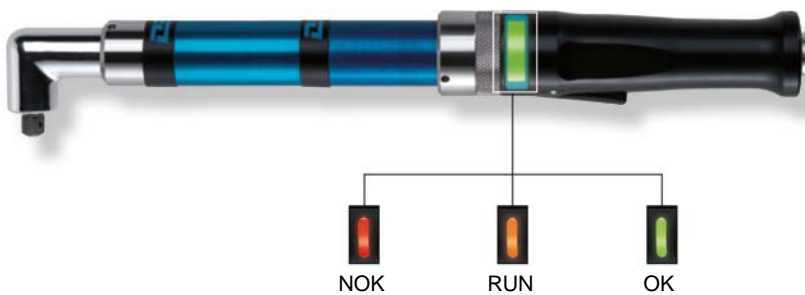




## HAND-HELD NUTRUNNERS DS line

### Overview of the different construction sizes

Type	Models Maximum torque in Nm
> DSH 26	0,5   1   2   4
> DS 34-P	2,5   5   10   15
> DSH 34	5   10   20
> DS 44-P	2,5   5   10   20   35
> DSH 44	20   30   40   60



The illuminated field at the tool shows the tightening status.

## Highest precision, also by the manual assembly

Hand-held nutrunners from DSM are available in a lot of sizes from 0,5 up to 60 Nm torque. They are characterised by a robust technology, reliable precision and an intelligent control engineering.

### Components of DS hand-held nutrunners

- Maintenance-free brushless servo motor
- Robust housing out of stainless steel and aluminium
- Ergonomic handle
- Wear-free operating elements
- Various output variants

### Advantages of DS hand-held nutrunners

- Insensitive against electro-magnetic radiation due to digital data transfer
- Change-over between programs via function switch (different processes)
- 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.

Type	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 hand-held nutrunners of the DS series



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

## Technical data

Hand-held nutrunners of the DS series for a manual assembly with straight or with angled output. Available in the execution MDW, the torque measurement is made directly at the output by a 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, gearbox unit with precision gearwheel bearing, ergonomic handle and wear-free operating elements.



- 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
- Start-button with programmable functions-switch, can be configured for the switchover of programs (different operations)

DSH 26 series	MDW   SA	Straight nutrunners   Angle nutrunners			
Models, max. torque		0,5 Nm	1 Nm	2 Nm	4 Nm
max. speed (execution MDW)		1450 rpm	1450 rpm	1020 rpm	400 rpm
max. speed (execution SA)		1700 rpm	1700 rpm	820 rpm	400 rpm
Type of output		straight   angled	straight   angled	straight   angled	straight   angled

DS 34-P series	MDW   SA	Pistol grip nutrunners			
Models, max. torque		2,5 Nm	5 Nm	10 Nm	15 Nm
max. speed		880 rpm	880 rpm	1540 rpm	1540 rpm
Type of output		straight	straight	straight	straight

DSH 34 series	MDW   SA	Straight nutrunners   Angle nutrunners		
Models, max. torque		5 Nm	10 Nm	20 Nm
max. speed (straight nutrunner)		1540 rpm	1540 rpm	---
max. speed (angle nutrunner)		1070 rpm	1070 rpm	1070 rpm
Type of output		straight   angled	straight   angled	angled

DS 44-P series	MDW   SA	Pistol grip nutrunners				
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
Type of output		straight	straight	straight	straight	straight

DSH 44 series	MDW   SA	Straight nutrunners   Angle nutrunners			
Models, max. torque		20 Nm	30 Nm	40 Nm	60 Nm
max. speed		680 rpm	680 rpm	490 rpm	350 rpm
Type of output		straight	straight	angled	angled

## Accessories

- Diverse motor and output variants, crow foos as well as individual technical solutions
- Suspension elements, balancer
- Socket boxes, handling equipment