

# EXACT 12V AND ANGLE EXACT 12V

Smaller, shorter, lighter – the cordless industrial screwdriver with perfect ergonomics.



- ▶ **Perfect ergonomics**  
With a head length of 154 mm and a weight of 0.8 kg including 12 V/3.0 Ah rechargeable battery
- ▶ **Perfect process control**  
With six different screwdriving stages, adjustable according to time, speed, direction and angle of rotation, as well as torque
- ▶ **Maximum service life and robustness**  
Thanks to the brushless EC motor and high-quality, wear-free components

**Flexible Power System**

**12V 2.0 Ah** **12V 3.0 Ah** **12V 6.0 Ah**

FLEXIBLE POWER SYSTEM

- ▶ Compact 2.0 and 3.0 Ah rechargeable battery from the 12 V class
- ▶ The compact design is ideal for 12 V tools
- ▶ Optimised battery capacity makes it suitable for most 12 V applications
- ▶ 6.0 Ah battery with maximum runtime in Bosch's 12 V category
- ▶ Extremely high battery capacity delivers up to 300% more runtime than the 12V 2.0 Ah Professional model
- ▶ Compact and with perfect balance between size and capacity for ultimate performance with 12 V power tools
- ▶ Compatible since 2005: all of our batteries are compatible with new and existing Bosch Professional tools in the same voltage class.

## EXACT 12V handling and ergonomics

- ▶ Lightest tool weighing only 0.65 kg without battery
- ▶ Shortest head length (154 mm) and smallest height (179 mm)

## 1/4" quick-change chuck

- ▶ For quickly changing the tool

## LED ring light

- ▶ For perfect lighting in dark and tight spaces
- ▶ Adjustable via USB port

## New extremely small angle head

- ▶ With 1/4" quick-change chuck or 3/8" square, can be continuously rotated

## ANGLE EXACT 12V handling and ergonomics

- ▶ Lightest tool weighing only 0.9 kg without battery
- ▶ Shortest head length (346 mm)

## Maximum process reliability

- ▶ Visual and audible indication of the screwdriving results and the battery status

## Flexible Power System

- ▶ Compatible with all Bosch Professional 12 V rechargeable batteries from 2.0 Ah (and chargers)

## USB port for screwdriving stage speed parametrisation

- ▶ Adjustable to your specific application
- ▶ Adjustable according to switch-off, angle and time

## Security

- ▶ The safest 12 V lithium-ion battery pack, with extremely long service life

## Adjustable to specific applications

- ▶ USB port for screwdriving stage speed parametrisation

## Robustness and service life

- ▶ Brushless high-power motor
- ▶ Maintenance-free components
- ▶ Extremely robust and high-quality tool for the longest service life



## Perfect tool control

- ▶ Adjustable via USB port
- ▶ Various tightening phases
- ▶ Adjustable according to switch-off, angle and time



# EXACT 12V

Smaller, shorter, lighter – the cordless industrial screwdriver with perfect ergonomics.

- ▶ **Perfect ergonomics:** With a head length of 154 mm and a weight of 0.8 kg including 12 V/3.0 Ah rechargeable battery
- ▶ **Perfect process control:** With six different screwdriving stages, adjustable according to time, speed, direction and angle of rotation, as well as torque
- ▶ **Maximum service life and robustness:** Thanks to the high-quality and wear-free components
- ▶ Brushless (EC) motor for 30 % more efficiency (compared to conventional DC motors) and extremely long service life
- ▶ LED ring light for optimally illuminating the work area, adjustable via a USB port
- ▶ Precision shut-off clutch with  $C_{mk} > 1.67$  (in +/-10 % tolerance range according to VDI 2647)
- ▶ Visual and audible indication of screwdriving results and battery status, for the greatest process reliability
- ▶ Bosch Premium lithium-ion technology for long lifetime and runtime

EXACT		Part number
EXACT 12V-6-670		0 602 496 400 <b>Pack of 5:</b> 0 602 496 500
EXACT 12V-3-1100		0 602 496 401 <b>Pack of 5:</b> 0 602 496 501
EXACT 12V-2-670		0 602 496 402 <b>Pack of 5:</b> 0 602 496 502

Torque, hard/soft as per ISO 5393 (Nm)	Speed (no-load)	Bit holder	Battery specifications (V)	Direction of rotation	Weight as per EPTA (kg)
1.5 – 6	135 – 670 *	1/4" quick-change chuck	12 V/3.0 Ah**	R/L	0.85 kg (including rechargeable battery)
1 – 3	220 – 1100 *	1/4" quick-change chuck	12 V/3.0 Ah**	R/L	0.85 kg (including rechargeable battery)
0.5 – 2	135 – 670 *	1/4" quick-change chuck	12 V/3.0 Ah**	R/L	0.85 kg (including rechargeable battery)
* Below 50 % speed the power may be lower			** Rechargeable battery not in the items included		

# 1 ANGLE EXACT 12V

Smaller, shorter, lighter – the cordless industrial screwdriver with perfect ergonomics.

- ▶ **Perfect ergonomics:** With a head length of 346 mm and a weight of 1.1 kg including 12 V/3.0 Ah rechargeable battery
- ▶ LED ring light for optimally illuminating the work area, adjustable via a USB port
- ▶ New extremely small angle head with ¼" quick-change chuck or 3/8" square, can be continuously rotated
- ▶ Precision shut-off clutch with Cmk > 1.67 (in +/-10 % tolerance range according to VDI 2647)
- ▶ Visual and audible indication of screwdriving results and battery status, for the greatest process reliability
- ▶ Bosch Premium lithium-ion technology for long lifetime and runtime

ANGLE EXACT	Part number
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ANGLE EXACT 12V-12-400 0 602 496 600



ANGLE EXACT 12V-6-600 0 602 496 601



ANGLE EXACT 12V-3-600 0 602 496 602



Configuration	Torque, hard / soft as per ISO 5393 (Nm)	Speed (no-load)	Battery specifications (V)	Direction of rotation	Weight as per EPTA (kg)
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with 12V angle head 2-10 maximum 12\* 74-370\*\* with a maximum Power Boost of 500 12V 3.0 Ah\*\*\* R/L 1.1\*\*\*\*

## OBS! Levereras utan vinkelhuvud

with adapter 0-602-496-022 and 180W angle head 2.5-8 maximum 9\* 95-480\*\* with a maximum Power Boost of 650 12V 3.0 Ah\*\*\* R/L 1.2\*\*\*\*

## För vinkelhuvud se sidan 5

with adapter 0-602-496-022 and straight screw head 0-607-453-631 1.5-6 maximum 6.5\* 134-670\*\* with a maximum Power Boost of 910 12V 3.0 Ah\*\*\* R/L 1.2\*\*\*\*

with 12V angle head 2.0-6.0 120-600\*\* with a maximum Power Boost of 800 12V 3.0 Ah\*\*\* R/L 1.1\*\*\*\*

with adapter 0-602-496-022 and 180W angle head 1.5-4.5 150-780\*\* with a maximum Power Boost of 1040 12V 3.0 Ah\*\*\* R/L 1.2\*\*\*\*

with adapter 0-602-496-022 and straight screw head 0-607-453-631 1.0-3.0 220-1100\*\* with a maximum Power Boost of 1450 12V 3.0 Ah\*\*\* R/L 1.2\*\*\*\*

with 12V angle head 1.0-3.5 120-600\*\* with a maximum Power Boost of 800 12V 3.0 Ah\*\*\* R/L 1.1\*\*\*\*

with adapter 0-602-496-022 and 180W angle head 0.8-2.5 150-780\*\* with a maximum Power Boost of 1040 12V 3.0 Ah\*\*\* R/L 1.2\*\*\*\*

with adapter 0-602-496-022 and straight screw head 0-607-453-631 0.5-2.0 220-1100\*\* with a maximum Power Boost of 1450 12V 3.0 Ah\*\*\* R/L 1.2\*\*\*\*

\* Only possible in cycle operation: < 5 threaded connections per minute

\*\* limited power at speeds <50%

\*\*\* Battery not in the items included

\*\*\*\*incl. battery 3.0 Ah and angle head

Återkommer med info om dessa båda

# BATTERY PACKS AND CHARGERS FOR EXACT AND ANGLE EXACT LITHIUM-ION

## 12 V battery packs and chargers



Lithium-ion	Part number	Description	Voltage (V)	Capacity (Ah)	Weight as per EPTA (kg)
<b>GBA 12 V/2.0 Ah Professional</b> 	0 602 494 020	GBA 12V 2.0 Ah rechargeable battery, pack of 27	12	2,0	27 x 0.175
<b>GBA 12 V/3.0 Ah Professional</b> 	0 602 496 012	GBA 12V 3.0 Ah rechargeable battery, pack of 28	12	3.0	28 x 0.18
<b>GBA 12 V/6.0 Ah Professional</b> 	0 602 496 013	GBA 12V 6.0 Ah rechargeable battery, pack of 12	12	6.0	12 x 0.385

Li-Ion quick charger	Part number	Description	Voltage (V)	Weight as per EPTA (kg)
<b>GAL 12V-40</b> Fully charges the GBA 12V/3.0 Ah in 50 minutes and the GBA 12V/6.0 Ah in 95 minutes. 	0 602 494 007	GAL 12V-40 charger, pack of 16	230	16 x 0.45
	0 602 496 014	GAL 12V-40 charger, pack of 16 (UK plug)	230	16 x 0.45

## 18 V lithium-ion battery packs and chargers



Lithium-ion	Part number	Description	Voltage (V)	Capacity (Ah)	Weight as per EPTA (kg)
<b>18 V/2.0 Ah</b> 	0 602 494 002	Pack of 12 batteries	18	2,0	12 x 0.35
<b>18 V/4.0 Ah</b> 	0 602 494 004	Pack of 12 batteries	18	4.0	12 x 0.6
<b>18 V/5.0 Ah</b> 	0 602 494 003	Pack of 12 batteries	18	5.0	12 x 0.6
<b>ProCORE18V 4.0Ah</b> 	0 602 494 034	Pack of 15 batteries	18	4.0	15 x 0.515











Li-Ion quick charger	Part number	Description	Voltage (V)	Weight as per EPTA (kg)
<b>GAL 1880 CV</b> Fully charges the GBA 18V/2.0 Ah in 30 minutes and the GBA 18V/5.0 Ah in 45 minutes. 	0 602 494 035	GAL 1880 CV charger, pack of 18	230	18 x 0.7
	0 602 494 036	GAL 1880 CV charger, pack of 18 (UK plug)	230	18 x 0.7
<b>GAL 18V-40</b> Fully charges the GBA 18V/2.0 Ah in 35 minutes and the GBA 18V/5.0 Ah in 70 minutes. 	0 602 494 039	GAL 18V-40 charger, pack of 18	230	18 x 0.55
	0 602 494 040	GAL 18V-40 charger, pack of 18 (UK plug)	230	18 x 0.55

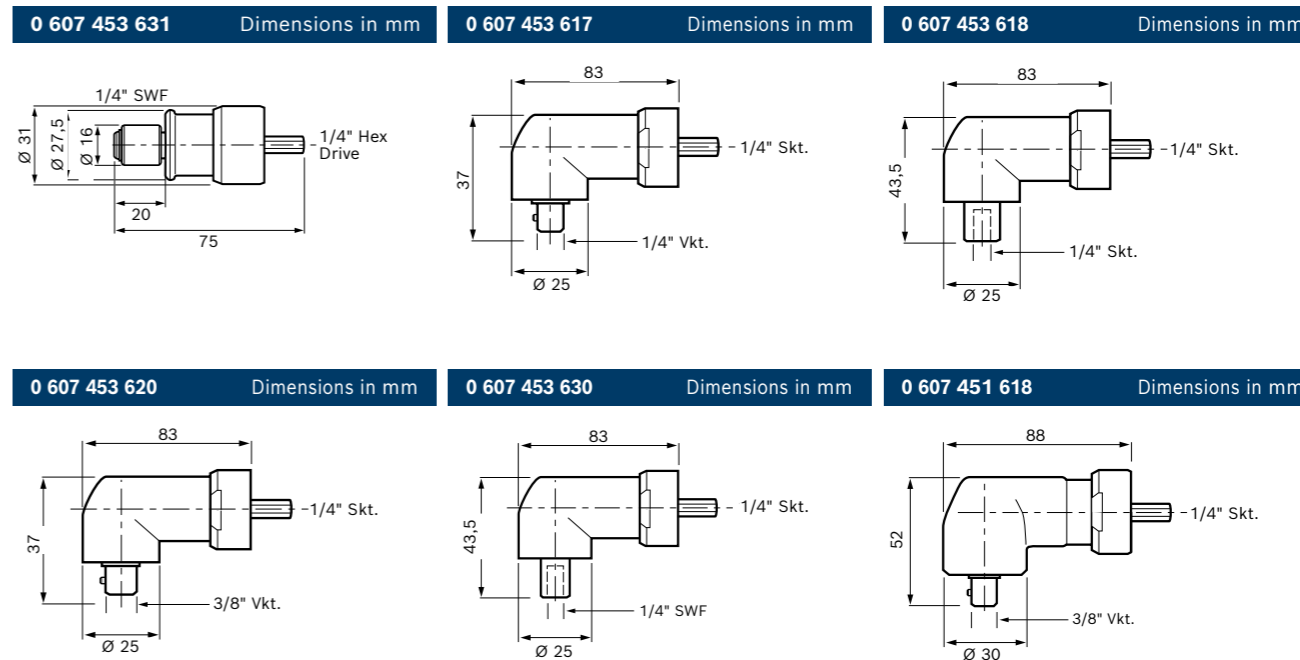
# BATTERY PACKS AND CHARGERS FOR EXACT AND BT-EXACT

Nickel metal hydride	Part number	Description	Voltage (V)	Capacity (Ah)	Weight as per EPTA (kg)
<b>9.6 V batteries</b> 	2607335681	Battery pack	9.6	2.6	0.55
	0602490025	Pack of 10 batteries	9.6	2.6	5.5
<b>12 V batteries</b> 	2607335683	Battery pack	12	2.6	0.7
	0602490026	Pack of 10 batteries	12	2.6	7
<b>14.4 V batteries</b> 	2607335685	Battery pack	14.4	2.6	0.8
	0602490027	Pack of 10 batteries	14.4	2.6	8

Quick charger	Part number	Voltage (V)	Weight as per EPTA (kg)
<b>AL 2450 DV</b> Multivolt charger. Charges all Bosch NTC battery packs from 7.2-14.4 V with APT shank. 	2 607 225 027	230	1.0

# ANGLE HEADS FOR EXACT AND ANGLE EXACT

Vinkelhuvud för 12V		Part number	Max. torque (Nm)	Drive end	Weight (kg)	Quantity
<b>Angle heads 12V</b>		0 602 496 020	15	3/8" square	0.18	1
		0 602 496 021	15	1/4" QRC	0.18	1
<b>Adapter 12V</b> Adapter for ANGLE EXACT 12V for use with the 180W angle heads		0 602 496 022 <b>0 602 496 022</b>		Flange for 180W angle head	0.1	4
För att använda dessa huvuden nedan till 12V maskinen						
<b>Straight head</b>		0 607 453 631	6	1/4"-QRC	0.2	1
<b>Angle head</b> Gear ratio 1.4:1		0 607 453 617	27	1/4"-square	0.2	1
		0 607 453 618	27	1/4"-square internal hex	0.2	1
		0 607 453 620	27	3/8"-square	0.2	1
		0 607 453 630	27	1/4"-QRC	0.2	1
<b>HD angle head</b> Required for ANGLE EXACT 30 (gear ratio of 1.4:1)		0 607 451 618	35	3/8"- square	0.22	1
<b>Protective cap</b> For angle heads	suitable for angle heads 180W 0607453617, ...618, ...620 and ...630	3 605 500 171	-	-	-	1
	suitable for HD angle head 0607451618	3 605 500 175	-	-	-	1
	suitable for angle head 12V 0602496020 and ...021	0602496015				5
<b>Protective cap for large angle head</b> Prevents damage to the workpiece	suitable for ANGLE EXACT ION 30-300, 40-220, 50-210, 60-120	3 609 202 A29	-	-	-	1





# EXACT 12V AND ANGLE EXACT 12V ACCESSORIES

EXACT 12V and ANGLE EXACT 12V accessories	Part number	Quantity	
<b>Covers coloured</b> For quickly identifying the torque range and with extra large bonding surface Suitable for every EXACT 12V and ANGLE EXACT 12V	black blue red green yellow	0 602 497 008 0 602 497 004 0 602 497 005 0 602 497 006 0 602 497 007	5 5 5 5 5
<b>RFID attachment</b> Black cover with NFC chip for wireless screwdriver identification. Suitable for every EXACT 12V and ANGLE EXACT 12V Only available as a pack of 5	Black (Chip: NXP NTAG 216 – 924 bytes)	0 602 496 011	5

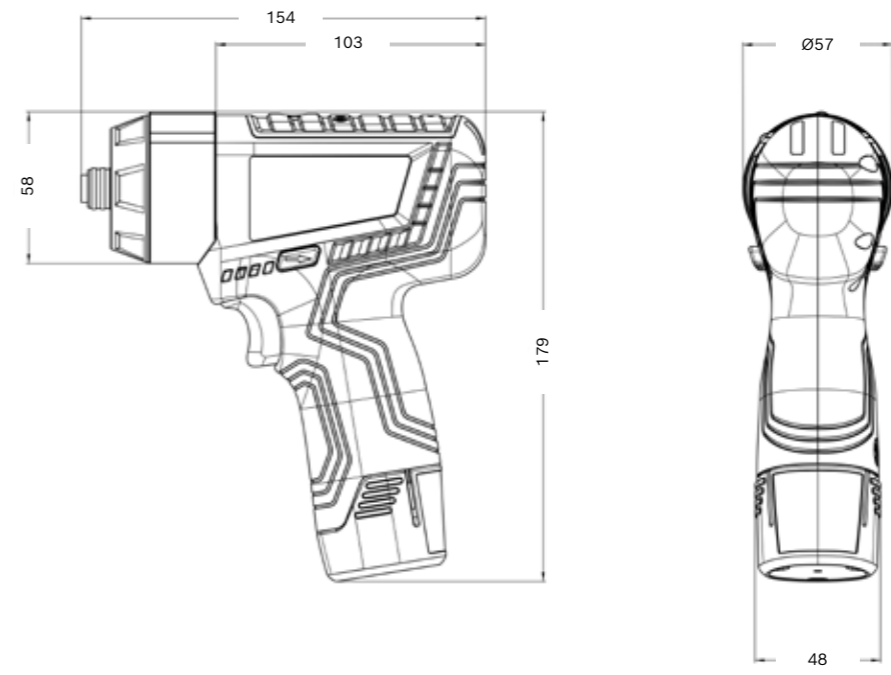
EXACT 12V accessories	Part number	Quantity	
<b>Protectors</b> Prevent damage to the workpiece Suitable for every EXACT 12V centre grip screwdriver  Will not block motor air vents Only available as a pack of 5	Clear Fig. example Blue Fig. example Red Fig. example Green Fig. example Yellow Fig. example	0 602 496 000 0 602 496 001 0 602 496 002 0 602 496 003 0 602 496 004	5 5 5 5 5

ANGLE EXACT 12V accessories	Part number	Quantity	
<b>Protectors</b> Prevent damage to the workpiece Suitable for every ANGLE EXACT 12V angle wrench  Will not block motor air vents Only available as a pack of 5	Clear Fig. example Blue Fig. example Red Fig. example Green Fig. example Yellow Fig. example	0 602 496 005 0 602 496 006 0 602 496 007 0 602 496 008 0 602 496 009	5 5 5 5 5

Accessories for battery packs	Part number	Quantity	
<b>Battery pack protectors</b> Prevent damage to the battery Only available as a pack of 5	Clear For the GBA 12V 6.0 Ah Fig. example	0 602 496 010	5

# EXACT 12V AND ANGLE EXACT 12V ACCESSORIES AND DIMENSIONAL DRAWINGS

## EXACT 12V Dimensions in mm



## ANGLE EXACT 12V Dimensions in mm

