

Bosch EXACT

Tightening Tools



Cordless and electric screwdrivers
for industry



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Screwdrivers for every tightening situation from Rexroth and Bosch

Rexroth is known as a provider of precise and robust tightening technology – tools, control systems and corresponding accessories – for demanding tightening tasks in various industries:

From the intelligent Nexo cordless Wi-Fi nutrunner and the ergonomic ErgoSpin hand-held nutrunner, to versatile tightening spindles and a fully automated tightening system.

Further information on these products can be found in the catalogs:

- ▶ Online catalog: www.boschrexroth.com/tightening
- ▶ PDF catalog: R999000049 in the Rexroth media directory www.boschrexroth.com/mediadirectory

KNOWN TIGHTENING TECHNOLOGY FROM REXROTH

A: Safety Critical

At least one independent direct measurement system
(e.g. separate transducer)



B: Function Critical

At least indirect measurement system
(e.g. motor current)



We now offer nutrunners for non-critical tightenings in your assembly as well. You do not only benefit from our experience as a partner for demanding tightening tasks - but also from the many years of experience of Bosch Powertools in the construction of powerful and reliable industrial nutrunners for non-critical tightening applications.

From now on you have one contact person for all topics concerning your tightening tasks.

TIGHTENING TECHNOLOGY FROM BOSCH

C: Non Critical (Quality related)

No measurement system required (e.g. clutch)



Big in performance, compact in size

The EXACT and ANGLE EXACT tools from Bosch are cordless shut-off screwdrivers for industry – offering the greatest accuracy, longevity and energy efficiency.

In assembly situations where cables or pneumatic hoses get in the way, the EXACT series enables you to optimise processes, build better products and reduce your costs.

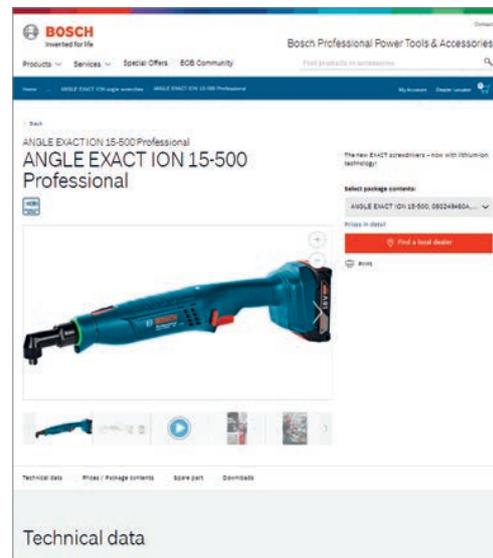
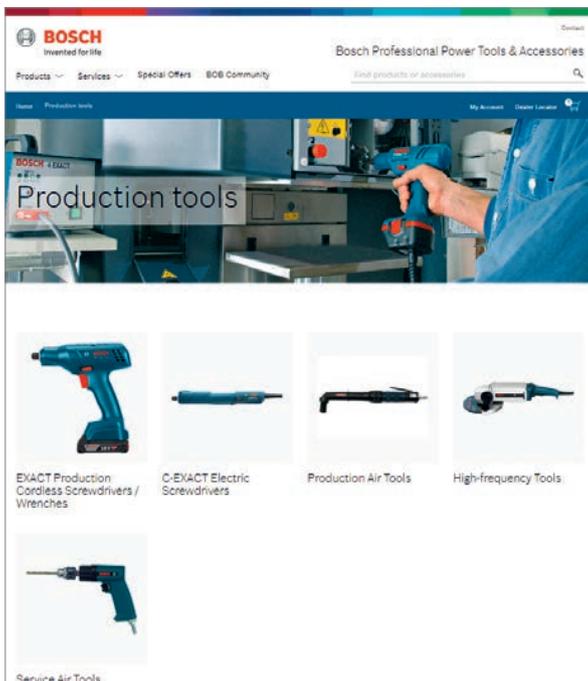


- ▶ **Bright LED light** for illuminating the work area
- ▶ **Coloured marking rings** for easy identification
- ▶ **Right-hand/left-hand rotation change** with one hand
- ▶ **Repeat protection**
- ▶ **Low weight, balanced weight distribution** for better ergonomics
- ▶ **Industrial battery design** for longest lifetime
- ▶ **Torque setting** only with a special tool
- ▶ **Highest repeatability** due to Bosch clutch design
- ▶ **Easy service** due to plug connectors and common parts
- ▶ **Bosch SEC motor:** brushless motor technology
- ▶ **Visual and audible signals** provide information about battery status and screwdriving quality

EXACT

- ▶ Ergonomic
- ▶ EXtremely Light
- ▶ Accurate
- ▶ Cmk proven
- ▶ Tool

An overview with a single click: All production tools online



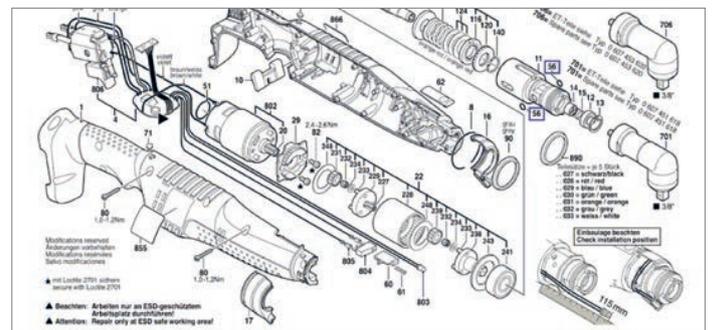
An extensive online catalogue including applications is available at www.boschproductiontools.com.

The tool selection is made easier by the ability to run comparisons between screwdrivers. For example, you can create a display of different tools and compare data such as power output or rpm.

Dimensional drawings, 3D data, homologation data, user manuals, pictures and exploded drawings can be downloaded directly from the internet.

A spare parts service informs users about which spare parts they need.

Furthermore, you will find the latest information about measurement data, innovations and new developments from Bosch Production Tools. You can quickly obtain all relevant information needed to select the correct tools for your production.



EXACT 12V and ANGLE EXACT 12V

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



Brushless (EC) motor

- ▶ For 30 % more efficiency (compared to conventional DC motors) and extremely long service life

Perfect process control

- ▶ With six different tightening steps, 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

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 ISO 5393)

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



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 12 V 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 and ANGLE EXACT 12V



- ▶ Perfect ergonomics: With a head length of 154 mm and a weight of 0.8 kg including 12 V/3.0 Ah rechargeable battery

	Part number	Torque, hard /soft as per ISO 5393 (Nm)	Speed (no-load)* (rpm)
	EXACT 12V-2-670	0 602 496 402	0.5 – 2
		0 602 496 412 ^{US/CA}	
		0 602 496 482 ^{CN}	
	EXACT 12V-3-1100	0 602 496 404	1 – 4
		0 602 496 414 ^{US/CA}	
		0 602 496 484 ^{CN}	
	EXACT 12V-6-670	0 602 496 400	1.5 – 6
		0 602 496 410 ^{US/CA}	
		0 602 496 480 ^{CN}	

*) Below 50 % speed the power may be lower

Bit holder	Battery specifications	Weight as per EPTA (kg) Including battery
1/4" quick-change chuck	12 V/3.0 Ah **	0.85

**) Rechargeable battery not in the items included

Note:

- ▶ Scope of delivery: Basic machine

- ▶ Perfect ergonomics: With a head length of 346 mm and a weight of 1.0 kg including 12 V/3.0 Ah rechargeable battery
- ▶ Extremely small angle head with 1/4" quick-change chuck or 3/8" square, can be continuously rotated (see page 9)

	Part number	Torque, hard /soft as per ISO 5393 (Nm)	Speed (no-load) (rpm)
ANGLE EXACT 12V-3-600	0 602 496 602	1 – 3.5	120 – 600
	0 602 496 612 ^{US/CA} 0 602 496 682 ^{CN}		
ANGLE EXACT 12V-6-600	0 602 496 601	2 – 6	120 – 600
	0 602 496 611 ^{US/CA} 0 602 496 681 ^{CN}		
ANGLE EXACT 12V-12-400	0 602 496 600	2 – 12	80 – 370
	0 602 496 610 ^{US/CA} 0 602 496 680 ^{CN}		

Bit holder	Battery specifications	Weight as per EPTA (kg) Including battery
3/8" square	12 V/3.0 Ah *	1.0
1/4" quick-change chuck	12 V/3.0 Ah *	1.0

*) Rechargeable battery not in the items included

Note:

- ▶ Angle heads can be obtained via accessories (0 602 490 020 3/8 square; 0 602 490 021 1/4 Quick change chuck).
- ▶ Angle heads from the 18 V program with adapter can also be used (0 602 490 022).

EXACT ION and ANGLE EXACT ION 18V



Better than ever before! With Bosch premium Lithium-Ion technology

The handy Bosch cordless shut-off screwdrivers in the EXACT range are now more powerful and efficient than ever before.

Enabling the highest repeatability, they are especially suitable for driving rows of screws and completing assembly applications with maximum performance whilst meeting very high quality demands. Thanks to Bosch Lithium-Ion battery technology, they deliver maximum power for high torques and speeds. They are also extremely resilient with minimal energy loss, so they additionally reduce your costs with their superior lifetime. Their low weight of only 1.3 kg (EXACT ION) also ensures impressively comfortable working in shift operations.



THE MULTI-BRAND BATTERY ALLIANCE



Fully compatible

AMPShare batteries are fully compatible with all tools within the multi-brand alliance – including the entire Bosch Professional 18V-Systems.

Leading battery tech

Extreme power, long runtimes, outstanding durability - and the world's fastest charging technology.*

Many brands.
Many tools.

ONE BATTERY SYSTEM.

Professional expertise

All members of the AMPShare alliance are leading expert brands in their field – meeting the highest demands of trade and industry.

Save time and money

No more buying new batteries for every new tool. No more searching for the “right” battery. With AMPShare, one battery does the job.

Save space and effort

Reduce clutter and complexity. With AMPShare, you never need to carry different batteries and chargers on the job again.

A growing alliance

Your AMPShare battery today will be compatible with even more tools from even more brands in the future.



AMPShare is the multi-brand battery system for trade and industry professionals. With just one shared battery system, you have the flexibility to switch between pro tools and brands – without thinking twice.

With over 85 million batteries sold and a fast-growing alliance, AMPShare is the 18V battery system you can build on. In addition, AMPShare tools have been fully compatible with Bosch Professional 18V batteries and chargers since 2008.



More Informationen on ampshare.de



LEADING BATTERY TECHNOLOGY

Powered by Bosch Professional



HIGH PERFORMANCE

You need more power? Our powerful ProCORE18V batteries, as part of AMPShare, offer extreme power for the toughest jobs and materials.



COOLPACK-TECHNOLOGY

Outstanding thermal management enables rapid heat dissipation, which extends the lifetime of AMPShare batteries and offers exceptionally long runtimes.



COMPACT AND LIGHT

AMPShare batteries are compact and lightweight for ergonomic and more comfortable working, especially in unfavorable positions.



FASTEST CHARGING TIME

We not only have the fastest charger in the world*, but also a wide range of chargers for one and more batteries.

* In Power Boost mode, the GAL 18V-160 C Professional charges the ProCORE18V 4.0Ah to 50 % within 9 minutes.

Bosch cordless technology Maximum efficiency hard-wired

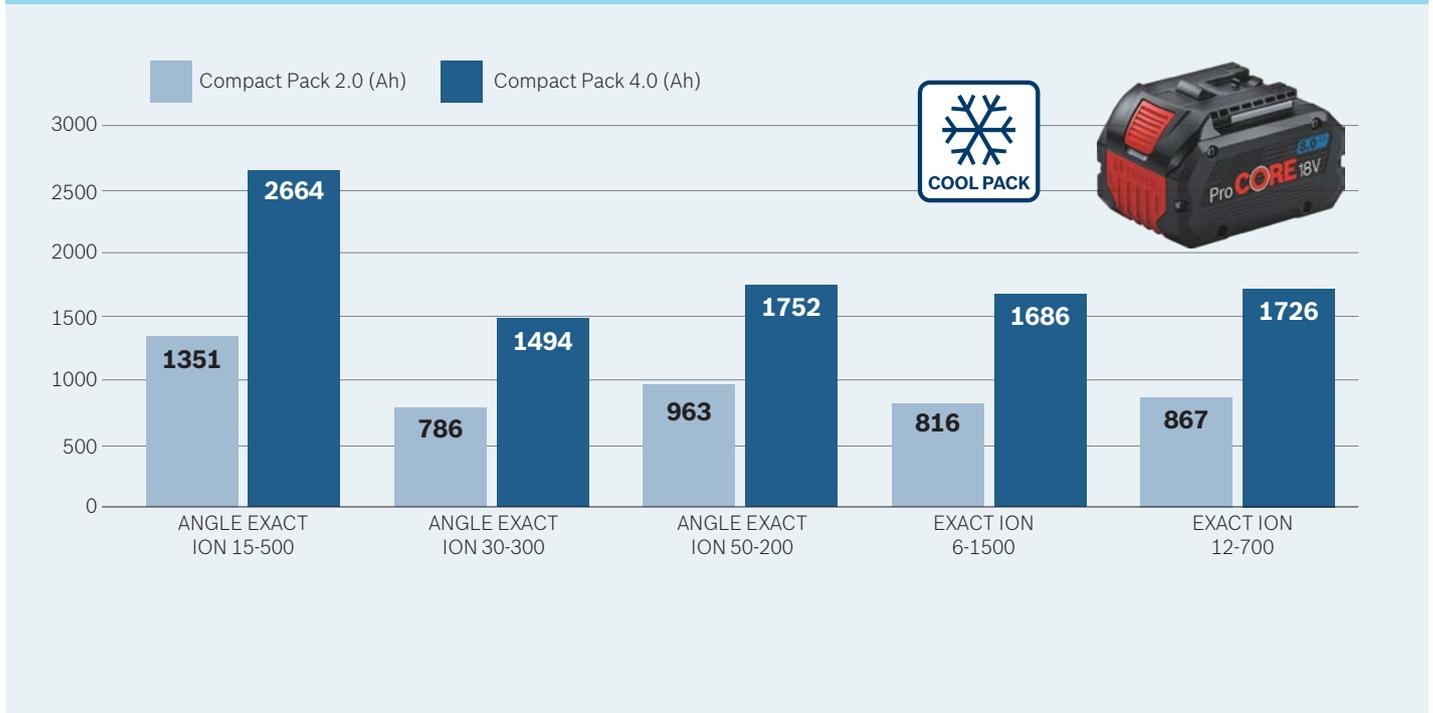


100% compatibility
within the 18 volt range



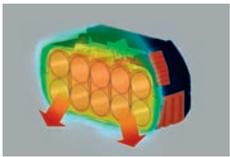
Bosch CoolPack for up to
100% more lifetime

Multi-stage screwdriving process

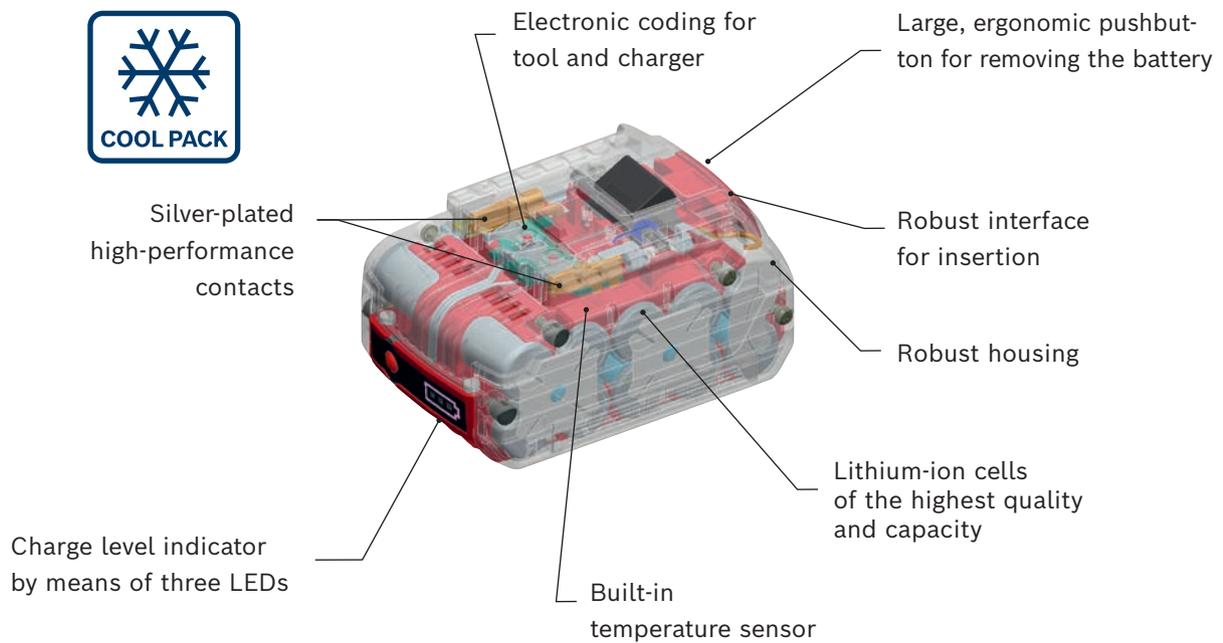


Results of endurance test 02/2013, at maximum torque and a medium-hard screwdriving application at 80° rotation angle, measured from a threshold torque of 50%, at screw size M8

Exceptional runtime and lifetime thanks to CoolPack



Red **CoolPack** housing made of heat-conductive material for up to 100% more lifetime compared to a Bosch battery without **CoolPack**. Bosch **CoolPack** ensures balanced warming and reduces heat build-up!



Our technology Your benefit



Greater process reliability:

- ▶ Precision shut-off clutch with $C_{mk} > 1.67$ (at a tolerance of $\pm 10\%$ in accordance with ISO 5393)
- ▶ Multi-stage screwdriving process, adjustable to your individual application via USB interface

Greater efficiency:

- ▶ Bosch Premium lithium-ion technology for long lifetime and runtime
- ▶ Brushless (EC) motor for 30% more efficiency (compared to conventional DC motors) and extremely long lifetime

Greater comfort:

- ▶ Ergonomic design and lower weight for even more comfortable working

Lower costs:

- ▶ High rotational speeds and the screwdriving stages reduce production times and improve quality



- ▶ **Patented new interface**, to prevent mix-ups
- ▶ **Temperature monitoring and overload protection**, for extremely long lifetime
- ▶ **Double locking**, to prevent falling out
- ▶ **Charge level indicator**, to identify the charging state
- ▶ **Bosch high-performance battery cells**, with low energy loss, for the highest speeds and torques
- ▶ **Integrated cooling**, for extremely long lifetime

1/4" quick-release chuck,
for fast bit changes

Lighting LED,
for optimum illumination
of the work area

The proven Bosch **shut-off clutch**
is adjustable with a special tool,
for the highest accuracy

Type of modular electronics,
for even easier maintenance

Angle head adjustable,
for even more
ergonomic use

Lighting LED adjustable,
for optimum illumination
of the work area

The safest 18 volt Li-Ion
battery pack, with extremely
long lifetime

Brushless motor:
Made by BOSCH,
for maintenance-free operation

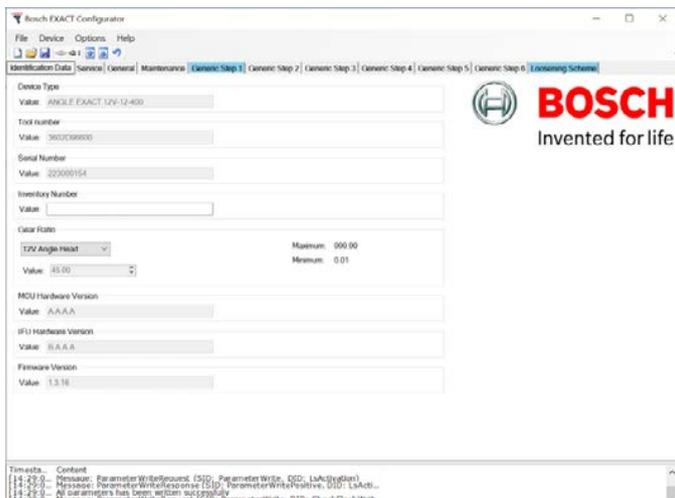
**Visual and audible
indication of screw-
driving results and
battery status,** for the
greatest process reli-
ability

**Switch module and handle
design,** for even more ergo-
nomic use

**USB interface for config-
uring speed of screwdriving
stages,** adjustable to your
specific application



EXACT Configurator 5.2



Details

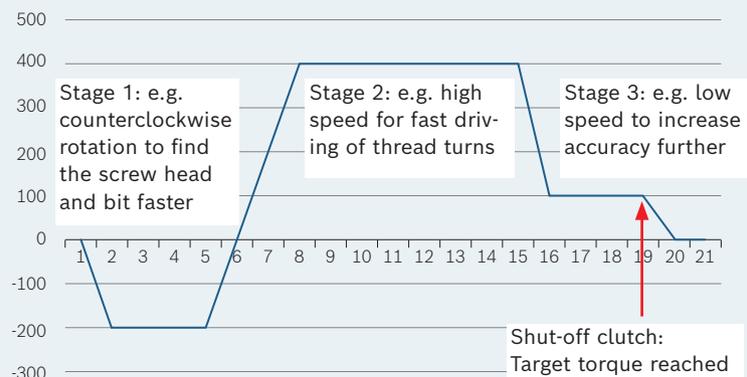
- ▶ Will be available at time of launch with order number 3.607.031.931 via spare parts supply.
- ▶ Fully compatible with the complete EXACT ION 18V and 12V range

Functions:

- ▶ Service tab with cycle and runtime counter
- ▶ Maintenance tab with maintenance counter
- ▶ Loosening scheme can be adjusted like any other tightening phase
- ▶ Buzzer, work light and HMI LEDs can be adjusted in intensity
- ▶ Power Boost – Speed increase



Multi-step tightening process



Stages 1, 2 (and 4) can be activated as required. Stage 3 is the standard stage in which the speed can be set between 50 and 100% as required.

EXACT ION



	Part number	Torque, hard as per ISO 5393 (Nm)	Speed (no load) (rpm)
EXACT ION 2-700 	0 602 494 400 0 602 494 410 ^{US/CA}	0.5 – 2	70 – 700
EXACT ION 4-2000 	0 602 494 401 0 602 494 411 ^{US/CA}	1 – 4	200 – 2000
EXACT ION 6-1500 	0 602 494 402 0 602 494 412 ^{US/CA}	1 – 6	150 – 1500
EXACT ION 8-1100 	0 602 494 403 0 602 494 413 ^{US/CA}	1.5 – 8	110 – 1100
EXACT ION 12-700 	0 602 494 404 0 602 494 414 ^{US/CA}	1.5 – 12	70 – 700
EXACT ION 12-450 	0 602 494 405 0 602 494 415 ^{US/CA}	1.5 – 12	45 – 450

Bit holder	Battery specifications	Weight as per EPTA (kg)	Included accessories
1/4" quick-release chuck	18 V/2.0 Ah *	1.3 (including battery)	Light green colour ring Suspension hook
1/4" quick-release chuck	18 V/2.0 Ah *	1.3 (including battery)	Grey colour ring Suspension hook
1/4" quick-release chuck	18 V/2.0 Ah *	1.3 (including battery)	Black colour ring Suspension hook
1/4" quick-release chuck	18 V/2.0 Ah *	1.3 (including battery)	Orange colour ring Suspension hook
1/4" quick-release chuck	18 V/2.0 Ah *	1.3 (including battery)	Red colour ring Suspension hook
1/4" quick-release chuck	18 V/2.0 Ah *	1.3 (including battery)	Black colour ring Suspension hook

*
Battery not included
in scope of delivery
(see page 31)

EXACT ION WK



	Part number	Torque, hard /soft as per ISO 5393 (Nm)	Speed (no-load)* (rpm)
EXACT ION 6-1500 WK	0 602 494 406	2 – 8	105 – 1050
	0 602 494 416 ^{US/CA}		
EXACT ION 8-1100 WK	0 602 494 407	2 – 11	75 – 750
	0 602 494 417 ^{US/CA}		
EXACT ION 12-700 WK	0 602 494 408	2 – 16	50 – 500
	0 602 494 418 ^{US/CA}		
EXACT ION 12-450 WK	0 602 494 409	2 – 16	32 – 320
	0 602 494 419 ^{US/CA}		

*

measured with Bosch angle
screwdriving head

Bit holder	Battery specifications	Weight as per EPTA (kg)	Included accessories
Flange for angle head **	18 V/2.0 Ah ***	1.4 (including battery)	Black colour ring Suspension hook
Flange for angle head **	18 V/2.0 Ah ***	1.4 (including battery)	Orange colour ring Suspension hook
Flange for angle head **	18 V/2.0 Ah ***	1.4 (including battery)	Red colour ring Suspension hook
Flange for angle head **	18 V/2.0 Ah ***	1.4 (including battery)	Light blue colour ring Suspension hook
** Angle head not included in scope of delivery (see page 37)	*** Battery not included in scope of delivery (see page 31)		

ANGLE EXACT ION



	Part number	Torque, hard/soft as per ISO 5393 (Nm)	Speed (no-load) (rpm)
ANGLE EXACT ION 3-500 	0 602 494 608	0.7 – 3	50 – 520
	0 602 494 618 ^{US/CA}		
ANGLE EXACT ION 8-1100 	0 602 494 600	2 – 8	110 – 1100
	0 602 494 610 ^{US/CA}		
ANGLE EXACT ION 15-500 	0 602 494 601	2 – 15	50 – 520
	0 602 494 611 ^{US/CA}		
	0 602 494 60A	2 – 15	50 – 520
ANGLE EXACT ION 23-380 	0 602 494 602	10 – 23	38 – 380
	0 602 494 612 ^{US/CA}		
ANGLE EXACT ION 30-290 	0 602 494 607	10 – 30	29 – 290
	0 602 494 617 ^{US/CA}		
	0 602 494 60B	10 – 30	29 – 290
ANGLE EXACT ION 30-300 	0 602 494 603	10 – 30	30 – 300
	0 602 494 613 ^{US/CA}		
ANGLE EXACT ION 40-220 	0 602 494 604	15 – 40	22 – 220
	0 602 494 614 ^{US/CA}		
ANGLE EXACT ION 50-210 	0 602 494 605	15 – 50	21 – 180
	0 602 494 615 ^{US/CA}		
ANGLE EXACT ION 60-120 	0 602 494 606	15 – 60	12 – 120
	0 602 494 616 ^{US/CA}		

Bit holder	Battery specifications	Weight as per EPTA (kg)	Included accessories
Flange for angle head *	18 V/2.0 Ah **	1.7 (including battery)	Light green colour ring Suspension hook
Flange for angle head *	18 V/2.0 Ah **	1.7 (including battery)	Light blue colour ring Suspension hook
Flange for angle head *	18 V/2.0 Ah **	1.7 (including battery)	Light green colour ring Suspension hook
3/8" square	18 V/2.0 Ah **	1.7 (including battery)	Light green colour ring Suspension hook Angle screwdriving head 3/8"
Flange for angle head *	18 V/2.0 Ah **	2.2 (including battery)	White colour ring Suspension hook
Flange for angle head *	18 V/4.0 Ah **	2.2 (including battery)	Grey colour ring Suspension hook
3/8" square	18 V/4.0 Ah **	2.2 (including battery)	Grey colour ring Suspension hook Angle screwdriving head 3/8"
3/8" square	18 V/4.0 Ah **	2.4 (including battery)	Light grey colour ring Suspension hook Angle screwdriving head 3/8"
3/8" square	18 V/4.0 Ah **	2.4 (including battery)	Orange colour ring Suspension hook Angle screwdriving head 3/8"
3/8" square	18 V/4.0 Ah **	2.4 (including battery)	Red colour ring Suspension hook Angle screwdriving head 3/8"
3/8" square	18 V/4.0 Ah **	2.4 (including battery)	Black colour ring Suspension hook Angle screwdriving head 3/8"

* Angle head not included in scope of delivery (see page 37)

** Battery not included in scope of delivery (see page 31)

Accessories

EXACT original accessories



Battery packs and chargers for EXACT 12V and ANGLE EXACT 12V



Battery pack Lithium-ion	Part number	Capacity (Ah)	Voltage (V)	Weight as per EPTA (kg)	Quantity
GBA 12 V/2.0 Ah Professional 	0 602 494 020	2.0	12	27 x 0.175	27
	1 600 Z00 02X	2.0	12	1 x 0.175	1
GBA 12 V/3.0 Ah Professional 	0 602 496 012	3.0	12	28 x 0.18	28
	1 600 A00 X79	3.0	12	1 x 0.18	1
GBA 12 V/6.0 Ah Professional 	0 602 496 013	6.0	12	12 x 0.385	12
	1 600 A00 X7H	6.0	12	1 x 0.385	1
Battery pack protectors	Part number				Quantity
Transparent For the GBA 12V 6.0 Ah 	0 602 496 010				5
Prevent damage to the battery					
Lithium-Ion quick charger	Part number		Voltage (V)	Weight as per EPTA (kg)	Quantity
GAL 12V-40 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		230	18 x 0.45	16
	1 600 A01 9R3		230	1 x 0.45	1
	0 602 496 014 ^{GB}		230	18 x 0.45	16
	1 600 A01 9R4 ^{GB}		230	1 x 0.45	1

Note

Non-European battery devices should be obtained from the local PT country units due to the country-specific design.

Coloured covers, RFID attachment, protectors, adjusting tool, USB stick for EXACT 12V and Angle EXACT 12V



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

Accessories EXACT 12V		Part number	Quantity	
Protectors Prevent damage to the workpiece Suitable for all EXACT 12V centre grip screwdrivers Will not block motor air vents		transparent	0 602 496 000	5
		blue	0 602 496 001	5
		red	0 602 496 002	5
		green	0 602 496 003	5
		yellow	0 602 496 004	5
Protective cap For all 1/4" quick-release chucks. Prevents damage to the workpiece			0 605 500 210	1
Torque adjusting tool Suitable for 12V and 18V clutch			3 607 950 027	1
USB Stick for EXACT Configurator (12V and 18V)			3 607 031 931	1

Accessories ANGLE EXACT 12V		Part number	Quantity	
Protectors Prevent damage to the workpiece Suitable for all ANGLE EXACT 12V angle screwdrivers Will not block motor air vents		transparent	0 602 496 005	5
		blue	0 602 496 006	5
		red	0 602 496 007	5
		green	0 602 496 008	5
		yellow	0 602 496 009	5

Angle heads for Angle EXACT 12V



Accessories		Part number	Max. torque (Nm)	Drive end	Weight (kg)	Quantity
Angle head For ANGLE EXACT 12V 12-400, 6-600, 3-600 Gear ratio 1.4:1		0 607 453 617	27	1/4" square	0.2	1
		0 607 453 618	27	1/4" 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
Adapter		0 602 490 022				1
Angle head Standard		0 602 490 020		3/8" square		1
		0 602 490 021		1/4" quick-change chuck		1
Adapter		0 602 490 022				1
Protective cap For angle heads 0 607 453 617, -618, -620, -630		3 605 500 171		-	-	1

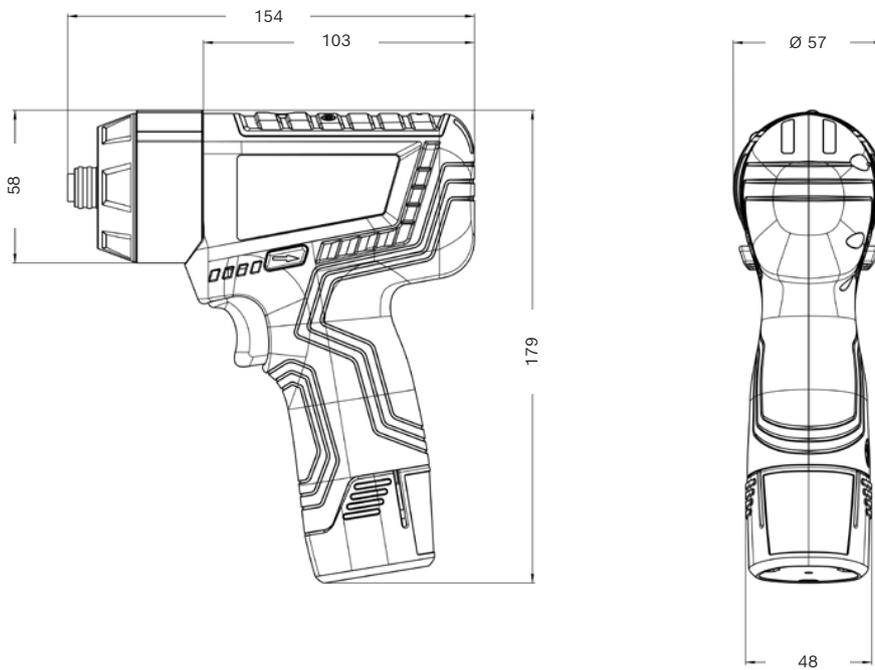
EXACT 12V

Dimensional drawings



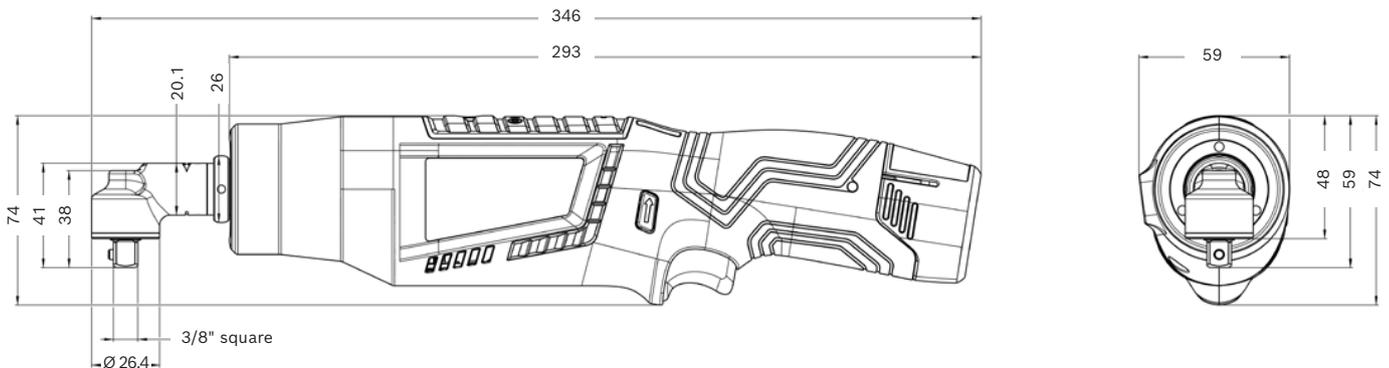
EXACT 12V

Dimensions in mm



ANGLE EXACT 12V

Dimensions in mm



Battery packs and chargers for EXACT ION and ANGLE EXACT ION



Battery pack Lithium-ion	Part number	Capacity (Ah)	Voltage (V)	Weight as per EPTA (kg)	Quantity
18 V/2.0 Ah 	0 602 494 002	2.0	18	12 x 0.35	12
	1 600 Z00 036	2.0	18	1 x 0.35	1
18 V/4.0 Ah 	0 602 494 004	4.0	18	12 x 0.6	12
	1 602 Z00 038	4.0	18	1 x 0.6	1
18 V/5.0 Ah 	0 602 494 003	5.0	18	12 x 0.6	12
	0 600 A00 2U5	5.0	18	1 x 0.6	1
ProCORE 18V/4.0Ah* 	0 602 494 034	4.0	18	15 x 0.515	15
	1 600 A01 6GB	4.0	18	1 x 0.515	1

*) Mixed operation Exact and Nexo possible

Battery pack protectors	Part number	Quantity
Transparent – for the 2.0 Ah Compact battery pack 	0 602 494 014	10
Transparent – for the 4.0 Ah Premium battery pack 	0 602 494 015	10
Transparent – for the 4.0 Ah ProCORE battery pack 	0 602 494 038	10

Prevent damage to the battery
Will not block the CoolPack housing
Suitable for 18 volt Li-Ion battery packs

Lithium-Ion quick charger	Part number	Voltage (V)	Weight as per EPTA (kg)	Quantity
GAL 1880 CV 100% fully charges the Bosch Lithium-Ion batteries  18 V/2.0 Ah in 30 mins, 18 V/4.0 Ah in 35 mins and 18 V/5.0 Ah in 45 mins!	0 602 494 035	230	18 x 0.7	18
	1 600 A00 B8G	230	1 x 0.7	1
	0 602 494 036 (UK Plug)	230		18
	1 600 A00 B8H	230		1

Angle heads for EXACT ION WK and ANGLE EXACT ION



Accessories		Part number	Max. torque (Nm)	Drive end	Weight (kg)	Quantity
Angle head For ANGLE EXACT ION 3-500, 8-1100, 15-500,23-380 Gear ratio 1.4:1		0 607 453 617	27	1/4" square	0.2	1
		0 607 453 618	27	1/4" 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
HD angle head For ANGLE EXACT ION 30-290 (gear ratio 1.4:1)		0 607 451 618	35	3/8" square	0.22	1
Protective cap For angle heads 0 607 453 617, -618, -620, -630		3 605 500 171	-	-	-	1
0 607 451 618		3 605 500 175	-	-	-	1
Protective cap For ANGLE EXACT ION 30-300, 40-220, 50-210, 60-120		3 609 202 A29	-	-	-	1

Colour rings, protectors, protective cap, adjusting tool, USB stick for EXACT ION



Accessories		Part number	Quantity	
Colour rings For quick identification of the torque range Suitable for all EXACT ION centre grip screw-drivers		black	3 600 106 010	5
		red	3 600 106 011	5
		light blue	3 600 106 012	5
		light green	3 600 106 013	5
		orange	3 600 106 014	5
		grey	3 600 106 017	5
		white	3 600 106 019	5
		mixed (1 of each: black, red, blue, green, orange)	3 600 106 015	5
Protectors Prevent damage to the workpiece Suitable for all EXACT ION centre grip screw-drivers Will not block motor air vents		transparent	0 602 494 016	10
		red	0 602 494 018	10
		blue	0 602 494 017	10
		yellow	0 602 494 032	10
		green	0 602 494 019	10
Protective cap For all 1/4" quick-release chucks Prevents damage to the workpiece			3 605 500 210	5
Torque adjusting tool Suitable for 12V and 18V clutch			3 607 950 027	1
USB Stick for EXACT Configurator (12V and 18V)			3 607 031 931	1

Colour rings, protectors for ANGLE EXACT ION

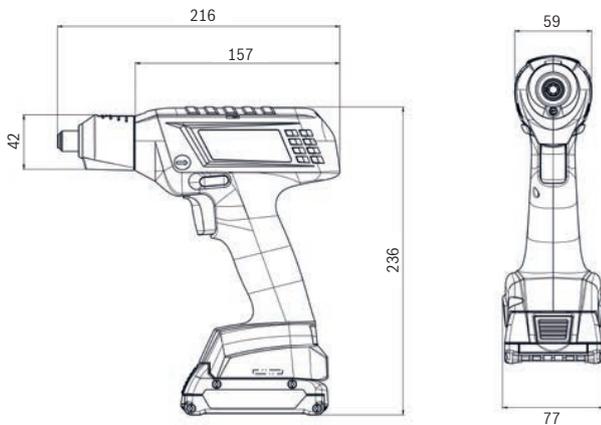


Accessories			Part number	Quantity
Colour rings For quick identification of the torque range Suitable for all ANGLE EXACT ION centre grip screwdrivers		black	3 600 106 027	5
		red	3 600 106 028	5
		light blue	3 600 106 029	5
		light green	3 600 106 030	5
		orange	3 600 106 031	5
		grey	3 600 106 032	5
		white	3 600 106 033	5
Protectors Prevent damage to the workpiece Suitable for all ANGLE EXACT ION centre grip screwdrivers Will not block motor air vents		transparent	0 602 494 010	10
		red	0 602 494 012	10
		blue	0 602 494 011	10
		yellow	0 602 494 033	10
		green	0 602 494 013	10

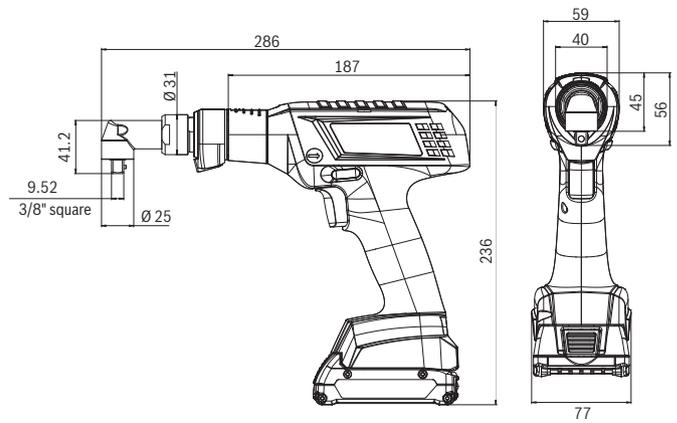
EXACT ION, -WK and ANGLE EXACT ION Dimensional drawings



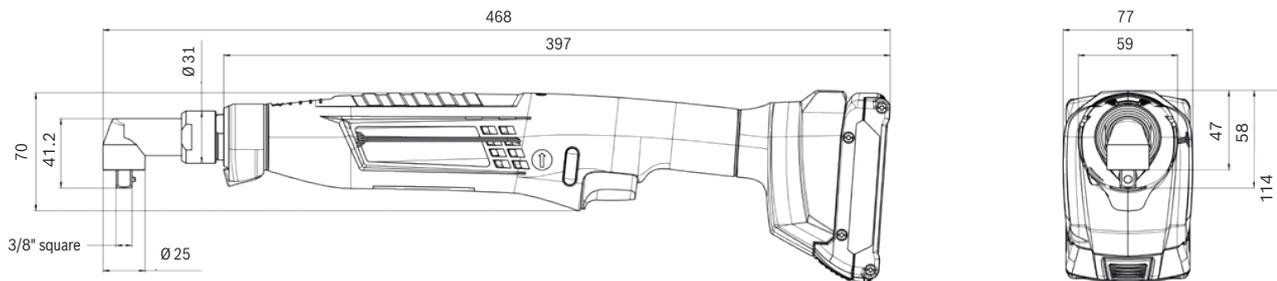
EXACT ION Dimensions in mm



EXACT ION WK Dimensions in mm

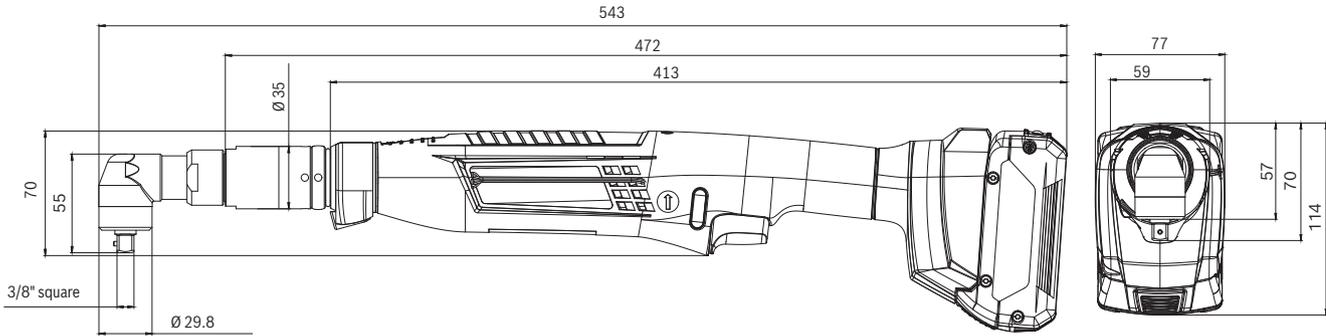


ANGLE EXACT ION model: 3-500, 8-1100 and 15-500 Dimensions in mm



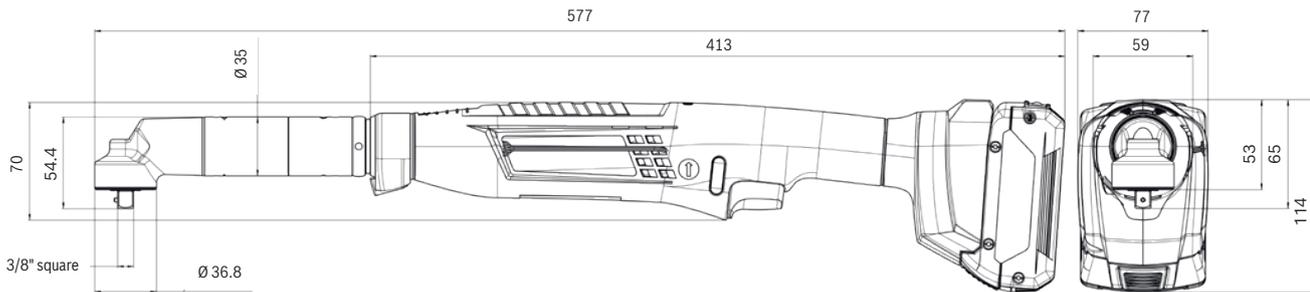
ANGLE EXACT ION model: 23-380 and 30-290

Dimensions in mm



ANGLE EXACT ION model: 30-300, 40-220, 50-210 and 60-120

Dimensions in mm



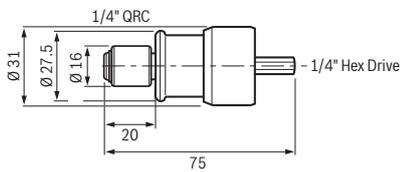
Angel Heads for EXACT ION WK and ANGLE EXACT ION

Dimensional drawings



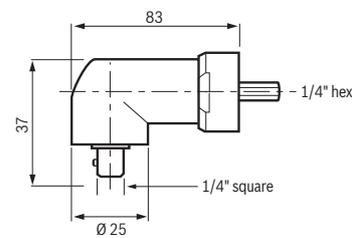
0 607 453 631

Dimensions in mm



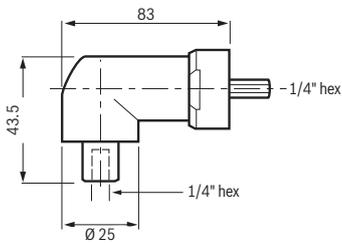
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Dimensions in mm



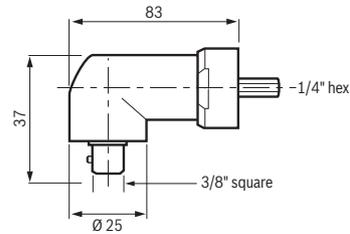
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Dimensions in mm



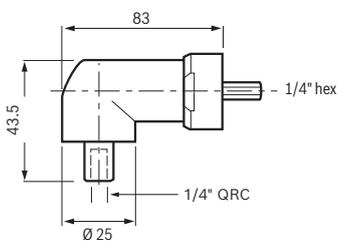
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Dimensions in mm



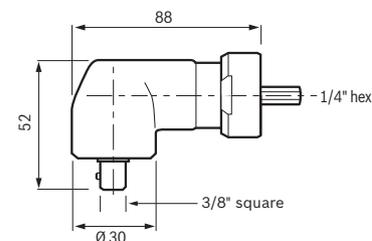
0 607 453 630

Dimensions in mm



0 607 451 618

Dimensions in mm



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Further information online:



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