

# ASSEMBLY TOOLS

EN



High Speed Production | High Quality Tightening

2023

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# POWERTOOLS

Rami Yokota is a family owned trading business from the Netherlands, founded in 1896 and is now managed by the fourth generation. From selling bicycles, sewing machines and later on automotive and motor parts in the early 1900's, the company moved on to importing high quality air tools from Japan in the early 60's. Through continuous development, innovation and attention to service and building of technical skills, Rami Yokota grew to become a highly valued air tool supplier in Western Europe.

Today the focus also includes Eastern Europe as well as Scandinavia. From industrial assembly tools to industrial air tools and air hoists, Rami Yokota caters for a large number of requirements in a large variety of industries.

## CONTINUITY

We have been providing service and quality for over 120 years always aiming to help our customers achieve the highest productivity in the most cost effective way. Our strong network of suppliers and distributors, combined with our knowledge and expertise, means we are able to support end-users in finding the most effective solution in any given environment, thus guaranteeing a problem free, continuous operation for our users.

## RELIABILITY

Every application requires a different solution, whether you require a heavy industrial tool, an electric, cordless or air assembly tool, we can help you to make the best choice. We do this by demonstrating and testing the tool with both our customers and our

distributors. In our well-equipped service workshop we carry out the maintenance of all our tools, we have trained our partners to carry out maintenance for you and can also offer training to your own staff at our purposely built training facility in Amsterdam or at your own works. Our highly trained team are able to offer advice to ensure that you get the best performance out of your equipment.

## CERTAINTY

The brands Yokota and Toku are known for their high Japanese standards and quality products. The precision in the production process guarantees the long lifetime of the equipment. Red Rooster is Rami Yokota's own brand of tools and hoists, developed in cooperation with our technical team and leading industrial manufacturers. We hold extensive stock

in our large warehouses in Belgium and the Netherlands and can be certain to deliver Europe-wide within 24-48 hours.

## PRODUCTIVITY

Rami Yokota will help you to increase the efficiency of your production processes. Our assembly tools are known for their accuracy and speed. The impulse technology that characterizes the majority of our tools, ensures better bolt connections and higher productivity. Improved ergonomics, low vibration and no kick-back enable long periods of stress-free continuous operation for your employees. Our air chain hoists are the fastest on the market and due to the 100% duty rating, your production process can be far more efficient.

# BRANDS



## PRODUCTIVITY & ERGONOMICS

Yokota industrial and Yokota assembly tools are of the highest quality standards imaginable. Yokota's tools are manufactured to last a lifetime with a specific focus on high productivity and ergonomics. Yokota impulse wrenches are used all over the world for tightening applications where accuracy, quality and speed are required. Yokota offers its impulse tools in air, battery and electric versions. A connection to all varieties of communication protocols is also available.



## INDUSTRIAL TOOLS

Red Rooster industrial tools, recognizable by a black logo, have been developed to deliver the highest quality and precision. Their durability and the ability to perform under continuous operation, makes these tools ideal for industrial settings. The Red Rooster line of impulse wrenches is highly regarded and recognized as such by a large variety of (car and truck) manufacturers in Europe.



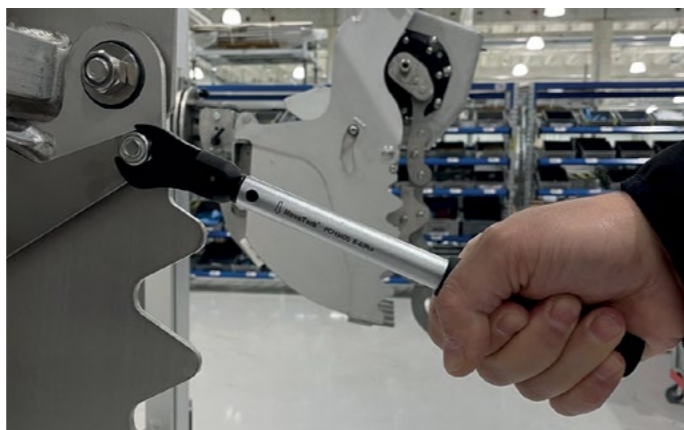
## INDUSTRIAL IMPACT SOCKETS

Action is the world's largest manufacturer of impact sockets. Its impact sockets are durable, of high quality and competitively priced. According to the European EN/ISO 11148-6 standard it is compulsory to use impact sockets on power tools. Action impact sockets can be used for air, electric, hydraulic and battery power tools in a large variety of industries.



## TORQUE WRENCHES

The correct use of a torque wrench ensures that a bolted connection does not loosen or break in practice. This prevents damage to machines or loss of parts. NovaTork develops and produces a wide range of torque wrenches that help you ensure your productivity and quality. The torque wrenches are easy and precise to adjust.



# ASSEMBLY TOOLS

In this catalogue we combine the best of both worlds. Yokota Industrial and Red Rooster Assembly offer you a full range of assembly tools. From 100% accuracy and traceability for a 'Zero Fault Production', to plain and simple solutions that accurately tighten threaded fasteners. Time efficient and with maximum ergonomic benefits; we offer you a perfectly fitting solution!

**EFFICIENT ASSEMBLY SOLUTIONS**

**ASK FOR YOUR SOLUTION**

CUSTOMISED

MAINTENANCE

DURABILITY

PRODUCTIVITY

## EFFICIENT ASSEMBLY SOLUTIONS

Reliability, speed and durability are essential for any assembly line. According to our Efficient Assembly Solutions concept, we focus on the best tool, both for the job and for your environment. This EAS concept combines the choice of power - manual, battery, electrical or air - with design and ergonomic features up to cost and time efficient maintenance.

Together with our specialists you can be certain that your production is efficient, reliable and durable. In the end, we are convinced that our customers are able to assemble according to the highest standards required, with the lowest possible costs and lowest environmental footprint.

**IBT**  
Intelligent Bolt Technology

## INTELLIGENT BOLTING TECHNOLOGY

The Intelligent Bolting Technology makes it possible to program your Assembly tool to the specific application. By programming the tool, the operator is assured that speed, torque and assembly time is correct.

- Adjustable speed
- Slow start function (BA-serie)
- Programmable direction for error free starting
- Reverse can be blocked
- LED Signal for OK or NOK
- Early trigger release judgement

**ATT**  
Advanced Torque Technology

## ADVANCED TORQUE TECHNOLOGY

The Red Rooster Battery Impuls tools are equipped with Advanced Torque Technology. This feature makes it possible to adjust torque time needed for the application. The number of impulses can be programmed in 9 steps, depending how hard or soft the joint is. This assures the operator that an optimum clampforce is reached, with the lowest relaxation.

- Hard joints: Steps 1-3
- Middle soft joints: Steps 4-6
- Soft joints: Steps 7-9

**EPR**  
Efficient Power Regulation

## EFFICIENT POWER REGULATION

Efficient Power Regulation optimizes battery life by:

- Early battery warning
- Battery discharge warning
- Battery shut-off, when battery discharged

# SELECTION GUIDE

## Guideline Values for Tightening Torques

The below guidelines for relations between bolt size, strength class and required torque levels are meant for guidance only.

VDI 2230*		STEEL				STAINLESS STEEL		
Strength classes		5.8	8.8	10.9	12.9	50	70	80
Bolt	Dimension of bolt head mm	Torque Nm	Torque Nm	Torque Nm	Torque Nm	Torque Nm	Torque Nm	Torque Nm
M1.6	-	0,11	0,17	0,24	0,29	0,10	0,20	-
M2	-	0,22	0,35	0,49	0,58	0,25	0,30	-
M2.2	-	0,29	0,46	0,64	0,77	-	-	-
M2.5	-	0,44	0,70	0,98	1,20	0,45	0,60	-
M3	-	0,77	1,20	1,70	2,10	1,00	1,10	-
M3.5	-	1,20	1,90	2,70	3,30	-	-	-
M4	7	1,9	2,9	4,1	4,9	0,9	2	2,7
M5	8	3,7	6	8,5	10	2	4	5,3
M6	10	6,4	10	14	17	3,2	7	9
M8	13	16	25	35	41	8	17	23
M10	17/16	31	49	69	83	16	33	45
M12	19/18	54	86	120	145	27	58	77
M14	22/21	86	135	190	230	43	93	124
M16	24	130	210	295	355	66	142	190
M18	27	180	290	405	485	93	198	265
M20	30	255	410	580	690	130	278	371
M22	32	345	550	780	930	174	374	499
M24	36	440	710	1000	1200	224	480	640
M27	41	650	1050	1500	1800	331	708	-
M30	46	880	1450	2000	2400	450	964	-
M33	50	1200	1900	2700	3250	609	-	-
M36	55	1550	2450	3450	4150	782	-	-
M39	60	2.000	3.200	4.500	5.400	1.013	-	-
M42	65	2.450	3.950	5.550	6.650	-	-	-
M45	70	3.100	4.950	6.950	8.350	-	-	-
M48	75	3.750	5.950	8.400	10.100	-	-	-
M52	80	4.800	7.650	10.800	12.900	-	-	-
M56	85	5.950	9.550	13.400	16.100	-	-	-
M60	90	7.400	11.900	16.700	20.000	-	-	-
M64	95	8.950	14.300	20.100	24.100	-	-	-
M68	100	10.800	17.300	24.300	29.100	-	-	-

\* These torque values are only guide lines and are calculated with friction factor 0,125.

# SELECTION GUIDE

## Why bolt Connections?

Bolted connections are the most common method of assembling two or more parts together. It is common used when parts need to be easily disassembled later, in case of wear, repair or maintenance. This is a very cost-effective solution versus permanent joints, such as glued, welded or riveted. Certain standards must be observed when assembling correctly. Each diameter or type of fastener has its own optimal clamp force to ensure the integrity and safety of the assembled parts. Because clamp force is difficult to measure in practice, a derivative is used: tightening torque. This is a method of determining the amount of force used to tighten a bolt. Tightening torques are determined by industry standards organizations or by product designers.

Bolted joints can fail in some cases. This can be caused by overtightening or too low a torque. Over-tightening means that due to plastic deformation, the bolt loses its clamping force. As a result, the joint will loosen or break due to metal fatigue. Bolts that are insufficiently tightened will in practice also loosen or break due to shear force.

### RISK ANALYSIS

In order to mount bolted connections correctly, various tools are available in different price ranges and from simple to very sophisticated. In order to make the right choice, it is important to first determine what the consequences might be of an incorrectly tightened bolted connection. A so-called risk analysis of bolted connections.

What are the consequences of a loosened bolted connection for people and environment in the immediate area or the product itself? We must also consider the cost of warranty repairs and or image damage. This collectively affects the choice of your tools

### VDI 2862 1-2

A commonly used tool for choosing the right tool is VDI 2862-1 and part 2. This is a guideline drafted by the Verein Deutscher Ingenieure (Association of German Engineers). Part 1 is aimed at the automotive industry and Part 2 at general industry. This guideline has classified bolted connections into an A / B / C class.

### IN CASE OF A LOOSE BOLT CONNECTION:

<b>A</b>	Tool malfunction: danger to life and limb or an environmental incident.
<b>B</b>	Functional failure, resulting in downtime.
<b>C</b>	Functional failure without direct consequences.

The diagram below shows the options for each grade of bolted joint:

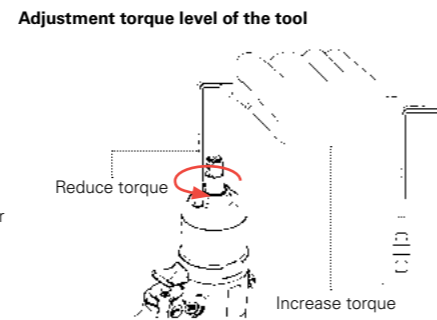
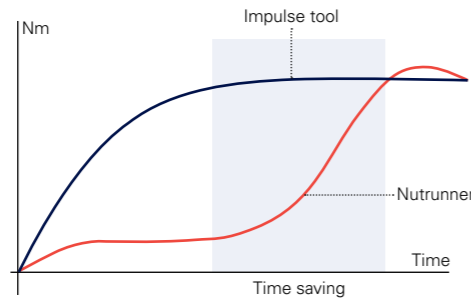
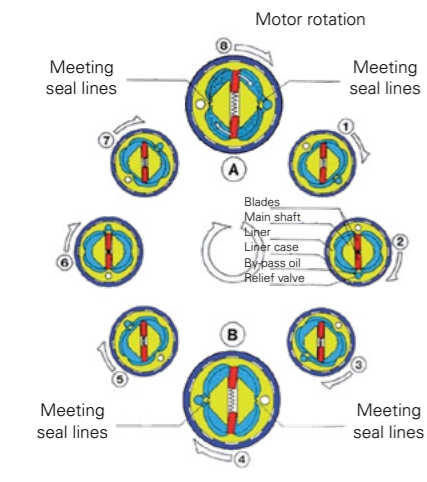
Class	Torque	Connection	Tools	Page
<b>A</b>	Torque controlled, angle monitored	Yokota system wrench with full traceability	<ul style="list-style-type: none"> <li>Yokota YS-e, cordless</li> <li>Yokota E-M, electric</li> <li>Yokota TKA, air</li> </ul>	19
	Torque and angle controlled	Red Rooster with possibility for data registration	<ul style="list-style-type: none"> <li>Red Rooster RRI-BCA &amp; RRI-BCP</li> </ul>	56
<b>B</b>	Electronically controlled shut-off	Yokota cordless impulse wrench with shut-off Yokota Poka Yoke+	<ul style="list-style-type: none"> <li>Yokota YZ-T, cordless</li> <li>YTC-3 with YLA-JQ serie, air</li> </ul>	26
<b>C</b>	Hydraulic impulse wrenches	With & without shut-off	<ul style="list-style-type: none"> <li>Yokota YLA – YLTX – Y – YX</li> <li>Yokota YZ-NP cordless</li> <li>Red Rooster impulse wrenches, air and RRI-BIM cordless</li> </ul>	30
	Screwdrivers / angle nutrunners	With mechanically shut-off	<ul style="list-style-type: none"> <li>RRI-SP – RRI-SL – RRI-SD – RRI-SA</li> <li>RRI-BS – RRI-BA – RRI-BI</li> </ul>	50



# SELECTION GUIDE

## Specified Torque Ranges

With an impulse wrench, you bring optimal clamp force into the bolt connection which helps to reduce assembly time to a minimum. When it comes to accurate and fast assembly to the highest ergonomic standards, impulse technology is indispensable in the automotive industry, in the production of transport equipment and mechanical and plant engineering. The tools are quiet, lightweight and no kick-back.



### HIGH ACCURACY

Impulse wrenches have a twin blade impulse mechanism for sealing oil which gives a high repeatability. The mechanism is designed so that the liner, rotated by the air motor gives an equal torque on both blades and instant rotation torque on the mainshaft (see figure above). A by-pass is designed in the liner so that the oil can escape from the area of high pressure to the area of low pressure at the moment of creating a pulse and the amount of oil flow can be adjusted by the relief valve to control the torque output. Depending on model and setting, the impulse wrenches give 10 - 40 impulses per second. The power is transmitted by oil pressure and therefore the impulse wrenches have a very low Sound and vibration level.

### SAVE TIME - SAVE MONEY

Because of the principal of using hydraulics to reach a certain torque, impulse tools can run at a high RPM. The required torque is reached in a split second. All Yokota and Red Rooster impulse wrenches can be used for hard and soft joints, and give a high accuracy/ repeatability and a low relaxation.

### SPECIFIED TORQUE RANGE

The torque ranges are specified at a dynamic air pressure of 0,6 MPa, lower air pressure will result in lower torque. Please take note that these impulse wrenches are developed for a dynamic air pressure of 0,63 MPa maximum.

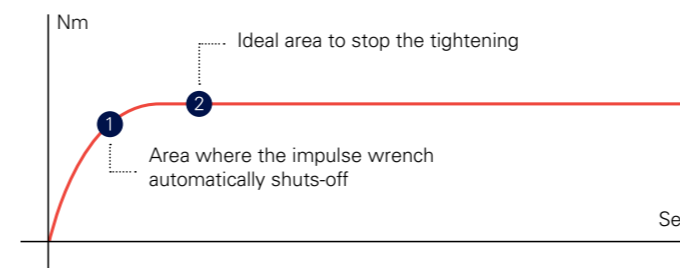
### NOTE

The specified torque range is measured in the laboratory under ideal conditions. Therefore these torque figures are only to be used as a guideline. The actual torque range depends on a variety of working conditions, eg: air pressure, joint hardness, used accessory.

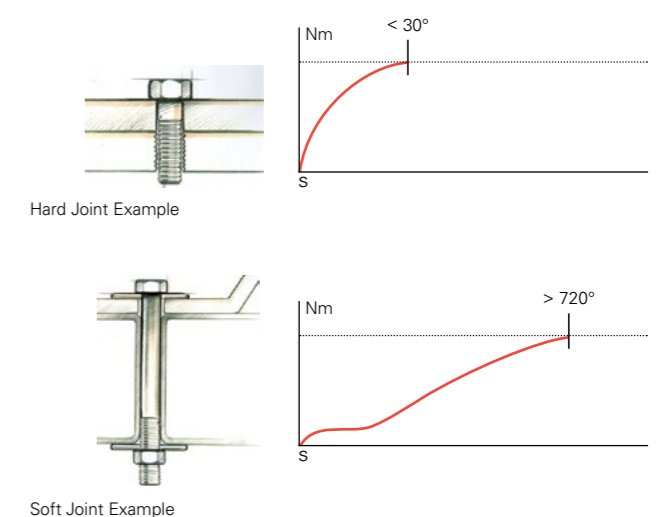
# SELECTION GUIDE

## Specified Torque Ranges

### Impulse Wrenches with and without Shut-Off



### Hard joint and soft joint



### IMPULSE WRENCHES WITHOUT SHUT-OFF ②

Impulse wrenches achieve the highest quality joint if the tightening is finished in this area (horizontal part of the torque curve):

- Highest clampforce with smallest tolerances
- Smallest torque tolerances

### IMPULSE WRENCHES WITH MECHANICAL SHUT-OFF ①

- Shorter operating time
- Operator knows when the tightening is finished
- Highest clamp force with smallest tolerances
- Smallest torque tolerances

### IMPULSE WRENCHES WITH POKA YOKE+ SYSTEM ② IMPULSE WRENCHES WITH CONTROLLED SHUT-OFF:

- Highest clamp force with smallest tolerances
- Smallest torque tolerances
- Shortest optimum operating time
- Operator knows when the tightening is finished
- Operator is informed about OK-NOK of the tightening
- OK joints are counted, no missed tightenings

### IMPULSE WRENCHES WITH INTEGRATED TORQUE TRANSDUCER ②

- Highest clamp force with smallest tolerances
- Smallest torque tolerances
- Shortest optimum operating time
- Operator knows when the tightening is finished
- Operator is informed about OK-NOK of the tightening
- OK joints are counted, no missed tightenings
- Actual tightening torque is measured
- Full documentation
- Zero fault production

We advise to use the impulse wrench up to 80% of its capacity for the highest productivity, accuracy and durability.

### SHUT-OFF IMPULSE WRENCHES SELECTION:

- Hard joint: torque levels up to 95% of the specified torque range
- Soft joint: torque levels up to 85% of the specified torque range

### NON SHUT-OFF IMPULSE WRENCHES SELECTION:

- Hard joint: torque levels up to 100% of the specified torque range
- Soft joint: torque levels up to 90% of the specified torque range

### ACCESSORIES

The size and shape of impact sockets influence the torque result. Extension bars, depending on the length, can lower the torque range with 5-30% inner torx and inner hexagon can lower the torque range with 5-20%.

### FOR THE BEST RESULT OF THE IMPULSE WRENCH, USE:

- Constant stabilized air pressure
- Sleeve drive sockets, impact quality (see pages 129-135)
- Impact quality accessories with the correct dimensions
- Accessories in good condition
- Correct inner diameter and length hose
- Lubricated air

# YOKOTA ASSEMBLY TOOLS



# YOKOTA IMPULSE WRENCHES

Speed · Precision · Quality



PNEUMATIC SYSTEM & IMPULSE WRENCHES

SYSTEM WRENCHES - Page 18-21  
IMPULSE WRENCHES - Page 28-33



CORDLESS SYSTEM & IMPULSE WRENCHES

Page 24-27



ELECTRIC SYSTEM WRENCHES

Page 22-23

# YOKOTA IMPULSE WRENCHES

Intelligent Assembly Solutions

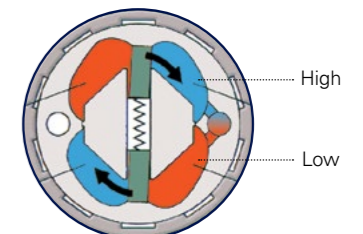
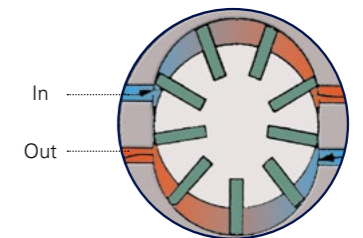
Yokota International is a leading manufacturer of impulse based assembly tools for high-end production facilities. Yokota developed the first impulse air tools over 45 years ago and the benefits of impulse based assembly tools are well-known all over the world these days: fast, light and with the highest clamping force, free from reaction forces. As an expert in the development, design and manufacturing of assembly tools, Yokota also embraces the opportunities of battery technology and has developed a wide range of intelligent electrical and battery system wrenches with Torque & Angle Control.

### FASTER

Yokota impulse wrenches are widely used for tightening jobs in the assembly industry, where accurate torque tolerances are necessary. Impulse tools are light, powerful, small and very importantly, have no kick-back. The Yokota range of impulse tools is increasing fast, starting at 6 Nm to tighten small joints, and goes up to 600 Nm. Evaluation of tightening processes in car assembly shows that tightening joints uses 10% of the total assembly time. Working with faster tools therefore can speed up assembly lines substantially.

### DOUBLE CHAMBER AIR MOTOR

The Yokota Y, YLA, YLT, YED and TKA Series impulse wrenches with double chamber air motor reach the required torque very quickly. The tools have a high number of impulses per second, and therefore very accurate torques can be realized, resulting in increased production speed. The twin blade impulse unit is patented. Yokota's unique impulse mechanism reduces Sound and vibration!





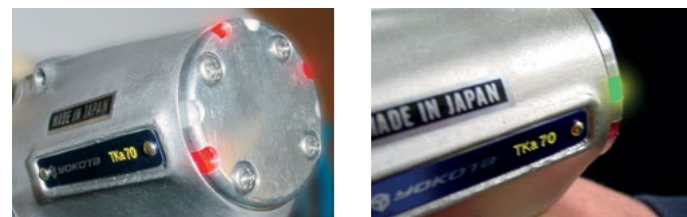
# SYSTEM WRENCHES

## Control Units

Yokota developed its first system wrench more than 30 years ago. The purpose being the tightening of threaded fasteners at a high speed and accuracy, with the possibility of counting bolts in a group, detecting errors during tightening and interacting with the production line control systems, including the exchange of tightening data for traceability purposes. The latest developments are not only with a torque transducer on the main shaft but also with an angle encoder. By controlling the torque and monitoring angle, all errors that can occur during tightening are detected and can be acted upon.

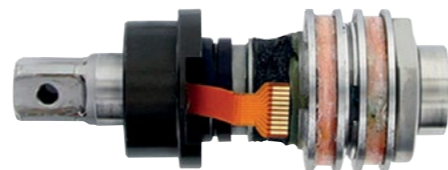


### OPTIONAL ON TKA SYSTEM WRENCHES:



● Red = NOK  
● Green = OK  
Visible from every angle: left, right, from the top and behind.

### TRANSDUCER FOR THE YEX, YED & TKA SERIES



### HIGH ACCURACY

Product liability is essential to car manufacture. All tightened joints have to be correct. For this reason critical joints must be counted, documented and, of course, tightened with the right clamp force. In order to do this, you need an impulse wrench (with a built-in transducer) connected to a controller. This system ensures that only OK joints are counted resulting in "Zero Fault Production". This fail-safe system fits perfectly in the Poka Yoke+ strategy.

### TRANSDUCER FOR THE YEX, YED & TKA SERIES

The strain gauges are positioned on the main shaft, picking up the twisting torque on the main shaft at each impulse as close as possible to the socket. The electric signals are transmitted by induction through the internal and external coils. Due to this principle the Yokota transducer is very reliable, accurate and without wear. The angle sensor is also mounted on the main shaft.

### FEATURES

- Easy to program, according to application specifications
- Torque calculation over several impulses
- Compensation impulses to compensate the relaxation (soft joint)
- Poka Yoke+ proof, line management
- 2-step tightening optional
- 8 setting programs
- 2-way communication through RS-232
- Automatic program change (sequence programmable)
- Build-in timer for group control
- Several input signals
- Several output signals
- Statistics inside CP / CPK
- Memory for 10.000 cycles
- Transducer integrated, direct measurement
- Compact angle encoder
- Torque transducer non - contact type
- Torque and angle curve on PC
- Easy torque adjustment on the tool
- LED or acoustic signal on the tool
- High efficiency air motor
- Shut-off by external solenoid valve

### POSSIBLE ERROR DETECTIONS

- Detection insufficient torque and over torque
- Detection friction out of tolerances
- Detection of too long / too short bolt
- Detection of cross threaded threads
- Detection of crooked threads
- Detection of damaged threads
- Detection of double tightening
- Detection of blind holes

# SYSTEM WRENCHES

## TKA Series: Electronic Torque Control & Angle Monitoring



Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Dimensions A mm	Dimensions B mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
TKA600A	1/4" Hex	6	6.000	11-16	4,5	5,1	1,34	189	21	2,1	71
TKA600	3/8" Sq.	6	6.000	14-20	4,5	5,1	1,34	189	21	2,1	71
TKA700A	1/4" Hex	6-8	7.000	24-33	5,3	6,9	1,34	189	21	2,1	75
TKA700	3/8" Sq.	6-8	7.000	24-33	5,3	6,9	1,34	189	21	2,1	75
TKA800	3/8" Sq.	8	7.000	32-46	5,3	7,1	1,34	196	22	2,1	75
TKA900	3/8" Sq.	8-10	6.500	47-60	6,8	10,5	1,50	204	23	2,1	78
TKA1110	1/2" Sq.	10-12	5.500	65-95	8,8	13,5	1,97	220	25,5	2,2	80
TKA1200	1/2" Sq.	12	5.900	85-130	10	17,2	2,4	223	28	2,2	82
TKA1400	1/2" Sq.	14	5.200	100-160	13	19	3,00	246	29	2,2	84
TKA1500	1/2" Sq.	14-16	4.200	150-220	13,2	18,1	3,4	242	32	2,4	84

### SYSTEM CONFIGURATION



#### YETC-230ER

- Torque control
- Angle monitoring version
- One channel controller  
LAN version optional



#### YETC-330ER2-L

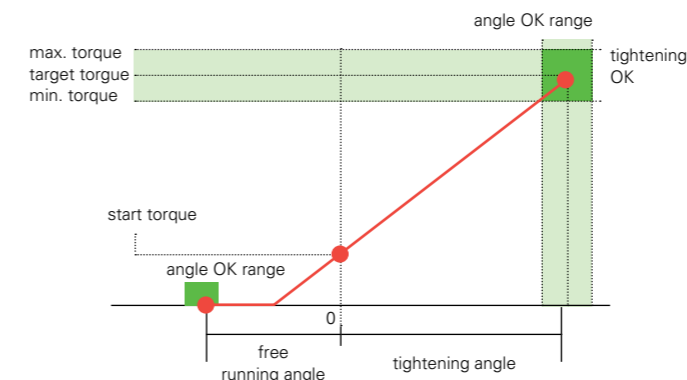
- Torque control
- Angle monitoring version
- Two channel controller
- Two tools can be operated simultaneous
- LAN standard, two IP addresses



#### ANALYSING SOFTWARE

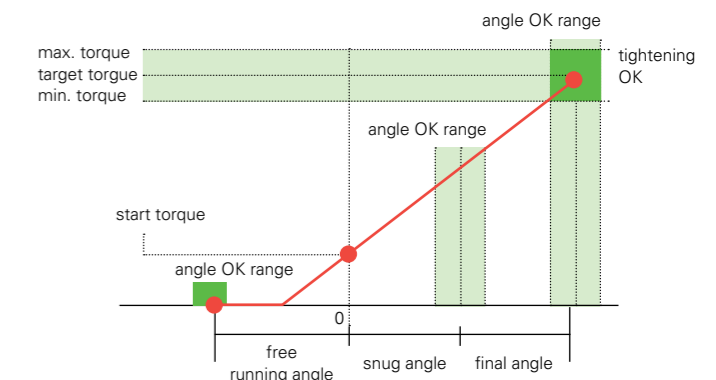
#### YETC-230ER

Torque control & angle monitoring



#### YETC-330ER2-L

Torque control & angle monitoring (including snug torque)



# SYSTEM WRENCHES

TKA/YED Series: Torque Controlled



## Pistol Type



Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
TKA60A	1/4" Hex	6	6.000	11-16	4,5	5,1	1,3	PT 1/4"	6,5	179	22	2,1	71
TKA70A	1/4" Hex	6-8	7.000	20-27	5,3	6,9	1,3	PT 1/4"	6,5	179	22	2,1	75
TKA80A	1/4" Hex	8	7.000	24-33	5,3	7,1	1,3	PT 1/4"	6,5	186	22	2,1	73
TKA60	3/8" Sq.	6	6.000	14-20	4,5	5,1	1,3	PT 1/4"	6,5	179	22	2,1	71
TKA70	3/8" Sq.	6-8	7.000	20-35	5,3	6,9	1,3	PT 1/4"	6,5	179	22	2,1	75
TKA80	3/8" Sq.	8	7.000	32-46	5,3	7,1	1,3	PT 1/4"	6,5	186	22	2,1	73
TKA90	3/8" Sq.	8-10	6.500	47-60	6,8	10,5	1,5	PT 1/4"	9,5	195	24	2,1	78
TKA111	1/2" Sq.	10-12	6.000	65-105	8,8	13,5	1,9	PT 1/4"	9,5	210	26	2,2	80
TKA120	1/2" Sq.	12	5.900	85-130	10,0	17,2	2,4	PT 1/4"	9,5	223	28	2,2	82
TKA140	1/2" Sq.	14	5.200	100-160	13,0	19,0	2,9	PT 1/4"	9,5	235	30	2,2	84
TKA150	1/2" Sq.	14-16	4.200	150-220	13,2	18,1	3,4	PT 1/4"	9,5	242	32	2,4	84
YED-200	3/4" Sq.	20	3.400	155-360	18,3	32,2	6,8	PT 1/2"	12,7	309	40	4,2	86

## Straight Type



Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
YED-240S	1" Sq.	24	3,000	250-600	28,3	52,2	11,2	PT 1/2"	12,7	452	52,5	15,0	92

\* Torque specifications  
All specified torques are measured on the Yokota testers, Series YET, at a dynamic airpressure of 0.63MPa. The Yokota testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.

### MULTI FASTENING CONTROLLER FOR THE TKA, YED, YEX SERIES



**YETC-230EA**  
One channel controller



**YETC-230EA4**  
Four channel controller, several tools can be used at one time



**YETC-330EA2**  
Two channel controller, two tools can be operated simultaneously

# SYSTEM WRENCHES

YEX Series: Torque Controlled



## Pistol Type



Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
YEX-120	3/8" Sq.	4-5	9.000	13-17	4,2	5	1,43	PT 1/4"	6,5	222	23	3	72
YEX-120A	1/4" Hex	4-5	9.000	11-15	4,2	5	1,43	PT 1/4"	6,5	223	23	3	72
YEX-150	3/8" Sq.	5-6	9.000	19-27	4,2	7,8	1,43	PT 1/4"	6,5	222	23	3	72
YEX-150A	1/4" Hex	5-6	9.000	14-22	4,2	7,8	1,43	PT 1/4"	6,5	223	23	3	72
YEX-501	3/8" Sq.	6-8	8.200	25-52	5,3	9,6	2,0	PT 1/4"	9,5	234	26,5	1,6	68
YEX-501A	1/4" Hex	6-8	8.200	23-49	5,3	9,6	2,0	PT 1/4"	9,5	227	26,5	1,6	68
YEX-701	3/8" Sq.	8-10	8.000	45-75	6,7	13,5	2,2	PT 1/4"	9,5	246	26,5	1,6	71
YEX-901	1/2" Sq.	10	6.100	61-104	6,7	12,5	2,7	PT 1/4"	9,5	257	33,5	2,3	73
YEX-1400	1/2" Sq.	10-12	5.900	92-142	8,3	16,5	3,5	PT 1/4"	9,5	266	34	3	80
YEX-1900	1/2" Sq.	12	5.800	115-183	8,3	16,5	4,1	PT 1/4"	9,5	277	39	3	80
YEX-3000	3/4" Sq.	16	4.000	186-284	10,0	20,5	6,4	PT 1/4"	12,7	309	40	4	82

## Straight Type



Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
YEX-100SA	1/4" Hex	5	8.000	4,3-12	3,6	4,4	1,2	PT 1/4"	6,5	285	23	3	77
YEX-120SA	1/4" Hex	4-5	7.000	11-15	4,2	5	1,38	PT 1/4"	6,5	279	23	3	72
YEX-150S	3/8" Sq.	5-6	8.000	19-27	4,2	7,8	1,35	PT 1/4"	6,5	275	23	3,3	73
YEX-150SA	1/4" Hex	5-6	8.000	14-22	4,2	7,8	1,35	PT 1/4"	6,5	276	23	3,3	73
YEX-300S	3/8" Sq.	6	8.000	25-33	5,0	9,1	1,8	PT 1/4"	6,5	312	27	5,3	71
YEX-300SA	1/4" Hex	6	8.000	21-29	5,0	9,1	1,8	PT 1/4"	6,5	313	27	5,3	71
YEX-500S	3/8" Sq.	6-8	7.800	23-49	5,0	9,1	2,1	PT 1/4"	9,5	333	27	6,6	71
YEX-500SA	1/4" Hex	6-8	7.800	21-47	5,0	9,1	2,1	PT 1/4"	9,5	334	27	6,6	71
YEX-700S	3/8" Sq.	8	7.500	33-61	5,8	11,2	2,3	PT 1/4"	9,5	333	27	6,6	72

\* Torque specifications: All specified torques are measured on the Yokota testers, Series YET, at a dynamic airpressure of 0.63MPa. The Yokota testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.

### FOR A SYSTEM YEX, YED OR TKA YOU NEED:

1 x Controller YETC-230 or YETC-330, 1 x Impulse wrench YEX, YED or TKA [ & 1 Solenoid valve YETC-2 SVD and 1 Tool cable which you can find on page 89]

# SYSTEM WRENCHES

## E-M Series, Electric

The Yokota electric system wrenches with integrated torque transducer and angle sensor offer a large reduction of energy consumption, a high degree of speed, accuracy and fantastic work efficiency.

### ELECTRIC DRIVE

- Reduction of energy consumption Lean and Green.
- No need for pneumatic installation with compressor, air piping, hose and solenoid valves.
- No need for lubrication of the tool. Good for the working environment, especially near paint shops.
- Due to the newly developed outer rotor servo motor and the composite body, the Yokota system e-wrench has the lightest weight in its class.

### RELIABLE AND ACCURATE TIGHTENING

- Faulty tightening detection with maximum accuracy due to the use of an integrated torque transducer and also an integrated angle sensor.
- During the tightening process, four different variables are measured and monitored: Torque - Angle - Time - N°. of Impulses.
- Torque transducer and angle sensor located directly at the front of the main shaft, giving the best accuracy of measurement.
- Torque transducer measures directly and transmits the signals contactless.
- The angle sensor is an extremely compact (PAT) rotary encoder that detects both angle as well as direction by 1 degree, signal transmission contactless.
- Detects cross threads, double hits, contamination, etc.

### DURABILITY

- The impulse unit is supported on both ends by ball bearings (PAT.P).
- The impulse unit has a check valve mechanism (PAT.P) to reduce the oil pressure on the main shaft.
- For cooling of the impulse unit it is equipped with a separate fan.
- For cooling of the motor it is equipped with a fan that reduces motor size (and weight at the same time).

### OPERATOR COMFORTABILITY

- The reaction forces are close to zero due to the use of the oil impulse mechanism, even at high torque bolt tightening. Compared with older models, the number of bolt tightening is improved to 20 bolts/minute.
- Special feature to prevent cross threaded tightening: reversely rotating a bolt to a preset angle at the start of tightening.
- High speeds: Free speed (bolt run down) of 4800 RPM.
- High intensity LED light to project on the bolt.
- Combinations of buzzers and LED (Green / Red) for operator feedback on OK/NOK tightenings.
- Motor speed freely adjustable in the controller. For three different speed stages: Start of trigger / Run down / Final tightening.

### CONTROLLER FEATURES

- 20 different parameter settings possible, for a variety of different work pieces.
- Touch screen LCD color display, showing graphs, torque, angle, impulses and more.
- Group management function (counting).
- Result of tightening output through various interfaces: USB, RS-232C, I/O and Ethernet connector.
- Simultaneous use of two tools on one controller is possible.

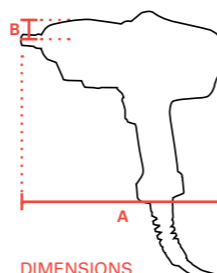


New developed outer rotor motor



Electric system wrenches

Type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm	Weight kg	Sound level dB(A)	Dimensions	
							A mm	B mm
E-M500	3/8" Sq.	M5-M6	300-4.800	3-10	2,10	75	236	32,5
E-M700	3/8" Sq.	M6-M8	300-4.800	7,5-35	2,18	75	236	32,5
E-M900	3/8" Sq.	M8-M10	300-4.800	30-60	2,25	78	236	32,5
E-M1100	1/2" Sq.	M10-M12	300-4.800	50-90	2,52	80	248	32,5



DIMENSIONS



# SYSTEM WRENCHES

## YETC-500 Controller



Electric system wrenches



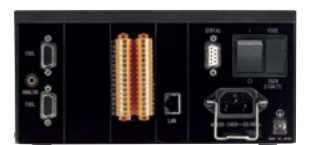
For electric system wrenches with built-in angle and torque sensor. Also available with **Open Protocol, Profinet** and **Ethernet-IP** communication and others upon request. Please contact us for details.



**CONTROLLER**  
One channel controller



**CONTROLLER FRONT PANEL**  
1 Touch panel type LCD  
2 RS-232C serial connector  
3 USB connector



**CONTROLLER BACK PANEL**  
1. Ethernet connector (option)  
2. I/O terminal board  
3. Tool connector 1  
4. Tool connector 2

### CONTROLLER

Description	Order number
LAN Ethernet-Version	YETC-500-10SL
Serial communication	YETC-500-10SO

### AMPLIFIER

Order number	
E-PDA-4	

### EXTENSION TOOLCABLE

Length	Order number
5m	7906-1591-00-01
10m	7906-1591-00-02

### CONTROLLER LINK UP CABLE

Length	Order number
30cm	7906-1592-00-01

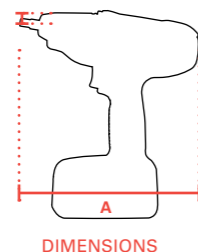
# SYSTEM WRENCHES

## YS-E Series: Cordless

Yokota cordless impulse wrenches are powerful, very accurate and have no kick-back. With a battery power source the tool allows for the highest operational flexibility. This cordless impulse wrench has a built-in torque transducer and angle-sensor on the main shaft and a wireless connection to its controller. Each controller can connect with up to 4 operating cordless system wrenches. The Yokota cordless system wrench is the perfect solution for applications where cables or hoses are disruptive yet still all tightening data requires documentation and traceability.

### MERKMALE

- One controller connects 4 tools
- Complete freedom of movement by use of batteries
- Very low weight / torque ratio
- High speed fastening
- Acoustic and LED signals for tightening status indication
- No kick-back
- Electric (brushless) servo drive, freely RPM adjustable
- Hybrid technology
- 100% check on tightening abnormalities like cross thread, double hit, etc.



Type	Volt. V	Battery type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm	Weight (incl. battery) kg	Vibration m/s <sup>2</sup>	Sound level dB(A)	Dimensions A mm	Dimensions B mm
YS-E600	18V	Li-Ion 2 AH	3/8" Sq.	6	1.200-4.800	7-20	1,75	<2,5	72	214	26
YS-E800	18V	Li-Ion 2 AH	3/8" Sq.	8	1.200-4.800	15-35	1,80	<2,5	76	214	26
YS-E900	18V	Li-Ion 2 AH	3/8" Sq.	8-10	1.200-4.800	30-50	1,90	<2,5	78	226	26
YS-E950	18V	Li-Ion 2 AH	3/8" Sq.	10	1.200-4.800	40-60	1,94	<2,5	78	226	26

\* Battery and charger have to be ordered separately.

### ACCESSORIES



Type	
Wireless unit	WU-1
Display	DS-2
Programming console	PC-2
Li-Ion-Battery (0,41 kg) 18V 2 Ah	BPL-1820
Charger 18 Volt (40 Min.)	BC2075MX

### RUBBER PROTECTION COVERS

Yokota offers a seamless integration in the 'anti-scratch' policy with rubber protection covers that are supplied as standard but can also be ordered separately.

	Rubber protection cover	
	YS-E600	0444-0029-00-00
	YS-E800	0445-0029-00-00
	YS-E900	0446-0029-00-00
	YS-E950	0447-0029-00-00
	for battery	0446-0029-00-01

# SYSTEM WRENCHES

## YS-E Series: Cordless

### SYSTEM CONFIGURATION

- Possible to connect 4 tools with the wireless unit
- WLAN communication between tool and controller
- Poka Yoke+ compatible
- Traceability tightening data
- LAN and RS 232 interface
- I/O terminal for input and output signals



### WIRELESS UNIT WU-1

- Parameter input with PC-2 or computer
- USB: setting data back up and restore, memory read out.
- Memory for 10.000 cycles per tool
- Tightening results on DS-2 and/or PC-2
- 4 display connection
- Optional: open protocol



### DISPLAY DS-2

- Display shows: tool number, program, torque, OK/NOK, angle, number of pulses, remaining tightenings.



### PROGRAMMING CONSOL PC-2

- Display shows: tool number, program, torque, OK/NOK, angle, number of pulses, remaining tightenings.



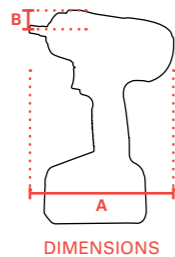
# SHUT-OFF IMPULSE WRENCHES

YZ-T Series: Cordless

Yokota YZ-T cordless impulse wrenches with shut-off are powerful, very accurate and most important, have no kick-back. The very compact design offers great accessibility to the joint. Tightening bolts with torque levels up to 60 Nm with very high speed and remarkably low reaction forces. Adjusting the tool settings for the specific bolted joint is done by Programming Console PC-2-F and cable CC-1. Auditory and visual feedback on the result of the screwing process.

**FEATURES**

- With built-in retention in the square drive
- No kickback
- High speed fastening
- Hybrid technology
- Servo drive brushless motor



Type	Square Drive / Hexagon	Bolt capacity mm	Speed 1 RPM <sup>(1)</sup>	Speed 2 RPM <sup>(2)</sup>	Speed 3 RPM <sup>(3)</sup>	Torque Nm	Weight with battery	Dimensions A mm B mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
YZ-T600A	1/4" Hex	6	1.200-1.500	1.500-3.000	1.500-4.800	5-18	1,4	161 29,5	<2,5	67
YZ-T600E	3/8" Sq.	6	1.200-1.500	1.500-3.000	2.000-4.800	7-20	1,4	161 29,5	<2,5	67
YZ-T800A	1/4" 6K	6-8	1.200-1.500	1.500-3.000	2.000-4.800	10-30	1,5	166 29,5	<2,5	68
YZ-T800E	3/8" 4K	6-8	1.200-1.500	1.500-3.000	2.000-4.800	15-35	1,5	166 29,5	<2,5	68
YZ-T900E	3/8" Sq.	8-10	1.200-1.500	1.500-3.000	2.000-4.800	30-50	1,6	173 29,5	<2,5	69
YZ-T950E	3/8" Sq.	8-10	1.200-1.500	1.500-3.000	2.000-4.800	40-60	1,65	173 29,5	<2,5	70

<sup>(1)</sup> From the first stage of the trigger <sup>(2)</sup> From the second stage of the trigger <sup>(3)</sup> From shifting level

**ACCESSORIES**



Type	Order number
Li-Ion-battery 18V 2Ah (0,41 kg)	BPL-1820
Charger 18V 2Ah (40 Min.)	BC2075MX
Programming console (w/o Kabel)	PC-2-F
Cable (for PC-2-F <-> YZ-T)	CC-1
Programming cable (for YZ-T <-> Laptop)	CC-2
Micro-USB Cable 1,8 meter (for CC-2)	8317109-USB

**RUBBER PROTECTION COVERS**

Yokota offers a seamless integration in the 'anti-scratch' policy with rubber protection covers that are supplied as standard but can also be ordered separately.

Type	Order number
YZ-T600A	0458-0029-00-00
YZ-T600E	0458-0029-00-00
YZ-T800A	0459-0029-00-00
YZ-T800E	0459-0029-00-00
YZ-T900E	0460-0029-00-00
YZ-T950E	0461-0029-00-00
BPL-1820	0446-0029-00-01

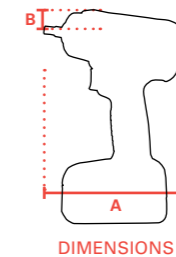
# NON SHUT-OFF IMPULSE WRENCHES

YZ-NP Series: Cordless

Yokota cordless non shut-off impulse wrenches are powerful, very accurate and most important, have no kick-back. The very compact design offers great accessibility to the joint. Tightening bolts M6 up to M10 with torque levels up to 65 Nm with very high speed and remarkably low reaction forces. The combination of adjustment of the relief valve and speed setting of the motor gives a great fit-for-purpose adaptation to the specific bolted joint.

**FEATURES**

- No kick-back
- High speed fastening
- Hybrid technology
- Servo drive brushless motor
- Torque adjustment
- Mechanical relief valve adjustment
- 4 RPM settings, 2000/3000/4000/4800 RPM, to be set according to application/joint conditions



Type	Volt. V	Battery type	Square / Hex drive	Bolt capacity mm	RPM	Torque Nm	Weight kg without battery with battery	Vibration m/s <sup>2</sup>	Sound level dB(A)	Dimensions A mm B mm
YZ-NP600A	18V	Li-Ion 2 AH	1/4 Hex	6	2000-4.800	7-20	1 1,41	<2,5	72	152 29,5
YZ-NP600E	18V	Li-Ion 2 AH	3/8" Sq.	6	2000-4.800	8-25	1 1,41	<2,5	72	152 29,5
YZ-NP800A	18V	Li-Ion 2 AH	1/4 Hex	6-8	2000-4.800	7-30	1,05 1,46	<2,5	75	157 29,5
YZ-NP800E	18V	Li-Ion 2 AH	3/8" Sq.	6-8	2000-4.800	9-35	1,05 1,46	<2,5	75	157 29,5
YZ-NP900E	18V	Li-Ion 2 AH	3/8" Sq.	8-10	2000-4.800	16-60	1,20 1,61	<2,5	77	164 29,5
YZ-NP950E	18V	Li-Ion 2 AH	3/8" Sq.	8-10	2000-4.800	20-65	1,25 1,66	<2,5	78	164 29,5

\*Battery and charger have to be ordered separately

**ACCESSORIES**



Type	Order number
Li-Ion-battery 18V 2Ah (0,41 kg)	BPL-1820
Charger 18V 2Ah (40 Min.)	BC2075MX

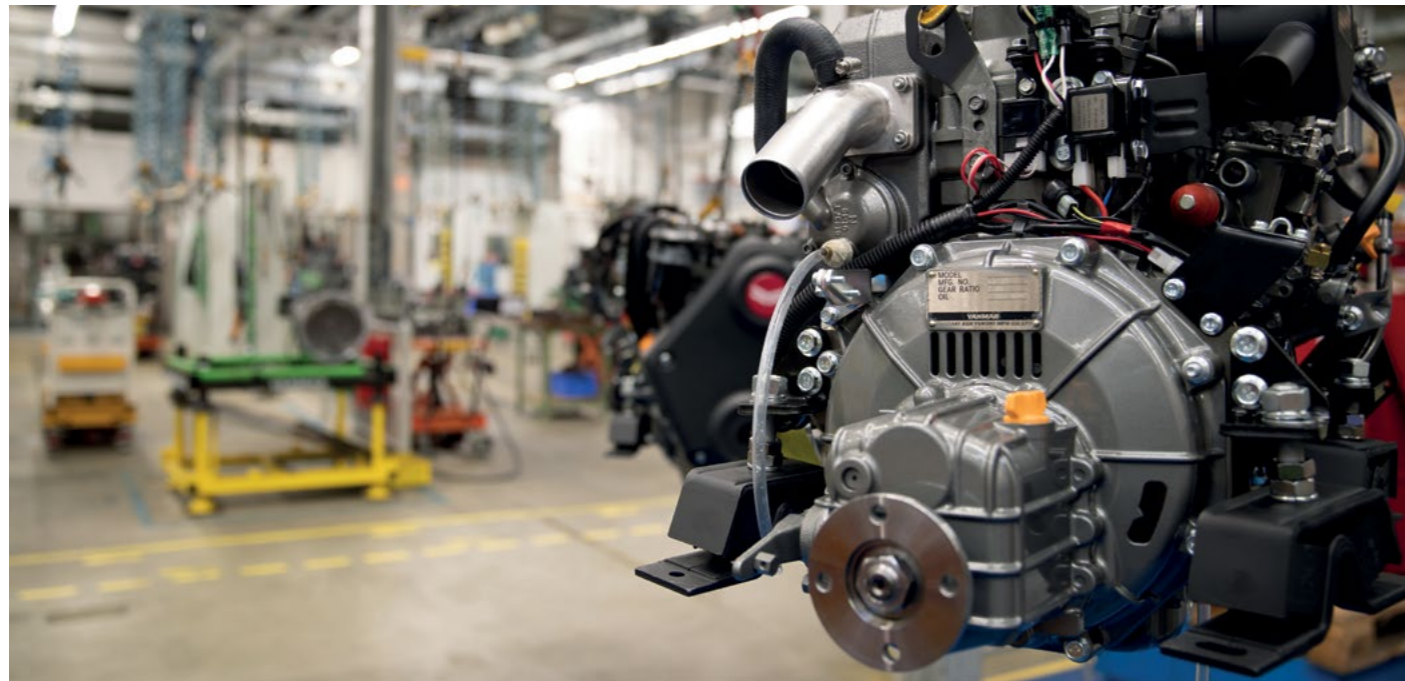
**RUBBER PROTECTION COVERS**

Yokota offers a seamless integration in the 'anti-scratch' policy with rubber protection covers that are supplied as standard but can also be ordered separately.

Type	Order number
YZ-NP600A	0454-0029-00-00
YZ-NP600	0454-0029-00-00
YZ-NP800A	0455-0029-00-00
YZ-NP800	0455-0029-00-00
YZ-NP900	0456-0029-00-00
YZ-NP950	0457-0029-00-00
BPL-1820	0446-0029-00-01

# POKA YOKE+ SYSTEM

YLA-JQ & Y-JQ Series



## POKA YOKE+ : FUNCTIONING PRINCIPLE

The system is controlled by measuring the air pressure at the inlet side of the air motor. This air pressure varies from free running to impulsing. By this measured air pressure the controller detects contact of the bolt head (point 2). Upon contact, the adjustable timer gives the shut-off signal (point 3). Adjustability of the timer takes care of adoption to either hard or soft joints. Similar, the controller detects double hits and trigger release before shut-off.

## SUPERIOR CLAMP FORCES

In conventional shut-off tools point 2 is the shut-off point. Due to the above mentioned principle of the Poka Yoke+ controller, the relaxation is minimized and the correct torque and clampforce are achieved. This system is more accurate than shut-off or standard impuls wrenches. The torque is adjusted at the impulse mechanism. In combination with the parameters in the controller YTC-3, the most reliable shut-off is achieved.

### CONTROLLER YTC-3

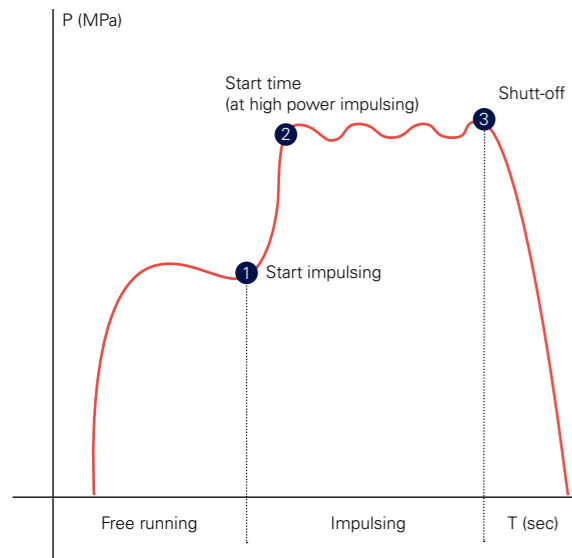


- Power supply: 100 - 240V AC
- Input: 8
- Relay output: 4 opening and shutting capacity: Max. DC-48W, AC-220VA)
- Output for solenoid valve: 1(DC24V 2W)

### SYSTEM FEATURES



- Group control
- Controlled shut-off
- Double tightening detection
- Interlock with assembly line
- Error judgement on trigger release
- Teach-in mode for programming
- Oil deterioration indication



The system is more accurate than shut-off or standard impulse wrenches.

# POKA YOKE+ SYSTEM

YLA-JQ & Y-JQ Series



## Lightweight YLA-JQ Series

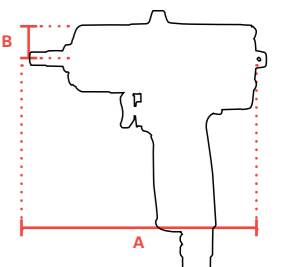


Type	Square/Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
YLA60A-JQ	1/4" Hex	6	4.000	11-20	5,0	5,5	0,78	PT 1/4"	6,5	130	22	1,4	71
YLA60E-JQ	3/8" Sq.	6	4.000	13-22	5,0	5,5	0,78	PT 1/4"	6,6	130	22	1,4	71
YLA70A-JQ	1/4" Hex	6-8	7.000	20-28	5,5	6,1	0,80	PT 1/4"	6,5	132	22	1,4	74
YLA70E-JQ	3/8" Sq.	6-8	7.000	20-35	5,5	6,1	0,80	PT 1/4"	6,5	132	22	1,4	74
YLA80A-JQ	1/4" Hex	8	7.000	24-35	5,8	9,0	0,90	PT 1/4"	6,5	139	22	1,2	75
YLA80E-JQ	3/8" Sq.	8	7.000	33-50	5,8	9,0	0,90	PT 1/4"	6,5	139	22	1,2	75
YLA90E-JQ	3/8" Sq.	8-10	6.500	47-70	6,7	11,8	1,00	PT 1/4"	10	148	24	1,2	78
YLA110E-JQ	1/2" Sq.	10-12	6.000	65-105	9,6	13,1	1,40	PT 1/4"	10	164	26	1,8	81
YLA120E-JQ	1/2" Sq.	12	6.600	80-130	10,0	15,6	1,80	PT 1/4"	10	172	28	2,2	82
YLA140E-JQ	1/2" Sq.	14	6.000	100-160	13,0	18,9	2,20	PT 1/4"	10	190	30	2,4	84

### Y-JQ SERIES

Type	Square/Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	Dimensions B mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
Y-41A-JQ	1/4" Hex	4-6	9.300	6-12	5,0	8,8	0,73	PT 1/4"	6,5	141	17	2,1	72
Y-46A-JQ	1/4" Hex	5-6	8.000	16-26	5,8	9,6	0,87	PT 1/4"	6,5	158	18	1,0	80
Y-46E-JQ	3/8" Sq.	5-6	8.000	16-30	5,8	9,6	0,87	PT 1/4"	6,5	158	18	1,0	80
Y-140JQ	3/4" Sq.	16	3.300	160-270	13,1	18,4	3,20	PT 1/4"	13	226	36	3,3	82

\* Torque specifications: All specified torques are measured on the Yokota testers, Series YET, at a dynamic airpressure of 0.63MPa. The Yokota testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.



DIMENSIONS

Rubber protection covers for YLa-JQ and Y-JQ impulse wrenches are included in the box. Accessories for impulse wrenches are on page 74-75.

# SHUT-OFF IMPULSE WRENCHES



## YLTX Series



### 0,5-0,6 MPA SERIES

Type	Square/hex drive	Bolt capacity mm	RPM	Torque Nm* 0,5-0,6 MPA	Load aircons. l/s	No-load aircons. l/s	Inlet thread	Weight kg	Hose diameter mm	Dimensions A mm	B mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
YLTX50A	1/4" Hex	5	4.300	4,5-8	4,2	4,6	PT 1/4"	0,95	6,5	164	22,5	1,1	70
YLTX60A	1/4" Hex	6	5.300	6-13	5,5	5,6	PT 1/4"	0,95	6,5	164	22,5	1,4	72
YLTX70A	1/4" Hex	6-8	6.800	13-28	6,0	8,8	PT 1/4"	1,01	6,5	177	23	1,8	74
YLTX50E	3/8" Sq.	5	4.300	4,5-8	4,2	4,6	PT 1/4"	0,95	6,5	164	22,5	1,1	72
YLTX60E	3/8" Sq.	6	5.300	7-15,5	5,5	5,6	PT 1/4"	0,95	6,5	164	22,5	1,4	72
YLTX70E	3/8" Sq.	6-8	6.800	15-32	6,0	8,8	PT 1/4"	1,01	6,5	177	23	1,8	74
YLTX80E	3/8" Sq.	8	6.800	30-55	7,3	9,2	PT 1/4"	1,12	9,5	187	24,5	1,9	78
YLTX110E	1/2" Sq.	10-12	5.800	50-85	8,3	13,5	PT 1/4"	1,51	9,5	194	28,5	1,8	81
YLTX120E	1/2" Sq.	12	5.400	70-115	8,6	14,6	PT 1/4"	1,79	9,5	201	31	2,2	83
YLTX140E	1/2" Sq.	14	5.200	110-150	11,8	16,6	PT 1/4"	2,08	9,5	214	32,5	5,2	85
YLTX150	3/4" Sq.	16	4.400	140-210	11,8	17	PT 1/4"	2,95	9,5	237	38,5	5,3	84

### FEATURES

- Maximum accuracy: extremely accurate and fast
- Maximum ergonomics: ergo touch / ergo grip / ergo trigger / low Sound / low vibration
- Minimal environmental impact: reduction of CO2 emission
- Double chamber air motor: compact high efficiency
- Oil-free: can be used with non lubricated air

\* Rubber protection covers for all YLTX-series impulse wrenches are included in the box.

### YLTX-J



All YLTX models are also available as J-version: signal hose for detecting shut-off, to connect to counting systems (PLC), line control etc.

# NON SHUT-OFF IMPULSE WRENCHES



## YLA Series



Type	Square/Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions A mm	B mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
YLA60A	1/4" Hex	6	4.000	9-20	5	5,5	0,78	PT 1/4"	6,5	130	22	1,4	71
YLA70A	1/4" Hex	6-8	7.000	20-28	5,5	6,1	0,8	PT 1/4"	6,5	132	22	1,4	74
YLA80A	1/4" Hex	8	7.000	24-35	5,8	9	0,9	PT 1/4"	6,5	139	22	1,2	75
YLA60E	3/8" Sq.	6	4.000	13-22	5	5,5	0,78	PT 1/4"	6,5	130	22	1,4	71
YLA70E	3/8" Sq.	6-8	7.000	20-35	5,5	6,1	0,8	PT 1/4"	6,5	132	22	1,4	74
YLA80E	3/8" Sq.	8	7.000	33-50	5,8	9	0,9	PT 1/4"	6,5	139	22	1,2	75
YLA90E	3/8" Sq.	8-10	6.500	47-70	6,7	11,8	1,0	PT 1/4"	9,5	148	24	1,2	78
YLA110E	1/2" Sq.	10-12	6.000	65-105	9,6	13,1	1,4	PT 1/4"	9,5	164	26	1,8	81
YLA120E	1/2" Sq.	12	6.600	80-130	10	15,6	1,8	PT 1/4"	9,5	172	28	2,2	82
YLA140E	1/2" Sq.	14	6.000	100-160	13	18,9	2,2	PT 1/4"	9,5	190	30	2,4	84

\* Note: Torque values are to be used as guidance only.

### FEATURES

- Maximum accuracy: extremely accurate and fast
- Maximum ergonomics: ergo touch / ergo grip / ergo trigger / low Sound / low vibration
- Minimal environmental impact: reduction of CO2 emission
- Double chamber air motor: compact high efficiency
- Oil-free: can be used with non lubricated air

\* Rubber protection covers for all YLA-series impulse wrenches are included in the box.

### CUSTOM MADE IMPULSE WRENCHES



For any application where access to the joint is difficult, we are able to provide tailor made impulse wrenches.

Contact us for more information.

# NON SHUT-OFF IMPULSE WRENCHES



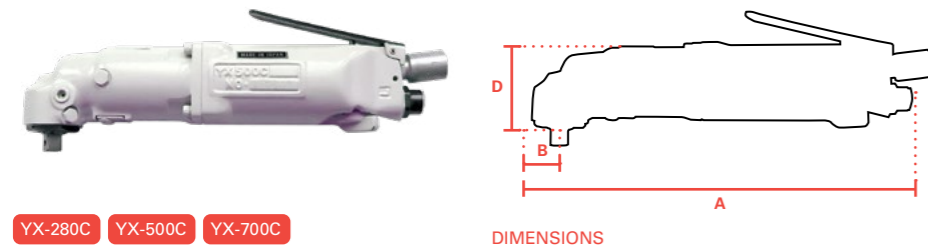
Y Series, YX Series



Type	Square/hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions		Vibration m/s <sup>2</sup>	Sound level dB(A)
										A mm	B mm		
Y-40SA <sup>1)</sup>	1/4" Hex	4-6	10.000	6-12	5,0	7,6	0,84	PT 1/4"	6,5	229	17	4,6	69
Y-41A	1/4" Hex	4-6	9.300	6-12	5,0	8,8	0,73	PT 1/4"	6,5	141	17	2,1	72
Y-46E	3/8" Sq.	5-6	8.000	16-30	5,8	9,6	0,87	PT 1/4"	6,5	158	18	1,0	80
Y-46A	1/4" Hex	5-6	8.000	16-26	5,8	9,6	0,87	PT 1/4"	6,5	158	18	1,0	80
Y-140	3/4" Sq.	16	3.300	160-270	13,1	18,4	3,20	PT 1/4"	12,7	226	36	3,3	82

1) The Y-40SA is a straight model, all other types are pistol models.

\* Torque specifications  
All specified torques are measured on the Yokota testers, Series YET, at a dynamic airpressure of 0.63MPa. The Yokota testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.



## ANGLE MODELS

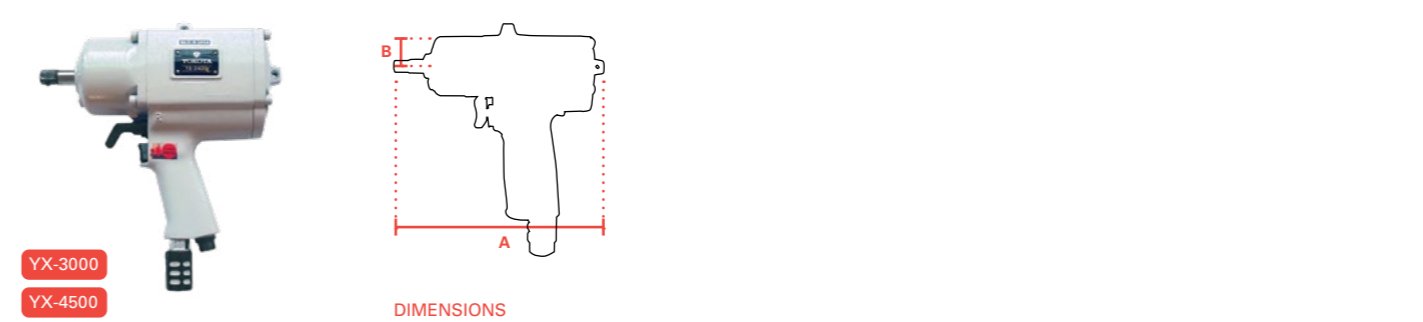
Type	Square/Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions			Vibration m/s <sup>2</sup>	Sound level dB(A)
										A mm	B mm	D mm		
YX-280C	3/8" Hex	4-6	10.000	15-24	5,0	7,8	1,40	PT 1/4"	6,5	257	16	50	4	83
YX-500C	3/8" Hex	6-8	7.500	30-45	5,0	8,6	1,50	PT 1/4"	6,5	266	18	66	10	73
YX-700C	3/8" Hex	8-10	5.000	36-50	5,8	10,8	1,80	PT 1/4"	6,5	289	18	70	8,6	72

\* Torque specifications  
All specified torques are measured on the Yokota testers, Series YET, at a dynamic airpressure of 0.63MPa. The Yokota testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.

# NON SHUT-OFF IMPULSE WRENCHES



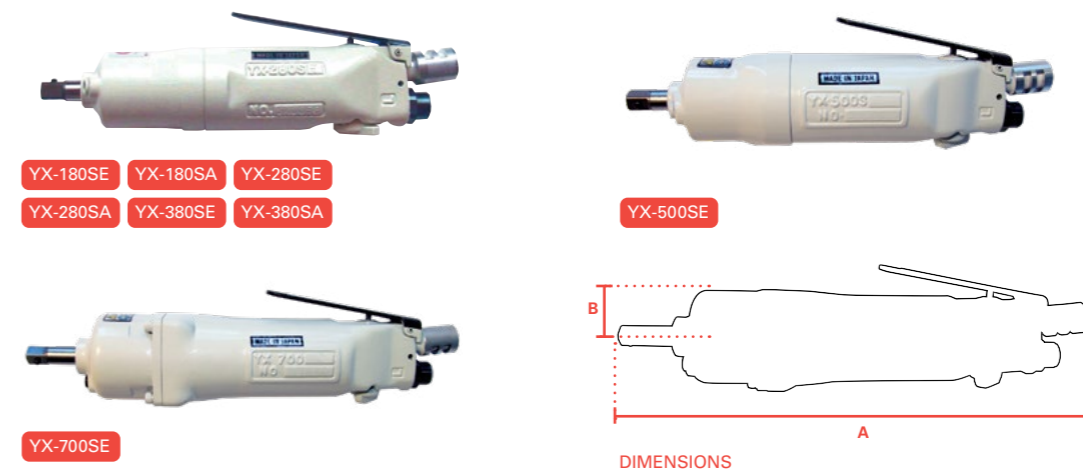
YX Series



## PISTOL MODELS

Type	Square/Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions		Vibration m/s <sup>2</sup>	Sound level dB(A)
										A mm	B mm		
YX-3000	3/4" Sq.	16-18	4.700	200-304	10,0	20,5	4,60	PT 1/4"	12,7	246	40,0	3,9	80
YX-4500	3/4" Sq.	18-20	3.400	392-490	11,6	24,0	9,80	PT 3/8"	12,7	300	65,0	3,9	87

\* Torque specifications  
All specified torques are measured on the Yokota testers, Series YET, at a dynamic airpressure of 0.63MPa. The Yokota testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.



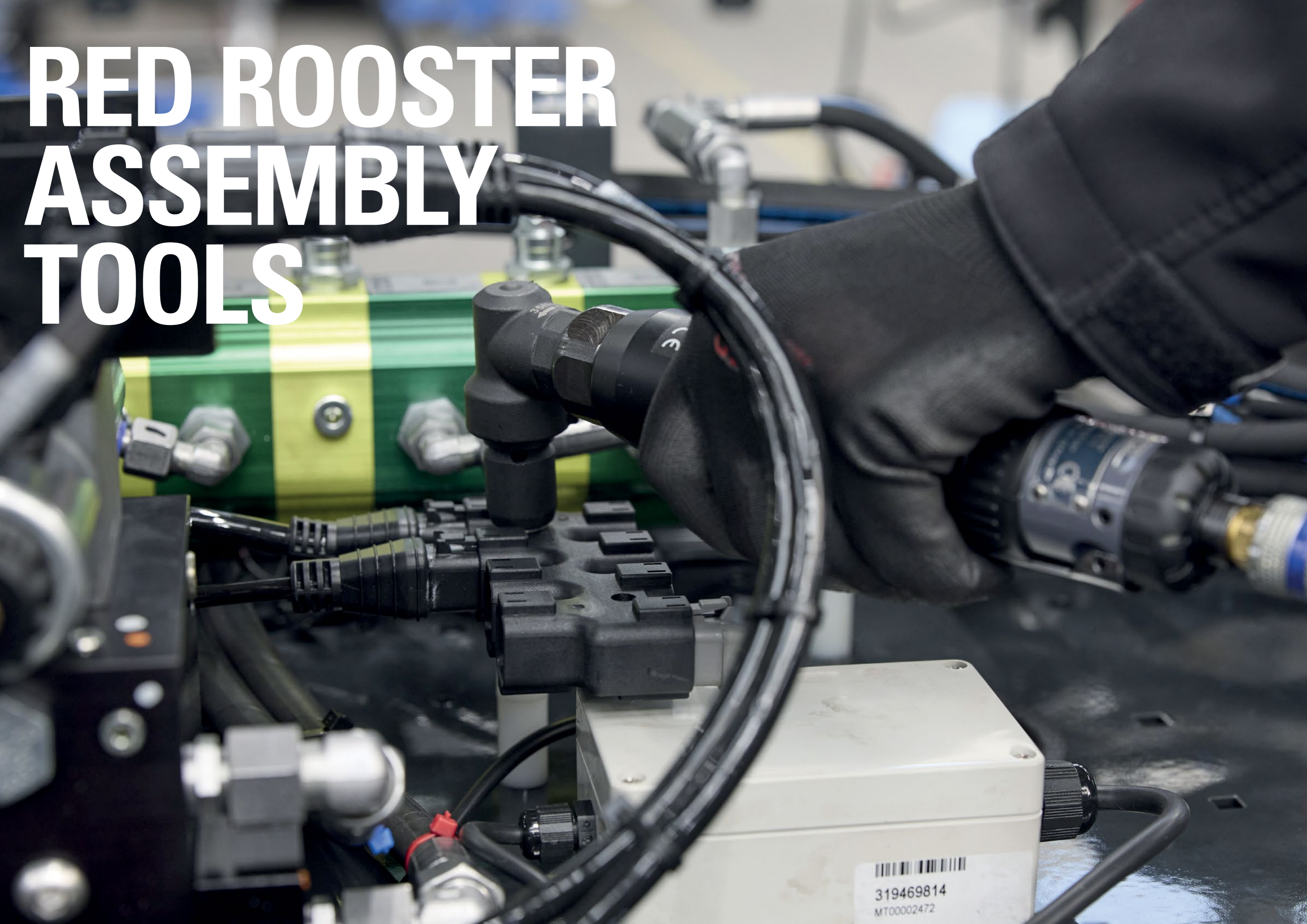
## STRAIGHT MODELS

Type	Square/Hex drive	Bolt capacity mm	RPM	Torque Nm*	Load aircons. l/s	No-load aircons. l/s	Weight kg	Inlet thread	Hose diameter mm	Dimensions		Vibration m/s <sup>2</sup>	Sound level dB(A)
										A mm	B mm		
YX-180SE	3/8" Sq.	4-6	10.500	19-31	4,2	7,8	0,96	PT 1/4"	6,5	220	23	3,3	73
YX-180SA	1/4" Hex	4-6	10.500	18-30	4,2	7,8	0,96	PT 1/4"	6,5	220	23	3,3	73
YX-280SE	3/8" Sq.	6-8	10.500	25-38	5,0	9,1	1,02	PT 1/4"	6,5	232	23	4	73
YX-280SA	1/4" Hex	6	10.500	20-34	5,0	9,1	1,02	PT 1/4"	6,5	232	23	4	73
YX-380SE	3/8" Sq.	8	10.000	32-47	5,0	9,1	1,18	PT 1/4"	6,5	232	25,5	3,3	75
YX-380SA	1/4" Hex	6-8	10.000	29-44	5,0	9,1	1,18	PT 1/4"	6,5	232	25,5	3,3	75
YX-500SE	3/8" Sq.	8-10	7.500	31-55	5,0	11,2	1,25	PT 1/4"	6,5	241	25,5	6,6	74
YX-700SE	3/8" Sq.	8-10	5.000	35-62	5,8	13,5	1,50	PT 1/4"	6,5	262	26,5	6,6	72

\* Torque specifications  
All specified torques are measured on the Yokota testers, Series YET, at a dynamic airpressure of 0.63MPa. The Yokota testers have a static transducer, the specified torques are therefore to be used as a guidance only. In general the torque range will be lower in case of using lower airpressure, extension bars, torx or hexagon inset sockets, soft joints, etc.



# RED ROOSTER ASSEMBLY TOOLS



# RED ROOSTER ASSEMBLY TOOLS

*Productivity · Flexibility · Accuracy*



PNEUMATIC IMPULSE WRENCHES

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CORDLESS IMPULSE WRENCHES

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PNEUMATIC SCREW-DRIVERS

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CORDLESS SCREW-DRIVERS

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CORDLESS WRENCHES

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PNEUMATIC RIVETERS

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# RED ROOSTER ASSEMBLY TOOLS

*Productivity · Flexibility · Accuracy*

Red Rooster Assembly offers you a full range of high quality assembly tools. With years of experience in the assembly industry and through intensive cooperation with our customers, we have developed an extensive and complete range with specific attention for ergonomics, efficiency and durability. The assortment of Red Rooster Assembly tools is often complemented when new developments take place. The possibilities offered by improved battery technology have resulted in an extensive cordless range of tools.

The combination of cordless tools and air tools offers the customer the opportunity to implement the most optimal solution. Whether a sustainable set up for a permanent workplace is required, or more flexibility for the operator, your productivity matters to us.



# PNEUMATIC IMPULSE WRENCHES



## Main Features

**Twin drive roller blades** reduce Sound, vibration and improve impulse efficiency.

**X-Shape Sealing** improves durability.

**1 Piece design** front end plate and cylinder improves motor efficiency.

**EASY TORQUE ADJUSTMENT**  
The required torque can be easily adjusted by turning the adjust screw.

**DOUBLE CHAMBER AIR MOTOR**  
9 Vanes motor design for smallest dimensions with highest power and acceleration results in a short time to reach the set torque and highest productivity.

**Low Sound exhaust**, 360° adjustable.

**One hand reverse operation** for Right or Left handed operators.

**Conventional Impact Wrench** vs **Adjustable range of Oil-Pulse Wrench** graph showing Torque vs Time (0,2-1 sec).

**Reduce torque** / **Increase torque** diagram showing the adjust screw mechanism.

**Speed RPM** vs **Torque** graph comparing **Conventional Motor** and **Double-Chamber Motor**.



# SHUT-OFF IMPULSE WRENCHES



## RRI-T Series: Pistol Models



### 1/4" Hex Drive

Type	Square / Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-30AT	1/4" Hex	6	4.600	6-12,5	3,7	0,89	PT 1/4"	6,5	<2,5	78
RRI-40AT	1/4" Hex	6-8	4.600	10-18	3,7	0,92	PT 1/4"	6,5	<2,5	78
RRI-50AT	1/4" Hex	8	7.200	16-26	5,3	0,92	PT 1/4"	6,5	<2,5	80
RRI-60AT	1/4" Hex	8	6.200	20-30	6,2	1,0	PT 1/4"	8	<2,5	82
RRI-70AT	1/4" Hex	10	7.200	32-47	7	1,35	PT 1/4"	8	<2,5	82



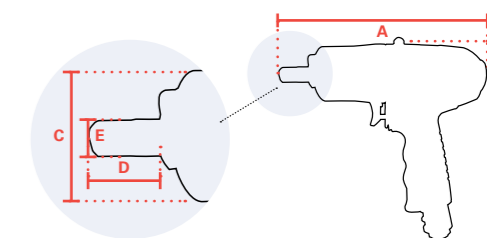
### 3/8" - 1/2" - 3/4" Square Drive

Type	Square / Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-30T	3/8" Square	6	4.600	7-12,5	3,7	0,89	PT 1/4"	6,5	<2,5	78
RRI-40T	3/8" Square	6-8	4.600	11-19	3,7	0,92	PT 1/4"	6,5	<2,5	78
RRI-50T	3/8" Square	8	7.200	16-27	5,3	0,92	PT 1/4"	6,5	<2,5	80
RRI-60T	3/8" Square	8-10	6.200	22-35	6,2	1	PT 1/4"	8	<2,5	82
RRI-70T	3/8" Square	10	7.200	37-57	7	1,35	PT 1/4"	8	<2,5	82
RRI-80T	3/8" Square	10-12	5.100	40-68	9,3	1,21	PT 1/4"	8	<2,5	82
RRI-90T	1/2" Square	12	5.400	64-90	8,3	1,55	PT 1/4"	8	<2,5	83
RRI-100T	1/2" Square	12-14	5.300	85-120	8,7	1,87	PT 1/4"	8	<2,5	84
RRI-130T	1/2" Square	14-16	3.600	123-148	11,6	2,26	PT 1/4"	11	<2,5	86
RRI-150T	3/4" Square	16	3.700	165-210	11,6	3,10	PT 1/4"	11	<2,5	86
RRI-180T	3/4" Square	16-18	2.700	180-255	12,2	3,8	PT 1/4"	11	<2,5	86
RRI-200T	3/4" Square	18-20	3.000	230-450	26	4,25	PT 3/8"	12,7	8,3	88

### DIMENSIONS

Type	A mm	B mm	C mm	D mm	E mm
RRI-30AT	163	168	Ø46	21	Ø17,5
RRI-40AT	170	168	Ø46	27	Ø17,5
RRI-50AT	170	168	Ø46	27	Ø17,5
RRI-60AT	181	168	Ø46	27	Ø17,5
RRI-70AT	194	172	Ø53,5	28	Ø17,5
RRI-30T	163	168	Ø46	24	Ø12
RRI-40T	167	168	Ø46	24	Ø12
RRI-50T	167	168	Ø46	24	Ø12
RRI-60T	178	168	Ø46	24	Ø12
RRI-70T	194	172	Ø53,5	25	Ø12
RRI-80T	194	170	Ø53,5	25	Ø12
RRI-90T	200	192	Ø53,5	31	Ø16
RRI-100T	209	195	Ø59	32	Ø16

Type	A mm	B mm	C mm	D mm	E mm
RRI-130T	216	204	Ø64	31	Ø16
RRI-150T	239	215	Ø72	40	Ø25
RRI-180T	263	232	Ø78	41	Ø25
RRI-200T	250	239	Ø80	41	Ø25



# SHUT-OFF IMPULSE WRENCHES



*RRI-T Series: Straight Models*



*1/4" Hex Drive*

Type	Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-30STA	1/4"	6	4.200	6-11,5	3,7	0,77	PT 1/4"	6,5	2,7	78
RRI-40STA	1/4"	6-8	4.200	10-17	3,7	0,8	PT 1/4"	6,5	3,1	78
RRI-50STA	1/4"	8	6.800	15-25	5,3	0,8	PT 1/4"	6,5	3,4	80
RRI-60STA	1/4"	8	6.000	20-30	6,2	0,86	PT 1/4"	8	3,8	80
RRI-70STA	1/4"	8-10	5.000	28-40	6,2	0,97	PT 1/4"	8	4,1	80

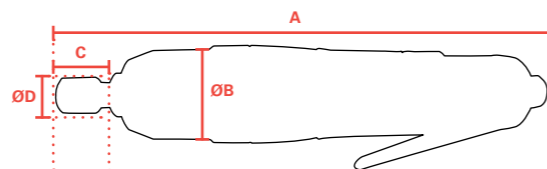


*3/8" Square Drive*

Type	Square drive	Bolt capacity mm	RPM	Torque range Nm	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-30ST	3/8"	6	4.200	7-12,5	3,7	0,8	PT 1/4"	6,5	2,6	78
RRI-40ST	3/8"	6-8	4.200	11-19	3,7	0,8	PT 1/4"	6,5	2,9	78
RRI-50ST	3/8"	8	6.800	16-27	5,3	0,8	PT 1/4"	6,5	3	80
RRI-60ST	3/8"	8-10	6.000	22-35	6,2	0,86	PT 1/4"	8	3,4	80
RRI-70ST	3/8"	10	5.000	31-47	6,2	0,97	PT 1/4"	8	3,7	80
RRI-80ST	3/8"	10-12	6.100	40-68	9,3	1,15	PT 1/4"	8	4	82

**DIMENSIONS**

Type	A mm	B mm	C mm	D mm
RRI-30STA	219	Ø46	21	Ø17,5
RRI-40STA	224	Ø46	27	Ø17,5
RRI-50STA	224	Ø46	27	Ø17,5
RRI-60STA	225	Ø46	27	Ø17,5
RRI-70STA	244	Ø48	27	Ø17,5
RRI-30ST	219	Ø46	24	Ø12
RRI-40ST	221	Ø46	24	Ø12
RRI-50ST	221	Ø46	24	Ø12
RRI-60ST	231	Ø46	24	Ø12
RRI-70ST	244	Ø48	25	Ø12
RRI-80ST	244	Ø53,5	25	Ø12



# SHUT-OFF IMPULSE WRENCHES



*RRI-T Series: Angle Models*



*1/4" Hex Drive*

Type	Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-50RTA	1/4"	6-8	4.300	9,5-16	4,8	1,2	PT 1/4"	6,5	16,5	80
RRI-60RTA	1/4"	8	4.700	15-22	6,2	1,3	PT 1/4"	8	17,2	80
RRI-70RTA	1/4"	8	4.500	20-29	6,2	1,4	PT 1/4"	8	17,5	80

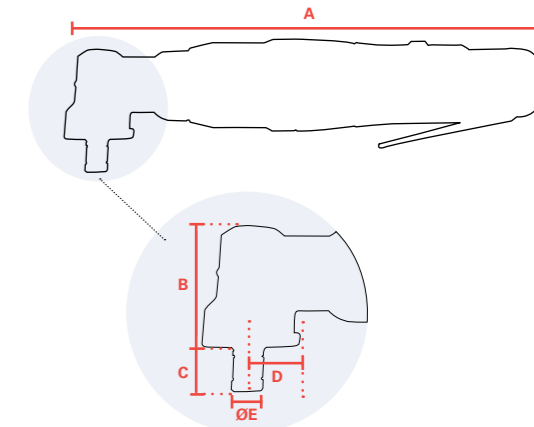


*3/8" Square Drive*

Type	Square drive	Bolt capacity mm	RPM	Torque range Nm	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-50RT	3/8"	6-8	4.300	10,5-17	4,8	1,2	PT 1/4"	6,5	16	80
RRI-60RT	3/8"	8	4.700	16-24	6,2	1,3	PT 1/4"	8	16,8	80
RRI-70RT	3/8"	8-10	4.500	22-31	6,2	1,4	PT 1/4"	8	17,1	80
RRI-70RGT	3/8"	10	2.000	32-45	6,2	1,6	PT 1/4"	8	17,4	82
RRI-70RHT	1/2"	10-12	2.200	46-60	6,2	1,6	PT 1/4"	8	17,4	82
RRI-80RHT	1/2"	10-12	2.800	50-70	9,3	1,7	PT 1/4"	8	19	82

**DIMENSIONS**

Type	A mm	B mm	C mm	D mm	E mm
RRI-50RTA	253	45	16	16	Ø11
RRI-60RTA	264	45	16	16	Ø11
RRI-70RTA	272	45	16	16	Ø11
RRI-50RT	253	45	14	16	Ø12
RRI-60RT	264	45	14	16	Ø12
RRI-70RT	272	45	14	16	Ø12
RRI-70RGT	281	47	14	21	Ø12
RRI-70RHT	281	47	21	21	Ø16
RRI-80RHT	281	47	21	21	Ø16



# NON SHUT-OFF IMPULSE WRENCHES



RRI Series: Pistol Models



1/4" Hex Drive

Type	Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-30AX	1/4"	6	4.600	6-12,5	3,7	0,87	PT 1/4"	6,5	<2,5	78
RRI-40AX	1/4"	6-8	4.600	10-18	3,7	0,74	PT 1/4"	6,5	<2,5	78
RRI-50AX	1/4"	8	7.200	16-26	5,3	0,9	PT 1/4"	6,5	<2,5	80
RRI-60AX	1/4"	8	6.200	20-30	6,2	0,81	PT 1/4"	8	<2,5	82
RRI-70A	1/4"	10	7.200	32-47	7	1,33	PT 1/4"	8	<2,5	82



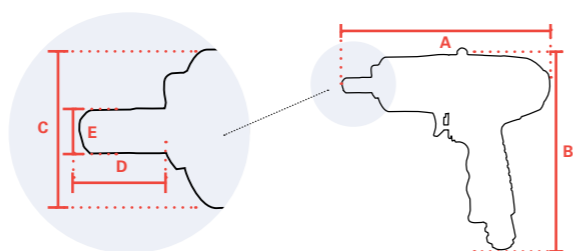
3/8" - 1/2" - 3/4" Square Drive

Type	Square drive	Bolt capacity mm	RPM	Torque range Nm	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-30X	3/8"	6	4.600	7-12,5	3,7	0,87	PT 1/4"	6,5	<2,5	78
RRI-40X	3/8"	6-8	4.600	11-19	3,7	0,74	PT 1/4"	6,5	<2,5	78
RRI-50X	3/8"	8	7.200	16-27	5,3	0,74	PT 1/4"	6,5	<2,5	80
RRI-60X	3/8"	8-10	6.200	22-35	6,2	0,81	PT 1/4"	8	<2,5	82
RRI-70	3/8"	10	7.200	37-57	7	1,33	PT 1/4"	8	<2,5	82
RRI-80	3/8"	10-12	5.100	40-70	9,3	1,19	PT 1/4"	8	<2,5	82
RRI-90	1/2"	12	5.400	64-90	8,3	1,53	PT 1/4"	8	<2,5	83
RRI-100	1/2"	12-14	5.300	85-120	8,7	1,85	PT 1/4"	8	<2,5	84
RRI-130	1/2"	14-16	3.600	123-148	11,6	2,22	PT 1/4"	11	<2,5	86
RRI-150	3/4"	16	3.700	165-210	11,6	3,05	PT 1/4"	11	<2,5	86
RRI-180	3/4"	16-18	2.700	180-255	12,2	3,8	PT 1/4"	11	<2,5	86
RRI-200	3/4"	18-20	3.000	220-390	26	4,25	PT 3/8"	13	8,3	88

**DIMENSIONS**

Type	A mm	B mm	C mm	D mm	E mm
RRI-30X/30AX	167	168	Ø46	24	Ø12
RRI-40X/40AX	147	168	Ø46	24	Ø12
RRI-50X/50A	147	168	Ø46	24	Ø12
RRI-60X/60AX	158	168	Ø46	24	Ø12
RRI-70/70A	194	192	Ø53,5	25	Ø12
RRI-80	194	170	Ø53,5	25	Ø12
RRI-90	200	192	Ø53,5	31	Ø16
RRI-100	209	195	Ø59	32	Ø16
RRI-130	216	204	Ø64	31	Ø16
RRI-150	238	215	Ø72	40	Ø25

Type	A mm	B mm	C mm	D mm	E mm
RRI-180	263	232	Ø78	41	Ø25
RRI-200	250	239	Ø80	41	Ø25



# NON SHUT-OFF IMPULSE WRENCHES



RRI Series: Straight Models



1/4" Hex Drive

Type	Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-30SA	1/4"	6	4.200	6-11,5	3,7	0,77	PT 1/4"	6,5	2,7	78
RRI-40SA	1/4"	6-8	4.200	10-17	3,7	0,8	PT 1/4"	6,5	3,1	78
RRI-50SA	1/4"	8	6.800	15-25	5,3	0,8	PT 1/4"	6,5	3,4	80
RRI-60SA	1/4"	8	6.000	20-30	6,2	0,86	PT 1/4"	8	3,8	80
RRI-70SA	1/4"	8-10	5.000	28-40	6,2	0,97	PT 1/4"	8	4,1	80



1/4" Square Drive

Type	Square drive	Bolt capacity mm	RPM	Torque range Nm	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-30S	3/8"	6	4.200	7-12,5	3,7	0,8	PT 1/4"	6,5	2,6	78
RRI-40S	3/8"	6-8	4.200	11-19	3,7	0,8	PT 1/4"	6,5	2,9	78
RRI-50S	3/8"	8	6.800	16-27	5,3	0,8	PT 1/4"	6,5	3	80
RRI-60S	3/8"	8-10	6.000	22-35	6,2	0,86	PT 1/4"	8	3,4	80
RRI-70S	3/8"	10	5.000	31-47	6,2	0,97	PT 1/4"	8	3,7	80

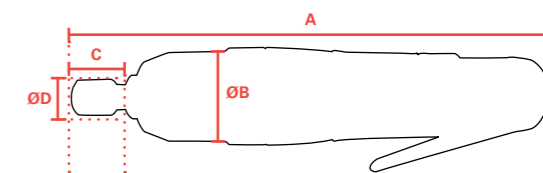


**CUSTOM MADE PRODUCTS**

See page 45 for impulse wrenches tailored to your specific needs.

**DIMENSIONS**

Type	A mm	B mm	C mm	D mm
RRI-30SA	219	Ø46	21	Ø17,5
RRI-40SA	224	Ø46	27	Ø17,5
RRI-50SA	224	Ø46	27	Ø17,5
RRI-60SA	235	Ø46	27	Ø17,5
RRI-70SA	244	Ø48	27	Ø17,5
RRI-30S	219	Ø46	24	Ø12
RRI-40S	221	Ø46	24	Ø12
RRI-50S	221	Ø46	24	Ø12
RRI-60S	221	Ø46	24	Ø12
RRI-70S	244	Ø48	25	Ø12



# NON SHUT-OFF IMPULSE WRENCHES



## RRI Series: Angle Models



### 1/4" Hex Drive

Type	Hex drive	Bolt capacity mm	RPM	Torque range Nm	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-50RA	1/4"	6-8	4.300	9,5-16	4,8	1,2	PT 1/4"	6,5	16,5	80
RRI-60RA	1/4"	8	4.700	15-22	6,2	1,3	PT 1/4"	8	17,2	80
RRI-70RA	1/4"	8	4.500	20-29	6,2	1,4	PT 1/4"	8	17,5	80



### 1/2" - 3/8" Square Drive

Type	Square drive	Bolt capacity mm	RPM	Torque range Nm	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-50R	3/8"	6-8	4.300	10,5-17	4,8	1,2	PT 1/4"	6,5	16	80
RRI-60R	3/8"	8	4.700	16-24	6,2	1,3	PT 1/4"	8	16,8	80
RRI-70R	3/8"	8-10	4.500	22-31	6,2	1,4	PT 1/4"	8	17,1	80
RRI-70RG	3/8"	10	2.000	34-50	6,2	1,6	PT 1/4"	8	17,4	82
RRI-70RH	1/2"	10-12	2.200	46-60	6,2	1,6	PT 1/4"	8	17,4	82

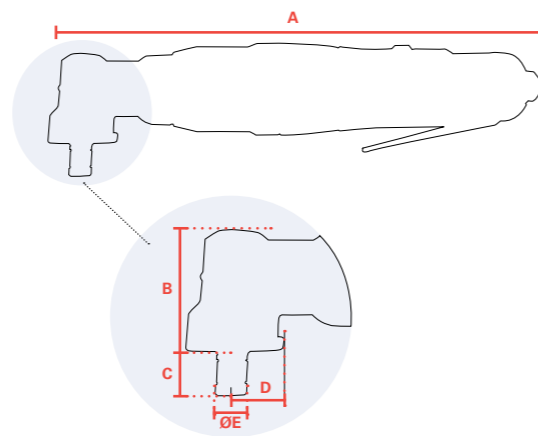


### CUSTOM MADE PRODUCTS

See page 45 for impulse wrenches tailored to your specific needs.

### DIMENSIONS

Type	A mm	B mm	C mm	D mm	E mm
RRI-50RA	253	45	16	16	Ø11
RRI-60RA	264	45	16	16	Ø11
RRI-70RA	272	45	16	16	Ø11
RRI-50R	253	45	14	16	Ø12
RRI-60R	264	45	14	16	Ø12
RRI-70R	272	45	14	16	Ø12
RRI-70RG	281	47	14	21	Ø12
RRI-70RH	281	47	21	21	Ø16



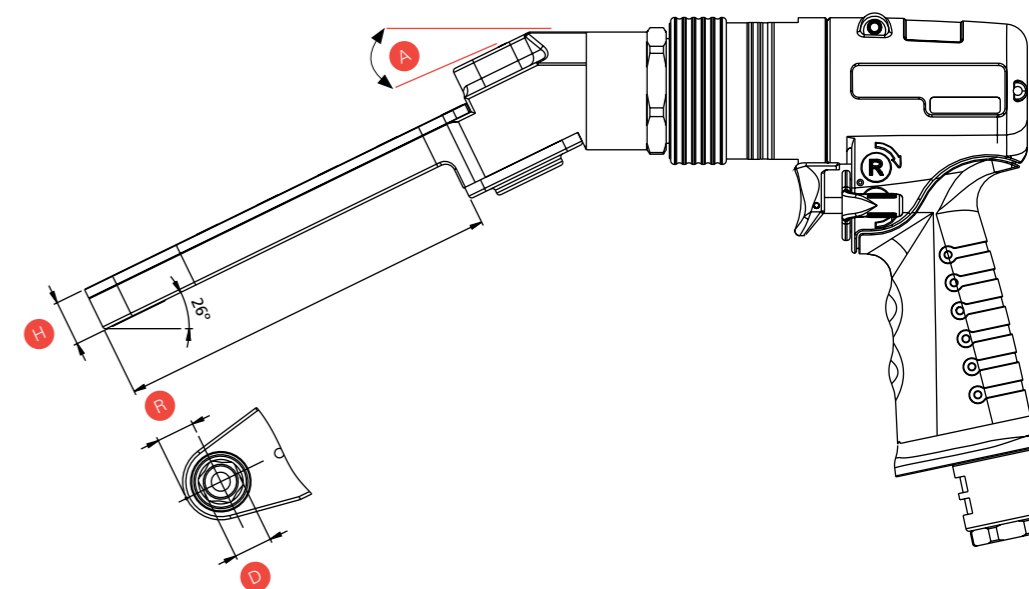
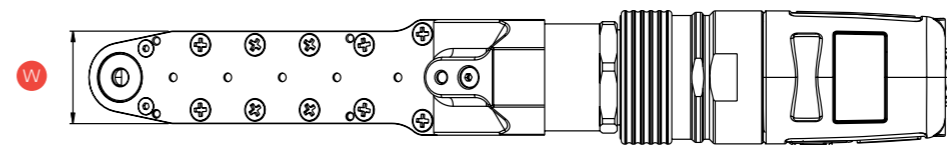
# IMPULSE WRENCHES



## Custom Made Products

For narrow space applications we offer geared offset tools with a torque range of 6-300 Nm.

- Installation in places where access is restricted.
- Flat output with non shut-off impulse wrench



Please fill this form and contact us with your request for a tailor-made solution

Torque Nm	Pistol model Straight model Angle model	W*	A	D* Hexagon dimension	H*	L*	R*
	<input type="checkbox"/> Pistol <input type="checkbox"/> Straight <input type="checkbox"/> Angle	..... mm	<input type="checkbox"/> 0° <input type="checkbox"/> 26° <input type="checkbox"/> 90°	○ ..... mm	..... mm	..... mm	..... mm

\* Maximum dimensions

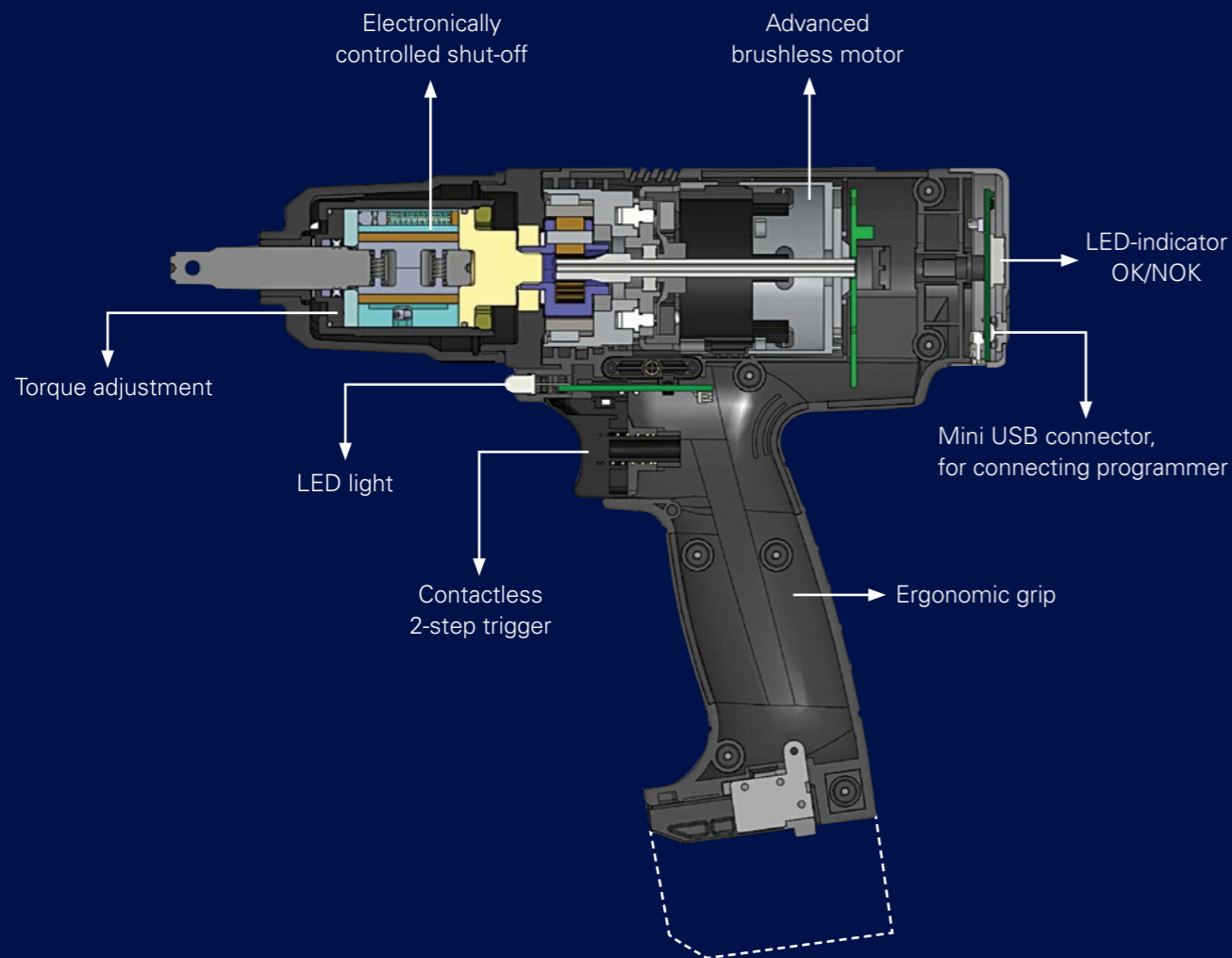
### EXAMPLES



# CORDLESS IMPULSE WRENCHES



## Main Features



# SHUT-OFF IMPULSE WRENCHES



## RRI-BIM Series: Cordless

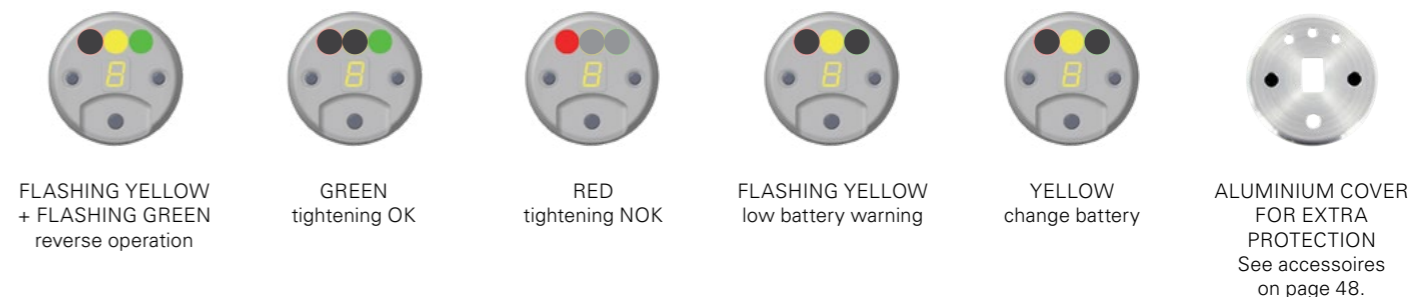
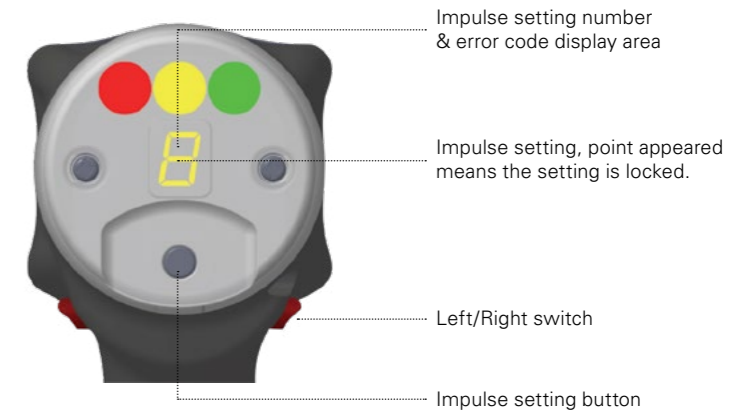
### LED INDICATOR OK/NOK

#### BLOCKING ADJUSTMENT OF THE SHUT-OFF

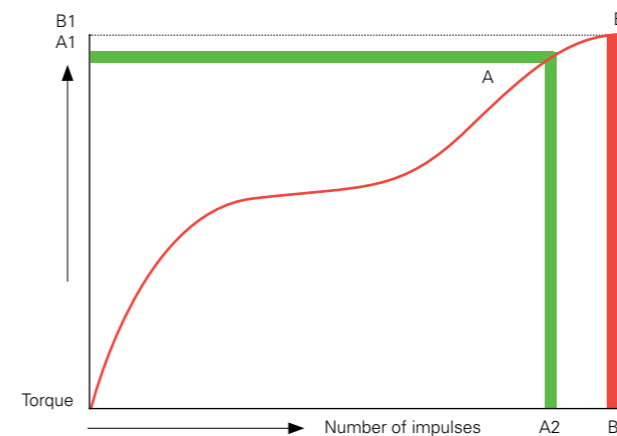
- Remove battery
- Mount battery and simultaneously push trigger and L/R
- Switch until sound signal (5 seconds), then release trigger and L/R Switch.
- Deblocking = same

#### BLOCKING UN-TIGHTENING

- Remove battery
- Mount battery and simultaneously push trigger and L/R
- Switch until sound signal (5 seconds)
- Deblocking = same

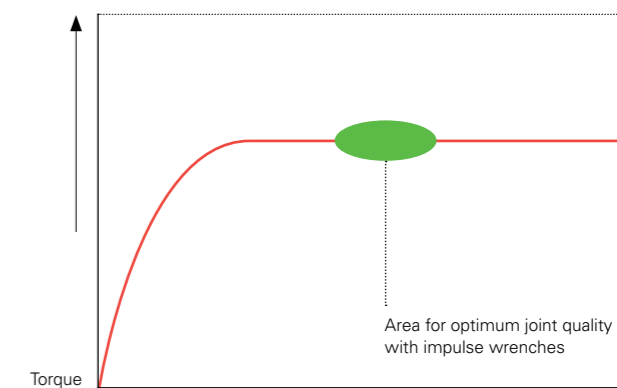


### MECHANICAL SHUT-OFF OR ELECTRONIC CONTROLLED SHUT-OFF IMPULSE WRENCHES



A: shut-off area of mechanical shut-off impulse wrenches  
 B: shut-off area of electronic controlled shut-off impulse wrenches. Optimum tension with lower relaxation.

### JOINT QUALITY



For hard joints: numerical setting: (2-3-4)  
 For middle soft joints: numerical setting: (4-5-6)  
 For soft joints: numerical setting: (6-7-8-9)

# SHUT-OFF IMPULSE WRENCHES



## RRI-BIM Series: Cordless

These cordless shut-off impulse wrenches combine high tightening speeds with high accuracy and no reaction force. The no tightening functionality when the battery charge is low improves the process safety. Very well suited for areas where cables and hoses impede handling flexibility of tools, such as interiors of cars, coaches and trains.

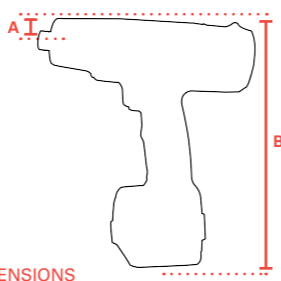
### FEATURES

- Brushless motor
- 20 Volt Lithium-Ion battery (choice for 2,5 Ah or 5 Ah capacity)
- LED status indicates: OK - NOK - REVERSE - BATTERY LOW
- Torque adjustable
- Fine-tuning on hardness of the joint, electronically
- Non-contact trigger with 2 steps
- Run-down speed up to 4.500 RPM



Battery, charger, programmer and power cord have to be ordered separately. See page 62.

Type	Square/Hex drive	Torque Nm	RPM	Weight kg	Dimensions A mm	B mm
RRI-BIM15AT	1/4" Hex	7-15	4.500	1,16	29	227
RRI-BIM15T	3/8" Square	8-15	4.500	1,16	29	224
RRI-BIM25AT	1/4" Hex	14-23	4.500	1,18	29	237
RRI-BIM25T	3/8" Square	15-25	4.500	1,18	29	234
RRI-BIM35T	3/8" Square	22-35	3.500	1,36	29	234
RRI-BIM45T	3/8" Square	32-45	3.500	1,42	29	244
RRI-BIM65T	1/2" Square	45-65	3.200	1,90	29	244



### FEATURES



### ACCESSORIES



Rubber protection cover	Order number
RRI-BIM15T (AT)	C16PW-15
RRI-BIM25T (AT)	C16PW-25
RRI-BIM35T	C16PW-25
RRI-BIM45T	C16PW-45
RRI-BIM65T	C16PW65
Aluminium cover	Order number
RRI-BIM serie	B10PW15
Service Kits:	Order number
RRI-BIM15T (AT)	I40RK
RRI-BIM25T (AT)	I70RK
RRI-BIM35T	I70RK
RRI-BIM45T	I80RK
RRI-BIM65T	32399-001
Hanger for all models	SW40-283-0102



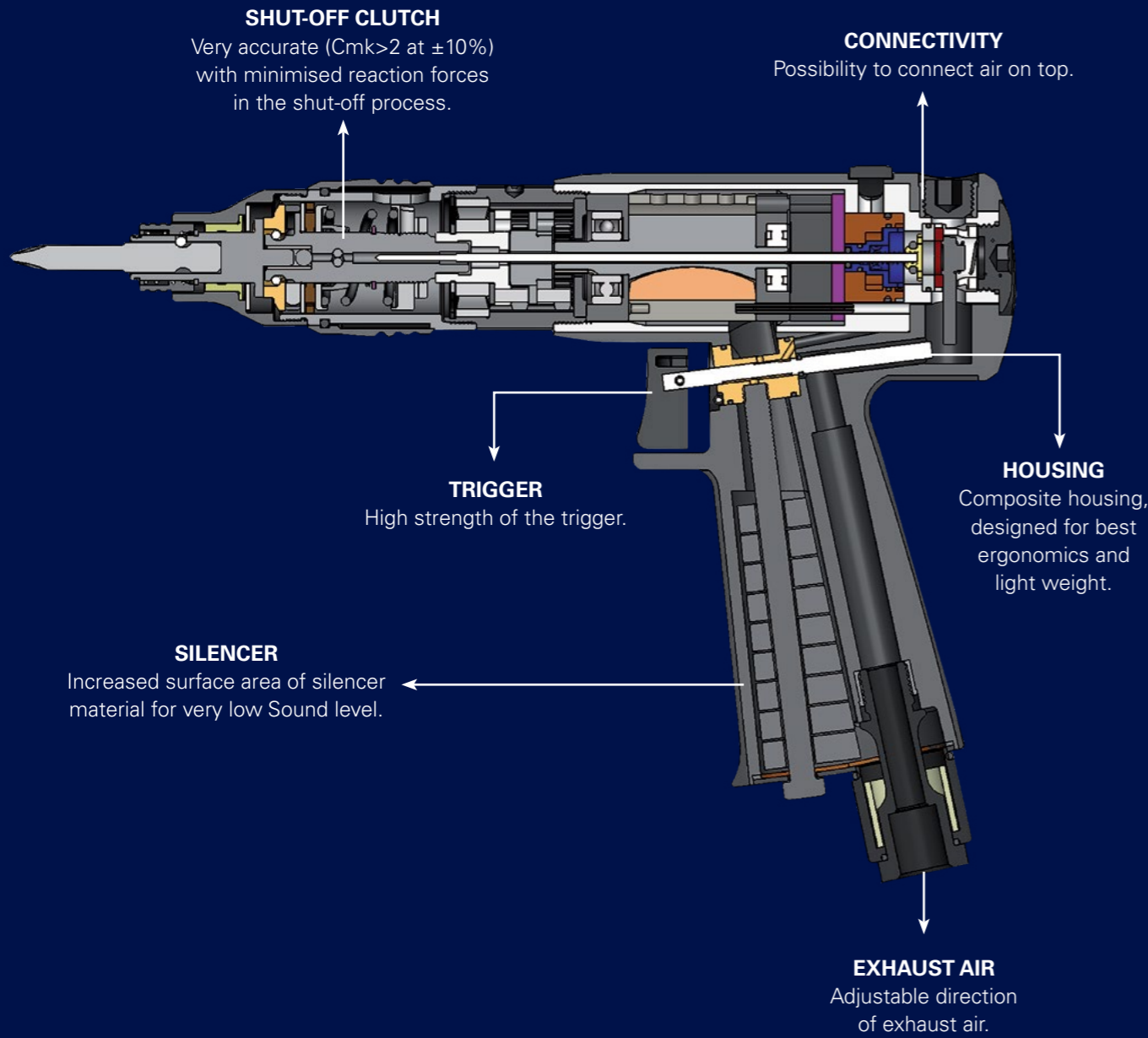


# PNEUMATIC SCREWDRIVERS



## Main Features

These Red Rooster shut-off screwdrivers have a large torque-range, are highly accurate, have a low vibration and Sound level and a very ergonomic design. The special design of the clutch combines low reaction forces with a high repeatability of the torque. This air tool is designed for the assembly industry, where threaded fasteners are used. The wide range of different speeds always allows the best choice for the application. Low speed for plastics and hose clamps, high speeds for machined screws.



# SHUT-OFF SCREWDRIVERS



## RRI-S Series: Pistol Models

### FEATURES

- Composite housing
- Reversible
- Rear-exhaust, silenced
- Ergonomic grip, trigger start
- Easily adjustable
- Pistol model air on top
- Large torque range
- Delivery includes hanger
- Side grip delivered with size 3, 4 and 5 tools



Type	Brand	Hex drive	Bolt capacity mm	RPM	Torque Nm	Air cons. l/s	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-SP13501	RRI	1/4" Hex	2	3.500	0,5-1	9	0,75	1/4"	6,5	< 2,5	70
RRI-SP11802	RRI	1/4" Hex	2-3	1.800	0,5-1,5	9	0,79	1/4"	6,5	< 2,5	70
RRI-SP10802	RRI	1/4" Hex	3	800	0,5-2,2	9	0,79	1/4"	6,5	< 2,5	70
RRI-SP152003	RRI	1/4" Hex	2-3	2.000	0,5-2,5	9,5	0,88	1/4"	6,5	< 2,5	73
RRI-SP151304	RRI	1/4" Hex	3-4	1.300	0,8-3,5	9,5	0,88	1/4"	6,5	< 2,5	73
RRI-SP150805	RRI	1/4" Hex	3-4	750	0,8-5	9,5	0,88	1/4"	6,5	< 2,5	73
RRI-SP150507	RRI	1/4" Hex	3-5	500	1,2-7	9,5	0,88	1/4"	6,5	< 2,5	73
RRI-SP150207	RRI	1/4" Hex	3-5	210	1,2-7	9,5	0,88	1/4"	6,5	< 2,5	73
RRI-SP150107	RRI	1/4" Hex	3-5	100	1,2-7	9,5	0,93	1/4"	6,5	< 2,5	73
RRI-SP23102	RRI	1/4" Hex	3	3.100	0,7-2,3	11	1,02	1/4"	6,5	< 2,5	79
RRI-SP22603	RRI	1/4" Hex	3-4	2.600	0,8-3	11	1,02	1/4"	6,5	< 2,5	79
RRI-SP21705	RRI	1/4" Hex	3-4	1.700	0,8-4,5	11	1,02	1/4"	6,5	< 2,5	76
RRI-SP20907	RRI	1/4" Hex	3-5	950	1,2-7	11	1,02	1/4"	6,5	< 2,5	77
RRI-SP30709	RRI	1/4" Hex	4-5	650	4-9	11	1,16	1/4"	6,5	< 2,5	79
RRI-SP30512	RRI	1/4" Hex	4-6	450	4-12	11	1,16	1/4"	6,5	< 2,5	79
RRI-SP30312	RRI	1/4" Hex	4-6	330	4-12	11	1,16	1/4"	6,5	< 2,5	76
RRI-SP30212	RRI	1/4" Hex	4-6	210	4-12	11	1,16	1/4"	6,5	< 2,5	78
RRI-SP30112	RRI	1/4" Hex	4-6	85	4-12	11	1,23	1/4"	6,5	< 2,5	77
RRI-SP40514	RRI	1/4" Hex	5-6	460	7-14	13	1,5	1/4"	6,5	< 2,5	76
RRI-SP50416	RRI	1/4" Hex	6-8	380	9-16	13	1,5	1/4"	6,5	< 2,5	76

\* The indicated torque levels are measured on hard joints.

### DIMENSIONS

Typ	A mm	B mm	C mm	Ø D mm	Size
RRI-SP13501	182	16	162	37,2	1
RRI-SP11802	191	16	162	37,2	1
RRI-SP10802	191	16	162	37,2	1
RRI-SP152003	200	16	162	37,2	1
RRI-SP151304	200	16	162	37,2	1
RRI-SP150805	200	16	162	37,2	1
RRI-SP150507	200	16	162	37,2	1
RRI-SP150207	200	16	162	37,2	1
RRI-SP150107	210	16	162	37,2	1
RRI-SP23102	208	16	166	37,2	2

Typ	A mm	B mm	C mm	Ø D mm	Size
RRI-SP22603	208	16	166	37,2	2
RRI-SP21705	208	16	166	37,2	2
RRI-SP20907	208	16	166	37,2	2
RRI-SP30709	238	16	166	40,2	3
RRI-SP30512	238	16	166	40,2	3
RRI-SP30312	238	16	166	40,2	3
RRI-SP30212	238	16	166	40,2	3
RRI-SP30112	252	16	166	40,2	3
RRI-SP40514	245	16	179	42,7	4
RRI-SP50416	245	16	179	42,7	5

### ACCESSORIES



Side grip for Size 2 & 3 tools  
Order number: 766-027  
Side grip for Size 4 & 5 tools  
Order number: 510R-027  
\* At size 4 & 5 supplied as standard



Torque adjustment key  
Order number: 00-4507\*  
\* Supplied as standard



Tool holder  
Order number:  
61022-TH001

# SHUT-OFF SCREWDRIVERS



## RRI-S Series: Straight Models

### FEATURES

- Torque accuracy: meet ISO 5393 Cmk>2 at ±10% tolerance
- Easily adjustable
- Ergonomic grip
- Large torque range
- Reversible
- Rear-exhaust, silenced
- Different speeds for every application

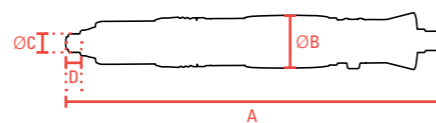


Shut-off screwdrivers push start

### SHUT-OFF SCREWDRIVERS PUSH START TYPE

Type	Brand	Hex drive	Bolt capacity mm	RPM	Torque Nm*	Air Cons. l/s	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-SD10704	RRI	1/4" 6K	4	700	0,8-4,0	8,5	0,69	1/4"	6,5	<2,5	73
RRI-SD10903	RRI	1/4" 6K	4	900	0,8-3,5	8,5	0,69	1/4"	6,5	<2,5	73
RRI-SD11002	RRI	1/4" 6K	4	900	0,5-1,8	6,5	0,59	1/4"	6,5	<2,5	68
RRI-SD11203	RRI	1/4" 6K	4	1200	0,8-3,0	8,5	0,69	1/4"	6,5	<2,5	73
RRI-SD11601	RRI	1/4" 6K	4	1600	0,5-1,5	6,5	0,59	1/4"	6,5	<2,5	68
RRI-SD11702	RRI	1/4" 6K	4	1700	0,5-2,3	8,5	0,69	1/4"	6,5	<2,5	73
RRI-SD21106	RRI	1/4" 6K	4	1100	1,2-6,0	11	0,87	1/4"	6,5	<2,5	73
RRI-SD22004	RRI	1/4" 6K	4	2000	0,8-4,5	11	0,87	1/4"	6,5	<2,5	73
RRI-SD23003	RRI	1/4" 6K	4	3000	0,8-3,0	11	0,87	1/4"	6,5	<2,5	73
RRI-SD23502	RRI	1/4" 6K	4	3500	0,7-2,3	11	0,87	1/4"	6,5	<2,5	73
RRI-SD30512	RRI	1/4" 6K	6	500	4,0-11,0	11	0,98	1/4"	6,5	<2,5	73
RRI-SD30709	RRI	1/4" 6K	6	700	4,0-9,0	11	0,98	1/4"	6,5	<2,5	73
RRI-SD40513	RRI	1/4" 6K	6	520	7,0-13,0	11	1,29	1/4"	6,5	<2,5	74
RRI-SD50416	RRI	1/4" 6K	6	450	9,0-16,0	11	1,29	1/4"	6,5	<2,5	74

\* The indicated torque levels are measured on hard joints.



For torque adjustment key and side grip for screwdrivers with see page 51.

### DIMENSIONS

Type	A mm	B mm	C mm	D mm	Bau-große
RRI-SD10704	258	36	16	15	1
RRI-SD10903	258	36	16	15	1
RRI-SD11002	244	32	16	10,4	1
RRI-SD11203	258	36	16	15	1
RRI-SD11601	244	32	16	10,4	1
RRI-SD11702	258	36	16	15	1
RRI-SD21106	269	39	16	15	2

Type	A mm	B mm	C mm	D mm	Bau-große
RRI-SD22004	269	39	16	15	2
RRI-SD23003	269	39	16	15	2
RRI-SD23502	269	39	16	15	2
RRI-SD30512	299	39	16	15	3
RRI-SD30709	299	39	16	15	3
RRI-SD40513	309	45	16	15	4
RRI-SD50416	309	45	16	15	5

# SHUT-OFF SCREWDRIVERS



## RRI-S Series: Straight Models

### FEATURES

- Torque accuracy: meet ISO 5393 Cmk>2 at ±10% tolerance
- Easily adjustable
- Ergonomic grip
- Large torque range
- Reversible
- Rear-exhaust, silenced
- Different speeds for every application

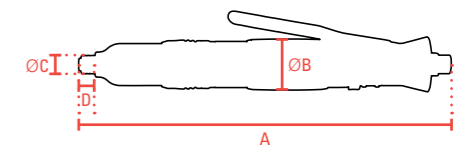


Shut-off screwdrivers lever start

### SHUT-OFF SCREWDRIVERS LEVER START TYPE

Type	Brand	Hex drive	Bolt capacity mm	RPM	Torque Nm*	Air Cons. l/s	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-SL10704	RRI	1/4" 6K	4	700	0,8-4	8,5	0,69	1/4"	6,5	<2,5	73
RRI-SL10903	RRI	1/4" 6K	4	900	0,8-3,5	8,5	0,69	1/4"	6,5	<2,5	73
RRI-SL11002	RRI	1/4" 6K	4	900	0,5-1,8	6,5	0,59	1/4"	6,5	<2,5	68
RRI-SL11203	RRI	1/4" 6K	4	1200	0,8-3	8,5	0,69	1/4"	6,5	<2,5	73
RRI-SL11601	RRI	1/4" 6K	4	1600	0,5-1,5	6,5	0,59	1/4"	6,5	<2,5	68
RRI-SL11702	RRI	1/4" 6K	4	1700	0,5-2,5	8,5	0,69	1/4"	6,5	<2,5	73
RRI-SL21106	RRI	1/4" 6K	4	1100	1,2-6	11	0,87	1/4"	6,5	<2,5	73
RRI-SL22004	RRI	1/4" 6K	4	2000	0,8-4,5	11	0,87	1/4"	6,5	<2,5	73
RRI-SL23003	RRI	1/4" 6K	4	3000	0,8-3	11	0,87	1/4"	6,5	<2,5	73
RRI-SL23502	RRI	1/4" 6K	4	3500	0,7-2,3	11	0,87	1/4"	6,5	<2,5	73
RRI-SL30512	RRI	1/4" 6K	6	500	4,0-11,0	11	0,98	1/4"	6,5	<2,5	73
RRI-SL30709	RRI	1/4" 6K	6	700	4,0-9,0	11	0,98	1/4"	6,5	<2,5	73
RRI-SL40513	RRI	1/4" 6K	6	520	7,0-13,0	11	1,29	1/4"	6,5	<2,5	74
RRI-SL50416	RRI	1/4" 6K	6	450	9,0-16,0	11	1,29	1/4"	6,5	<2,5	74

\* The indicated torque levels are measured on hard joints.



For torque adjustment key and side grip for screwdrivers with see page 51.

### DIMENSIONS

Type	A mm	B mm	C mm	D mm	Bau-große
RRI-SL10704	258	36	16	15	1
RRI-SL10903	258	36	16	15	1
RRI-SL11002	244	32	16	10,4	1
RRI-SL11203	258	36	16	15	1
RRI-SL11601	244	32	16	10,4	1
RRI-SL11702	258	36	16	15	1
RRI-SL21106	269	39	16	15	2

Type	A mm	B mm	C mm	D mm	Bau-große
RRI-SL22004	269	39	16	15	2
RRI-SL23003	269	39	16	15	2
RRI-SL23502	269	39	16	15	2
RRI-SL30512	299	39	16	15	3
RRI-SL30709	299	39	16	15	3
RRI-SL40513	309	45	16	15	4
RRI-SL50416	309	45	16	15	5

# SHUT-OFF SCREWDRIVERS



## RRI-S Series: Angle Models

### FEATURES

- Torque accuracy: meet ISO 5393 Cmk>2 at ±10% tolerance
- Easily adjustable
- Ergonomic grip
- Large torque range
- Reversible
- Rear-exhaust, silenced
- Models with 1/4" 6K and 3/8" drive
- Different speeds for every application



### SHUT-OFF SCREWDRIVERS LEVER START TYPE/ANGLE MODELS

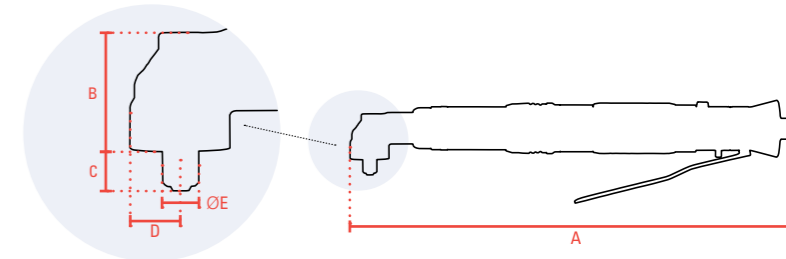
Type	Brand	Hex drive	Bolt capacity mm	RPM	Torque Nm*	Air Cons. l/s	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-SA10505	RRI	1/4"	4	550	0,8-5,0	7,5	1,02	1/4"	6,5	<2,5	73
RRI-SA10505W	RRI	3/8"	4	550	0,8-5,0	7,5	1,02	1/4"	6,5	<2,5	73
RRI-SA10604	RRI	1/4"	4	450	0,8-6,0	7,5	1,02	1/4"	6,5	<2,5	73
RRI-SA10604W	RRI	3/8"	4	450	0,8-6,0	7,5	1,02	1/4"	6,5	<2,5	73
RRI-SA10704	RRI	1/4"	4	750	0,8-4,0	7,5	1,02	1/4"	6,5	<2,5	73
RRI-SA10704W	RRI	3/8"	4	750	0,8-4,0	7,5	1,02	1/4"	6,5	<2,5	73
RRI-SA11103	RRI	1/4"	4	1100	0,5-3,0	7,5	1,02	1/4"	6,5	<2,5	73
RRI-SA11103W	RRI	3/8"	4	1100	0,5-3,0	7,5	1,02	1/4"	6,5	<2,5	73
RRI-SA11601	RRI	1/4"	4	1600	0,5-1,5	6	0,88	1/4"	6,5	<2,5	68
RRI-SA11902	RRI	1/4"	4	900	0,5-1,8	6	0,88	1/4"	6,5	<2,5	68
RRI-SA20708	RRI	1/4"	4	700	2,0-8,0	11	1,2	1/4"	6,5	<2,5	73
RRI-SA20708W	RRI	3/8"	4	700	2,0-8,0	11	1,2	1/4"	6,5	<2,5	73
RRI-SA21306	RRI	1/4"	4	1300	1,4-6,5	11	1,2	1/4"	6,5	<2,5	73
RRI-SA21306W	RRI	3/8"	4	1300	1,4-6,5	11	1,2	1/4"	6,5	<2,5	73
RRI-SA21904	RRI	1/4"	4	1900	1,4-4,0	11	1,2	1/4"	6,5	<2,5	73
RRI-SA21904W	RRI	3/8"	4	1900	1,4-4,0	11	1,2	1/4"	6,5	<2,5	73
RRI-SA22203	RRI	1/4"	4	2200	1,2-3,0	11	1,2	1/4"	6,5	<2,5	73
RRI-SA22203W	RRI	3/8"	4	2200	1,2-3,0	11	1,2	1/4"	6,5	<2,5	73
RRI-SA30315	RRI	1/4"	6	320	6,0-15,0	11	1,36	1/4"	6,5	<2,5	73
RRI-SA30315W	RRI	3/8"	6	320	6,0-15,0	11	1,36	1/4"	6,5	<2,5	73
RRI-SA30512	RRI	1/4"	6	480	6,0-12,0	11	1,36	1/4"	6,5	<2,5	73
RRI-SA30512W	RRI	3/8"	6	480	6,0-12,0	11	1,36	1/4"	6,5	<2,5	73
RRI-SA40317	RRI	1/4"	6	380	10,0-17,0	11	1,81	1/4"	6,5	<2,5	74
RRI-SA40317W	RRI	3/8"	6	380	10,0-17,0	11	1,81	1/4"	6,5	<2,5	71
RRI-SA50322	RRI	1/4"	6	320	14,0-22,0	11	1,81	1/4"	6,5	<2,5	74
RRI-SA50322W	RRI	3/8"	6	320	14,0-22,0	11	1,81	1/4"	6,5	<2,5	74
RRI-SA60945W	RRI	1/2"	8	90	24-45	11	2,09	1/4"	6,5	<2,5	74
RRI-SA70960W	RRI	1/2"	10	90	35-60	11	2,09	1/4"	6,5	<2,5	74

\* The indicated torque levels are measured on hard joints.

# SHUT-OFF SCREWDRIVERS



## RRI-S Series: Angle Models



### DIMENSIONS

Type	A mm	B mm	C mm	D mm	E mm
RRI-SA10505	309	33	17	13,5	16
RRI-SA10505W	309	33	14	13,5	3/8"
RRI-SA10604	309	33	17	13,5	16
RRI-SA10604W	309	33	14	13,5	3/8"
RRI-SA10704	309	33	17	13,5	16
RRI-SA10704W	309	33	17	13,5	3/8"
RRI-SA11103	309	33	13	13,5	16
RRI-SA11103W	309	33	13	13,5	3/8"
RRI-SA11601	298	29,5	18	14,5	16
RRI-SA11902	298	29,5	18	14,5	16
RRI-SA20708	321	33	13	13,5	16
RRI-SA20708W	321	33	14	13,5	3/8"
RRI-SA21306	321	33	13	13,5	16
RRI-SA21306W	321	33	14	13,5	3/8"

Type	A mm	B mm	C mm	D mm	E mm
RRI-SA21904	321	33	13	13,5	16
RRI-SA21904W	321	33	14	13,5	3/8"
RRI-SA22203	321	33	13	13,5	16
RRI-SA22203W	321	33	14	13,5	3/8"
RRI-SA30315	351	33	13	13,5	16
RRI-SA30315W	351	33	14	13,5	3/8"
RRI-SA30512	351	33	13	13,5	16
RRI-SA30512W	351	33	14	13,5	3/8"
RRI-SA40317	369	38	14	16	16
RRI-SA40317W	369	38	14	16	3/8"
RRI-SA50322	369	38	14	16	16
RRI-SA50322W	369	38	14	16	3/8"
RRI-SA60945W	411	34	19	18,5	1/2"
RRI-SA70960W	411	34	19	18,5	1/2"

### ACCESSORIES



Torque adjustment key  
Order number: 00-4507\*  
\* Supplied as standard



Tool holder  
Order number:  
61022-TH001

# CORDLESS TRANSDUCERIZED SCREWDRIVERS



## Main Features



# CORDLESS TRANSDUCERIZED SCREWDRIVERS



## Cordless Transducerized Screwdrivers

Red Rooster cordless transducerized screwdrivers are well suited for assembly applications where good torque accuracy is required. 8 programs can be set for both torque and angular displacement. The programs can be easily selected or programmed in a fixed sequence.

The operator receives an audible and visual notification of the judgement (OK/NOK) and the achieved result (torque or angular displacement) is shown on the display. Available in a torque range of 4-16Nm in pistol shape. Repeatability Cm/Cmk > 2 at +/- 7%.



### FEATURES

- Brushless motor
- 20 Volt Lithium-Ion battery
- LED status indicates OK - NOK - REVERSE - BATTERY LOW
- Tightening mode setting – Torque or Angle
- Programmable torque
- Programmable angle limits
- Programmable speed
- Group check / counting
- 8 programs including sequence
- Compact and light weight
- The flat battery pack offers stability

Type	Volt V	Drive size	Bolt capacity mm	RPM	Torque Nm	Weight kg	Sound level dB(A)	A mm	B mm
RRI-BCP08H2	20V	1/4" 6K	4-5	220-1.100	3-8	1,01	< 75	202,5	240,5
RRI-BCP12H2	20V	1/4" 6K	4-6	140-700	4-12	1,01	< 75	202,5	240,5
RRI-BCP16H2	20V	1/4" 6K	5-6	80-500	5-15	1,01	< 75	202,5	240,5
RRI-BCP16S3	20V	3/8" 4K	5-6	80-500	5-16	1,01	< 75	202,5	240,5

Battery and charger have to be ordered separately.

### ACCESSORIES



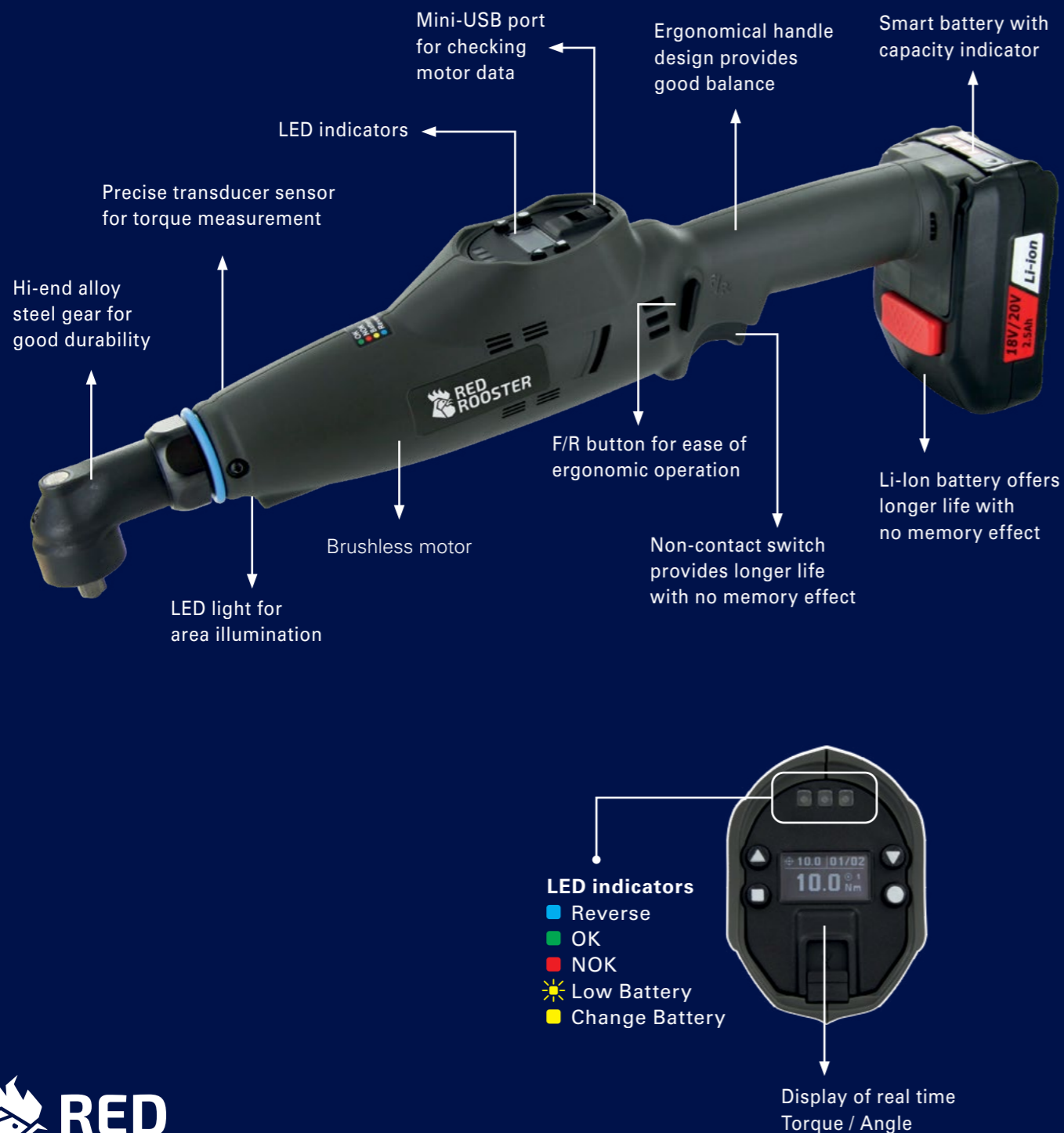
Type	Order number
Charger (40 min.)	B84192B
Li-Ion battery 20V 2,5Ah	BB200D-325
Li-Ion battery 20V 5Ah	BB200D-350
Programming cable (for BC tool <-> laptop)	32088-NPA-01

Type	Order number
Rubber Protection Cover for battery 20V 2,5Ah	33116-B200D-01
Rubber Protection Cover for battery 20V 5Ah	33116-B200D-02
Rubber Protection Cover BCP	33116-NPA-01
Side grip for BCP	766-027-612

# CORDLESS TRANSDUCERIZED SCREWDRIVERS



## Main Features



# CORDLESS TRANSDUCERIZED SCREWDRIVERS



## Cordless Transducerized Angle Wrenches

Red Rooster cordless transducerized screwdrivers are well suited for assembly applications where good torque accuracy is required. 8 programs can be set for both torque and angular displacement. The programs can be easily selected or programmed in a fixed sequence.

The operator receives an audible and visual notification of the judgement (OK/NOK) and the achieved result (torque or angular displacement) is shown on the display. Available in a torque range of 4-60Nm. Repeatability Cm/Cmk > 2 at +/- 7%.



### FEATURES

- Brushless motor
- 20 Volt Lithium-Ion battery
- LED status indicates OK - NOK - REVERSE - BATTERY LOW
- Tightening mode setting – Torque or Angle
- Programmable torque
- Programmable angle limits
- Programmable speed
- Group check / counting
- 8 programs including sequence
- Compact and light weight
- The flat battery pack offers stability

Type	Volt V	Drive size	Bolt capacity mm	RPM	Torque Nm	Weight kg	Sound level dB(A)	A mm	B mm
RRI-BCA10H2	20V	1/4" 6K	5-6	150-750	4-10	1,68	< 75	439	38
RRI-BCA16H2	20V	1/4" 6K	5-6	120-600	5-16	1,68	< 75	439	38
RRI-BCA10S3	20V	3/8" 4K	5-6	150-750	4-10	1,68	< 75	439	38
RRI-BCA16S3	20V	3/8" 4K	5-6	120-600	5-16	1,68	< 75	439	38
RRI-BCA30S3	20V	3/8" 4K	6-8	70-350	10-30	1,68	< 75	439	38
RRI-BCA50S3	20V	3/8" 4K	8-10	60-210	20-48	2,16	< 75	535	42,5
RRI-BCA60S3	20V	3/8" 4K	8-12	50-170	25-60	2,16	< 75	535	42,5

Battery and charger have to be ordered separately.

### ACCESSORIES



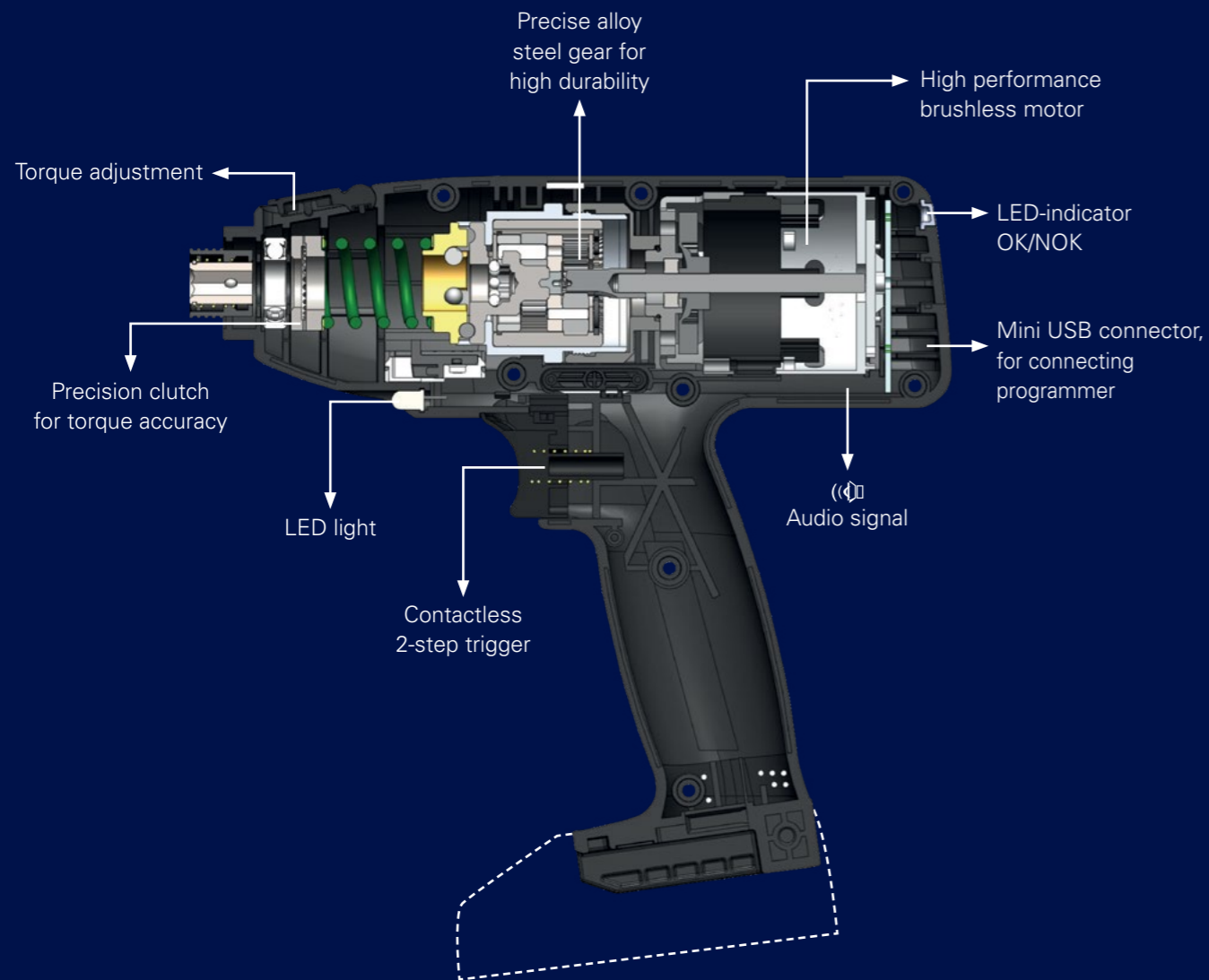
Type	Order number
Charger (40 min.)	B84192B
Li-Ion battery 20V 2,5Ah	BB200D-325
Li-Ion battery 20V 5Ah	BB200D-350
Programming Cable (for BC tool <-> laptop)	32088-NPA-01

Type	Order number
Rubber Protection Cover for battery 20V 2,5Ah	33116-B200D-01
Rubber Protection Cover for battery 20V 5Ah	33116-B200D-02
Rubber Protection Cover BCA 16/30	33116-NRA-01
Rubber Protection Cover BCA 50/60	33116-WRCA-02

# CORDLESS SCREWDRIVERS



## Main Features



# SHUT-OFF SCREWDRIVERS



## RRI-BS Series: Cordless

The Red Rooster cordless shut-off screwdriver is very well suited for assembly applications with a need for good torque accuracy. Especially in areas where cables and hoses impede handling flexibility, such as interiors of cars, coaches and trains.



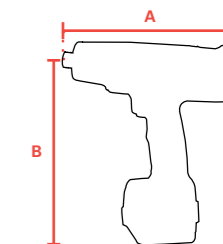
### FEATURES

- Torque accuracy: meet ISO 5393 Cmk>2 at ±10% tolerance.
- Precision clutch with low reaction forces.
- Trigger repeat protection avoids "double hits".
- Brushless motor: ensures low maintenance.
- Highly durable gear: ensures low maintenance.
- Precision shut-off clutch: ensures quality in tightening.
- Ergonomic rubber grip: ensures operator performance.
- Delivery includes hanger bracket.



Type	Volt V	Drive size	Screw size mm	Torque range Nm	RPM	Weight (w/o battery) kg	Dimensions A mm B mm	
RRI-BS3H2	20V	1/4" Hex	M3-M4	0,8-3	200-500	0,95	203	238
RRI-BS6H2	20V	1/4" Hex	M3-M5	1,5-6	300-1000	0,95	203	238
RRI-BS9H2	20V	1/4" Hex	M3-M5	2-9	300-800	0,95	203	238
RRI-BS12H2	20V	1/4" Hex	M4-M6	2,5-12	250-800	0,95	203	238

Battery, charger, programmer and power cord have to be ordered separately, see page 62.



DIMENSIONS

### PROGRAMMER



Programmer

### FEATURES

- One programmer fits all RRI-BS series tools
- Easy to set the tool speed:
  - high speed for metallic assemblies
  - medium speed for plastic assemblies
  - low speed for special assemblies
- Total used time memory function
- Total count memory function
- Operation count memory function
- Tool identification number

### BACK PANEL LED INDICATIONS



LED light

### LED LIGHT

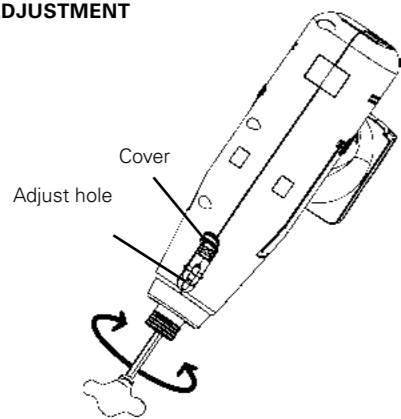
- A green light tells the operator that the preset torque is reached and the tightening is OK.
- A red light and one long "beep" sound tells the operator that the preset torque is not reached, tightening must be performed again.
- A flashing yellow light and five short "beep" sounds give an early warning when it is time to recharge the battery.
- A yellow light and one long "beep" sound means the battery is empty and the tool can't operate. A fully charged battery should be placed to continue working.

# SHUT-OFF SCREWDRIVERS

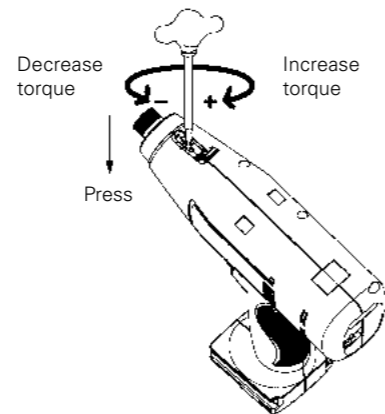


RRI-BS Series: Cordless

## TORQUE ADJUSTMENT



1. Lift the torque adjustment over. Take the torque adjust tool and insert it to the quick change holder and turn until the adjust hole shows up.



2. Use the torque adjust tool to turn clockwise to increase torque and turn counter clockwise to decrease torque.

### NOTE

To avoid danger during the adjustment process, the battery pack must be removed before adjusting the torque.

## APPLICATIONS

- Assembly applications where torque accuracy is required.
- Areas where pneumatic or electric tools are impractical to use due to hoses/cables.
- Especially used on car interior assembly.
- Attaching components to the dashboard.
- Hose clips on turbo chargers and air intakes, heating and climate systems and coolant circuits.
- Assembly of components in switch cabinets.

## ACCESSORIES



Torque adjustment tool  
Order number 00-4507\*  
\* Supplied as standard



Rubber protection cover  
Order number C16SC180B

## LI-ION BATTERY, CHARGER, PROGRAMMER, POWER CORD & RUBBER PROTECTION COVER FOR BATTERY



Charger



Li-Ion battery



Rubber Protection Cover for battery



Programmer



Power cord

Type	Order number
Charger (40 min.)	B84192B
Li-Ion battery 20V 2,5Ah	BB200D-325
Li-Ion battery 20V 5Ah	BB200D-350
Rubber protection cover for battery 20V 2,5Ah	33116-B200D-01
Rubber protection cover for battery 20V 5Ah	33116-B200D-02

Type	Order number
Programmer	B74SC180B
Power cord European style	E86B-VD
Power cord English style	E86B-UK

# CORDLESS WRENCHES



# SHUT-OFF ANGLE WRENCHES



## RRI-BA Series: Cordless

These Red Rooster cordless angle wrenches with automatic shut-off are very well suited for assembly applications with a need of good torque accuracy. Especially for applications in areas where cables and hoses impede handling flexibility, such as interiors of cars, coaches and trains.



### FEATURES

- Brushless motor
- 20 Volt Lithium-Ion battery
- LED status indicates OK - NOK - REVERSE - BATTERY LOW
- Adjustable torque
- Speed 90 to 1000 RPM
- Compact and light weight
- Color ring for torque setting indication



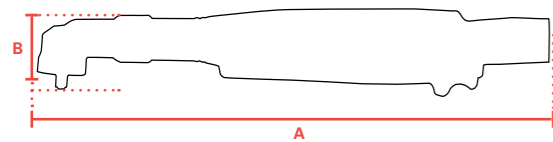
Custom made angle wrenches. See pages 65 - 66 for cordless angle wrenches tailored to your specific needs.

Type	Battery voltage	Battery type	Square drive	Bolt capacity mm	RPM	Torque Nm	Weight kg	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-BA10S3	20V	Li-Ion 2,5 AH / 5 AH	3/8"	4-5	400-1.000	3-12	1,50	<2,5	<75
RRI-BA16S3	20V	Li-Ion 2,5 AH / 5 AH	3/8"	5-6	300-600	5-18	1,50	<2,5	<75
RRI-BA30S3	20V	Li-Ion 2,5 AH / 5 AH	3/8"	6-8	250-450	8-30	1,50	<2,5	<75
RRI-BA35S3	20V	Li-Ion 2,5 AH / 5 AH	3/8"	6-8	200-350	10-35	1,60	<2,5	<75
RRI-BA50S3	20V	Li-Ion 2,5 AH / 5 AH	3/8"	6-10	200	10-50	2,00	<2,5	<75
RRI-BA70S3	20V	Li-Ion 2,5 AH / 5 AH	3/8"	8-12	170	20-70	2,50	<2,5	<75
RRI-BA90S4	20V	Li-Ion 2,5 AH / 5 AH	1/2"	8-12	90	30-90	2,50	<2,5	<75

Battery, charger, programmer and power cord have to be ordered separately, see page 62.

### DIMENSIONS

Type	A mm	B mm
RRI-BA10S3	441	76
RRI-BA16S3	441	76
RRI-BA30S3	446	76
RRI-BA35S3	446	76
RRI-BA50S3	521	76,3
RRI-BA70S3 / 90S4	535	76,3



### ACCESSOIRES

Reaction arm for RRI-BA70S3 & RRI-BA90S4 Order number 31022-WR00	Rubber protection cover for type	Order number
	RRI-BA10S3	C16WR
	RRI-BA16S3	
	RRI-BA30S3	
	RRI-BA35S3	
	RRI-BA50S3	C16WRB50
RRI-BA70S3 / 90S4	C16WRB70	

# SHUT-OFF ANGLE WRENCHES



## Custom Made Products, Cordless, Angle Model

### Angle Wrench with Geared Offset Heads



Angle Model Closed



Angle Model Open

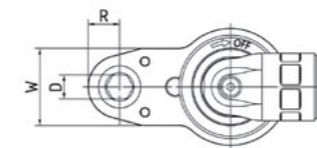


### ANGLE MODEL

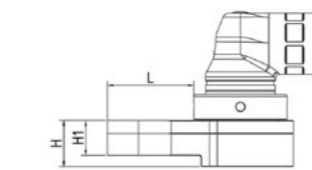
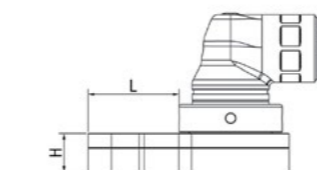
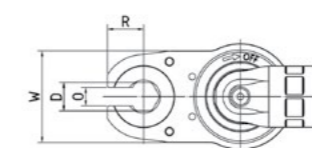
Type	Type	Battery voltage	Hex Dimension Max (mm)	Weight kg	Vibration m/s <sup>2</sup>	Sound level dB(A)	RPM	Torque range
RRI-BA10BCA	closed	20V	12	2	<2.5	<75	950	3-8
RRI-BA16BCA	closed	20V	12	2	<2.5	<75	600	5-13
RRI-BA30BCA	closed	20V	12	2	<2.5	<75	450	8-18
RRI-BA35BCA	closed	20V	12	2	<2.5	<75	350	10-24
RRI-BA10BOA	open	20V	19	2,1	<2.5	<75	950	3-7
RRI-BA16BOA	open	20V	19	2,1	<2.5	<75	600	5-12
RRI-BA30BOA	open	20V	19	2,1	<2.5	<75	450	8-17
RRI-BA35BOA	open	20V	19	2,1	<2.5	<75	350	10-23

Battery, charger, programmer and power cord have to be ordered separately, see page 62.

### BC (closed)



### BO (open)



Please specify your Hex dimension when ordering

### DIMENSIONS

Model	W	D	O	R	L	H	H1
BC	32	11	-	13,1	37,7	16	-
BO	40	13	10,2	17	40	21	16

### CUSTOM MADE PRODUCTS

Please fill in the below form and contact us for your desired geared offset heads type power tool

Model	Torque range Nm	W	D	O	R	L	L1	H	H1
<input type="checkbox"/> BC									
<input type="checkbox"/> BO									



# SHUT-OFF ANGLE WRENCHES



Custom Made Products, Cordless, In-Line Model

## Angle Wrench with Geared Offset Heads



In-line model closed



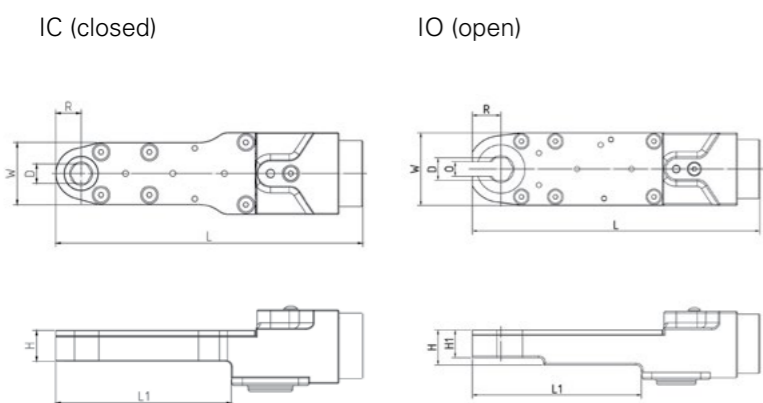
In-line model open



### IN-LINE MODEL

Type	Type	Battery voltage	Hex Dimension Max (mm)	Torque range Nm	RPM	Weight w/o Batt. kg	Vibration m/s2	Sound level dB(A)
RRI-BA10ICA	closed	20V	12	5 ~ 11	620	2,2	<2,5	<75
RRI-BA16ICA	closed	20V	12	8 ~ 17	380	2,2	<2,5	<75
RRI-BA30ICA	closed	20V	12	11 ~ 23	300	2,2	<2,5	<75
RRI-BA35ICA	closed	20V	12	14 ~ 31	220	2,2	<2,5	<75
RRI-BA10IOA	open	20V	19	7 ~ 13	420	2,3	<2,5	<75
RRI-BA16IOA	open	20V	19	10 ~ 22	270	2,3	<2,5	<75
RRI-BA30IOA	open	20V	19	13 ~ 28	200	2,3	<2,5	<75
RRI-BA35IOA	open	20V	19	16 ~ 38	160	2,3	<2,5	<75

Battery, charger, programmer and power cord have to be ordered separately, see page 62.



Please specify your Hex dimension when ordering

Model	W	D	O	R	L	L1	H	H1
IO	40	13	10.2	17	166,7	98,7	20	16
IC	32	10	-	13.1	159	91	16	-

### CUSTOM MADE PRODUCTS

Please fill in the below form and contact us for your desired geared offset heads type power tool

Model	Torque range Nm	W	D	O	R	L	L1	H	H1
<input type="checkbox"/> IC									
<input type="checkbox"/> IO									

# SHUT-OFF IMPACT WRENCHES



RRI-BI Series: Cordless

The Red Rooster cordless impact wrench with electronic adjustable shut-off is very well suited for assembly applications with a need of good torque accuracy. Especially in areas where cables and hoses impede handling flexibility.

### FEATURES

- Brushless motor
- 20 Volt Lithium-Ion battery
- Dynapact impact mechanism
- LED status indicates OK - NOK - REVERSE - BATTERY LOW
- Adjustable torque (50 steps)
- Two step trigger
- Adjustable speed 1500 - 2000 - 2400 RPM
- Compact and light weight



50 programmable stage settings



Type	Battery voltage	Battery type	Square drive	Bolt capacity mm	Max. RPM	Torque Nm	Weight kg	Vibration m/s2	Sound level dB(A)
RRI-BI32T	20V	Li-Ion 2 AH	3/8" Square	6	2.400	6-32	1,0	7,8	93
RRI-BI55T	20V	Li-Ion 2 AH	3/8" Square	8	2.400	15-55	1,1	10,5	94
RRI-BI100T	20V	Li-Ion 2 AH	1/2" Square	8-10	2.400	25-100	1,1	16,4	94
RRI-BI120T	20V	Li-Ion 2 AH	1/2" Square	8-12	2.400	30-120	1,3	13,9	90

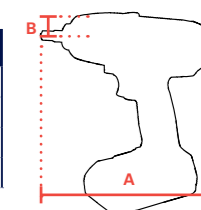
\*Battery and charger have to be ordered separately

### FEATURES



### DIMENSIONS

Type	A mm	B mm
RRI-BI32T	193	29
RRI-BI55T	193	29
RRI-BI100T	198	29
RRI-BI120T	198	29



### ACCESSORIES



Type	Order number
Programmer	B74SC180B
Charger (40 min.)	31084-200E
Li-Ion battery 20V 2.0Ah	BB200E-320
Li-Ion battery 20V 4.0Ah	BB200E-340
Protection cover RRI-BI serie	3116-IWCP-01
Protection cover battery 2.0 Ah	33116-B180E-01
Protection cover battery 4.0 Ah	33116-B180E-02

# RIVETERS



# RIVETERS



## Riveters with Collector



## Rivet Nut Setter



### FEATURES

- Fast and powerful
- Low air consumption
- Ergonomic and lightweight
- Including keys, oiler, and rubber stand

For overview of Nose pieces see page 70.

### PNEUMATIC-RIVETERS WITH COLLECTOR

Type	Brand	Traction (N)	Capacity rivets diameter	Stroke mm	Air cons. l/stroke	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-PR40740	RRI	7.000	4,0*	15	1,50	1,7	PT 1/4"	9,5	1,0	83
RRI-PR40948	RRI	9.200	4,8*	22	1,2	1,9	PT 1/4"	9,5	1,0	82
RRI-PR41764	RRI	17.000	6,4*	25	1,6	2,5	PT 1/4"	9,5	1,0	82
RRI-4010	RRI	9.000	until 4,8	17,5	1,15	1,5	PT 1/4"	6,5	1,5	76
RRI-4011	RRI	10.450	until 6,4	16,5	1,80	2	PT 1/4"	6,5	0,4	76

\*all materials

### PNEUMATIC RIVET NUT SETTER

Type	Brand	Traction (N)	Capacity rivets diameter	Stroke mm	Air cons. l/stroke	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s <sup>2</sup>	Sound level dB(A)
RRI-PRN41612M	RRI	16.000	M4-M12 (M12 at 0,7 MPa)	6	1,5	2,2	PT 1/4"	10	1,0	82
RRI-PRN3M	RRI	*	M3	nvt	23	1,1	PT 1/4"	10	< 2,5	86
RRI-PRN4M	RRI	*	M4	nvt	23	1,1	PT 1/4"	10	< 2,5	86
RRI-PRN5M	RRI	*	M5	nvt	23	1,1	PT 1/4"	10	< 2,5	86
RRI-PRN6M-500	RRI	*	M6	nvt	23	1,1	PT 1/4"	10	< 2,5	86

\* adjustable with air pressure

# RIVETERS

## RRI Series



### ACCESSORIES

#### RRI-PR40740

Accessory	Order number
Nose piece for:	
3/32 (2,4mm)	CP612703 *
1/8 (3,2mm)	CP612704 *
5/32 (4,0mm)	CP612705 *
Service Kit	CP0715SK

\* Supplied as standard

#### RRI-PR41764

Accessory	Order number
Nose piece for:	
4,8 mm	CP612706 *
6,4 mm	CP612708 *
4,8 mm (Monobolt)	CP612746 *
6,4 mm (Monobolt)	CP612748 *
Backen	CP819303 *

\* Supplied as standard

#### RRI-4011

Accessory	Order number
Nose piece for:	
2,4 mm	14463 *
2,4 mm	14464 *
3,2 mm	14465 *
4,0 mm	14466 *
4,8 mm	14468 *
6,4 mm	612716 *
4,8 mm T-Rivet Female inlet body	922A18 *
Rivet deflector	14470 *
Multi-wrench A	612904 *
Set key B	918905 *

\* Supplied as standard

#### RRI-PR40948

Accessory	Order number
Nose piece for:	
4,0 mm	CP612705 *
4,8 mm	CP612706 *
4,8 mm (Monobolt)	CP612746 *
Backen	CP12303 *

\* Supplied as standard

#### RRI-4010

Accessory	Order number
Nose piece for:	
- 3,2 mm	10416-1 *
- 4,0 mm	10416-2 *
- 4,8 mm	10416-3 *
Bottle for spent	
Rivets	10448 *
Wrench	10447 *

\* Supplied as standard

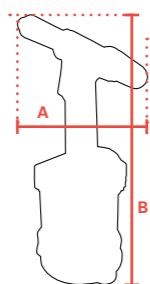
#### RRI-PRN41612M

Accessory	Order number
Bolt M4:	CP258A12 *
Bolt M5:	CP258A13 *
Bolt M6:	CP258A14 *
Bolt M8:	CP258A15 *
Bolt M10:	CP258A16 *
Bolt M12:	CP258A17 *

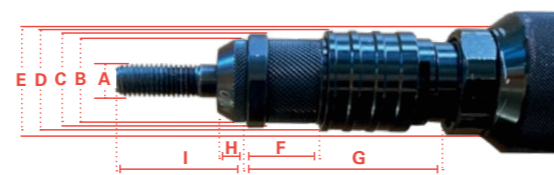
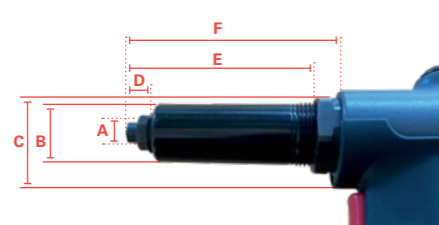
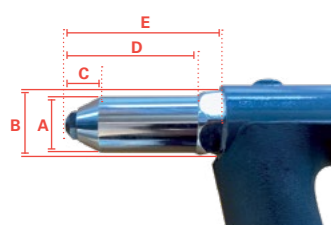
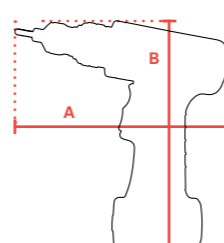
\* Supplied as standard

### DIMENSIONS

Type	A mm	B mm
RRI-PR40740	301	274
RRI-PR40948	290	320
RRI-PR41764	329	350
RRI-PRN41612M	298	345
RRI-4010	159	299
RRI-4011	198	315



Type	A mm	B mm
RRI-PRN3M	190	210
RRI-PRN4M	190	210
RRI-PRN5M	190	210
RRI-PRN6M-500	230	210



Type	RRI-4010	RRI-4011
A mm	25	23
B mm	30	30
C mm	17	7
D mm	58	58
E mm	66	70

Type	RRI-40740	RRI-40948	RRI-41764
A mm	14	14	14
B mm	24	24	29
C mm	30	30	38
D mm	11	11	4
E mm	± 70 <sup>1)</sup>	± 70 <sup>1)</sup>	77
F mm	± 79 <sup>2)</sup>	± 79 <sup>2)</sup>	86

<sup>1)</sup> E = 65mm - 74mm, depending on usage

<sup>2)</sup> E = 72mm - 82mm, depending on usage

Type	RRI-PR41612
A mm	M4-M12
B mm	25
C mm	27
D mm	30
E mm	32
F mm	27
G mm	61
H mm	8-22
I mm	M4=30, M5&M6=31, M8&M10=36, M12=43



# TORQUE WRENCHES



# TORQUE WRENCHES

*The Right Torque is just one Click away*



## NovaTork®

TORQUE  
SCREWDRIVER

PRESET  
TORQUE WRENCH

ADJUSTABLE  
TORQUE WRENCH

ELECTRONIC  
TORQUE WRENCH

INSERT TOOLS

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# TORQUE WRENCHES

*The Right Torque is just one Click away*

The correct use of a torque wrench ensures that a bolted connection does not loosen or break in practice. This prevents damage to machines or loss of parts. NovaTork develops and produces a wide range of torque wrenches that help you ensure your productivity and quality. The torque wrenches are easy and precise to adjust.

#### CLICK TORQUE WRENCHES / ASSEMBLY WRENCHES

For torque application when assembling bolts. Equipped with fixed ratchet head or as an insert spanner for optimum flexibility. Also available in screwdriver version.

**GSM Model** in full metal with micrometer adjustment.  
**STM Model** with non-slip handle made of technical plastic, oil-resistant.

#### DIGITAL ASSEMBLY WRENCHES

The assembly wrenches are digitally adjustable by torque or by both torque and angular rotation. This ensures that the bolted connection is tightened correctly.

**EJM Model** with digital display.  
**ESM Model** with digital display in screwdriver form.  
**EAM Model** with digital display including angle of rotation.

#### PRE-SET ASSEMBLY WRENCHES

Industrial pre-set torque wrenches are set to a predetermined torque. The operator cannot change it, so the torque is guaranteed to remain as you have set it.

**PC Model** with fine-toothed ratchet head.  
**PCH Model** with rectangular insertion end for a wide range of insert tools.

#### DIAL TORQUE WRENCHES

Regularly, you will need to check your finished product or adjust machines. To do this, you use a measuring torque wrench that indicates how much torque a bolt is mounted with.

**DSM Model** with mechanical display.  
**EJM Model** with digital display.  
**ESM Model** with digital display in screwdriver form.  
**EAM Model** with digital display including angle of rotation.

#### INSERT TOOLS

In addition we offer a variety of insert tools, for example with square drive open end, in angle or with ratchet head for rectangular shank head torque wrenches.

# TORQUE SCREWDRIVER

*ES Series: Digital Torque Screwdriver*

*0.2 ~ 6 Nm*



ESM MODEL

Type	Hexagon	Torque Nm	Weight kg	Width mm	Length mm
ESM1100	1/4"	0.2~1	0.23	40	210
ESM1250	1/4"	0.5~2.5	0.23	40	210
ESM1360	1/4"	0.6~3.6	0.23	40	210
ESM16	1/4"	1~6	0.23	40	210

**FEATURES**

- Accuracy: ±2%
- Torque units: Lb.in, cNm, Kg.cm.
- Target torque can be easily set on the LCD display.
- LED light and buzzer alarming.
- Backlight can be turned on, good for dark condition.
- Peak value hold function.

- Automatic zero clearing when used continuously.
- Battery level display.
- Handgrip in engineering plastic, oil resistant and non-slip resistant, durable.
- The built-in lithium battery can be charged by the dedicated charging adapter.
- Automatically shuts off after 3 minutes of non use.

*MS Series: Mechanical Torque Screwdriver*

*0.2 ~ 6 Nm*



MSM MODEL

Type	Hexagon	Torque Nm	Weight kg	Width mm	Length mm
MSM1100	1/4"	0.2~1	0.26	38	172
MSM1250	1/4"	0.5~2.5	0.26	38	172
MSM1360	1/4"	0.6~3.6	0.26	38	172
MSM16	1/4"	1~6	0.26	38	172

**FEATURES**

- Accuracy: ±6%, which conforms to the ASME B107.14 standard.
- 1/4" hexagon socket with a quick-release design, convenient for changing various bits.
- Reliable locking mechanism, light operation.

- Clearer scale, accurate increment.
- Ergonomic handle, double color with soft and hard adhesive, comfortable grip.
- Handgrip in engineering plastic, oil resistant and non-slip resistant, durable.

# PRESET TORQUE WRENCH

*PC Series: Preset Torque Wrench*

*1 ~ 340 Nm*



PC MODEL



PCH MODEL

Type	Square Drive	Torque Nm	Weight kg	Width mm	Length mm
PC112	1/4"	2.5~12	0.45	38	184
PC120	1/4"	4~20	0.45	38	184
PC230	3/8"	6~30	0.5	38	184
PC260	3/8"	10~60	0.56	38	184
PC2125	3/8"	25~125	0.79	38	366
PC3200	1/2"	40~200	1.2	38	457
PC3340	1/2"	65~340	1.96	40	691

Type	Insert tool mm	Torque Nm	Weight kg	Length mm
PCH95S	9 x 12	1~5	0.22	145
PCH910S	9 x 12	2~10	0.23	145
PCH915S	9 x 12	3~15	0.23	145
PCH920	9 x 12	4~20	0.25	155
PCH925	9 x 12	5~25	0.28	178
PCH935	9 x 12	7~35	0.32	205
PCH940S	9 x 12	8~40	0.28	233
PCH950	9 x 12	5~50	0.4	240
PCH985	9 x 12	15~85	0.51	310
PCH9120	9 x 12	25~120	0.6	355
PCH9180T1	9 x 12	40~180	0.7	600
PCH9180	9 x 12	40~180	0.7	400
PCH14200	14 x 18	40~200	0.85	424
PCH14300	14 x 18	60~300	1.3	688

**FEATURES**

- Easy to adjust to desired torque.
- Operator cannot change set torque by accident or by mistake.
- +/-4% Accuracy in clockwise direction (20% to 100% max. Torque).

- Various fittings designed for different applications.
  - **PC Model:** The delicate gearing allows a stroke of at least 8 degrees. Can therefore also be used in compact spaces.
  - **PCH Model:** Head holder for standard 9x12mm or 14x18mm square insert tools.

# CLICK TORQUE WRENCH

GS Series: Mini Micrometer Adjustable (Click) Torque Wrench 1 ~ 40 Nm



GSMH MODEL



GSM MODEL

Type	Insert tool mm	Torque Nm	Weight kg	Width mm	Length mm
GSMH95S	9 x 12	1~5	0.28	28	170
GSMH915S	9 x 12	3~25	0.31	28	194
GSMH925S	9 x 12	5~25	0.33	28	217
GSMH940S	9 x 12	8~40	1.2	28	244

Type	Square Drive	Torque Nm	Weight kg	Width mm	Length mm
GSM15S	1/4"	1~5	0.30	28	183
GSM115S	1/4"	3~15	0.33	28	207
GSM125S	1/4"	5~25	0.35	28	230
GSM240S	3/8"	8~40	0.37	36	260

**FEATURES**

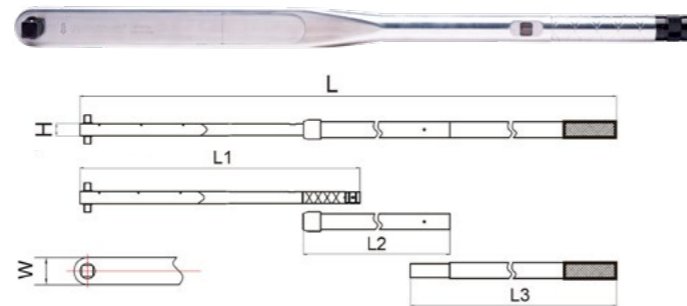
- Accuracy: ±4% in clockwise direction.
- Small sizes and light weight, and can be operated in confined spaces.
- Permanently stamped major and minor scales for precision torque values setting.
- Minor scale is 1/10 of increment of main scale.

- Grooved non-slip grip fits comfortably in your hand.
- Various fittings for different applications:
  - **GSM\_S Model:** The delicate gearing allows a stroke of at least 8 degrees. Can therefore also be used in compact spaces.
  - **GSMH\_S Model:** Head holder for standard 9x12mm rectangular shank heads.

AU-Series: Aluminium Torque Wrench 100 ~ 2000 Nm

**FEATURES**

- Accuracy: +/- 4% at 20% to 100% of capacity
- Clearly readable scale
- Scale division in Nm or Lbft
- Lightweight
- Blocking device prevents inadvertent shifting of the set torque
- Clearly readable decimated scale
- Built-in ratchet head for counterclockwise and clockwise use



AUMR MODEL

Type	Square Drive	Torque Nm	Weight kg	L1 mm	L2 mm	L3 mm	Width (W) x Height (H) mm	Length (L) mm
AUMR4550	3/4"	100~550	2.9	-	-	-	45 x 35	811
AUMR4760	3/4"	160~760	3.2	-	-	-	45 x 35	811
AUMR41000	3/4"	200~1000	5.6	811	754	-	45 x 35	1400
AUMR51500	1"	300~1500	9.8	930	930	-	60 x 40	1598
AUMR52000	1"	400~2000	12	930	930	930	60 x 40	2308

# CLICK TORQUE WRENCH

STM Series: Larger View Window Scale (Click) Torque Wrench 20 ~ 1500 Nm



STMX MODEL



STMH MODEL

Type	Square Drive	Torque Nm	Weight kg	Width mm	Length mm
STMX3100	1/2"	20~100	1.1	48	438
STMX3200	1/2"	40~200	1.3	48	505
STMX3300	1/2"	60~300	1.4	48	565
STMX3400	1/2"	80~400	1.99	50	700
STMX41000	3/4"	200~1000	4.55	70	1210
STMX51500	1"	300~1500	6.5	90	1710

Type	Insert tool mm	Torque Nm	Weight kg	Width mm	Length mm
STMH9100	9 x 12	20~100	0.9	43	423
STMH9150	9 x 12	30~150	1.1	43	463
STMH14150	14 x 18	30~150	1.1	43	467
STMH14200	14 x 18	40~200	1.2	43	494
STMH14300	14 x 18	60~300	1.2	43	554
STMH14400	14 x 18	80~400	1.6	56	707

**FEATURES**

- Unique window scale with fine increments.
- Accuracy is ±4% of the reading value.
- Ergonomic, non-slip handle.
- Handgrip in engineering plastic, oil resistant and non-slip resistant, durable.
- Push/Pull end cap to secure the set torque value from accidental change.
- This wrench is longer than normal torque wrench, more efficiently while long time using.
- Various fittings for different applications:
  - **STMX Model:** Push-through ratchet head for clockwise and counter-clockwise operation.
  - **STMH Model:** Head holder, for 9x12 or 14x18mm rectangular shank heads.
  - **STM Model:** Compact reversible ratchet head for clockwise and counter-clockwise operation.



STM MODEL

Type	Square Drive	Torque Nm	Weight kg	Width mm	Length mm
STM125	1/4"	5~25	0,82	30	321
STM250	3/8"	10~50	1	38	387
STM3100	1/2"	20~100	1,1	40	433
STM3200	1/2"	40~200	1,25	40	491
STM3300	1/2"	60~300	1,4	40	551
STM3340	1/2"	68~340	1,4	40	551
STM3400	1/2"	80~400	1,97	40	700
STM41000	3/4"	200~1000	4,2	60	1105

# DIAL TORQUE WRENCH

DSM Series: Dial Torque Wrench

2 ~ 1000 Nm



DSM MODEL

Type	Square Drive	Torque Nm	Weight kg	Width mm	Length mm
DSM220D	3/8"	2~20	0.57	37	310
DSM250D	3/8"	5~50	1.16	37	400
DSM3200D	1/2"	20~200	1.05	37	550
DSM41000D	3/4"	100~1000	6.4	59	1192

**FEATURES**

- Accuracy: ±3%. (±4% accuracy for wrenches with capacities above 400Nm).
- Alloy steel structure, light weight and more durable.

- DSM-D models are two-way dial torque wrenches and can be operated in Clockwise or Counter-Clockwise direction.

TES Series: Torque Tester

1.2 ~ 1100 Nm



Type	Insert tool mm	Torque Nm	Weight kg	Width mm	Length mm	Height mm
TES112	1/4"	1.2~12	2.2	135	136	85
TES225	3/8"	2.5~25	2.4	135	136	85
TES240	3/8"	4.0~40	2.6	135	136	85
TES275	3/8"	7.5~75	2.8	135	136	85
TES3150	1/2"	15~150	2.9	135	136	85
TES3250	1/2"	25~250	3.1	135	136	85
TES3400	1/2"	40~400	3.2	135	136	85
TES4650	3/4"	65~650	3.2	135	136	85
TES41100	3/4"	110~1100	3.4	135	136	85

Designed for calibration or inspection of torque wrenches at the production site.

**FEATURES**

- Accuracy: ±1% from 10% to 100% of capacity.
- 4 Units: Nm, Kgcm, Lbft, Lbin.
- Three test mode: First Peak, Peak and Track.
- Peak value hold function for First Peak and Peak mode.
- Three-color light and buzzer will alarm when the torque reaches the set value.
- Torque error percentage display function, saves the operator from tedious calculations.

- Backlight optional, good for low light conditions.
- Memory function: Store 1500 sets of data as required, each set include time, unit, and value.
- Battery capacity display.
- Micro-USB port for charging and uploading data to computer.
- Built-in rechargeable lithium battery, easy to charge by connecting the power adapter.
- Four bolts are designed at the bottom for fixing the tester on a workbench or other floor.
- Automatic shutdown after 10 minutes of non-use.

# ELECTRONIC TORQUE WRENCH

EJ Series: Electronic Torque Wrench

3 ~ 300 Nm



EJM MODEL



EJMH MODEL

Type	Square Drive	Torque Nm	Weight kg	Width mm	Length mm
EJM230	3/8"	3~30	0.9	38	427
EJM250	3/8"	10~50	0.93	38	452
EJM2100	3/8"	20~100	1.0	38	482
EJM3200	1/2"	20~200	1.12	40	522
EJM3300	1/2"	30~300	1.52	40	590

Type	Insert tool mm	Torque Nm	Weight kg	Width mm	Length mm
EJMH9100	9 x 12	20~100	0.93	24	453
EJMH14200	14 x 18	20~200	1.08	32	506

**FEATURES**

- Accuracy: ±2%.
- Units: Lbft, Lbin, Nm, Kgm.
- Modes: Peak Torque mode, Track mode.
- Target torque can be set
- Led light and buzzer alarming when reaches target torque.
- Torque error percentage display function.

- Optional backlight, good for dark working condition.
- Automatic reset to zero.
- Battery level display.
- Handgrip in engineering plastic, oil resistant and non-slip resistant, durable.
- Automatically shuts off after 2 minutes of non use.
- LR03 AAA x 3 alkaline batteries.

EA Series: Electronic Angle Torque Wrench

2 ~ 1000 Nm

**FEATURES**

- Accuracy:
  - Torque: CW±2%, CCW±3%.
  - Angle: ( ±1% of reading) + ( ±1° @ angular speed of 10°/s~180°/s) + ( ±1° of test fixture)
- Angle function:
  - High-precision gyroscope angle chip
  - Can preset the target angle value
  - Sound and light alarm function when reaching the target value
- Handgrip in engineering plastic, oil resistant and non-slip resistant, durable.
- Digital Display and functions
  - The reading is intuitive and clear, with high resolution
  - Torque error% display function
  - Angle difference display in angle mode
  - Backlight for dark working condition



EAM MODEL

Type	Square Drive	Torque Nm	Weight kg	Width mm	Length mm
EAM120	1/4"	2~20	0.88	38	427
EAM230	3/8"	3~30	0.88	38	427
EAM250	3/8"	5~50	0.93	38	452
EAM2100	3/8"	10~100	1.0	38	482
EAM3200	1/2"	20~200	1.2	40	522
EAM3300	1/2"	30~300	1.27	40	590
EAM4400	3/4"	40~400	3.3	57	795
EAM4600	3/4"	60~600	4.6	60	1050
EAM4800	3/4"	80~800	5.2	60	1250
EAM41000	3/4"	100~1000	5.2	60	1250



# INSERT TOOLS

*OH: End Fitting 9x12*

Type	Insert tool mm	Weight kg	A mm	D mm	H mm	A/F mm
OH96	9 x 12	0.038	17.5	22	5.5	6
OH97	9 x 12	0.038	17.5	22	5.5	7
OH98	9 x 12	0.037	17.5	22	5.5	8
OH99	9 x 12	0.044	17.5	25	6	9
OH910	9 x 12	0.043	17.5	25	6	10
OH911	9 x 12	0.042	17.5	25	6	11
OH912	9 x 12	0.048	17.5	29	7	12
OH913	9 x 12	0.047	17.5	29	7	13
OH914	9 x 12	0.058	17.5	33	8	14
OH915	9 x 12	0.057	17.5	33	8	15
OH916	9 x 12	0.056	17.5	38	8	16
OH917	9 x 12	0.054	17.5	38	8	17
OH918	9 x 12	0.080	25	43	8	18
OH919	9 x 12	0.075	25	43	8	19
OH920	9 x 12	0.090	25	48	8	20
OH921	9 x 12	0.100	25	48	8	21
OH922	9 x 12	0.095	25	48	8	22
OH923	9 x 12	0.100	25	52	8	23
OH924	9 x 12	0.110	25	52	8	24
OH925	9 x 12	0.110	30	57	8	25
OH926	9 x 12	0.110	30	57	8	26
OH927	9 x 12	0.140	30	57	8	27

*OH: End Fitting 14x18*

Type	Insert tool mm	Weight kg	A mm	D mm	H mm	A/F mm
OH148	14 x 18	0.120	25	30	7	8
OH149	14 x 18	0.118	25	30	7	9
OH1410	14 x 18	0.116	25	30	7	10
OH1411	14 x 18	0.116	25	30	7	11
OH1412	14 x 18	0.112	25	30	7	12
OH1413	14 x 18	0.010	25	32	8	13
OH1414	14 x 18	0.116	25	32	8	14
OH1415	14 x 18	0.115	25	32	8	15
OH1416	14 x 18	0.128	25	38	9	16
OH1417	14 x 18	0.127	25	38	9	17
OH1418	14 x 18	0.138	25	42	10	18
OH1419	14 x 18	0.137	25	41	10	19
OH1420	14 x 18	0.145	25	48	12	20
OH1421	14 x 18	0.158	25	48	12	21
OH1422	14 x 18	0.155	25	48	12	22
OH1423	14 x 18	0.156	25	52	13	23
OH1424	14 x 18	0.195	25	51.5	13	24
OH1425	14 x 18	0.163	25	52	13	25
OH1426	14 x 18	0.163	30	57	14	26
OH1427	14 x 18	0.230	30	57.5	14	27
OH1428	14 x 18	0.255	30	57	14	28
OH1429	14 x 18	0.255	30	57	14	29
OH1430	14 x 18	0.255	35	65	14	30
OH1432	14 x 18	0.255	35	65	14	32
OH1433	14 x 18	0.360	40	68	14	33
OH1434	14 x 18	0.360	40	68	14	34

# INSERT TOOLS

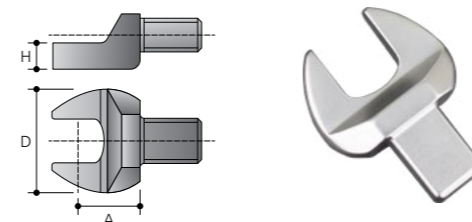
*OH: Open End Spanner at 15 degree Angle*

Type	Insert tool mm	Weight kg	A mm	D mm	H mm	A/F mm
OH910A15	9 x 12	0.070	17.5	28	9	10
OH911A15	9 x 12	0.070	17.5	28	9	11
OH913A15	9 x 12	0.070	17.5	30	9	13
OH914A15	9 x 12	0.073	17.5	30	9	14
OH915A15	9 x 12	0.073	17.5	30	9	15
OH916A15	9 x 12	0.073	17.5	33	9	16
OH917A15	9 x 12	0.080	30	33	7	17
OH919A15	9 x 12	0.080	30	36	7	19
OH920A15	9 x 12	0.080	30	44	9	20
OH921A15	9 x 12	0.084	30	44	9	21
OH922A15	9 x 12	0.084	30	42	8	22

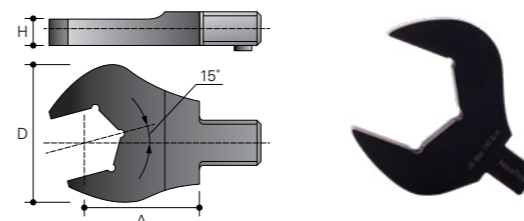
*QH Series: Spanner*

Type	Insert tool mm	Weight kg	A mm	D mm	H mm	A/F mm
QH910	9 x 12	0.048	17.5	22	9	10
QH911	9 x 12	0.047	17.5	22	9	11
QH912	9 x 12	0.054	17.5	22	12	12
QH913	9 x 12	0.054	17.5	22	12	13
QH914	9 x 12	0.052	17.5	23	12	14
QH915	9 x 12	0.054	17.5	25	12	15
QH916	9 x 12	0.056	17.5	28	13	16
QH917	9 x 12	0.055	17.5	28	13	17
QH918	9 x 12	0.058	17.5	29	13	18
QH919	9 x 12	0.057	17.5	31	13	19
QH920	9 x 12	0.068	17.5	33	13	20
QH921	9 x 12	0.068	17.5	34	13	21
QH922	9 x 12	0.073	17.5	35	13	22
QH924	9 x 12	0.080	25	37	13	24
QH927	9 x 12	0.080	25	42	13	27
QH930	9 x 12	0.085	25	46	13	30
QH932	9 x 12	0.085	25	48	13	32

**OH 9X12 & OH 14X18**



**OPEN END SPANNER AT 15 DEGREE ANGLE**

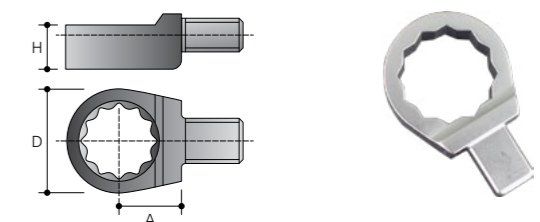


Type	Insert tool mm	Weight kg	A mm	D mm	H mm	A/F mm
OH924A15	9 x 12	0.084	30	44	9	24
OH925A15	9 x 12	0.085	30	46	11	25
OH926A15	9 x 12	0.086	30	50	11	26
OH927A15	9 x 12	0.086	30	50	11	27
OH928A15	9 x 12	0.086	30	54	11	28
OH930A15	9 x 12	0.091	35	54	11	30
OH932A15	9 x 12	0.091	35	60	11	32
OH936A15	9 x 12	0.091	40	65	13	36
OH941A15	9 x 12	0.108	50	70	11	41
OH950A15	9 x 12	0.108	55	87	11	50

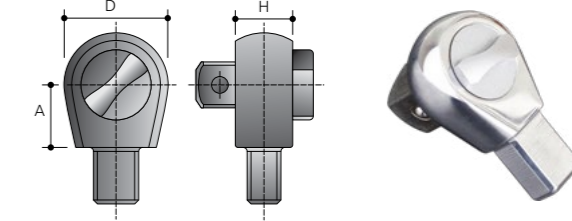
*DH Series: Ratchet Head*

Type	Insert tool mm	Antriebs- vierkant	Weight kg	A mm	D mm	H mm
DH9120	9 x 12	1/4"	0.090	17.5	30	16.2
DH9125	9 x 12	1/4"	0.135	17.5	38	21
DH92160	9 x 12	3/8"	0.160	17.5	38	21
DH93160	9 x 12	1/2"	1.160	17.5	38	21
DH143420	14 x 18	1/2"	0.280	25	40	21

**QH SERIE**



**DH SERIE**



# ACCESSORIES



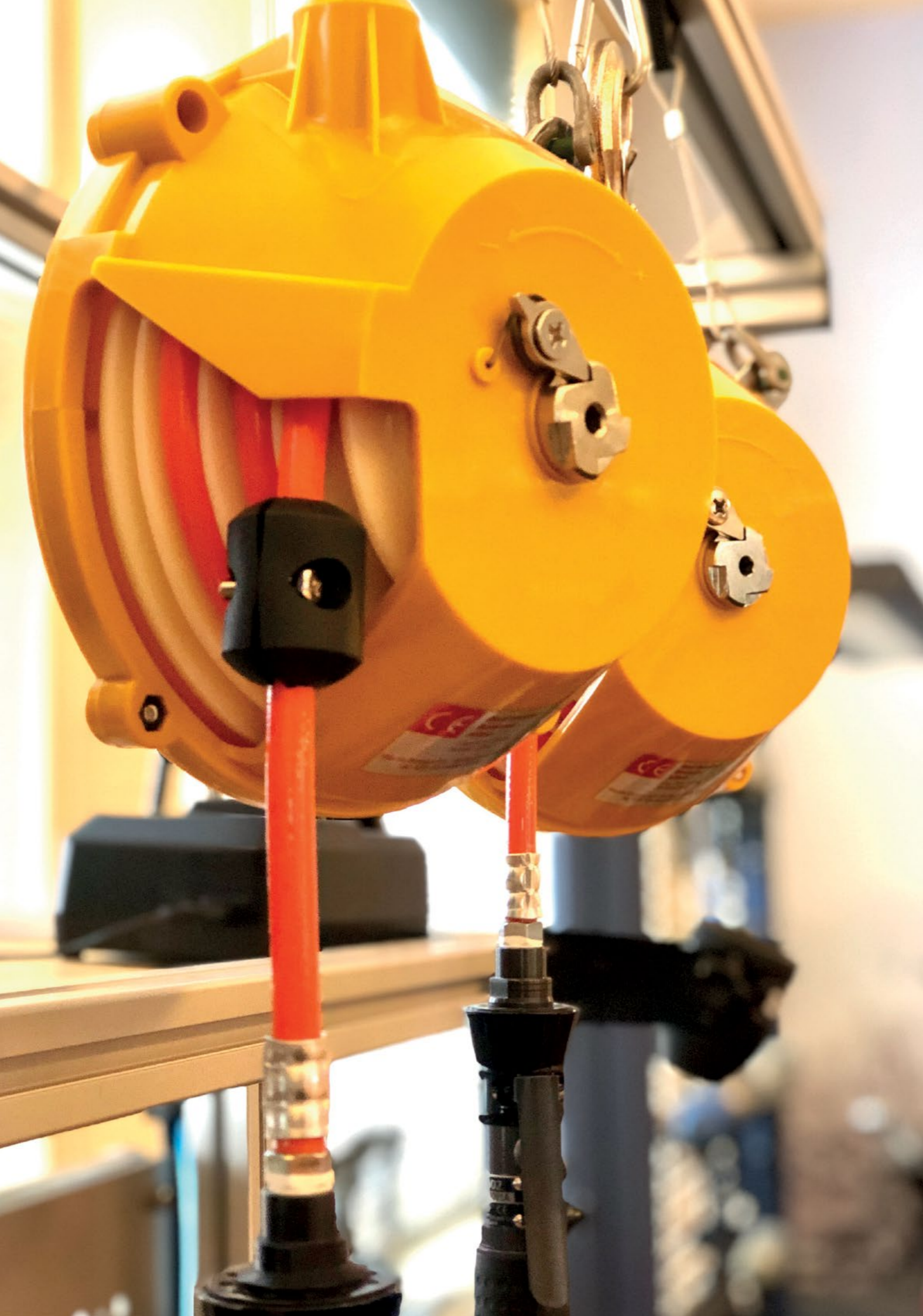
# ACCESSORIES

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The proper choice of tools is not the only element to take into consideration when you aim to improve productivity. Accessories that enable an operator more flexibility and avoid physical burden, can make a big difference and will increase the operators efficiency as well as decrease the occurrence of injuries.

When an operator is supported through the use of a balancer, it is possible to work for longer hours with less stress. Moving around the workplace through the use of spiral hoses and swivel joints increase flexibility while the use of the right lubricant avoids premature maintenance and risk of costly failures.

Rami Yokota can assist you in choosing the adequate accessories that suit your tools and workplace. Resulting in less downtime on the production line and more safety and satisfaction among employees.



# ACCESSORIES

## Tool Holder



Order number	Ø	For type
61022-TH001	42 mm	RRI-SP11602, RRI-SP10902, RRI-SP21704, RRI-SP21104, RRI-SP20705, RRI-SP31706, RRI-SP31108, RRI-SP30710, RRI-SP30511, Y-41A(JQ), Y-46A(E)(JQ), Y-56A(E)(JQ), Y-61A(E)
61022-TH002	47 mm	RRI-30(A), RRI-30T(AT), RRI-40T(AT), RRI-40X(AX), RRI-50T(AT), RRI-50X(A), RRI-60(AX), RRI-60T(AT), TKA60(A), TKA70(A), TKA80(A), YEX120(A), YEX150(A), YLA60A(JQ), YLA60E(JQ), YLA70A(JQ), YLA70E(JQ), YLA80A(JQ), YLA80E(JQ), YLT60AL(EL), YLTX50A, YLTX50E, YLTX60A, YLTX60E, YLTX70A(E), YLT70AL(EL)
61022-TH003	58 mm	RRI-BS3, RRI-BS6, RRI-BS9, RRI-BI32T, RRI-BI55T, RRI-BI100T, RRI-BI120T, RRI-BIM15T, RRI-BIM25T, RRI-BIM35T, RRI-BIM45T, RRI-BIM65T, RRI-70(A)/80/90, RRI-70T(AT), RRI-80T, RRI-90T, TKA600(A), TKA700(A), TKA800, TKA900, TKA90, TKA110, TKA120, Y70E(JQ), YLT80E, YLT80EL, YLT110EL, YLA90E, YLA110E, YLA120E, YLTX110E, YS-E600, YS-E800, YS-E900, YS-E950
61022-TH004	73 mm	E-M500, E-M700, E-M900, E-M1100, RRI-100T, RRI-130T, RRI-150T, TKA1110, TKA1200, TKA1400, TKA1500, TKA150, Y-140(JQ), YEX-1400, YLA140E, YLT120EL, YLT140EL, YLTX120E, YLTX140E,



Order number	For type
61022-TH005	RRI-BIM-Serie RRI-BS-Serie RRI-BI-Serie RRI-BA-Serie YS-E-Serie YZ-NP-Serie YZ-T-Serie



# ACCESSORIES

## Tool Cable & Valves

### YOKOTA TORQUE MEASURING EQUIPMENT

Yokota torque measuring equipment (YET Series) is especially designed to check and test the functioning and performance of impulse wrenches. All specified torque figures in this brochure are measured on a Yokota torque tester (YET series), with 0,63 MPa air pressure (dynamic). This is a static torque tester. Torque values may differ with other measuring equipment and/or joints (hard/soft).



For type	Range
YET-501C	5-50 Nm
YET-2001C	20-200 Nm
YET-5001C	100-500 Nm



### VALVES FOR SYSTEM WRENCHES

Description	Order number
3/8" NC	VP542-5Y01-03FA
3/8" NO	VP542-5Y01-03FB
1/2" NC	VP742-5Y01-04FA
1/2" NO	VP742-5Y01-04FA



### 2 STEP VALVE SET

Description	Order number
3/8" NC	YETC-2 SVD 3/8
1/2" NC	YETC-2SVD 1/2



### ELECTRONIC VALVE FOR TWO STEP TIGHTENING

Description	Order number
1/2" NC	SO-ITV3050-404BS3-CPL

### TOOL CABLE FOR YOKOTA SYSTEM WRENCHES

Tool cable	Order number
7 meter, 2 connectors, female	7802-1581-00-06
10 meter, 2 connectors, female	7802-1581-00-08
12 meter, 2 connector, female	7802-1581-00-09
15 meter, 2 connector, female	7802-1581-00-10
10 meter extension cable (f/m)	7802-1580-00-09
Connection cable, 50 cm	7802-1579-00-01



### SPECIAL JOINT FOR YTC-3 CONTROLLER

For type	Order number
Special joint for 3/8" tool	7671-0077-00-97
Special joint for 1/4" bigger size tool	7671-0077-00-98
Special joint for 1/4" smaller size tool	7671-0077-00-99

# ACCESSORIES

## Rubber Protection Cover for Impulse- & System Wrenches



For type	Order number
E-M500	0368-0029-00-01
E-M700	0368-0029-00-01
E-M900	0368-0029-00-01
E-M1100	0378-0029-00-01

For type	Order number
RRI-30/40/50(A/T)	I40-109-A05
RRI-40/50(A/X)	I40X-109
RRI-60(A/X)	I60X-109
RRI-60(A/T)	I60-109-A05
RRI-70(T)	I70-109-A05
RRI-80(T)	I80-109
RRI-90(T)	I90-109-A05
RRI-100(T)	I100-109-A05
RRI-130(T)	I130-109-A05
RRI-150(T)	I150-109-A05
RRI-180(T)	I180-109-A05
RRI-200(T)	I200-109

For type	Order number
RRI BCA 16/30	33116-NRA-01
RRI BCA 50/60	33116-WRCA-02
RRI-BCP	33116-NPA-01

For type	Order number
RRI-BA10S3	C16WR
RRI-BA16S3	C16WR
RRI-BA30S3	C16WR
RRI-BA35S3	C16WR
RRI-BA50S3	C16WRB50
RRI-BA70S3	C16WRB70
RRI-BA90S4	C16WRB70

For type	Order number
RRI-BIM15T (AT)	C16PW-15
RRI-BIM25T (AT)	C16PW-25
RRI-BIM35T	C16PW-25
RRI-BIM45T	C16PW-45
RRI-BIM65T	C16PW65

For type	Order number
RRI-BS	C16SC180B

For type	Order number
TKA60	0186-0029-00-00
TKA70	0186-0029-00-00
TKA80	0193-0029-00-00
TKA90	0181-0029-00-00
TKA110	0187-0029-00-00
TKA120	0342-0029-00-00

For type	Order number
TKA140	0341-0029-00-00
TKA150	0343-0029-00-00
TKA600	0358-0029-00-00
TKA700	0358-0029-00-00
TKA800	0360-0029-00-00
TKA900	0355-0029-00-00
TKA1110	0356-0029-00-00
TKA1200	0388-0029-00-00
TKA1400	0357-0029-00-00
TKA1500	0384-0029-00-00

For type	Order number
Y-41	0161-0029-00-00
Y-46	0160-0029-00-00
Y-56	0159-0029-00-00
Y-61	0158-0029-00-00
Y-70	0135-0029-00-00
Y-90	0141-0029-00-00
Y-100	0334-0029-00-00
Y-130	0335-0029-00-00
Y-140	0412-0029-01-00

For type	Order number
YED-200	0409-0029-00-00
YEX-120	0093-0029-00-00
YEX-150	0093-0029-00-00
YEX-501	0260-0029-00-w00
YEX-701	0143-0029-00-00
YEX-901	0261-0029-00-00

For type	Order number
YEX-1400	0323-0029-00-00
YEX-1900	0321-0029-00-00
YEX-3000	0407-0029-00-00

For type	Order number
YLA60	0189-0029-00-00
YLA70	0189-0029-00-00
YLA80	0191-0029-00-00
YLA90	0188-0029-00-00
YLA110	0190-0029-00-00
YLA120	0345-0029-00-00
YLA140	0346-0029-00-00

For type	Order number
YLTX50	0371-0029-00-00
YLTX60	0371-0029-00-00
YLTX70	0372-0029-00-00
YLTX80	0373-0029-00-00

For type	Order number
YLTX110	0379-0029-00-00
YLTX120	0380-0029-00-00
YLTX140	0381-0029-00-00
YLTX150	0382-0029-00-00

For type	Order number
YS-E600	0444-0029-00-00
YS-E800	0445-0029-00-00
YS-E900	0446-0029-00-00
YS-E950	0447-0029-00-00

For type	Order number
YX-180	0089-0029-00-00
YX-280	0081-0029-00-00
YX-380	0086-0029-00-00
YX-500	0077-0029-00-01
YX-700	0129-0029-00-01
YX-900	0237-0029-00-01
YX-1100	0241-0029-00-00
YX-1400	0322-0029-00-00
YX-1900	0320-0029-00-01
YX-2400	0406-0029-00-01
YX-3000	0405-0029-00-00

For type	Order number
YZ-NP600A	0454-0029-00-00
YZ-NP600E	0454-0029-00-00
YZ-NP800A	0455-0029-00-00
YZ-NP800E	0455-0029-00-00
YZ-NP900E	0456-0029-00-00
YZ-NP950E	0457-0029-00-00

For type	Order number
YZ-T600A	0458-0029-00-00
YZ-T600E	0458-0029-00-00
YZ-T800A	0459-0029-00-00
YZ-T800E	0459-0029-00-00
YZ-T900E	0460-0029-00-00
YZ-T950E	0461-0029-00-00

# ACCESSORIES

## Service Sets

You will need service sets with spare parts if you are going to change the oil. For quick service we advise you to use a vacuum pump (Y EVP-1\*) and oil tank (Y EVP-1T\*).

Always use oil with the right specifications when changing oil. Only then you will have an optimal tool power and a minimum oil consumption. We recommend Red Rooster oil for impulse wrenches: 01-0507. (p.96).



### SERVICE SETS CONTAINING

O-rings, back up rings and springs for impulse mechanisms for oil change.

For type	Order number
E-M500	0377-0991-00-99
E-M700	0377-0991-00-99
E-M900	0368-0991-00-99
E-M1100	0378-0991-00-99

For type	Order number
RRI-30(X)	I30RK
RRI-40(X)	I40RK
RRI-50(X)	I50RK
RRI-60(X)	I60RK
RRI-70	I70RK
RRI-80	I80RK
RRI-90	I90RK
RRI-100	I100RK
RRI-130	I130RK
RRI-150	I150RK
RRI-180	I180RK
RRI-200	I200RK
RRI-30S	I30SRK
RRI-40S	I40SRK
RRI-50S	I50SRK
RRI-60S	I60SRK
RRI-70S	I70SRK

For type	Order number
RRI-30A(X)	I30RK
RRI-40A(X)	I40DRK
RRI-50A(X)	I50DRK
RRI-60A(X)	I60DRK
RRI-70A	I70DRK
RRI-30SA	I30SDRK
RRI-40SA	I40SDRK
RRI-50SA	I50SDRK
RRI-60SA	I60SDRK
RRI-70SA	I70SDRK
RRI-50R	I50RRK
RRI-60R	I60RRK
RRI-70R	I70RRK
RRI-70RG	I70RGRK
RRI-70RH	I70RHRK
RRI-80RH	I80RHRK
RRI-50RA	I50RDRK
RRI-60RA	I60RDRK
RRI-70RA	I70RDRK

For type	Order number
RRI-30T	IS30RK
RRI-40T	IS40RK
RRI-50T	IS50RK
RRI-60T	IS60RK
RRI-70T	IS70RK
RRI-80T	IS80RK
RRI-90T	IS90RK
RRI-100T	IS100RK
RRI-130T	IS130RK
RRI-150T	IS150RK
RRI-180T	IS180RK
RRI-200T	IS200RK
RRI-30ST	IS30SRK
RRI-40ST	IS40SRK
RRI-50ST	IS50SRK
RRI-60ST	IS60SRK
RRI-70ST	IS70SRK
RRI-80ST	IS80SRK

For type	Order number
RRI-BIM15	I40RK
RRI-BIM25	I70RK
RRI-BIM35	I70RK
RRI-BIM45	I80RK
RRI-BIM65	32399-001

For type	Order number
TKA-60	0186-0991-00-99
TKA-600	0186-0991-00-99
TKA-70	0186-0991-00-99
TKA-700	0186-0991-00-99
TKA-80	0193-0991-00-99
TKA-800	0193-0991-00-99
TKA-90	0181-0991-00-99
TKA-900	0181-0991-00-99
TKA-110	0187-0991-00-99
TKA-1110	0187-0991-00-99
TKA-120	0342-0991-00-99
TKA-140	0341-0991-00-99
TKA-1400	0341-0991-00-99
TKA-150	0343-0991-00-99
TKA-1500	0343-0991-00-99

For type	Order number
Y-41	0095-0991-00-99
Y-46	0273-0991-01-99
Y-56	0158-0991-01-99

For type	Order number
Y-61	0158-0991-01-99
Y-70	0135-0991-03-99
Y-90	0141-0991-01-99
Y-100	0334-0991-01-99
Y-130	0335-0991-00-99
Y-140	0412-0991-02-09

For type	Order number
YBX-1	0158-0991-01-99
YBX-50	0158-0991-01-99
YBX-600T	0189-0991-00-99
YBX-800T	0191-0991-00-99

For type	Order number
YED-200	0409-0991-00-99
YED-240S	0411-0991-02-99

For type	Order number
YEX-120	0089-0991-01-99
YEX-150	0089-0991-01-99
YEX-300S	0086-0991-01-99
YEX-500S	0077-0991-02-99
YEX-701	0143-0991-00-99
YEX-901	0237-0991-01-99
YEX-1400	0323-0991-00-99
YEX-1900	0320-0991-00-99
YEX-3000	0405-0991-00-99

For type	Order number
YLA60	0199-0991-00-99
YLA70	0189-0991-00-99
YLA80	0191-0991-00-99
YLA90	0188-0991-00-99
YLA110	0190-0991-00-99
YLA120	0345-0991-00-99
YLA140	0346-0991-00-99

For type	Order number
YLT50	0383-0991-01-99
YLT60	0371-0991-01-99
YLT70	0372-0991-01-99
YLT80	0373-0991-01-99
YLT110	0379-0991-01-99
YLT120	0380-0991-01-99
YLT140	0381-0991-01-99
YLT150	0382-0991-01-99

For type	Order number
YLTX50	0389-0991-00-99
YLTX60	0390-0991-00-99
YLTX70	0391-0991-00-99
YLTX80	0392-0991-00-99
YLTX110	0395-0991-00-99
YLTX120	0396-0991-00-99
YLTX140	0398-0991-00-99
YLTX150	0399-0991-00-99

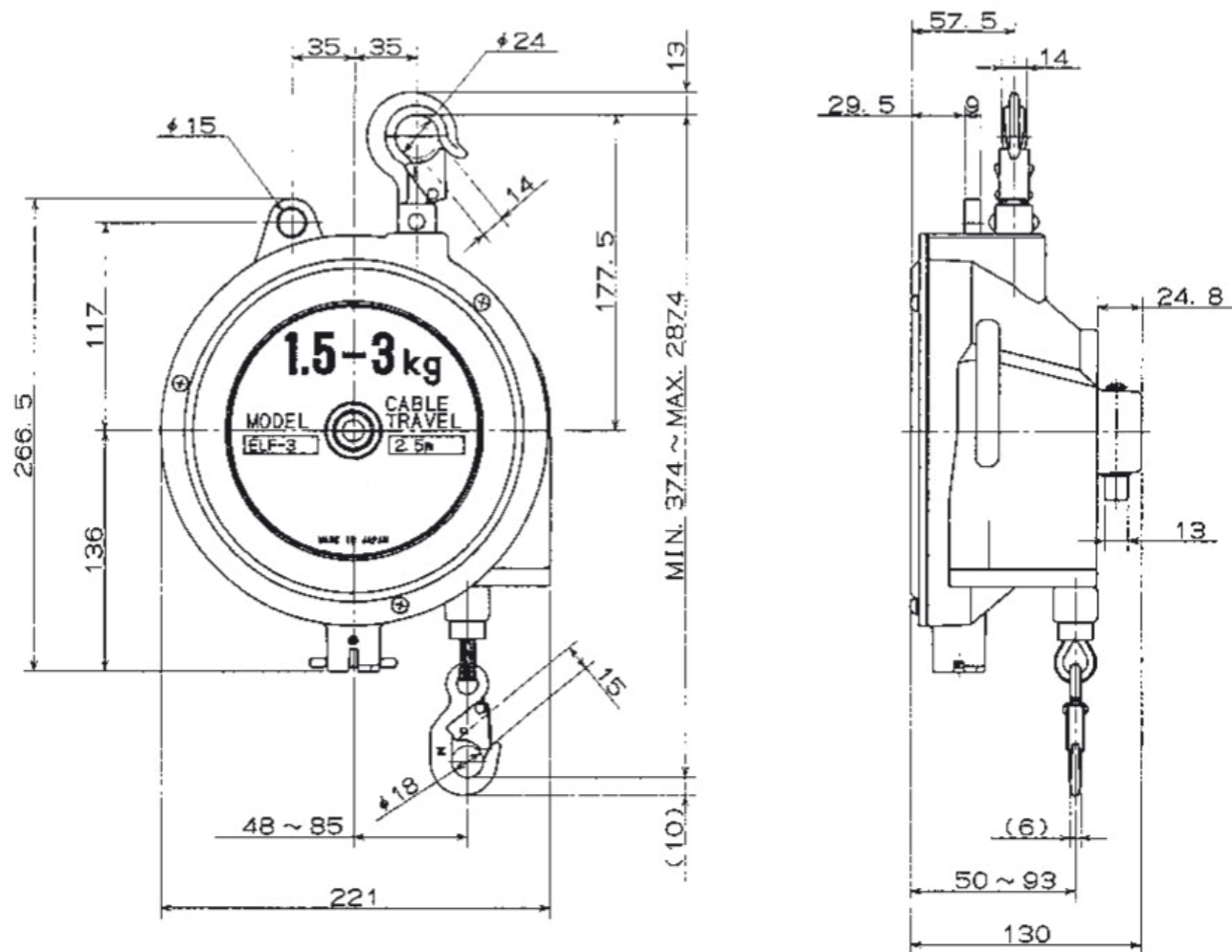
For type	Order number
YS-E600	0193-0991-00-99
YS-E800	0193-0991-00-99
YS-E900	0181-0991-00-99
YS-E950	0181-0991-00-99

For type	Order number
YX-80	0095-0991-00-99
YX-180	0089-0991-01-99
YX-280	0089-0991-01-99
YX-380	0086-0991-01-99
YX-500S (C)	0086-0991-01-99
YX-500	0077-0991-02-99
YX-700 (S)	0129-0991-00-99
YX-700C	0281-0991-01-99
YX-900	0237-0991-01-99
YX-1100	0237-0991-01-99
YX-1400	0322-0991-00-99
YX-1900	0320-0991-00-99
YX-2400	0320-0991-00-99
YX-3000	0405-0991-00-99

# BALANCERS

## Dimensions

You can find the dimensions of our spring balances on our website.



# BALANCERS

## Types

### BALANCERS

Type	Capacity kg	Cable length m	Weight kg
RRI-9001/1	0,5-1,5	2	0,5
RRI-9003/1	1-3	2	0,7
RRI-9005/1	2,5-5	2	0,9
TW-0	0,5-1,5	1	0,5
TW-3C	1-3	1,7	1,65
TW-5C	2,5-5	1,7	1,75
TW-6.5C	4-6,5	1,7	1,75
TW-9	4,5-9	1,3	3,4
TW-15	9-15	1,3	3,8
TW-22	15-22	1,5	7,2
TW-30	22-30	1,5	7,6
TW-40	30-40	1,5	9,8
TW-50	40-50	1,5	10,4
TW-60	50-60	1,5	11,6
TW-70	60-70	1,5	11,8
ETP-14	120-140	1,2	24,1
ETP-15	140-170	1,2	28,7
ETP-16	170-200	1,2	29,7



### SPRINGBALANCERS: HOSEREEL WITH INTEGRATED CABLE

Type	Capacity kg	Cable length m	Weight kg	Hose diameter mm	Air cons. l/min	Inlet thread
HTB-0	0,5-1,5	1,3	1,58	6,5	700	PT 1/4"
HTB-1	1,5-3	1,3	1,66	6,5	700	PT 1/4"
HTB-2	3-5	1,3	1,73	6,5	700	PT 1/4"



### SPRINGBALANCERS: LONG STROKE

Type	Capacity kg	Cable length m	Weight kg
ELF-3	1,5-3	2,5	4,1
ELF-5	3-5	2,5	4,2
ELF-9	5-9	2,5	4,7
ELF-15	9-15	2,5	10
ELF-22	15-22	2,5	10,2
ELF-30	22-30	2,5	11
ELF-40	30-40	2,5	14
ELF-50	40-50	2,5	14,5
ELF-60	50-60	2,5	17
ELF-70	60-70	2,5	18



### EXTRA SAFETY

The models ETP, ELF and TW from TW-9 upwards have a safety mechanism which activates in case of spring breakage. These models also have a locking button for easy tool changes.

# BLOW GUNS & FITTINGS

## Blow Guns



Type	Brand	Air cons. l/sec	Weight kg	Inlet thread	Hose diameter mm
VMG11W-F02	SMC	1-6 *	0,2	PT 1/4"	6,5
RRI-21930	RRI	5	0,14	PT 1/4"	6,5
RRI-21930-250	RRI	5	0,17	PT 1/4"	6,5

\* Depending on nozzle size, to be ordered separately.

### DIMENSIONS

Type	A mm	B mm
VMG11W-F02	140	164
RRI-21930	80	250
RRI-21930-250	80	370

## Fittings

SMC's KQ2 fittings require up to 30% less force to insert the hose. Because there is little resistance when dismantling, they are easier to assemble, therefore reducing labour costs. The KQ2 series is compact light weight and has small dimensions for use in limited spaces. The series includes over 50 variants for the most flexible solutions.

### CHARACTERISTICS

- Thread: brass and brass/nickel plated
- Oval release button (Ø4, Ø6)
- Hose is easier to insert and remove
- 30% less insertion force, 20% less removal force
- Compact and lightweight
- Extensive product range for maximum flexibility in design
- Wide range of hose diameters: from 4 to 16 mm (threaded connection: M5 to 1/2")

### APPLICATIONS

- The KQ2 is a standard fitting, therefore very versatile
- Suitable for water, air and vacuum

### ACCESSORIES



### NOZZLES FOR THE VMG11W-F02

Nozzle size mm	Order number	Connection thread	Outside diameter mm	L (mm)
ø1	KN-R02-100	R 1/4"	-	31.4
ø1.5	KN-R02-150	R 1/4"	-	31
ø2	KN-R02-200	R 1/4"	-	30.5
ø2.5	KN-R02-250	R 1/4"	-	30.1
ø1	KNH-R02-100	R 1/4"	-	52
ø1.5	KNH-R02-150	R 1/4"	-	52
ø2	KNH-R02-200	R 1/4"	-	52
ø0.75 x 4	KNS-R02-075-4	R 1/4"	-	20
ø0.9 x 8	KNS-R02-090-8	R 1/4"	-	20
ø1 x 4	KNS-R02-100-4	R 1/4"	-	20
ø1.1 x 8	KNS-R02-110-8	R 1/4"	-	20
ø1.5	VMG1-06-150-100	R 1/4"	ø6	100
ø2	VMG1-06-200-100	R 1/4"	ø6	100
ø1.5	VMG1-06-150-150	R 1/4"	ø6	150
ø2	VMG1-06-200-150	R 1/4"	ø6	150
ø1.5	VMG1-06-150-300	R 1/4"	ø6	300
ø2	VMG1-06-200-300	R 1/4"	ø6	300
ø1.5	VMG1-06-150-600	R 1/4"	ø6	600
ø2	VMG1-06-200-600	R 1/4"	ø6	600



### ADVANTAGES

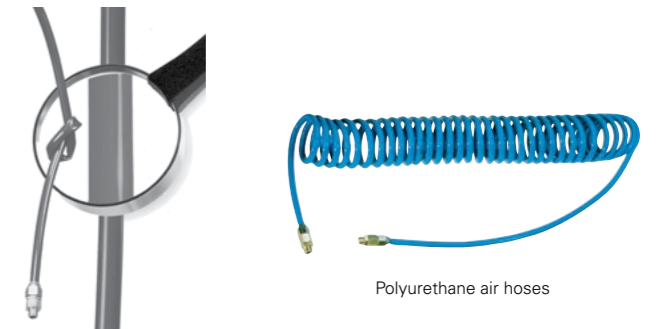
- Flexibility, suitable for various applications
- Easy and fast assembly with reduced labour costs
- Small dimensions for small spaces and lower inertia when mounted in mobile applications due to weight reduction
- High comfort in operation

# POLYURETHANE SPIRAL AIR HOSES & TU HOSES

Type	Brand	Working length m	Total length m	Inside diameter mm	Outside diameter mm	Joint connection
PT-02510SJ	RR	2	2,5	6,5	9,5	1/4"
PT-02525SJ	RR	4	5	6,5	9,5	1/4"
PT-02550SJ	RR	9	10	6,5	9,5	1/4"
PT-03525SJ	RR	4	5	8	12	1/4"
PT-03550SJ	RR	9	10	8	12	1/4"
PT-04525SJ	RR	4,2	4,7	9,5	13,5	3/8"
PT-04550SJ	RR	9	10	9,5	13,5	3/8"

### FEATURES

- Both ends executed with universal swivel-joints
- Provided with straight ends of 10 and 50 cm
- Increased flexibility, no kinks after bending
- Max. pressure 1.0 MPa
- Oil and petrol resistant
- Temperature -40°C. up to +80°C
- Swivel executed with ballbearings
- Can be used in combination with balancers



Polyurethane air hoses

## Colourful TU Hoses by SMC

SMC's TU series stands out because of its colourful appearance, making the variants instantly recognisable. The TU and TUS are suitable for general applications (air and water) and are available as standard in eight colours. The TU series is made of polyurethane, which offers excellent flexibility. The series is available in diameters from Ø2 to Ø16 mm, lengths from 20 to 100 m and in 29 colours. Larger roll lengths up to 500 m and FDA approved are available on request.



### FEATURES

- The soft polyurethane TUS is extremely flexible. Available in diameter Ø4 to Ø12 mm and lengths from 1 to 20 m.
- For extremely heavy applications in cable ducts, the strong TUS offers a solution for very heavy applications in cable ducts. This version is available in six colours, with diameter Ø4 to Ø12 mm, length up to 100 m and optionally two to six cores.

# ACCESSORIES

## Oil, Regulator & Swivel Joint

### Oil



Atlub is the perfect lubricant especially developed to meet the lubrication requirements of pneumatic tools. Atlub is based on a water soluble synthetic lubricant, containing a well balanced choice of additives to obtain the following properties:

- Very good protection against wear, corrosion and oxidation
- No forming of ice in pneumatic tools and machinery
- A good protection against deposit in the pneumatic system
- Good cleaning properties
- Compatibility with seal and gaskets made from synthetic material

Atlub can be used in an air-line or microfog lubricator for lubrication of hammers, pile-drivers drills, grinders, pumps, hoists, clamps and vices. Atlub will not mix with other mineral oils. With Atlub as the lubricant it is possible to work at very low temperatures, even at -25°C, without freezing of the pneumatic system.

Type	Brand	Description	Litre
Atlub	RR	Lubricating oil	1
NOBP	Yokota	Oil for Yokota impulsewrenches	1
01-0508	RR	Oil for Red Rooster impulsewrenches	0,1
01-0508C	RR	Oil for Red Rooster impulsewrenches RRI-200(T)	0,1
01-0507	RR	Oil for Red Rooster impulsewrenches	1
01-0507C	RRI	Oil for Red Rooster impulsewrenches RRI-200(T)	1
Innotec-1101	Nutriflon	Oil for food industry	5

### Regulator

#### FEATURES

- Can be easily inserted in the inlet of any air tool
- Reduces the flow of air and the power speed of the air tool

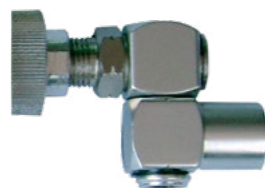


Type	Brand	Description	Inlet thread
8130-1001-00-00	Yokota	Regulator	PT 1/8"
8130-1002-00-00	Yokota	Regulator	PT 1/4"
8130-1003-00-00	Yokota	10 step regulator	PT 1/4"

### Universal Swivel Joint

#### FEATURES

- Optimal ergonomics
- Swivels in all directions
- Increases flexibility of air tool use

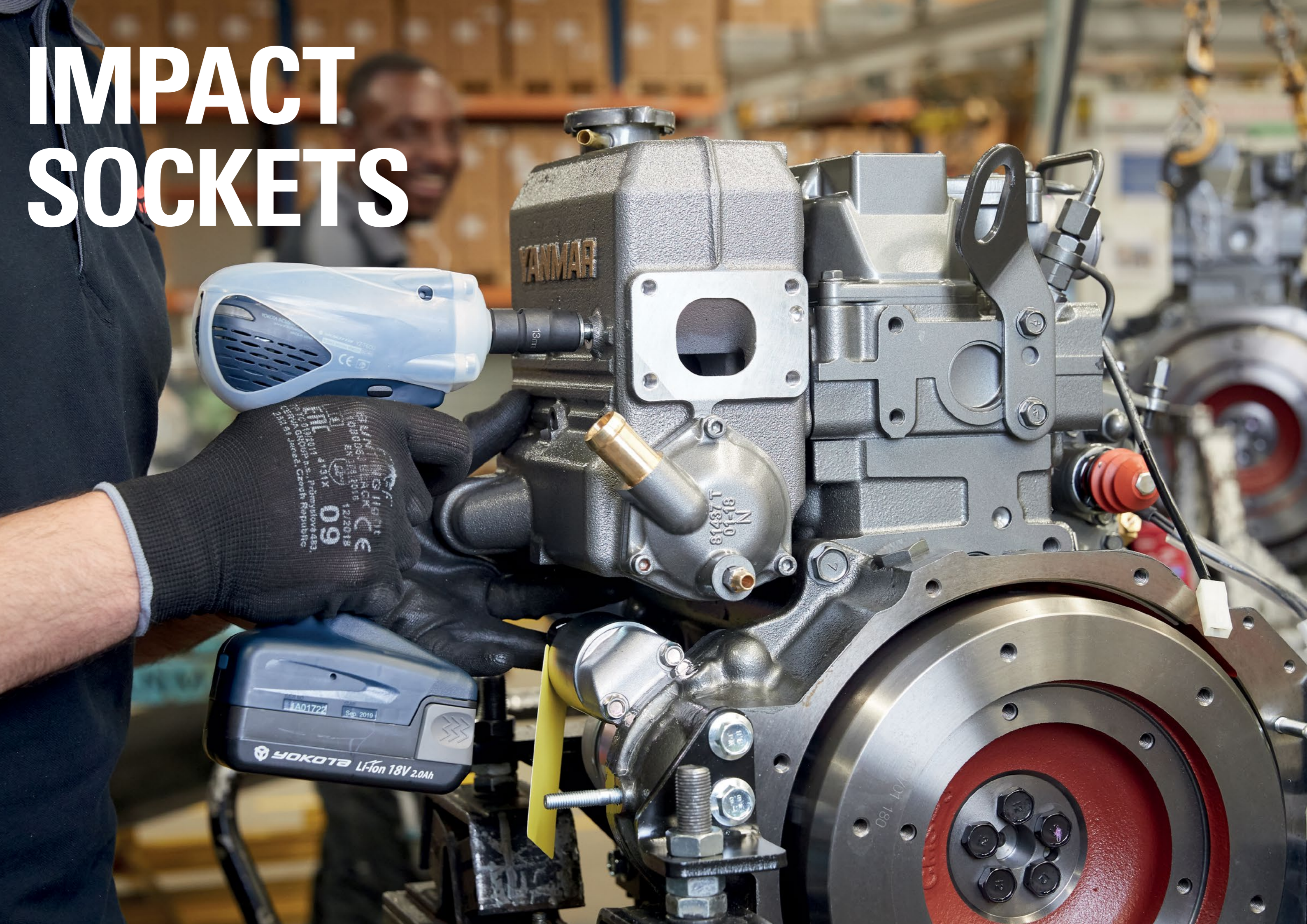


Type	Order number
Universal Swivel Joint 1/4"	922A18
Universal Swivel Joint 3/8"	933A19
Universal Swivel Joint 1/2"	944A





# IMPACT SOCKETS



# IMPACT SOCKETS

Action is the worlds' largest manufacturer of impact sockets. Its impact sockets are durable, of high quality and competitively priced and manufactured from the best materials (chrom-molybdenum alloy steel). The Action impact sockets can be used for any kind of power tools; air, electric, hydraulic or battery, and for any kind of application ranging from car repair shops to the car industry. At Rami Yokota we have a very large continuous stock available, ranging from 1/4" drive to 2 1/2" drive.



## SQUARE DRIVE

Action impact sockets are available for square drives of 1/4" up to 2 1/2". The shape of the square drive of these sockets is characterized by rounded off corners, so the square drive of the power tool has the best possible fit. This means that the torque is transmitted on a large area, not only the corners of the socket. This results in good endurance of the sockets and a long lifetime.



## 6-POINT SOCKETS

The 6-point sockets manufactured by Action also have rounded off corners. The rounded corners allow some space for the points of the bolt head, so the torque is transmitted on the flanks of the bolt head, giving you better results. Driving the flanks also means that the wear on the points of the bolt head or nut is reduced. For 12 point sockets, a similar geometry is used.

## SURFACE DRIVE SOCKETS

Surface drive sockets are designed



to drive only the center of the flank of a bolt head or nut. The surface drive sockets should be recommended for use on nuts with points that have worn off, but also for nuts of softer materials and polished nuts and bolt heads.



**WARNING!**

The European regulation, directive of machinery 2006/42/EG and EN/ISO 11148-6 states that only IMPACT SOCKETS are to be used on power tools. All Action impact sockets are manufactured according to DIN 3121 and DIN 3129. Universal joints, reducing adaptors and thin wall sockets are supplied without warranty. Always wear safety goggles when using impact equipment. Do not hold the socket while in use.

NOTE: If you can't find the proper dimensions please contact us.

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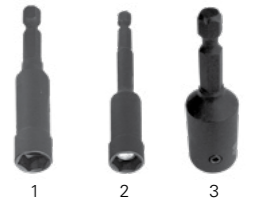
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## IMPACT SOCKETS

# 1/4" HEX DRIVE FOR SCREWDRIVERS

ACTION



**6-POINT NORMAL** 1

Type	mm	Drawing	D1 mm	L mm	L1 mm	-
Metric						
DO697B0S04	4	AH	8	55	4,5	-
DO697B0S06	6	AH	10	55	4,5	-
DO697B0S07	7	AH	11	55	5	-
DO697B0S08	8	AH	12	55	5	-
DO697B0S10	10	AH	14	55	6,5	-
DO697B0T06	6	AH	10	75	4,5	-
DO697B0T07	7	AH	11	75	4,5	-
DO697B0T08	8	AH	12	75	4,5	-
DO697B0T10	10	AH	14	75	5,5	-
DO697B0T12	12	AH	17	75	5,5	-
DO697B0T13	13	AH	18	75	5,5	-
DO697B0T14	14	AH	19	75	5,5	-
DO697B0W12	12	AH	17	200	5,5	-
DO697B0W14	14	AH	19	200	5,5	-

**6-POINT DEEP MAGNETIC** 2

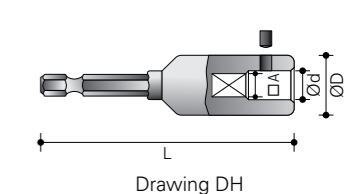
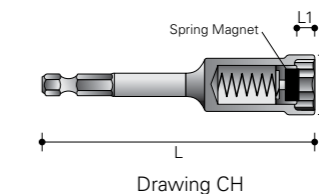
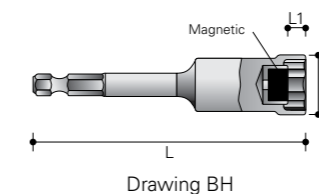
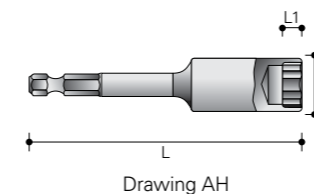
Type	mm	Drawing	D1 mm	L mm	L1 mm	-
Metric						
DO697B6006	6	CH	10	75	4,5	-
DO697B7006	6	CH	10	100	4,5	-
DO697B7008	8	CH	12	100	4,5	-
DO697B7010	10	CH	14	100	5,5	-
DO697B7012	12	CH	17	100	5,5	-
DO697B7013	13	CH	18	100	5,5	-
DO697B7014	14	CH	19	100	5,5	-
DO697B8006	6	CH	10	150	4,5	-
DO697B8008	8	CH	12	150	4,5	-
DO697B8010	10	CH	14	150	5,5	-
DO697B8012	12	CH	17	150	5,5	-
DO697B8013	13	CH	18	150	5,5	-
DO697B8014	14	CH	19	150	5,5	-
DO697B9006	6	CH	10	200	4,5	-
DO697B9008	8	CH	12	200	4,5	-
DO697B9010	10	CH	14	200	5,5	-
DO697B9012	12	CH	17	200	5,5	-
DO697B9013	13	CH	18	200	5,5	-
DO697B9014	14	CH	19	200	5,5	-

**6-POINT MAGNETIC** 2

Type	mm	Drawing	D1 mm	L mm	L1 mm	-
Metric						
DO697B0M06	6	BH	10	55	4,5	-
DO697B0M07	7	BH	11	55	4,5	-
DO697B0M08	8	BH	12	55	4,5	-
DO697B0M10	10	BH	14	55	5,5	-
DO697B0M11	11	BH	16	55	5,5	-
DO697B0M12	12	BH	17	55	5,5	-
DO697B0M13	13	BH	18	55	5,5	-
DO697B0M14	14	BH	19	55	5,5	-
DO697B0N10	10	BH	14	75	5,5	-
DO697B0N12	12	BH	17	75	5,5	-
DO697B0P06	6	BH	10	100	4,5	-
DO697B0P07	7	BH	11	100	4,5	-
DO697B0P08	8	BH	12	100	4,5	-
DO697B0P10	10	BH	14	100	5,5	-
DO697B0P12	12	BH	17	100	5,5	-
DO697B0P13	13	BH	18	100	5,5	-
DO697B0P14	14	BH	19	100	5,5	-
DO697B0P17	17	BH	23	100	5,5	-
DO697B0Q10	10	BH	14	150	5,5	-
DO697B0R07	7	BH	11	200	4,5	-
DO697B0R10	10	BH	14	200	5,5	-

**TAP HOLDERS** 3

Type	A mm	Drawing	Ø d mm	Ø D mm	L mm	-
Metric						
DO63A65001	3,4	DH	4,5	14	55	-
DO63A65002	4,9	DH	6	15	55	-
DO63A65003	5,5	DH	7	16	55	-
DO63A65004	6,2	DH	8	17	60	-
DO63A65005	7	DH	9	18	70	-
DO63A65006	8	DH	10	19	70	-
DO63A65007	9	DH	11	20	70	-
DO63A65008	9	DH	12	21	70	-
DO63A65009	11	DH	14	23	75	-



# 1/4" SQUARE DRIVE



**6-POINT NORMAL** 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO0014-0-004	4	A	7,6	13	23	4
DO0014-0-0045	4,5	A	8,2	13	23	5
DO0014-0-005	5	A	8,8	13	23	5
DO0014-0-0055	5,5	A	9,5	13	23	5
DO0014-0-006	6	A	10	13	23	6
DO0014-0-007	7	A	11,3	13	23	6
DO0014-0-008	8	A	12,5	13	23	7
DO0014-0-009	9	A	13,8	13	23	7
DO0014-0-010	10	C	15	13	23	7
DO0014-0-011	11	C	16,3	13	23	8
DO0014-0-012	12	C	17	13	23	8
DO0014-0-013	13	C	18,8	13	23	8
DO0014-0-014	14	C	20	13	23	8
DO0014-0-015	15	C	21	13	23	8

**6-POINT NORMAL MAGNETIC** 3

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO6050P050	5	A	8,8	13	23	3
DO6050P055	5,5	A	9,5	13	23	3
DO6050P060	6	A	10	13	23	3
DO6050P070	7	A	11,3	13	23	3
DO6050P080	8	A	12,5	13	23	3
DO6050P090	9	C	13,8	13	23	4
DO6050P100	10	C	15	13	23	4
DO6050P110	11	C	16,3	13	23	5
DO6050P120	12	C	17	13	23	5
DO6050P130	13	C	18,8	13	23	5
DO6050P140	14	C	20	13	23	6
DO6050P150	15	C	21	13	23	6
DO0014-1-015	15	C	21	13	50	9

**6-POINT NORMAL** 1

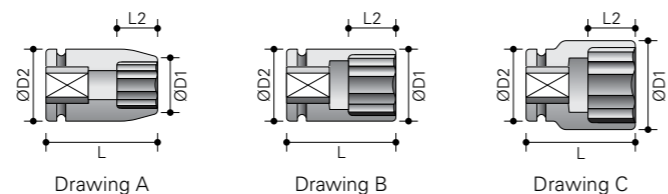
Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Inch						
DO0014-0-3/16	3/16"	A	8,5	13	23	5
DO0014-0-1/4	1/4"	A	10,3	13	23	6
DO0014-0-5/16	5/16"	A	12,5	13	23	7
DO0014-0-3/8	3/8"	C	15	13	23	7
DO0014-0-7/16	7/16"	C	16,3	13	23	8
DO0014-0-1/2	1/2"	C	18,8	13	23	8

**6-POINT DEEP MAGNETIC** 4

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO6050R050	5	A	8,8	13	50	3
DO6050R055	5,5	A	9,5	13	50	3
DO6050R060	6	A	10	13	50	3
DO6050R070	7	A	11,3	13	50	3
DO6050R080	8	A	12,5	13	50	3
DO6050R090	9	C	13,8	13	50	4
DO6050R100	10	C	15	13	50	4
DO6050R110	11	C	16,3	13	50	5
DO6050R120	12	C	17	13	50	5
DO6050R130	13	C	18,8	13	50	5
DO6050R140	14	C	20	13	50	6
DO6050R150	15	C	21	13	50	6

**6-POINT DEEP** 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO0014-1-004	4	A	7,6	13	50	4
DO0014-1-045	4,5	A	8,2	13	50	6
DO0014-1-005	5	A	8,8	13	50	6
DO0014-1-006	6	A	10	13	50	7
DO0014-1-007	7	A	11,3	13	50	7
DO0014-1-008	8	A	12,5	13	50	9
DO0014-1-009	9	C	13,8	13	50	9
DO0014-1-010	10	C	15	13	50	9
DO0014-1-011	11	C	16,3	13	50	9
DO0014-1-012	12	C	17	13	50	9
DO0014-1-013	13	C	18,8	13	50	9
DO0014-1-014	14	C	20	13	50	9
DO0014-1-015	15	C	21	13	50	9



# 1/4" SQUARE DRIVE



**HEX DRIVER (INBUS)** 1

Type	Drawing	D2 mm	L mm	L1 mm	-	
Metric						
DO64805025	2,5	D	13	35	4	-
DO64805030	3	D	13	35	6	-
DO64805040	4	D	13	35	6	-
DO64805050	5	D	13	35	6	-
DO64805060	6	D	13	35	8	-
DO64805070	7	D	13	35	8	-
DO64805080	8	D	13	35	8	-
DO64805090	9	D	13	35	10	-
DO64805100	10	D	13	35	10	-

**TORX® EXTERNAL** 3

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
DO63300004	E4	A	7,2	13	25	4
DO63300005	E5	A	8	13	25	4,5
DO63300006	E6	A	9	13	25	5
DO63300007	E7	A	9,5	13	25	6
DO63300008	E8	A	10	13	25	6
DO63300010	E10	A	12,5	13	25	7,5
DO63300011	E11	B	13	13	25	8
DO63300012	E12	B	14,5	14,5	25	8,5

Torx® is a trademark of Textron.

**TORX® INTERNAL** 2

Type	Drawing	D2 mm	L mm	L1 mm	-	
Metric						
DO64701005	T5	F	13	35	2	-
DO64701006	T6	F	13	35	2	-
DO64701007	T7	F	13	35	2	-
DO64701008	T8	F	13	35	2	-
DO64701009	T9	F	13	35	2	-
DO64701010	T10	F	13	35	2,8	-
DO64701015	T15	F	13	35	2,8	-
DO64701020	T20	F	13	35	2,8	-
DO64701025	T25	F	13	35	3	-
DO64701027	T27	F	13	35	3	-
DO64701030	T30	F	13	35	3,8	-

Torx® is a trademark of Textron.

**TORX® THIN WALL EXTERNAL** 4

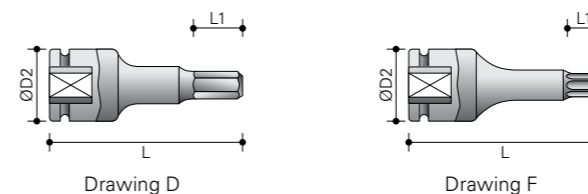
Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
DO63305004	E4	A	6,5	13	25	4
DO63305005	E5	A	7,5	13	25	4,5
DO63305006	E6	A	8,5	13	25	5
DO63305007	E7	A	9	13	25	6
DO63305008	E8	A	9,8	13	25	6
DO63305010	E10	A	12	13	25	6,5
DO63305011	E11	A	12,7	13	25	8
DO63305012	E12	A	14	14,5	25	8,5

Thin wall sockets are not covered by the Action warranty.  
Torx® is a trademark of Textron.

**TORX® TAMPER RESISTANT INTERNAL** 2

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO64706008	T8	F	13	35	2,0	-
DO64706009	T9	F	13	35	2,0	-
DO64706010	T10	F	13	35	2,8	-
DO64706015	T15	F	13	35	2,8	-
DO64706020	T20	F	13	35	2,8	-
DO64706025	T25	F	13	35	3,0	-
DO64706027	T27	F	13	35	3,0	-
DO64706030	T30	F	13	35	3,8	-

Torx® is a trademark of Textron.



# 1/4" SQUARE DRIVE



**SURFACE DRIVE NORMAL** 2

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63405040	4	A	7,6	13	23	4
DO63405045	4,5	A	8,2	13	23	5
DO63405050	5	A	8,8	13	23	5
DO63405055	5,5	A	9,5	13	23	5
DO63405060	6	A	10	13	23	6
DO63405070	7	A	11,3	13	23	6
DO63405080	8	A	12,5	13	23	7
DO63405090	9	C	13,8	13	23	7
DO63405100	10	C	15	13	23	7
DO63405110	11	C	16,3	13	23	8
DO63405120	12	C	17	13	23	8
DO63405130	13	C	18,8	13	23	8
DO63405140	14	C	20	13	23	8
DO63405150	15	C	21	13	23	8

**UNIVERSAL JOINT SOCKETS 6-POINT** 3

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO62500050	5	E	8,8	15	43	5
DO62500055	5,5	E	9,5	15	43	6
DO62500060	6	E	10	15	43	6
DO62500070	7	E	11,5	15	43	8
DO62500080	8	E	12,5	15	43	8
DO62500090	9	E	14	15	43	8
DO62500100	10	E	15	15	43	8
DO62500110	11	E	16,5	15	43	8
DO62500120	12	E	16,8	16	48	8
DO62500130	13	E	18,8	16	48	8
DO62500140	14	E	19,8	16	48	8
DO62500150	15	E	20,8	16	48	8

Universal joint sockets are not covered by the Action warranty.



**SURFACE DRIVE DEEP** 2

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63407040	4	A	7,6	13	50	4
DO63407045	4,5	A	8,2	13	50	6
DO63407050	5	A	8,8	13	50	6
DO63407055	5,5	A	9,5	13	50	6
DO63407060	6	A	10	13	50	7
DO63407070	7	A	11,3	13	50	7
DO63407080	8	A	12,5	13	50	9
DO63407090	9	C	13,8	13	50	9
DO63407100	10	C	15	13	50	9
DO63407110	11	C	16,3	13	50	9
DO63407120	12	C	17	13	50	9
DO63407130	13	C	18,8	13	50	9
DO63407140	14	C	20	13	50	9
DO63407150	15	C	21	13	50	9

# 3/8" SQUARE DRIVE



**6-POINT NORMAL** 1

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO1038-0-006	6	A	11	19	30	4
DO1038-0-007	7	A	12,5	19	30	8
DO1038-0-008	8	A	14	19	30	8
DO1038-0-009	9	A	15	19	30	8
DO1038-0-010	10	A	16	19	30	8
DO1038-0-011	11	A	17,5	19	30	9
DO1038-0-012	12	B	19	19	30	9
DO1038-0-013	13	A	20	22	30	9
DO1038-0-014	14	A	21	22	30	9
DO1038-0-015	15	B	22	22	30	11
DO1038-0-016	16	C	24	22	30	11
DO1038-0-017	17	C	25	22	30	11
DO1038-0-018	18	C	26	22	30	11
DO1038-0-019	19	C	27,5	22	30	11
DO1038-0-020	20	C	28	22	30	12
DO1038-0-021	21	C	30	22	30	13
DO1038-0-022	22	C	32	23	30	13
DO1038-0-024	24	C	34	23	30	13

**6-POINT NORMAL MAGNETIC** 3

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6051P006	6	A	11,5	19	30	3
DO6051P007	7	A	12,5	19	30	3
DO6051P008	8	A	14	19	30	3
DO6051P009	9	A	15	19	30	4
DO6051P010	10	A	16,5	19	30	4
DO6051P011	11	A	17,5	19	30	5
DO6051P012	12	B	19	19	30	5
DO6051P013	13	A	20	22	30	5
DO6051P014	14	A	21,5	22	30	6
DO6051P015	15	B	22	22	30	6
DO6051P016	16	C	24	22	30	6
DO6051P017	17	C	25	22	30	6
DO6051P018	18	C	26	22	30	7
DO6051P019	19	C	27,5	22	30	7

**6-POINT NORMAL** 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Inch						
DO1038-0-5/16	5/16"	A	12,5	19	30	8
DO1038-0-3/8	3/8"	A	14,5	19	30	8
DO1038-0-7/16	7/16"	A	17	19	30	9
DO1038-0-1/2	1/2"	B	19	19	30	9
DO1038-0-9/16	9/16"	B	20	20	30	9
DO1038-0-5/8	5/8"	B	24	24	30	11
DO1038-0-11/16	11/16"	B	24	24	30	11

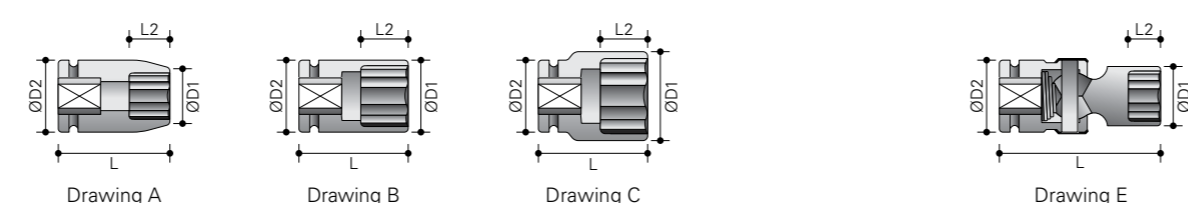
**6-POINT DEEP MAGNETIC** 4

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO6051R006	6	A	11,5	19	55	3
DO6051R007	7	A	12,5	19	55	3
DO6051R008	8	A	14	19	55	3
DO6051R009	9	A	15	19	55	4
DO6051R010	10	A	16,5	19	55	4
DO6051R011	11	A	17,5	19	55	5
DO6051R012	12	B	19	19	55	5
DO6051R013	13	A	20	22	55	5
DO6051R014	14	A	21,5	22	55	6
DO6051R015	15	B	22	22	55	6
DO6051R016	16	C	24	22	55	6
DO6051R017	17	C	25	22	55	6
DO6051R018	18	C	26	22	55	7
DO6051R019	19	C	27,5	22	55	7

**PIN & RING**

Type

DO1014-0-000



# 3/8" SQUARE DRIVE



**6-POINT DEEP** 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO1038-1-006	6	A	11	19	63	12
DO1038-1-007	7	A	12,5	19	63	12
DO1038-1-008	8	A	13,8	19	63	12
DO1038-1-009	9	A	15	19	65	12
DO1038-1-010	10	A	16	19	65	12
DO1038-1-011	11	A	17,5	19	65	25
DO1038-1-012	12	B	19	19	65	25
DO1038-1-013	13	A	20	22	65	25
DO1038-1-014	14	A	21	22	65	25
DO1038-1-015	15	B	22	22	65	25
DO1038-1-016	16	C	24	22	65	25
DO1038-1-017	17	C	25	22	65	25
DO1038-1-018	18	C	26	22	65	25
DO1038-1-019	19	C	27,5	22	65	25
DO1038-1-020	20	C	28	22	65	25
DO1038-1-021	21	C	30	22	65	25
DO1038-1-022	22	C	32	23	65	25
DO1038-1-024	24	C	34	23	65	25

**12-POINT DEEP** 3

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO65817006	6	A	11	19	63	5
DO65817007	7	A	12	19	63	5
DO65817008	8	A	13	19	63	6
DO65817009	9	A	15	19	65	6
DO65817010	10	A	16	19	65	7
DO65817011	11	A	17,5	19	65	8
DO65817012	12	A	18,5	19	65	9
DO65817013	13	A	20	22	65	9
DO65817014	14	A	21	22	65	11
DO65817015	15	B	22	22	65	11
DO65817016	16	C	24	22	65	11
DO65817017	17	C	25	22	65	11
DO65817018	18	C	26	22	65	13
DO65817019	19	C	27	22	65	13
DO65817020	20	C	28	22	65	13
DO65817021	21	C	30	22	65	15
DO65817022	22	C	31	23	65	15
DO65817023	23	C	32	23	65	15
DO65817024	24	C	34	23	65	16
DO65817025	25	C	35	23	65	16
DO65817026	26	C	36	23	65	16

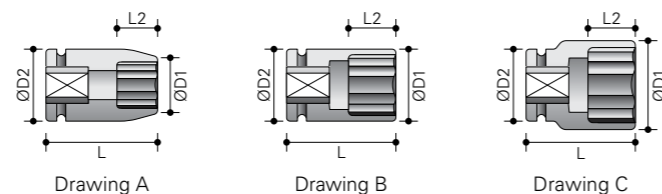
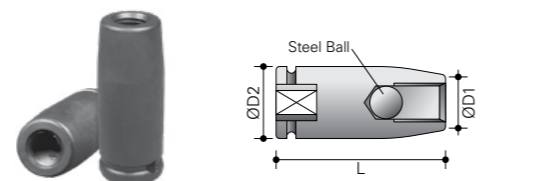
**12-POINT NORMAL** 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO65815006	6	A	11	19	30	5
DO65815007	7	A	12	19	30	8
DO65815008	8	A	13	19	30	8
DO65815009	9	A	15	19	30	8
DO65815010	10	A	16	19	30	8
DO65815011	11	A	17,5	19	30	9
DO65815012	12	A	18,5	19	30	9
DO65815013	13	A	20	22	30	10
DO65815014	14	A	21	22	32	11
DO65815015	15	B	22	22	32	12
DO65815016	16	C	24	22	32	12
DO65815017	17	C	25	22	34	12
DO65815018	18	C	26	22	34	13
DO65815019	19	C	27	22	34	13
DO65815020	20	C	28	22	34	13
DO65815021	21	C	30	22	34	14
DO65815022	22	C	31	23	34	15
DO65815023	23	C	32	23	34	15
DO65815024	24	C	34	23	34	16
DO65815025	25	C	35	23	36	16
DO65815026	26	C	36	23	36	16

**ACCESSORIES**

**STUD BOLT SETTERS**

Type	Size	D1 mm	D2 mm	L mm
DO69781050	M5x0,8	12	22	50
DO69781053	M6x1,0	12,5	22	50
DO69781056	M7x1,0	13	22	50
DO69781059	M8x1,0	15	22	50
DO69781060	M8x1,25	14,5	22	50
DO69781062	M10x1,25	18	22	50
DO69781063	M10x1,5	17	22	50
DO69781066	M12x1,75	19	22	50



# 3/8" SQUARE DRIVE



**6-POINT L = 150** 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO60715006	6	G	11	19	150	4
DO60715008	8	G	13	19	150	8
DO60715010	10	G	16	19	150	8
DO60715012	12	G	18,5	19	150	9
DO60715013	13	G	20	22	150	9
DO60715014	14	G	21	22	150	9
DO60715015	15	G	22	22	150	11
DO60715016	16	G	24	22	150	11
DO60715017	17	G	25	22	150	11
DO60715018	18	G	26	22	150	12

**SURFACE DRIVE NORMAL** 4

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO63415008	8	A	13,8	19	32	8
DO63415009	9	A	15	19	32	8
DO63415010	10	A	16	19	32	8
DO63415011	11	A	17,5	19	32	9
DO63415012	12	B	19	19	32	9
DO63415013	13	A	20	22	32	9
DO63415014	14	B	22	22	32	9
DO63415015	15	B	22	22	32	11
DO63415016	16	C	24	22	32	11
DO63415017	17	C	25	22	32	11
DO63415018	18	C	26	22	32	11
DO63415019	19	C	28	22	32	11

**6-POINT L = 200** 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO60716006	6	G	11	19	200	4
DO60716008	8	G	13	19	200	8
DO60716010	10	G	16	19	200	8
DO60716012	12	G	18,5	19	200	9
DO60716013	13	G	20	22	200	9
DO60716014	14	G	21	22	200	9
DO60716015	15	G	22	22	200	11
DO60716016	16	G	24	22	200	11
DO60716017	17	G	25	22	200	11

**SURFACE DRIVE NORMAL** 4

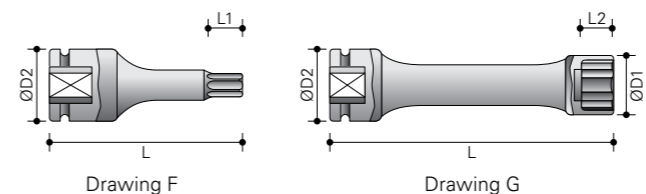
Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Inch						
DO63410008	1/4"	A	11,5	19	32	4
DO63410010	5/16"	A	13,8	19	32	8
DO63410012	3/8"	A	15,5	19	32	8
DO63410014	7/16"	A	17,5	19	32	9
DO63410016	1/2"	A	20	22	32	9
DO63410018	9/16"	B	22	22	32	11
DO63410020	5/8"	C	24	22	32	11
DO63410022	11/16"	C	26	22	32	11
DO63410024	3/4"	C	28	22	32	11

**6-POINT L = 250** 3

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO60717006	6	G	11	19	250	4
DO60717008	8	G	13	19	250	8
DO60717010	10	G	16	19	250	8
DO60717012	12	G	18,5	19	250	9
DO60717013	13	G	20	22	250	9
DO60717014	14	G	21	22	250	9
DO60717015	15	G	22	22	250	11
DO60717016	16	G	24	22	250	11
DO60717017	17	G	25	22	250	11

**TORX® INTERNAL** 5

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO64711009	T9	F	19	50	2,8	-
DO64711010	T10	F	19	50	2,8	-
DO64711015	T15	F	19	50	2,8	-
DO64711020	T20	F	19	50	3,0	-
DO64711025	T25	F	19	50	3,0	-
DO64711027	T27	F	19	50	3,8	-
DO64711030	T30	F	19	50	3,8	-
DO64711040	T40	F	19	50	4,3	-
DO64711045	T45	F	19	50	5,0	-
DO64711047	T47	F	19	50	5,0	-
DO64711050	T50	F	19	50	5,5	-



# 3/8" SQUARE DRIVE



**TORX® INTERNAL LONG** 1

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO64714020	T20	F	19	150	3,0	-
DO64714025	T25	F	19	150	3,0	-
DO64714027	T27	F	19	150	3,8	-
DO64714030	T30	F	19	150	3,8	-
DO64714040	T40	F	19	150	4,3	-
DO64714045	T45	F	19	150	5,0	-
DO64714047	T47	F	19	150	5,0	-
DO64714050	T50	F	19	150	5,5	-
DO64714055	T55	F	19	150	5,5	-

**TORX® TAMPER RESISTANT INTERNAL** 1

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO64716020	T20	F	19	50	3,0	-
DO64716025	T25	F	19	50	3,0	-
DO64716027	T27	F	19	50	3,8	-
DO64716030	T30	F	19	50	3,8	-
DO64716040	T40	F	19	50	4,3	-
DO64716045	T45	F	19	50	5,0	-
DO64716047	T47	F	19	50	5,0	-
DO64716050	T50	F	19	50	5,5	-
DO64716055	T55	F	19	50	5,5	-

**SURFACE DRIVE DEEP** 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO63417008	8	A	13,8	19	80	12
DO63417009	9	A	15	19	80	12
DO63417010	10	A	16	19	80	12
DO63417011	11	A	17,5	19	80	25
DO63417012	12	B	19	19	80	25
DO63417013	13	A	20	22	80	25
DO63417014	14	B	22	22	80	25
DO63417015	15	B	22	22	80	25
DO63417016	16	C	24	22	80	25
DO63417017	17	C	25	22	80	25
DO63417018	18	C	26	22	80	25
DO63417019	19	C	28	22	80	25

**TORX® EXTERNAL** 3

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
DO63310005	E5	A	9	19	32	4,5
DO63310006	E6	A	10	19	32	5
DO63310007	E7	A	10	19	32	6
DO63310008	E8	A	10,5	19	32	6
DO63310010	E10	A	12,5	19	32	7,5
DO63310011	E11	A	14,5	19	32	8
DO63310012	E12	A	15	19	32	8,5
DO63310014	E14	A	17,5	19	32	10
DO63310016	E16	B	19	19	32	11
DO63310018	E18	B	21	21	34	12,5

**SURFACE DRIVE DEEP** 2

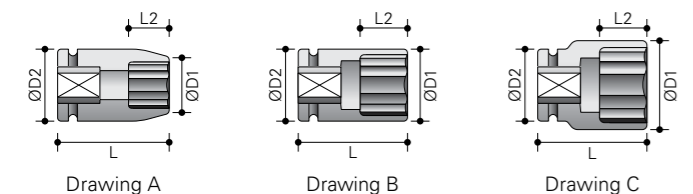
Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Inch						
DO63412010	5/16"	A	13,8	19	80	12
DO63412012	3/8"	A	15,5	19	80	12
DO63412014	7/16"	A	17,5	19	80	25
DO63412016	1/2"	A	20	22	80	25
DO63412018	9/16"	B	22	22	80	25
DO63412020	5/8"	C	24	22	80	25
DO63412022	11/16"	C	26	22	80	25
DO63412024	3/4"	C	28	22	80	25

**TORX® EXTERNAL MAGNETIC** 4

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
DO6331N008	E8	A	11,5	19	32	5
DO6331N010	E10	A	13,5	19	32	5
DO6331N011	E11	A	14	19	32	5
DO6331N012	E11	A	15,5	19	32	6
DO6332N014	E14	A	17,5	19	32	8
DO6332N016	E16	A	19	19	32	9
DO6332N018	E18	A	21	21	32	9

**TORX® THIN WALL EXTERNAL** 4

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
DO63315005	E5	A	8	19	32	4,5
DO63315006	E6	A	9	19	32	5
DO63315007	E7	A	9,3	19	32	6
DO63315008	E8	A	10	19	32	6
DO63315010	E10	A	12,3	19	32	7,5
DO63315011	E11	A	13	19	32	8
DO63315012	E12	A	14	19	32	8,5
DO63315014	E14	A	16,5	19	32	10
DO63315016	E16	A	18,4	19	32	11



# 3/8" SQUARE DRIVE



**6-POINT THIN WALL NORMAL** 1

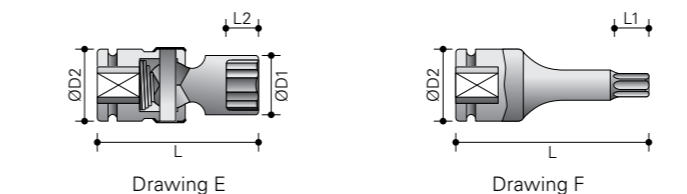
Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO61110006	6	A	10,5	19	30	4
DO61110007	7	A	11,5	19	30	8
DO61110008	8	A	12,5	19	30	8
DO61110009	9	A	14	19	30	8
DO61110010	10	A	15	19	30	8
DO61110011	11	A	17	19	30	9
DO61110012	12	A	17,5	19	30	9
DO61110013	13	B	19	19	30	9
DO61110014	14	B	20	20	30	9

Thin wall sockets are not covered by the Action warranty.

**6-POINT THIN WALL DEEP** 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO61112007	7	A	11,5	19	65	12
DO61112008	8	A	12,5	19	65	12
DO61112009	9	A	14	19	65	12
DO61112010	10	A	15	19	65	25
DO61112011	11	A	17	19	65	25
DO61112012	12	A	17,5	19	65	25
DO61112013	13	B	19	19	65	25
DO61112014	14	B	20	20	65	25
DO61112015	15	A	21	22	65	25
DO61112016	16	C	22,5	22	65	25
DO61112017	17	C	24	22	65	25
DO61112018	18	C	25	22	65	25
DO61112019	19	C	26	22	65	25
DO61112020	20	C	27	22	65	25
DO61112021	21	C	28	22	65	25
DO61112022	22	C	30	23	65	25

Thin wall sockets are not covered by the Action warranty.



**6-POINT UNIVERSAL JOINT** 3

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO1038-2-009	9	E	15	24	53	9
DO1038-2-010	10	E	15	24	53	9
DO1038-2-011	11	E	17	24	53	9
DO1038-2-012	12	E	19	24	53	12
DO1038-2-013	13	E	19	24	53	13
DO1038-2-014	14	E	21	24	53	13
DO1038-2-015	15	E	22	24	53	13
DO1038-2-016	16	E	23	24	53	13
DO1038-2-017	17	E	25	24	53	13
DO1038-2-018	18	E	25	24	53	13
DO1038-2-019	19	E	27	24	53	13
DO1038-2-020	20	E	30	24	53	13
DO1038-2-021	21	E	30	24	53	13
DO1038-2-022	22	E	32	24	53	13

**6-POINT UNIVERSAL JOINT DEEP** 4

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO1038-4-009	9	E	15	24	78	20
DO1038-4-010	10	E	15	24	78	20
DO1038-4-011	11	E	17	24	80	20
DO1038-4-012	12	E	19	24	80	20
DO1038-4-013	13	E	19	24	80	20
DO1038-4-014	14	E	21	24	80	20
DO1038-4-015	15	E	22	24	80	20
DO1038-4-016	16	E	23	24	80	20
DO1038-4-017	17	E	25	24	80	20
DO1038-4-018	18	E	25	24	80	20
DO1038-4-019	19	E	27	24	80	25
DO1038-4-020	20	E	30	24	80	25
DO1038-4-021	21	E	30	24	80	25
DO1038-4-022	22	E	32	24	80	25

Universal joint sockets are not covered by the Action warranty.

# 3/8" SQUARE DRIVE



## HEX DRIVER (INBUS) 1

Type	Drawing	D2 mm	L mm	L1 mm	-	
Metric						
DO696203A	3	D	19	50	11	-
DO696204A	4	D	19	50	11	-
DO696205A	5	D	19	50	11	-
DO696206A	6	D	19	50	11	-
DO696207A	7	D	19	50	16	-
DO696208A	8	D	19	50	16	-
DO696209A	9	D	19	50	16	-
DO696210A	10	D	19	50	16	-
DO696211A	11	D	19	50	16	-
DO696212A	12	D	19	50	16	-
DO696213A	13	D	19	50	16	-
DO696214A	14	D	19	50	16	-
DO696215A	15	D	19	50	16	-
DO696216A	16	D	19	50	16	-

## HEX BALL DRIVER 2

Type	Drawing	D2 mm	L mm	L1 mm	-	
Metric						
DO6481Q004	4	T	19	50	4,8	-
DO6481Q005	5	T	19	50	6	-
DO6481Q006	6	T	19	50	7,1	-
DO6481Q008	8	T	19	50	9,5	-
DO6481Q010	10	T	19	50	11,8	-

## TRIPLE SQUARE BIT 3

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO65216005	M5	L	19	50	7	-
DO65216006	M6	L	19	50	7	-
DO65216008	M8	L	19	50	9	-
DO65216010	M10	L	19	50	9	-
DO65216012	M12	L	19	50	11	-
DO65216014	M14	L	19	50	11	-
DO65216016	M16	L	19	50	13	-

## TRIPLE SQUARE BIT LONG 4

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO65217005	M5	L	19	100	7	-
DO65217006	M6	L	19	100	7	-
DO65217008	M8	L	19	100	9	-
DO65217010	M10	L	19	100	9	-
DO65217012	M12	L	19	100	11	-
DO65217014	M14	L	19	100	11	-
DO65217016	M16	L	19	100	13	-
DO65218005	M5	L	19	120	7	-
DO65218006	M6	L	19	120	7	-
DO65218008	M8	L	19	120	9	-
DO65218010	M10	L	19	120	9	-
DO65218012	M12	L	19	120	11	-
DO65218014	M14	L	19	120	11	-
DO65218016	M14	L	19	120	13	-

## HEX DRIVER UNIVERSAL JOINT 5

Type	Drawing	D2 mm	L mm	L1 mm	-	
Metric						
DO65110005	5	N	24	60	11	-
DO65110006	6	N	24	60	11	-
DO65110007	7	N	24	60	15	-
DO65110008	8	N	24	60	15	-
DO65110009	9	N	24	60	15	-
DO65110010	10	N	24	60	15	-
DO65110011	11	N	24	60	15	-
DO65110012	12	N	24	60	15	-
DO65110013	13	N	24	60	15	-
DO65110014	14	N	24	60	15	-
DO65110015	15	N	24	60	15	-
DO65110016	16	N	24	60	15	-

Universal joint sockets are not covered by the Action warranty.

## UNIVERSAL JOINT FOR INTERN TORX® 6

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO64910020	T20	N	24	60	3	-
DO64910025	T25	N	24	60	3	-
DO64910027	T27	N	24	60	3,8	-
DO64910030	T30	N	24	60	3,8	-
DO64910040	T40	N	24	60	4,3	-
DO64910045	T45	N	24	60	5	-
DO64910047	T47	N	24	60	5	-
DO64910050	T50	N	24	60	5,5	-
DO64910055	T55	N	24	60	5,5	-

Universal joint sockets are not covered by the Action warranty.

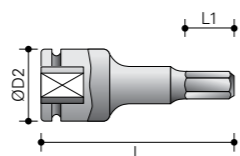
## UNIVERSAL JOINT FOR EXTERN TORX® 7

Type	Drawing	D2 mm	L mm	L2 mm	-	
DO68710005	E5	E	24	50	4,5	-
DO68710006	E6	E	24	50	5	-
DO68710007	E7	E	24	50	6	-
DO68710008	E8	E	24	50	6	-
DO68710010	E10	E	24	50	7,5	-
DO68710012	E12	E	24	50	8,5	-
DO68710014	E14	E	24	50	10	-
DO68710016	E16	E	24	50	11	-

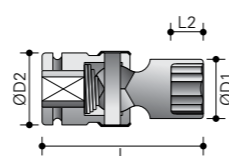
Universal joint sockets are not covered by the Action warranty.

## PIN & RING

Type
DO1038-0-000



Drawing D



Drawing E

# 3/8" & 1/2" SQUARE DRIVE



## 3/8" Drive

### RIBE DRIVER 1

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO65315005	M5	H	19	50	4,5	-
DO65315006	M6	H	19	50	5	-
DO65315007	M7	H	19	50	6,5	-
DO65315008	M8	H	19	50	7,5	-
DO65315010	M10	H	19	50	9	-
DO65315012	M12	H	19	50	10	-
DO65315014	M14	H	19	50	12	-
DO65315016	M16	H	19	50	14	-

### TAP HOLDERS 2

Type	A mm	Drawing	Ø D1 mm	Ø D2 mm	Ø d mm	L mm
DO6321B001	3,4	J	19	19	4,5	38
DO6321B002	4,9	J	19	19	5	38
DO6321B003	5,5	J	19	50	7,0	40
DO6321B004	6,2	J	19	19	8,0	40
DO6321B005	7,0	J	19	19	9,0	43
DO6321B006	8,0	J	19	19	10,0	45
DO6321B007	9,0	J	19	50	11,0	45
DO6321B008	9,0	J	22	22	12,0	45
DO6321B009	11,0	J	22	22	14,0	45

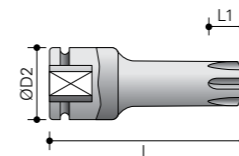
## 1/2" Drive

### 4-POINT NORMAL 3

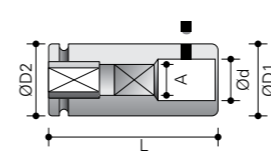
Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO63125007	7	A	17,5	25	40	8
DO63125008	8	A	19	25	40	9
DO63125010	10	A	21,5	25	40	10
DO63125011	11	A	23	25	40	11
DO63125012	12	A	24	25	40	12
DO63125013	13	A	26	30	40	12
DO63125014	14	A	27,5	30	40	20
DO63125015	15	A	28,5	30	40	20
DO63125016	16	B	30	30	40	20
DO63125017	17	C	32	30	40	20
DO63125018	18	C	34	30	45	20
DO63125019	19	C	36	30	45	20
DO63125021	21	C	40	30	45	20
DO63125022	22	C	42	30	45	20
DO63125024	24	C	44	30	50	22
DO63125030	30	C	53	30	50	22
DO63125032	32	C	56	30	50	22

### 8-POINT 4

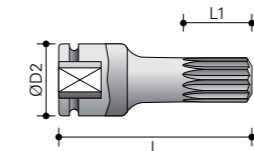
Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO2012-8-010	10	A	20	22	38	7
DO2012-8-014	14	B	26	26	38	11
DO2012-8-017	17	B	30	30	38	11
DO2012-8-019	19	B	34	34	40	13
DO2012-8-022	22	B	38	38	40	15
DO2012-8-024	24	B	42	38	45	18
DO2012-8-027	27	B	46,5	46,5	50	19
DO2012-8-028	28	B	49	49	50	19



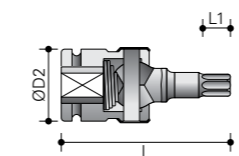
Drawing H



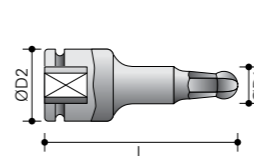
Drawing J



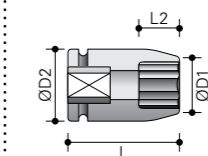
Drawing L



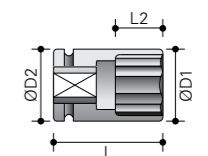
Drawing N



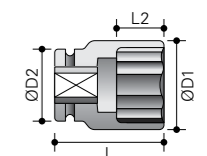
Drawing T



Drawing A



Drawing B



Drawing C



# 1/2" SQUARE DRIVE



## 6-POINT NORMAL 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO2012-0-008	8	A	14,5	25	38	9
DO2012-0-009	9	A	16	25	38	12
DO2012-0-010	10	A	17	25	38	12
DO2012-0-011	11	A	19	25	38	12
DO2012-0-012	12	A	20	24	38	12
DO2012-0-013	13	A	21	25	38	12
DO2012-0-014	14	A	22	25	38	12
DO2012-0-015	15	A	24	30	38	12
DO2012-0-016	16	A	25	30	38	12
DO2012-0-017	17	A	26	30	38	13
DO2012-0-018	18	A	27,5	30	38	13
DO2012-0-019	19	A	29	30	38	13
DO2012-0-020	20	B	30	30	38	13
DO2012-0-021	21	B	32	30	38	13
DO2012-0-022	22	C	32	30	38	13
DO2012-0-023	23	C	32,5	30	38	13
DO2012-0-024	24	C	35	30	45	20
DO2012-0-025	25	C	36	30	45	20
DO2012-0-026	26	C	37,5	30	45	22
DO2012-0-027	27	C	39	30	50	22
DO2012-0-028	28	C	40	30	50	22
DO2012-0-029	29	C	41	30	50	22
DO2012-0-030	30	C	42,5	30	50	22
DO2012-0-032	32	C	44	30	50	28
DO2012-0-034	34	C	45	30	50	28
DO2012-0-036	36	C	48	30	50	28
DO2012-0-038	38	C	53	38	50	24
DO2012-0-041	41	C	58	44	60	27
DO2012-0-046	46	C	65	44	70	30
DO2012-0-050	50	C	70	52	70	32

## 6-POINT NORMAL 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Inch						
DO2012-0-3/8	3/8"	A	16	22	38	12
DO2012-0-7/16	7/16"	A	18	22	38	12
DO2012-0-1/2	1/2"	A	20	22	38	12
DO2012-0-9/16	9/16"	A	22	24	38	12
DO2012-0-5/8	5/8"	B	25	25	38	12
DO2012-0-11/16	11/16"	B	26	26	38	13
DO2012-0-3/4	3/4"	B	28	28	38	13
DO2012-0-13/16	13/16"	B	30	30	38	13
DO2012-0-7/8	7/8"	B	32	32	38	13
DO2012-0-15/16	15/16"	B	34	34	38	13
DO2012-0-1	1"	B	36	36	38	14
DO2012-0-1 1/16	1 1/16"	B	38	38	40	16
DO2012-0-1 1/8	1 1/8"	C	40	38	40	16
DO2012-0-1 3/16	1 3/16"	C	42	38	40	16
DO2012-0-1 1/4	1 1/4"	C	44	38	40	18
DO2012-0-1 3/8	1 3/8"	C	48,5	38	50	26
DO2012-0-1 7/16	1 7/16"	C	50,5	38	50	26
DO2012-0-1 1/2	1 1/2"	C	52,5	38	50	26

## 6-POINT NORMAL MAGNETIC 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO6052P008	8	A	15	25	38	3
DO6052P009	9	A	16	25	38	4
DO6052P010	10	A	17,5	25	38	4
DO6052P011	11	A	18,5	25	38	5
DO6052P012	12	A	20	25	38	5
DO6052P013	13	A	21	25	38	5
DO6052P014	14	A	22,5	25	38	6
DO6052P015	15	A	23,7	30	38	6
DO6052P016	16	A	25	30	38	6
DO6052P017	17	A	26,5	30	38	6
DO6052P018	18	A	27,5	30	38	7
DO6052P019	19	A	29	30	38	7
DO6052P020	20	B	30	30	38	7
DO6052P021	21	C	31	30	38	8
DO6052P022	22	C	32,5	30	38	8
DO6052P024	24	C	35	30	45	10

## 6-POINT DEEP 3

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO2012-1-008	8	A	14,5	25	78	13
DO2012-1-009	9	A	16	25	78	14
DO2012-1-010	10	A	17	25	78	14
DO2012-1-011	11	A	18	25	78	14
DO2012-1-012	12	A	19,5	25	78	14
DO2012-1-013	13	A	21	25	78	14
DO2012-1-014	14	A	22	25	78	17
DO2012-1-015	15	A	23,5	30	78	17
DO2012-1-016	16	A	23,5	30	78	17
DO2012-1-017	17	A	26	30	78	17
DO2012-1-018	18	A	26	30	78	17
DO2012-1-019	19	A	28	30	78	19
DO2012-1-020	20	B	30,5	30	78	19
DO2012-1-021	21	B	31	30	78	24
DO2012-1-022	22	C	32,5	30	78	24
DO2012-1-023	23	C	32,5	30	78	24
DO2012-1-024	24	C	35	30	78	24
DO2012-1-025	25	C	36	30	78	24
DO2012-1-026	26	C	37,5	30	78	24
DO2012-1-027	27	C	38	30	78	24
DO2012-1-028	28	C	40	30	78	24
DO2012-1-029	29	C	40	30	78	24
DO2012-1-030	30	C	42	30	78	24
DO2012-1-031	31	C	43	30	78	24
DO2012-1-032	32	C	45	30	78	24
DO2012-1-033	33	C	45	30	78	24
DO2012-1-034	34	C	45	30	78	24
DO2012-1-035	35	C	47	30	78	24
DO2012-1-036	36	C	49	30	78	24
DO2012-1-038	38	C	53	38	93	24
DO2012-1-041	41	C	58	44	93	58
DO2012-1-046	46	C	65	44	93	58

# 1/2" SQUARE DRIVE

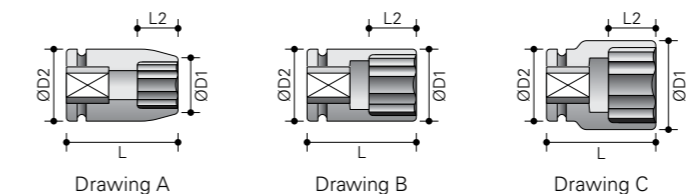


## 6-POINT DEEP 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Inch						
DO2012-1-3/8	3/8"	A	16	22	78	14
DO2012-1-7/16	7/16"	A	18	22	78	14
DO2012-1-1/2	1/2"	A	20	22	78	14
DO2012-1-9/16	9/16"	A	22	24	78	17
DO2012-1-5/8	5/8"	B	26	26	78	17
DO2012-1-11/16	11/16"	B	26	26	78	17
DO2012-1-3/4	3/4"	B	28	28	78	19
DO2012-1-13/16	13/16"	B	30	30	78	24
DO2012-1-7/8	7/8"	B	32	32	78	24
DO2012-1-15/16	15/16"	B	28	28	78	19
DO2012-1-1	1"	B	36	36	78	24
DO2012-1-1 1/16	1 1/16"	B	38	38	78	24
DO2012-1-1 1/8	1 1/8"	C	38	38	78	24
DO2012-1-1 3/16	1 3/16"	C	42	38	78	24
DO2012-1-1 1/4	1 1/4"	C	44	38	78	24
DO2012-1-1 5/16	1 5/16"	C	45	38	78	24
DO2012-1-1 3/8	1 3/8"	C	48,5	38	78	24
DO2012-1-1 7/16	1 7/16"	C	50,5	38	78	24
DO2012-1-1 1/2	1 1/2"	C	52,5	38	78	24

## 6-POINT DEEP MAGNETIC 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO6052R008	8	A	15	25	78	3
DO6052R009	9	A	16	25	78	4
DO6052R010	10	A	17,5	25	78	4
DO6052R011	11	A	18,5	25	78	5
DO6052R012	12	A	20	25	78	5
DO6052R013	13	A	21	25	78	5
DO6052R014	14	A	22,5	25	78	6
DO6052R015	15	A	23,7	30	78	6
DO6052R016	16	A	25	30	78	6
DO6052R017	17	A	26,5	30	78	6
DO6052R018	18	A	27,5	30	78	7
DO6052R019	19	A	29	30	78	7
DO6052R020	20	B	30	30	78	7
DO6052R021	21	C	31	30	78	8
DO6052R022	22	C	32,5	30	78	8
DO6052R024	24	C	35	30	78	10



## 6-POINT THIN WALL NORMAL 3

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO61120008	8	A	13	25	38	6
DO61120009	9	A	14,5	25	38	6
DO61120010	10	A	15,5	25	38	7
DO61120011	11	A	16,7	25	38	8
DO61120012	12	A	18	25	38	9
DO61120013	13	A	19,2	25	38	9
DO61120014	14	A	21	25	38	11
DO61120015	15	A	21,7	30	38	11
DO61120016	16	A	23	30	38	11
DO61120017	17	B	24	30	38	11
DO61120018	18	B	25	30	38	13
DO61120019	19	B	26	30	38	13
DO61120020	20	B	27,5	30	38	13
DO61120021	21	B	28	30	38	15
DO61120022	22	B	29,5	30	38	15
DO61120023	23	C	30,5	30	38	15
DO61120024	24	C	32	30	45	18
DO61120030	30	C	40	30	50	21

Thin wall sockets are not covered by the Action warranty.

## 6-POINT THIN WALL DEEP 4

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO61122008	8	A	14	22	78	13
DO61122009	9	A	14,5	22	78	14
DO61122010	10	A	15,5	22	78	14
DO61122011	11	A	16,7	22	78	14
DO61122012	12	A	18	22	78	14
DO61122013	13	A	19,2	24	78	14
DO61122014	14	A	21	24	78	17
DO61122015	15	A	21,7	24	78	17
DO61122016	16	A	23	24	78	17
DO61122017	17	B	24	24	78	17
DO61122018	18	B	25	25	78	17
DO61122019	19	B	26	26	78	19
DO61122020	20	B	27,5	27,5	78	19
DO61122021	21	B	28	28	78	24
DO61122022	22	B	29,5	29,5	78	24
DO61122023	23	B	30,5	30,5	78	24
DO61122024	24	B	32	32	78	24
DO61122025	25	B	33	33	78	24
DO61122026	26	B	35	35	78	24
DO61122027	27	B	36	36	78	24
DO61122028	28	B	37,5	37,5	78	24
DO61122030	30	C	40	38	78	24
DO61122031	31	C	41	38		

# 1/2" SQUARE DRIVE



**6-POINT L = 150** 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO60725008	8	G	15	25	150	10
DO60725010	10	G	17,5	25	150	12
DO60725012	12	G	19,5	25	150	12
DO60725013	13	G	21	25	150	12
DO60725014	14	G	22,5	25	150	12
DO60725015	15	G	23,5	30	150	12
DO60725017	17	G	26	30	150	13
DO60725019	19	G	28,5	30	150	13
DO60725020	20	G	30	30	150	13
DO60725021	21	G	31	30	150	13
DO60725022	22	G	32	30	150	14
DO60725024	24	G	34	30	150	14
DO60725025	25	G	36	30	150	15

**6-POINT THIN WALL WITH PLASTIC STOP AND SLEEVE** 4

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO61126015 (white)	15	K	22	30	85	13
DO61126017 (blue)	17	K	27	30	85	14
DO61126019 (yellow)	19	K	29	30	85	15
DO61126021 (red)	21	K	31	30	85	17
DO61126022 (green)	22	K	32,5	30	85	18
DO6112J017 (blue)	17	K	27	25	130	24
DO6112J019 (yellow)	19	K	29	30	130	24
DO6112J021 (red)	21	K	31	30	130	24
DO6112J022 (green)	22	K	32,5	30	130	24

Thin wall sockets are not covered by the Action warranty.

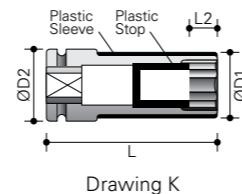
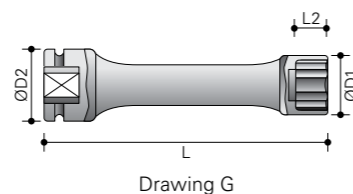
**6-POINT L = 200** 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO60726008	8	G	15	25	200	10
DO60726010	10	G	17,5	25	200	12
DO60726012	12	G	20	25	200	12
DO60726013	13	G	20	25	200	12
DO60726014	14	G	21	25	200	12
DO60726015	15	G	23,5	30	200	12
DO60726017	17	G	26	30	200	13
DO60726019	19	G	28,5	30	200	13
DO60726020	20	G	30	30	200	13
DO60726021	21	G	31	30	200	13



**6-POINT L = 250** 3

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO60727008	8	G	15	25	250	10
DO60727010	10	G	17,5	25	250	12
DO60727012	12	G	20	25	250	12
DO60727013	13	G	20,5	25	250	12
DO60727014	14	G	22,5	25	250	12
DO60727015	15	G	23,5	30	250	12
DO60727017	17	G	26	30	250	13
DO60727019	19	G	28,5	30	250	13
DO60727020	20	G	30	30	250	13
DO60727021	21	G	31	30	250	13
DO60727022	22	G	32	30	250	14



# 1/2" SQUARE DRIVE

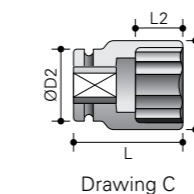
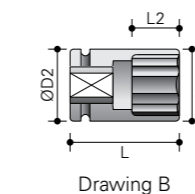
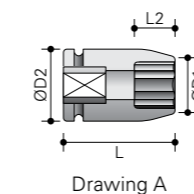


**12-POINT NORMAL** 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO63825006	6	A	13	25	38	5
DO63825008	8	A	14	25	38	6
DO63825009	9	A	16	25	38	6
DO63825010	10	A	17,5	25	38	7
DO63825011	11	A	19	25	38	8
DO63825012	12	A	20	25	38	9
DO63825013	13	A	21	25	38	9
DO63825014	14	A	22,5	25	38	11
DO63825015	15	A	23,5	30	38	11
DO63825016	16	A	25	30	38	11
DO63825017	17	A	26,5	30	40	11
DO63825018	18	A	27,5	30	40	13
DO63825019	19	A	29	30	40	13
DO63825020	20	B	30	30	40	13
DO63825021	21	C	31	30	40	15
DO63825022	22	C	32,5	30	40	15
DO63825023	23	C	34	30	40	15
DO63825024	24	C	35	30	45	18
DO63825025	25	C	36	30	45	18
DO63825026	26	C	38	30	50	18
DO63825027	27	C	39	30	50	19
DO63825028	28	C	40	30	50	19
DO63825029	29	C	41	30	50	19
DO63825030	30	C	42,5	30	50	21
DO63825032	32	C	44	30	50	22
DO63825033	33	C	46,5	30	50	22
DO63825036	36	C	50,5	30	50	24
DO63825041	41	C	58,5	44	60	27
DO63825046	46	C	65	44	70	30

**12-POINT DEEP** 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO65827006	6	A	13	25	83	5
DO65827007	7	A	14	25	83	5
DO65827008	8	A	15	25	83	6
DO65827009	9	A	16	25	83	6
DO65827010	10	A	17,5	25	83	7
DO65827011	11	A	19	25	83	8
DO65827012	12	A	20	25	83	9
DO65827013	13	A	21	25	83	9
DO65827014	14	A	22,5	25	83	11
DO65827015	15	A	23,5	30	83	11
DO65827016	16	A	25	30	83	11
DO65827017	17	A	26,5	30	83	11
DO65827018	18	A	27,5	30	83	13
DO65827019	19	A	29	30	83	13
DO65827020	20	B	30	30	83	13
DO65827021	21	C	31	30	83	15
DO65827022	22	C	32,5	30	90	15
DO65827023	23	C	34	30	90	15
DO65827024	24	C	35	30	90	18
DO65827025	25	C	36	30	90	18
DO65827026	26	C	38	30	90	18
DO65827027	27	C	39	30	90	19
DO65827028	28	C	40	30	90	19
DO65827029	29	C	41	30	90	19
DO65827030	30	C	42,5	30	90	21
DO65827031	31	C	44	30	90	21
DO65827032	32	C	45	30	90	22
DO65827033	33	C	46,5	30	90	22
DO65827034	34	C	48	30	90	22
DO65827035	35	C	49,5	30	90	22
DO65827036	36	C	50,5	30	90	24
DO65827038	38	C	53	38	90	24
DO65827039	39	C	54,5	44	93	24
DO65827040	40	C	56	44	93	58
DO65827041	41	C	58	44	93	58
DO65827042	42	C	60	44	93	58
DO65827043	43	C	61	44	93	58
DO65827044	44	C	63	44	93	58
DO65827045	45	C	64	44	93	58
DO65827046	46	C	65	44	93	58
DO65827047	47	C	66,5	44	93	58
DO65827048	48	C	68	44	93	58
DO65827049	49	C	69	44	93	58
DO65827050	50	C	70	52	93	58
DO65827052	52	C	72,5	52	93	58
DO65827054	54	C	75	52	93	58
DO65827056	56	C	77	52	93	58
DO65827057	57	C	78	52	93	58
DO65827058	58	C	79	52	93	58



# 1/2" SQUARE DRIVE



## 1 SURFACE DRIVE NORMAL

Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63425010	10	A	17,5	25	38	12
DO63425011	11	A	18,7	25	38	12
DO63425012	12	A	20	25	38	12
DO63425013	13	A	21	25	38	12
DO63425014	14	A	22,5	25	38	12
DO63425015	15	A	23,7	30	38	12
DO63425016	16	A	25	30	38	12
DO63425017	17	A	26	30	38	13
DO63425018	18	A	27,5	30	38	13
DO63425019	19	A	28,7	30	38	13
DO63425020	20	B	30	30	38	13
DO63425021	21	B	30	30	38	13
DO63425022	22	C	32	30	38	13
DO63425023	23	C	32	30	38	13
DO63425024	24	C	35	30	45	20
DO63425026	26	C	38	30	50	22
DO63425027	27	C	38,7	30	50	22
DO63425029	29	C	40	30	50	22
DO63425030	30	C	42	30	50	22
DO63425032	32	C	44	30	50	22

## 2 SURFACE DRIVE DEEP

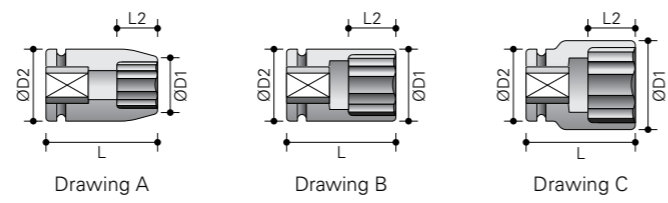
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric						
DO63427010	10	A	17,5	25	83	14
DO63427011	11	A	18,7	25	83	14
DO63427012	12	A	20	25	83	14
DO63427013	13	A	21	25	83	14
DO63427014	14	A	22,5	25	83	17
DO63427015	15	A	23,7	30	83	17
DO63427016	16	A	25	30	83	17
DO63427017	17	A	26	30	83	17
DO63427018	18	A	27,5	30	83	17
DO63427019	19	A	28,7	30	83	19
DO63427020	20	B	30	30	83	19
DO63427021	21	B	30	30	83	24
DO63427022	22	C	32	30	90	24
DO63427023	23	C	32	30	90	24
DO63427024	24	C	35	30	90	24
DO63427026	26	C	38	30	90	24
DO63427027	27	C	38,7	30	90	24
DO63427029	29	C	40	30	90	24
DO63427030	30	C	42	30	90	24
DO63427032	32	C	44	30	90	24

## 3 TORX® INTERNAL

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO64721020	T20	F	25	55	2,8	-
DO64721025	T25	F	25	55	3,0	-
DO64721027	T27	F	25	55	3,0	-
DO64721030	T30	F	25	55	3,8	-
DO64721040	T40	F	25	55	3,8	-
DO64721045	T45	F	25	55	4,3	-
DO64721047	T47	F	25	55	5,0	-
DO64721050	T50	F	25	55	5,0	-
DO64721055	T55	F	25	55	5,5	-
DO64721060	T60	F	25	55	8,0	-
DO64721070	T70	F	25	55	9,4	-

## 4 TORX® INTERNAL LONG

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO64722020	T20	F	25	75	2,8	-
DO64722025	T25	F	25	75	3,0	-
DO64722027	T27	F	25	75	3,0	-
DO64722030	T30	F	25	75	3,8	-
DO64722040	T40	F	25	75	3,8	-
DO64722045	T45	F	25	75	4,3	-
DO64722047	T47	F	25	75	5,0	-
DO64722050	T50	F	25	75	5,0	-
DO64722055	T55	F	25	75	5,5	-
DO64722060	T60	F	25	75	8,0	-
DO64722070	T70	F	25	75	9,4	-
DO64725025	T25	F	25	150	3,0	-
DO64725027	T27	F	25	150	3,0	-
DO64725030	T30	F	25	150	3,8	-
DO64725040	T40	F	25	150	3,8	-
DO64725045	T45	F	25	150	4,3	-



# 1/2" SQUARE DRIVE



## 1 TORX® TAMPER RESISTANT INTERNAL

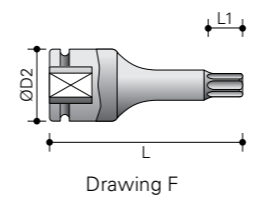
Type	Drawing	D2 mm	L mm	L1 mm	-	
DO64726020	T20	F	25	55	2,8	-
DO64726025	T25	F	25	55	3,0	-
DO64726027	T27	F	25	55	3,0	-
DO64726030	T30	F	25	55	3,8	-
DO64726040	T40	F	25	55	3,8	-
DO64726045	T45	F	25	55	4,3	-
DO64726047	T47	F	25	55	5,0	-
DO64726050	T50	F	25	55	5,0	-
DO64726055	T55	F	25	55	5,5	-
DO64726060	T60	F	25	55	8,0	-
DO64726070	T70	F	25	55	9,4	-

## 2 TORX® TAMPER RESISTANT INTERNAL LONG

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO64727020	T20	F	25	75	2,8	-
DO64727025	T25	F	25	75	3,0	-
DO64727027	T27	F	25	75	3,0	-
DO64727030	T30	F	25	75	3,8	-
DO64727040	T40	F	25	75	3,8	-
DO64727045	T45	F	25	75	4,3	-
DO64727047	T47	F	25	75	5,0	-
DO64727050	T50	F	25	75	5,0	-
DO64727055	T55	F	25	75	5,5	-
DO64727060	T60	F	25	75	8,0	-
DO64727070	T70	F	25	75	9,4	-

## 3 TORX® EXTERNAL

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
DO63320010	E10	A	15	25	38	7,5
DO63320011	E11	A	15,5	25	38	8
DO63320012	E12	A	16	25	38	8,5
DO63320014	E14	A	18,5	25	38	10
DO63320016	E16	A	20	25	38	11
DO63320018	E18	A	22	25	38	12
DO63320020	E20	A	25	30	38	13,5
DO63320022	E22	A	26,5	30	45	18
DO63320024	E24	A	28,5	30	45	18



## 4 TORX® THIN WALL EXTERNAL

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
DO63325010	E10	A	13	25	38	7,5
DO63325011	E11	A	14	25	38	8
DO63325012	E12	A	15	25	38	8,5
DO63325014	E14	A	17	25	38	10
DO63325016	E16	A	18,5	25	38	11
DO63325018	E18	A	20,5	25	38	12
DO63325020	E20	A	22,5	30	38	13,5
DO63325022	E22	A	24,5	30	45	18
DO63325024	E24	A	26,5	30	45	18

Thin wall sockets are not covered by the Action warranty.

## 5 TORX® EXTERNAL MAGNETIC

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
DO6332N010	E10	A	14,5	25	38	5
DO6332N011	E11	A	15	25	38	5
DO6332N012	E12	A	16	25	38	6
DO6332N014	E14	A	18	25	38	8
DO6332N016	E16	A	20	25	38	9
DO6332N018	E18	A	22	25	38	9
DO6332N020	E20	A	25	30	38	10
DO6332N022	E22	A	27	30	45	10
DO6332N024	E24	A	29	30	45	11

Torx® is a trademark of Textron.



# 1/2" SQUARE DRIVE



## 6-POINT UNIVERSAL JOINT NORMAL 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO2012-2-010	10	E	15	28	65	14
DO2012-2-011	11	E	17	28	65	14
DO2012-2-012	12	E	19	28	65	14
DO2012-2-013	13	E	20	28	65	14
DO2012-2-014	14	E	22	28	65	14
DO2012-2-015	15	E	23	28	65	14
DO2012-2-016	16	E	23	28	65	14
DO2012-2-017	17	E	26	32	65	14
DO2012-2-018	18	E	26	32	65	14
DO2012-2-019	19	E	28	32	65	14
DO2012-2-020	20	E	30	32	65	14
DO2012-2-021	21	E	30	32	65	14
DO2012-2-022	22	E	32	32	65	14
DO2012-2-023	23	E	32	32	65	14
DO2012-2-024	24	E	34	32	65	14

Universal joint sockets are not covered by the Action warranty.

## 6-POINT UNIVERSAL JOINT DEEP 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO2012-4-010	10	E	15	28	90	14
DO2012-4-011	11	E	17	28	90	20
DO2012-4-012	12	E	19	28	90	20
DO2012-4-013	13	E	20	28	90	20
DO2012-4-014	14	E	22	28	90	20
DO2012-4-015	15	E	23	28	90	20
DO2012-4-016	16	E	23	28	90	20
DO2012-4-017	17	E	26	32	90	20
DO2012-4-018	18	E	26	32	90	20
DO2012-4-019	19	E	28	32	90	25
DO2012-4-020	20	E	30	32	90	25
DO2012-4-021	21	E	30	32	90	25
DO2012-4-022	22	E	32	32	90	25
DO2012-4-023	23	E	32	32	90	25
DO2012-4-024	24	E	34	32	90	25

Universal joint sockets are not covered by the Action warranty.

## UNIVERSAL JOINT FOR TORX® INTERNAL 3

Type	Drawing	D1 mm	L mm	L1 mm	-	
DO64921025	T25	M	28	70	3	-
DO64921027	T27	M	28	70	3	-
DO64921030	T30	M	28	70	3,8	-
DO64921040	T40	M	28	70	3,8	-
DO64921045	T45	M	28	70	4,3	-
DO64921047	T47	M	28	70	5	-
DO64921050	T50	M	28	70	5	-
DO64921055	T55	M	28	70	5,5	-
DO64921060	T60	M	28	70	8	-

Universal joint sockets are not covered by the Action warranty.

## UNIVERSAL JOINT FOR TORX® EXTERNAL 4

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
DO68720010	E10	E	13	28	65	7,5
DO68720011	E11	E	14	28	65	8,0
DO68720012	E12	E	15	28	65	8,5
DO68720014	E14	E	17	28	65	10
DO68720016	E16	E	18,5	28	65	11
DO68720018	E18	E	20,5	28	65	12
DO68720020	E20	E	22,5	32	70	13,5
DO68720022	E22	E	24,5	32	70	15
DO68720024	E24	E	26,5	32	70	17

Universal joint sockets are not covered by the Action warranty.



# 1/2" SQUARE DRIVE



## HEX DRIVER (INBUS) 1

Type	Drawing	D2 mm	L mm	L1 mm	-	
Metric						
DO696304A	4	D	25	75	11	-
DO696305A	5	D	25	75	15	-
DO696306A	6	D	25	75	15	-
DO696307A	7	D	25	75	15	-
DO696308A	8	D	25	75	16	-
DO696309A	9	D	25	75	16	-
DO696310A	10	D	25	75	16	-
DO696311A	11	D	25	75	16	-
DO696312A	12	D	25	75	16	-
DO696313A	13	D	25	75	16	-
DO696314A	14	D	25	75	16	-
DO696315A	15	D	25	75	16	-
DO696316A	16	D	25	75	16	-
DO696317A	17	D	30	75	16	-
DO696319A	19	D	30	75	16	-
DO696321A	21	D	30	75	16	-
DO696322A	22	D	30	75	16	-
DO696324A	24	D	30	75	16	-
DO64827006	6	D	25	100	15	-
DO64828006	6	D	25	125	15	-
DO64827008	8	D	25	100	16	-
DO64828008	8	D	25	125	16	-
DO64827010	10	D	25	100	16	-
DO64828010	10	D	25	125	16	-
DO64827012	12	D	25	100	16	-
DO64827014	14	D	25	100	16	-

## HEX BALL DRIVER 2

Type	Drawing	D2 mm	L mm	L1 mm	-	
Metric						
DO6482N004	4	T	25	75	4,8	-
DO6482N005	5	T	25	75	6	-
DO6482N006	6	T	25	75	7,1	-
DO6482N008	8	T	25	75	9,5	-
DO6482N010	10	T	25	75	11,8	-
DO6482N014	12	T	25	75	14	-
DO6482N014	14	T	25	75	16,4	-
DO6482N017	17	T	25	75	19,8	-

## TAP HOLDERS 3

Type	A mm	Drawing	Ø D1 mm	Ø D2 mm	Ø d mm	L mm
DO6322B001	3,4	J	22	22	4,5	40
DO6322B002	4,9	J	22	22	6,0	45
DO6322B003	5,5	J	22	22	7,0	45
DO6322B004	6,2	J	22	22	8,0	45
DO6322B005	7,0	J	22	22	9,0	45
DO6322B006	8,0	J	22	22	10,0	45
DO6322B007	9,0	J	22	22	11,0	50
DO6322B008	9,0	J	22	22	12,0	50
DO6322B009	11,0	J	22	22	14,0	52

## TRIPLE SQUARE BIT 4

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO65226005	M5	L	25	55	7	-
DO65226006	M6	L	25	55	7	-
DO65226008	M8	L	25	55	9	-
DO65226010	M10	L	25	55	9	-
DO65226012	M12	L	25	55	11	-
DO65226014	M14	L	25	55	11	-
DO65226016	M16	L	25	55	13	-

## TRIPLE SQUARE BIT LONG 5

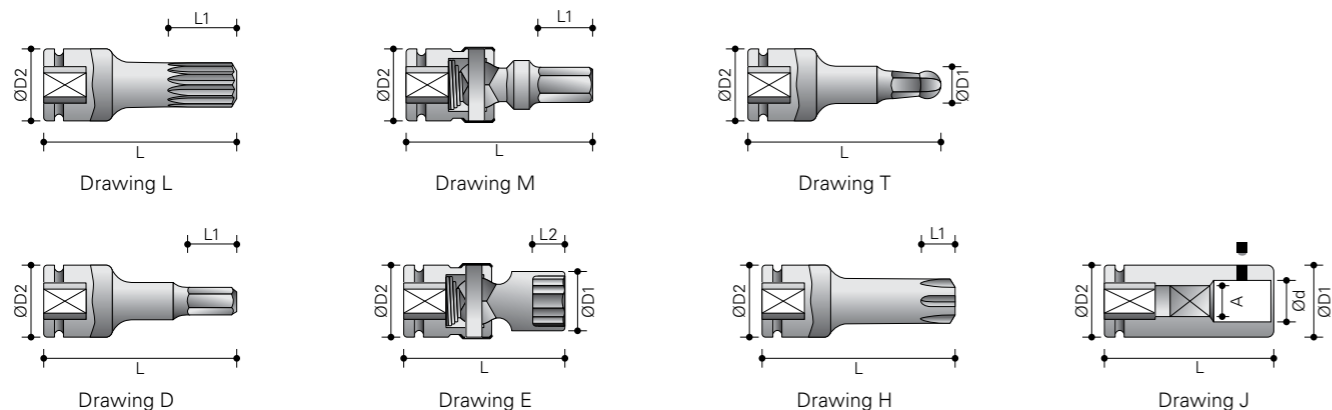
Type	Drawing	D2 mm	L mm	L1 mm	-	
DO65227005	M5	L	25	100	7	-
DO65227006	M6	L	25	100	7	-
DO65227008	M8	L	25	100	9	-
DO65227010	M10	L	25	100	9	-
DO65227012	M12	L	25	100	11	-
DO65227014	M14	L	25	100	11	-
DO65227016	M16	L	25	100	13	-
DO65227018	M18	L	25	100	13	-

## TRIPLE SQUARE BIT EXTRA LONG 5

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO65228008	M8	L	25	120	9	-
DO65228010	M10	L	25	120	9	-
DO65228012	M12	L	25	120	11	-
DO65228018	M18	L	25	120	14	-

## RIBE DRIVER 6

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO65326006	M6	H	25	55	5	-
DO65326007	M7	H	25	55	6,5	-
DO65326008	M8	H	25	55	7,5	-
DO65326010	M10	H	25	55	9	-
DO65326012	M12	H	25	55	10	-
DO65326014	M14	H	25	55	12	-
DO65326016	M16	H	25	55	14	-
DO65326018	M18	H	25	55	16	-



# 1/2" SQUARE DRIVE

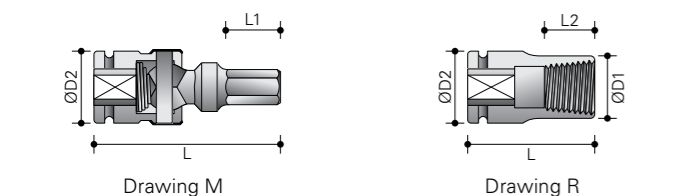
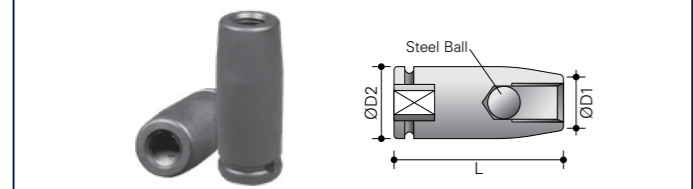


## HEX DRIVER WITH UNIVERSAL JOINT 1

Type	mm	Drawing	D2 mm	L mm	L1 mm	-
Metric						
DO65121006	6	M	28	75	13	-
DO65121007	7	M	28	75	13	-
DO65121008	8	M	28	75	20	-
DO65121009	9	M	28	75	20	-
DO65121010	10	M	28	75	20	-
DO65121011	11	M	28	75	20	-
DO65121012	12	M	28	75	20	-
DO65121013	13	M	28	75	20	-
DO65121014	14	M	28	75	20	-
DO65121015	15	M	28	75	20	-
DO65121016	16	M	28	75	20	-
DO65121017	17	M	28	75	20	-
DO65121018	18	M	28	75	20	-
DO65121019	19	M	28	75	20	-

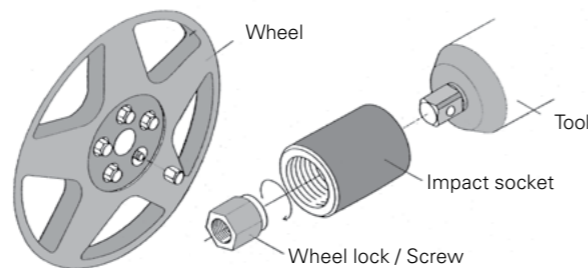
## STUD BOLT SETTERS

Type	SW	D1 mm	D2 mm	L mm
DO69782010	M6 x 1,0	13	25	55
DO69782017	M8 x 1,0	15	25	55
DO69782018	M8 x 1,25	15	25	55
DO69782020	M10 x 1,0	18	25	55
DO69782021	M10 x 1,25	18	25	55
DO69782022	M10 x 1,5	17	25	55
DO69782025	M12 x 1,25	19	25	55
DO69782026	M12 x 1,5	19	25	55
DO69782027	M12 x 1,75	19	25	55
DO69782030	M14 x 1,5	23	25	55
DO69782031	M14 x 2,0	22	25	55
DO69782034	M16 x 1,5	28	30	75
DO69782035	M16 x 2,0	27	30	75
DO69782036	M18 x 1,5	29,5	30	75
DO69782038	M18 x 2,5	29	30	75
DO69782040	M20 x 1,5	30	30	75
DO69782041	M20 x 2,5	30	30	75



## WHEEL LUG NUT REMOVER SOCKETS 2

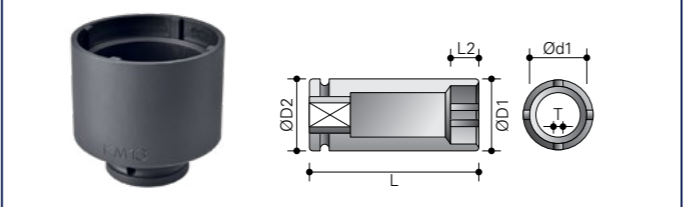
Type	mm	Drawing	D1 mm	D2 mm	L mm	L2 mm
DO69782090	17	R	24	24	38	17
DO69782091	18,5	R	25	25	38	17
DO69782092	20	R	26	26	38	22
DO69782093	21,5	R	28,5	28,5	38	22
DO69782094	23	R	30	30	38	22
DO69782095	24,5	R	31	31	38	22
DO69782096	26	R	32	32	38	22



This wheel lug nut remover is used when it is discovered that the original key to remove your car wheel is lost. In order to remove the lock and the wheel, these sockets can be used. Proper use of the socket is to have at least three windings of thread of the socket gripping over the lock. In case any of the first three windings are already gripping, the next bigger size of socket should be chosen. When the correct size of socket is chosen, it can unlock up to four bolts.

## IMPACT SOCKETS FOR AXIAL NUTS

Type	T mm	D1 mm	D2 mm	d1 mm	L2 mm	L mm
DO69712530 GU06/30GU	4,5	46	30	38,5	6,5	55
DO69712725 KM5	4,5	46	30	34,5	9	82
DO69712730 KM6	4,5	53	30	41,5	9	82
DO69712740 KM8	4,5	81	30	53,5	9	82

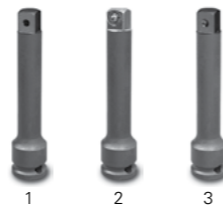


## PIN & RING

Type
DO1012-0-000

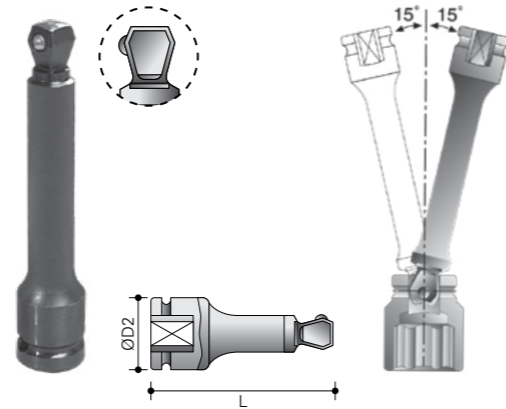


# ADAPTORS



## WOBBLE EXTENSION BARS

Type			D2 mm	L mm	Type
Inch					
DO6450F050	1/4"	1/4"	13	50	Steel ball retainer
DO6450F075	1/4"	1/4"	13	75	Steel ball retainer
DO6450F100	1/4"	1/4"	13	100	Steel ball retainer
DO6451F050	3/8"	3/8"	19	50	Steel ball retainer
DO6451F075	3/8"	3/8"	19	75	Steel ball retainer
DO6451F100	3/8"	3/8"	19	100	Steel ball retainer
DO6451F200	3/8"	3/8"	19	200	Steel ball retainer
DO6452F075	1/2"	1/2"	25	75	Steel ball retainer
DO6452F125	1/2"	1/2"	25	125	Steel ball retainer
DO6452F150	1/2"	1/2"	25	150	Steel ball retainer
DO6452F200	1/2"	1/2"	25	200	Steel ball retainer



## EXTENSION BARS WITH PIN HOLE

1

Type		Drawing	D2 mm	L mm
Inch				
DO7014-0-050	1/4"	BX	13	50
DO7014-0-100	1/4"	BX	13	100
DO7014-0-150	1/4"	BX	13	150
DO7038-0-075	3/8"	BX	19	75
DO7038-0-100	3/8"	BX	19	100
DO7038-0-125	3/8"	BX	19	125
DO7038-0-150	3/8"	BX	19	150
DO7038-0-200	3/8"	BX	19	200
DO7038-0-250	3/8"	BX	19	250
DO7012-0-075	1/2"	BX	25	75
DO7012-0-100	1/2"	BX	25	100
DO7012-0-125	1/2"	BX	25	125
DO7012-0-150	1/2"	BX	25	150
DO7012-0-175	1/2"	BX	25	175
DO7012-0-200	1/2"	BX	25	200
DO7012-0-250	1/2"	BX	25	250
DO7012-0-300	1/2"	BX	25	300
DO7012-0-460	1/2"	BX	25	460
DO7012-0-610	1/2"	BX	25	610
DO7012-0-915	1/2"	BX	25	915

Rings and pins are not standard. Please order separately.

## EXTENSION BARS WITH STEEL BALL RETAINER

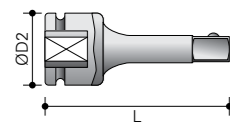
2

Type		Drawing	D2 mm	L mm
Inch				
DO6862075	3/8"	AX	19	75
DO6862100	3/8"	AX	19	100
DO6862125	3/8"	AX	19	125
DO6862150	3/8"	AX	19	150
DO6862250	3/8"	AX	19	250
DO6863075	1/2"	AX	25	75
DO6863100	1/2"	AX	25	100
DO6863125	1/2"	AX	25	125
DO6863250	1/2"	AX	25	250

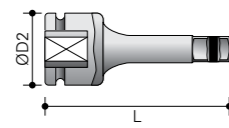
## EXTENSION BAR WITH LOCK PIN RETAINER

3

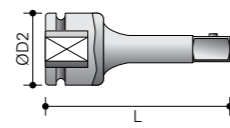
Type		Drawing	D2 mm	L mm
Inch				
DO64514075	3/8"	CX	19	75
DO64514100	3/8"	CX	19	100
DO64514125	3/8"	CX	19	125
DO64514150	3/8"	CX	19	150
DO64514200	3/8"	CX	19	200
DO64514250	3/8"	CX	19	250
DO64524075	1/2"	CX	25	75
DO64524100	1/2"	CX	25	100
DO64524125	1/2"	CX	25	125
DO64524150	1/2"	CX	25	150
DO64524200	1/2"	CX	25	200
DO64524250	1/2"	CX	25	250
DO64524460	1/2"	CX	25	460



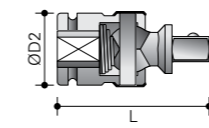
Drawing AX



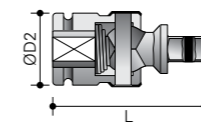
Drawing BX



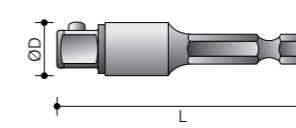
Drawing CX



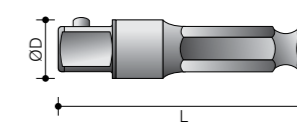
Drawing AJ



Drawing BJ



Drawing CD



Drawing DD

# ADAPTORS



## ADAPTORS EXTERNAL SQUARE-EXTERNAL HEX

1

Type			Drawing	D mm	L mm
Inch					
DO69306050	1/4"	1/4"	CD	9	50
DO69306075	1/4"	1/4"	CD	9	75
DO69306100	1/4"	1/4"	CD	9	100
DO69306150	1/4"	1/4"	CD	9	150
DO69316050	3/8"	1/4"	CD	13	50
DO69316075	3/8"	1/4"	CD	13	75
DO69316100	3/8"	1/4"	CD	13	100
DO69318075	3/8"	7/16"	DD	13	75
DO6932E050	1/2"	1/4"	CD	17	50
DO69328075	1/2"	7/16"	DD	17	75



## PIN & RING

Drive	Type	Diameter socket (D2)*
1/4"	DO1014-0-000	13 mm
3/8"	DO1038-0-000	19 & 22 mm (set)
1/2"	DO1012-0-000	25 & 30 mm (set)

\* NOTE: These sizes are not those of the O-ring but are based on the D2 dimensions of the socket.

## JOINTS

### UNIVERSAL JOINTS WITH STEEL BALL

2

Type			Drawing	D2 mm	L mm
Inch					
DO6781F1T	1/4"	1/4"	AJ	16	43
DO6782F2T	3/8"	3/8"	AJ	24	50
DO6783F3T	1/2"	1/2"	AJ	32	60

### UNIVERSAL JOINTS WITH PIN HOLE

3

Type			Drawing	D2 mm	L mm
Inch					
DO64302008	1/4"	1/4"	BJ	16	43
DO9038-0-000	3/8"	3/8"	BJ	24	50
DO9012-0-000	1/2"	1/2"	BJ	32	60

Rings and pins are not standard. Please order separately.

# ADAPTORS



## ADAPTORS WITH PIN HOLE



Type			Drawing	D2 mm	L mm
DO8014-0-038	1/4"	3/8"	AD	13	26
DO8038-0-014	3/8"	1/4"	AD	22	32
DO8038-0-012	3/8"	1/2"	AD	22	36
DO8012-0-034	1/2"	3/4"	AD	30	48
DO8012-0-038	1/2"	3/8"	AD	26	38



## ADAPTORS WITH STEEL BALL



Type			Drawing	D2 mm	L mm
DO64001012	1/4"	3/8"	AD	13,6	26
DO64011008	3/8"	1/4"	AD	22	32
DO6822F3T	3/8"	1/2"	AD	22	36
DO6823F2T	1/2"	3/8"	AD	25	38

## HEX DRIVERS-7/16"

4

Type		Drawing		L1 mm	L mm
Metric					
DO697RG606	7/16"	EH		6	60
DO697RG608	7/16"	EH		8	60
DO697RG610	7/16"	EH		10	60
DO697RG612	7/16"	EH		12	60
DO697RG614	7/16"	EH		14	60
DO697RG617	7/16"	EH		17	60

## MAGNETIC REDUCING ADAPTORS

3

Type			Drawing	D2 mm	L mm
DO69880P12	1/4"	3/8"	AM	19	17
DO69880P16	1/4"	1/2"	AM	25	22
DO69881P16	3/8"	1/2"	AM	25	22
DO69882P20	1/2"	5/8"	AM	35	23

The magnetic sleeve adaptors allow the temporary use of bigger impact sockets on smaller tools. By means of magnet, chances of losing the adaptor are reduced. Especially well suited for the service kit of a traveling mechanic tasked with the servicing of heavy equipment.

## TRIPLE SQUARE BITS-7/16"

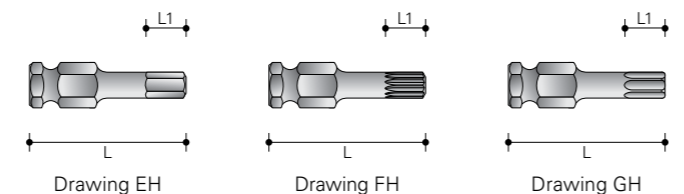
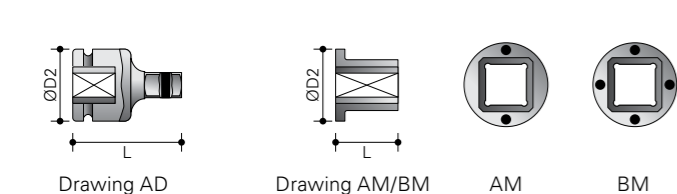
4

Type		Drawing		L1 mm	L mm
Metric					
DO698JG110	7/16"	FH		M10	9

## INTERNAL TORX BITS-7/16" DRIVE

4

Type		Drawing		L1 mm	L mm
DO697LG130	7/16"	GH		T30	3,8
DO697LG140	7/16"	GH		T40	3,8
DO697LG145	7/16"	GH		T45	4,3
DO697LG150	7/16"	GH		T50	5
DO697LG155	7/16"	GH		T55	5,5
DO697LG160	7/16"	GH		T60	8



# ADAPTORS



## QUICK CHANGE ADAPTORS

1

Type	Drawing			D2 mm	L mm
DO69110C08	AQ	1/4"	1/4"	13	35
DO69110C12	AQ	1/4"	3/8"	13	42
DO69111C12	AQ	3/8"	3/8"	19	46
DO69111C16	AQ	3/8"	1/2"	22	60
DO69112C12	AQ	1/2"	3/8"	25	54
DO69112C16	AQ	1/2"	1/2"	25	60

## QUICK CHANGE BIT HOLDER

3

Type	Drawing			D2 mm	L mm	Bit Holder
DO69121B08	CQ	3/8"	1/4"	19	33	F
DO69122B08	CQ	1/2"	1/4"	25	41	F

## QUICK CHANGE BIT HOLDER

2

Type	Drawing			D2 mm	L mm	Bit Holder
Inch						
DO69111A08	BQ	3/8"	1/4"	19	45	E
DO69111A14	BQ	3/8"	7/16"	22	51	E
DO69112A14	BQ	1/2"	7/16"	25	54	E
DO69114A14	BQ	3/4"	7/16"	44	67	E

## BIT HOLDER

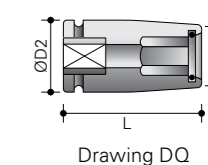
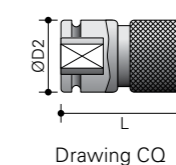
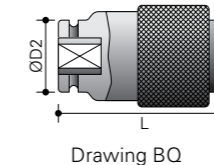
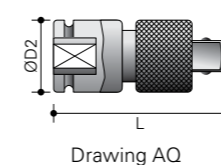
4

Type	Drawing			D1 mm	D2 mm	L mm	Bit Holder
Inch							
DO69121008	DQ	3/8"	1/4"	12,5	19	32	F
DO69121010	DQ	3/8"	5/16"	14	19	37	F
DO69121016	DQ	3/8"	1/2"	19	19	37	F
DO69122008	DQ	1/2"	1/4"	12,5	25	40	F
DO69122010	DQ	1/2"	5/16"	15,5	25	40	F
DO69122016	DQ	1/2"	1/2"	20	25	40	F

BIT HOLDER E

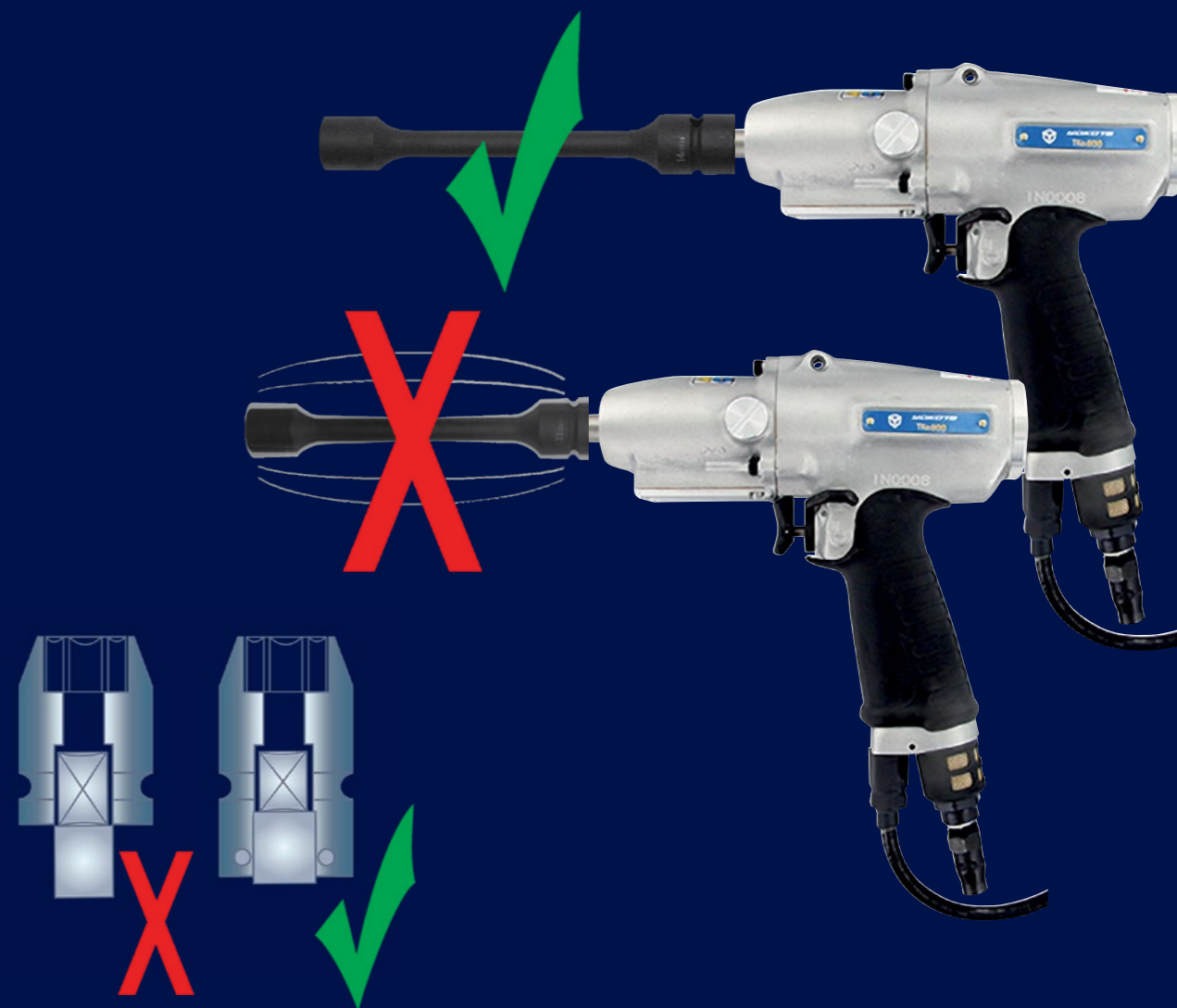


BIT HOLDER F



# SLEEVE DRIVE IMPACT SOCKETS

Sleeve drive impact sockets have been developed for us by Action. Sleeve drive sockets improve the quality of a joint tightened with an impulse wrench. They minimize the play between the socket and the tool thus reducing “wobble” and stabilizing the torque setting. The use of sleeve drive sockets is not only of benefit to the actual joint but it also reduces vibration to the tool and operator, reduces noise and prevents fast wearing of the tool.



**LOW VIBRATION**

- SLEEVE DRIVE IMPACT SOCKETS GUARANTEE:
- Reduced vibration
  - Accurate torque
  - Noise reduction
  - Less wear



# 3/8" SLEEVE DRIVE



**6-POINT NORMAL** 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO60910006	6	AS	11	19	43	5
DO60910008	8	AS	13	19	43	7
DO60910009	9	AS	15	19	43	7
DO60910010	10	AS	16	19	43	8
DO60910011	11	AS	17,5	19	43	9
DO60910012	12	BS	19	19	43	9
DO60910013	13	AS	20	22	43	9
DO60910014	14	AS	21	22	43	9
DO60910015	15	BS	22	22	43	11
DO60910016	16	CS	24	22	43	11
DO60910017	17	CS	25	22	43	11
DO60910018	18	CS	26	22	43	11
DO60910019	19	CS	27,5	22	43	11
DO60910021	21	CS	30	22	43	13

**6-POINT LONG** 2

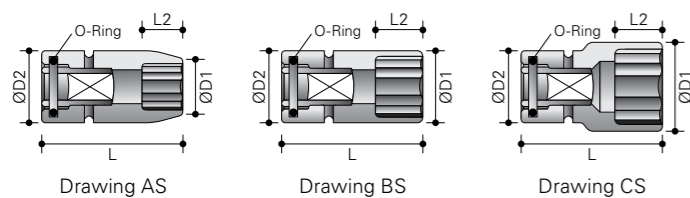
Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO60913006	6	DS	10,5	22	100	4
DO60913008	8	DS	12,5	22	100	8
DO60913010	10	DS	15	22	100	8
DO60913012	12	DS	18	22	100	9
DO60913013	13	DS	19	22	100	9
DO60913014	14	DS	20	22	100	9
DO60913015	15	DS	21	22	100	11
DO60913016	16	DS	22,5	22	100	11
DO60913017	17	DS	24	22	100	11
DO60914006	6	DS	10,5	22	150	4
DO60914008	8	DS	12,5	22	150	8
DO60914010	10	DS	15	22	150	8
DO60914012	12	DS	18	22	150	9
DO60914013	13	DS	19	22	150	9
DO60914014	14	DS	20	22	150	9
DO60914015	15	DS	21	22	150	11
DO60914016	16	DS	22,5	22	150	11
DO60914017	17	DS	24	22	150	11
DO60915006	6	DS	10,5	22	200	4
DO60915008	8	DS	12,5	22	200	8
DO60915010	10	DS	15	22	200	8
DO60915012	12	DS	18	22	200	9
DO60915013	13	DS	19	22	200	9
DO60915014	14	DS	20	22	200	9
DO60915015	15	DS	21	22	200	11
DO60915016	16	DS	22,5	22	200	11
DO60915017	17	DS	24	22	200	11
DO60915019	19	DS	27	22	200	11

**6-POINT NORMAL MAGNETIC** 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO6091A006	6	AS	11	19	43	5
DO6091A007	7	AS	12	19	43	5
DO6091A008	8	AS	13	19	43	7
DO6091A009	9	AS	15	19	43	7
DO6091A010	10	AS	16	19	43	8
DO6091A011	11	AS	17,5	19	43	9
DO6091A012	12	BS	18,5	19	43	9
DO6091A013	13	AS	20	22	43	9
DO6091A014	14	AS	21	22	43	9
DO6091A016	16	CS	24	22	43	11
DO6091A017	17	CS	25	22	43	11
DO6091A018	18	CS	26	22	43	11
DO6091A019	19	CS	27	22	43	11
DO6091A020	20	CS	28	22	43	13
DO6091A021	21	CS	30	22	43	13
DO6091A022	22	CS	31	22	50	13
DO6091A023	23	CS	32	22	50	13
DO6091A024	24	CS	34	22	50	13
DO6091A025	25	CS	35	22	50	13
DO6091A026	26	CS	36	22	50	13
DO6091A027	27	CS	38	22	50	13

**6-POINT LONG MAGNETIC** 3

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO6091P006	6	DS	11	19	100	3
DO6091P007	7	DS	12	19	100	3
DO6091P008	8	DS	13	19	100	4
DO6091P009	9	DS	15	19	100	4
DO6091P010	10	DS	16	19	100	4
DO6091P011	11	DS	17,5	19	100	5
DO6091P012	12	DS	18,5	19	100	5
DO6091P013	13	DS	20	22	100	6
DO6091P014	14	DS	21	22	100	6
DO6091P015	15	DS	22	22	100	7
DO6091P016	16	DS	24	22	100	7
DO6091P017	17	DS	25	22	100	7
DO6091R008	8	DS	13	19	150	4
DO6091R010	10	DS	16	19	150	4
DO6091R011	11	DS	17,5	19	150	5



# 3/8" SLEEVE DRIVE



**6-POINT LONG MAGNETIC (CONTINUED)** 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO6091R012	12	DS	18,5	19	150	5
DO6091R013	13	DS	20	22	150	6
DO6091R014	14	DS	21	22	150	6
DO6091R015	15	DS	22	22	150	7
DO6091R016	16	DS	24	22	150	7
DO6091R017	17	DS	25	22	150	7
DO6091T008	8	DS	13	19	200	4
DO6091T009	9	DS	15	19	200	4
DO6091T010	10	DS	16	19	200	4
DO6091T012	12	DS	18,5	19	200	5
DO6091T013	13	DS	20	22	200	6
DO6091T014	14	DS	21	22	200	6
DO6091T015	15	DS	22	22	200	7

**TORX® EXTERNAL** 4

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
DO66910005	E5	AS	8	19	43	4,5
DO66910006	E6	AS	9	19	43	5,0
DO66910007	E7	AS	9,5	19	43	6,0
DO66910008	E8	AS	11	19	43	6,5
DO66910010	E10	AS	13	19	43	7,5
DO66910011	E11	AS	14	19	43	8,0
DO66910012	E12	AS	15,5	19	43	8,5
DO66910014	E14	AS	17,5	22	43	10,0
DO66910016	E16	AS	18,5	22	43	11,0

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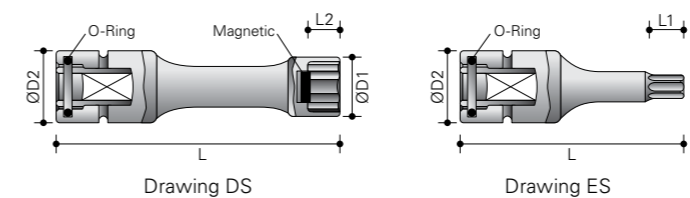
**6-POINT DEEP MAGNETIC** 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO6091Q010	10	FS	16	19	100	5
DO6091Q012	12	FS	18,5	19	100	6
DO6091Q013	13	FS	20	22	100	6
DO6091Q014	14	FS	21	22	100	6
DO6091Q016	16	FS	24	22	100	7

**TORX® INTERNAL** 3

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO68811009	T9	ES	22	75	2	-
DO68811010	T10	ES	22	75	2,8	-
DO68811015	T15	ES	22	75	2,8	-
DO68811020	T20	ES	22	75	2,8	-
DO68811025	T25	ES	22	75	3	-
DO68811027	T27	ES	22	75	3	-
DO68811030	T30	ES	22	75	3,8	-
DO68811040	T40	ES	22	75	3,8	-
DO68811045	T45	ES	22	75	4,3	-
DO68811047	T47	ES	22	75	5	-
DO68811050	T50	ES	22	75	5	-
DO68811055	T55	ES	22	75	5	-

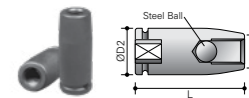
Torx® is a trademark of Textron.



**HEX DRIVER (INBUS)** 5

Type	Drawing	D2 mm	L mm	L1 mm	-	
Metric						
DO68916003	3	ES	22	75	11	-
DO68916004	4	ES	22	75	11	-
DO68916005	5	ES	22	75	11	-
DO68916006	6	ES	22	75	11	-
DO68916007	7	ES	22	75	16	-
DO68916008	8	ES	22	75	16	-
DO68916009	9	ES	22	75	16	-
DO68916010	10	ES	22	75	16	-
DO68916011	11	ES	22	75	16	-
DO68916012	12	ES	22	75	16	-
DO68916013	13	ES	22	75	16	-
DO68916014	14	ES	22	75	16	-
DO68916015	15	ES	22	75	16	-
DO68916016	16	ES	22	75	16	-

**STUD BOLT SETTERS**



Type	Size	D1 mm	D2 mm	L mm
DO66A10062	M6 x 1	12,5	22	50
DO66A10083	M8 x 1,25	15	22	50
DO66A10104	M10 x 1,5	17	22	50

# 1/2" SLEEVE DRIVE



## 6-POINT NORMAL 1

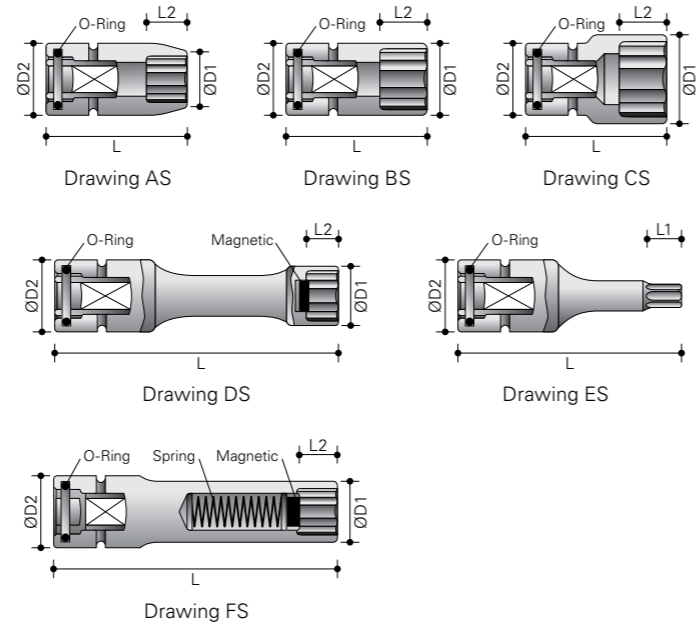
Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO60920012	12	AS	20	25	52	12
DO60920013	13	AS	21	25	52	12
DO60920014	14	AS	22,5	25	52	12
DO60920015	15	AS	23,7	30	52	12
DO60920016	16	AS	25	30	52	12
DO60920017	17	AS	26	30	52	12
DO60920018	18	AS	27,5	30	52	12
DO60920019	19	AS	28,7	30	52	12
DO60920021	21	BS	30	30	52	12
DO60920022	22	CS	32	30	52	12
DO60920023	23	CS	32	30	52	12
DO60920024	24	CS	35	30	52	12
DO60920025	25	CS	36	30	57	12
DO60920027	27	CS	39	30	57	12
DO60920030	30	CS	42	30	62	12
DO60920032	32	CS	44	30	62	12

## 6-POINT LONG 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO60923010	10	DS	17	25	100	12
DO60923012	12	DS	19,5	25	100	12
DO60923013	13	DS	20,5	25	100	12
DO60923014	14	DS	21,5	25	100	12
DO60923015	15	DS	22,5	25	100	12
DO60923017	17	DS	25	25	100	13
DO60923019	19	DS	28	25	100	13
DO60924010	10	DS	17	25	150	12
DO60924012	12	DS	19,5	25	150	12
DO60924013	13	DS	20,5	25	150	12
DO60924014	14	DS	21,5	25	150	12
DO60924015	15	DS	22,5	25	150	12
DO60924017	17	DS	25	25	150	13
DO60924019	19	DS	28	25	150	13
DO60925010	10	DS	17	25	200	12
DO60925012	12	DS	19,5	25	200	12
DO60925013	13	DS	20,5	25	200	12
DO60925014	14	DS	21,5	25	200	12
DO60925015	15	DS	22,5	25	200	12
DO60925017	17	DS	25	25	200	13
DO60925019	19	DS	28	25	200	13

## 6-POINT LONG MAGNETIC 3

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO6092P010	10	DS	17,5	25	100	4
DO6092P011	11	DS	18,5	25	100	5
DO6092P012	12	DS	20	25	100	5
DO6092P013	13	DS	21	25	100	6
DO6092P014	14	DS	22,5	25	100	6
DO6092P015	15	DS	23,5	30	100	7
DO6092P016	16	DS	25	30	100	7
DO6092P017	17	DS	26	30	100	7
DO6092P018	18	DS	27,5	30	100	8
DO6092P019	19	DS	28,5	30	100	8
DO6092R010	10	DS	17,5	25	150	12
DO6092R011	11	DS	18,5	25	150	12
DO6092R012	12	DS	20	25	150	12
DO6092R013	13	DS	21	25	150	12
DO6092R014	14	DS	22,5	25	150	12
DO6092R015	15	DS	23,5	30	150	12
DO6092R016	16	DS	25	30	150	13
DO6092R017	17	DS	26	30	150	13
DO6092R018	18	DS	27,5	30	150	13
DO6092R019	19	DS	28,5	30	150	13
DO6092T010	10	DS	17,5	25	200	12
DO6092T011	11	DS	18,5	25	200	12
DO6092T012	12	DS	20	25	200	12
DO6092T013	13	DS	21	25	200	12
DO6092T014	14	DS	22,5	25	200	12
DO6092T015	15	DS	23,5	30	200	12
DO6092T016	16	DS	25	30	200	13
DO6092T017	17	DS	26	30	200	13
DO6092T018	18	DS	27,5	30	200	13
DO6092T019	19	DS	28,5	30	200	13



# 1/2" SLEEVE DRIVE



## 6-POINT NORMAL MAGNETIC 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO6092A006	6	AS	13	25	52	5
DO6092A007	7	AS	14	25	52	5
DO6092A008	8	AS	15	25	52	7
DO6092A009	9	AS	16	25	52	7
DO6092A010	10	AS	17,5	25	52	8
DO6092A011	11	AS	18,5	25	52	9
DO6092A012	12	AS	20	25	52	12
DO6092A013	13	AS	21	25	52	12
DO6092A014	14	AS	22,5	25	52	12
DO6092A015	15	AS	23,5	30	52	12
DO6092A016	16	AS	25	30	52	12
DO6092A017	17	AS	26	30	52	12
DO6092A018	18	AS	27,5	30	52	12
DO6092A019	19	AS	28,5	30	52	12
DO6092A020	20	BS	30	30	52	12
DO6092A021	21	CS	31	30	52	12
DO6092A022	22	CS	32	30	52	12
DO6092A023	23	CS	34	30	52	12
DO6092A024	24	CS	35	30	52	12
DO6092A025	25	CS	36	30	57	12
DO6092A026	26	CS	38	30	57	12
DO6092A027	27	CS	38,5	30	57	12

## 6-POINT DEEP MAGNETIC 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
Metric						
DO6092Q010	10	FS	17,5	25	100	5
DO6092Q013	13	FS	21	25	100	6
DO6092Q016	16	FS	25	30	100	7
DO6092Q017	17	FS	26	30	100	7
DO6092Q019	19	FS	28,5	30	100	8

## TORX® EXTERNAL 3

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm	
DO66920010	E10	AS	14	25	52	7,5
DO66920011	E11	AS	15	25	52	8
DO66920012	E12	AS	16	25	52	8,5
DO66920014	E14	AS	18	25	52	10
DO66920016	E16	AS	20	25	52	11
DO66920018	E18	AS	22	25	52	12,5
DO66920020	E20	AS	25	30	52	14
DO66920022	E22	AS	27	30	52	15
DO66920024	E24	AS	29	30	52	16,5

Torx® is a trademark of Textron.

## TORX® INTERNAL 4

Type	Drawing	D2 mm	L mm	L1 mm	-	
DO68821020	T20	ES	25	75	2,8	-
DO68821025	T25	ES	25	75	3	-
DO68821027	T27	ES	25	75	3	-
DO68821030	T30	ES	25	75	3,8	-
DO68821040	T40	ES	25	75	3,8	-
DO68821045	T45	ES	25	75	4,3	-
DO68821047	T47	ES	25	75	5	-
DO68821050	T50	ES	25	75	5	-
DO68821055	T55	ES	25	75	5,5	-
DO68821060	T60	ES	25	75	8	-
DO68821070	T70	FS	25	75	9,4	-
DO68821080	T80	ES	25	75	10,5	-
DO68821090	T90	ES	25	75	11,8	-
DO68821100	T100	ES	25	75	13,1	-

Torx® is a trademark of Textron.

## HEX DRIVER (INBUS) 5

Type	Drawing	D2 mm	L mm	L1 mm	-	
Metric						
DO68925003	3	ES	25	75	11	-
DO68925004	4	ES	25	75	11	-
DO68925005	5	ES	25	75	15	-
DO68925006	6	ES	25	75	15	-
DO68925007	7	ES	25	75	20	-
DO68925008	8	ES	25	75	25	-
DO68925009	9	ES	25	75	25	-
DO68925010	10	FS	25	75	25	-
DO68925011	11	ES	25	75	25	-
DO68925012	12	ES	25	75	25	-
DO68925013	13	ES	25	75	25	-
DO68925014	14	ES	25	75	25	-
DO68925015	15	ES	25	75	25	-
DO68925016	16	ES	25	75	25	-
DO68925017	17	ES	25	75	25	-
DO68925018	18	ES	25	75	25	-
DO68925019	19	ES	25	75	25	-

## STUD BOLT SETTERS

Type	Gewinde	D1 mm	D2 mm	L mm
DO66A21062	M6 x 1	13	25	75
DO66A21104	M10 x 1,5	17	25	75
DO66A21125	M12 x 1,75	19	25	75
DO66A21146	M14 x 2	22	25	75
DO66A21166	M16 x 2	27	30	75

# 3/4" SLEEVE DRIVE



**6-POINT NORMAL** 1

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric					
DO60940017	17 AS	31	44	65	12
DO60940018	18 AS	32	44	65	12
DO60940019	19 AS	33	44	65	14
DO60940021	21 AS	35	44	65	16
DO60940022	22 AS	37	44	65	16
DO60940023	23 AS	38	44	65	16
DO60940024	24 AS	39	44	65	16
DO60940026	26 AS	41	44	65	16
DO60940027	27 AS	43	44	65	16
DO60940028	28 BS	44	44	68	20
DO60940029	29 CS	45	44	68	20
DO60940030	30 CS	47	44	68	20
DO60940032	32 CS	49	44	70	20
DO60940033	33 CS	51	44	70	20
DO60940034	34 CS	52	44	70	20
DO60940035	35 CS	53	44	70	20
DO60940036	36 CS	54	44	70	20
DO60940038	38 CS	57	44	72	22
DO60940041	41 CS	60	44	72	22
DO60940046	46 CS	67	54	77	23
DO60940050	50 CS	71	54	77	23

**HEX DRIVER (INBUS)** 3

Type	Drawing	D2 mm	L mm	L1 mm	-
Metric					
DO68945010	10 ES	44	100	20	-
DO68945012	12 ES	44	100	20	-
DO68945014	14 ES	44	100	20	-
DO68945016	16 ES	44	100	20	-
DO68945017	17 ES	44	100	20	-
DO68945019	19 ES	44	100	20	-
DO68945022	22 ES	44	100	20	-
DO68945024	24 ES	44	100	20	-
DO68945027	27 ES	44	100	20	-
DO68945030	30 ES	44	100	20	-
DO68945032	32 ES	44	100	20	-
DO68945033	33 ES	44	100	20	-
DO68945036	36 ES	44	100	20	-
DO68945038	38 ES	44	100	20	-

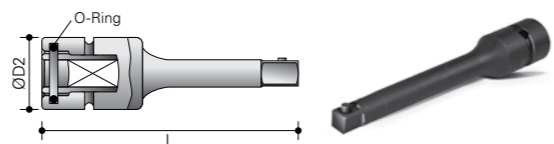
**TORX® EXTERNAL** 4

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm
DO66940018	E18 AS	26	44	65	12,5
DO66940020	E20 AS	28	44	65	14
DO66940022	E22 AS	31	44	65	15
DO66940024	E24 AS	33	44	65	16,5

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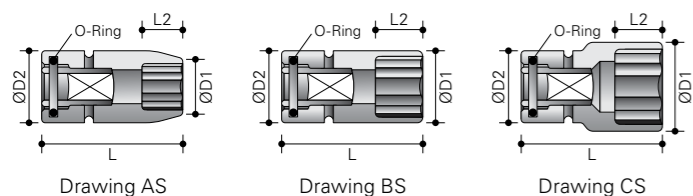
**EXTENSIONS**

Type		L mm	D2 mm
DO64614075	3/8"	75	22
DO64614125	3/8"	125	22
DO64614250	3/8"	250	22
DO64624075	1/2"	75	25
DO64624125	1/2"	125	25
DO64624175	1/2"	175	25
DO64624250	1/2"	250	25
DO64644175	3/4"	175	44
DO64644250	3/4"	250	44
DO64644330	3/4"	330	44



**6-POINT MAGNETIC** 2

Type	Drawing	D1 mm	D2 mm	L mm	L2 mm
Metric					
DO6094A013	13 AS	24,5	44	65	12
DO6094A014	14 AS	25,5	44	65	12
DO6094A015	15 AS	27	44	65	12
DO6094A016	16 AS	28	44	65	12
DO6094A017	17 AS	30	44	65	12
DO6094A018	18 AS	31	44	65	12
DO6094A019	19 AS	32	44	65	14
DO6094A020	20 AS	34	44	68	14
DO6094A021	21 AS	35	44	68	16
DO6094A022	22 AS	37	44	68	16
DO6094A023	23 AS	38	44	68	16
DO6094A024	24 AS	39	44	68	16
DO6094A025	25 AS	41	44	69	16
DO6094A026	26 AS	42	44	69	16
DO6094A027	27 AS	43	44	69	16



# SLEEVE DRIVE



**QUICKCHANGE ADAPTORS** 1

Type		D2 mm	L mm	-
DO69151112	3/8"	19	75	-
DO69151212	3/8"	19	100	-
DO69151116	3/8"	20	80	-
DO69152112	1/2"	25	75	-
DO69152216	1/2"	25	100	-
DO69154116	3/4"	44	90	-
DO69154324	3/4"	44	125	-

**BIT HOLDERS** 2

Type		D2 mm	L mm	-
DO69111E08	3/8"	22	52	-
DO69111E14*	3/8"	22	62	-
DO69112E08	1/2"	25	60	-
DO69112E14*	1/2"	25	70	-
DO69114E14*	3/4"	44	80	-

\* See page 126 for 7/16" bit holders.

# SERVICE



# SERVICE

We continuously place great emphasis on giving excellent support, we can deliver 97% of our product range Europe wide within 24-48. We value concepts such as durability and sustainability and endeavour to train all our customers in the use and maintenance of our products, proper use lengthens the lifetime of the tools considerably therefore contributing to a reliable production process. We have extensive facilities and very experienced expert staff who not only master the course content but also possess great teaching ability which makes our training highly effective and motivating.

We also assist in demonstrating our tools at end-users together with our customers, which enables us to give specialized advice. The practical information may differ from the theoretical and the insight gained on-site gives us the information we require to arrive at the most suitable solution for the application.

We support our partners by supplying a variety of display racks and units to exhibit tools, impact sockets and in some cases our lower capacity air chain hoists. In order to remain relevant we also assist the customer in analysing the range on display and adjusting it when deemed necessary.

Our entire product range has been combined in our main POWERTOOLS catalogue which is offered in both print and pdf versions in five languages. We also have a variety of other (smaller) brochures that touch upon all the different types of products within our program. Important information regarding our tools, from exploded view to user manuals and instruction or tutorial videos can be found on our website. On the next page please pay careful attention to the information regarding maintenance and warranty of your tools and related products.

# MAINTENANCE

## *Maintenance & Warranty*

### **MAINTENANCE**

We strive to avoid breakage and expensive interruption of your production processes through proper and thorough maintenance.

### **BEFORE USE**

Read and store the user manual of your tool. It contains valuable information about the functioning of the tool and the safety recommendations. For the batteries of cordless tools: before use, charge the battery fully. Do not store the battery for periods longer than 6 months without discharging and charging them again.

### **WE ADVISE YOU TO TAKE THE FOLLOWING POINTS INTO CONSIDERATION:**

- Oil your tool at regular intervals using Red Rooster Atlub fully synthetic resin and acid free lubrication

### **FOR AIR TOOLS:**

- Always check before connecting the hose to the tool, that both the air hose and fittings are in good condition and free of any debris or dirt
- The use of a correctly sized air treatment set (FRL) and a correctly adjusted lubricator
- The use of a hose between the oiler and air tool of max. 8 m. (26 ft.). In case of a longer hose please mount an SMC jet oiler. The jet oiler has a reach of approx. 200 m. (656 ft.).
- The air pressure of the tool has to be 0.63 MPa.

### **PRESSURE TOO LOW!**

When the air supply to the tools is too low it could reduce the performance and the accuracy of the tool. Slow starting and lower productivity lead to a loss of efficiency. 0,1 MPa pressure reduction means 25% power loss to the air motor.

### **LOW PRESSURE MAY OCCUR IF:**

- The capacity of the compressor is insufficient
- The air piping has been pitched incorrectly
- There are air leaks
- The air treatment equipment is not functioning
- The wrong size hose nipples or quick couplers are used
- The tank is too small

### **PLEASE NOTE**

When using impact wrenches and impulse wrenches, the torques shown will vary if used on a soft joint. A soft joint can be caused by the use of washers, gaskets and other elastic materials.

### **QUALITY OF THE AIR**

Poor air quality can result in expensive production downtime, and will increase the time and costs of maintenance, as well as shorten the lifetime of the tool. Good quality air should be a first priority, investments will be worth it, saving your tools from (permanent) damages.

Poor quality air can be caused by:

- Lack of necessary air treatment equipment
- Poor quality and/or wrong installation of the air treatment equipment
- Lack of maintenance of the air treatment equipment
- Incorrect hose diameter

DRAW WATER FROM THE AIR PIPING AND COMPRESSOR TANK DAILY. CHECK IF THE LUBRICATORS ARE FILLED WITH RED ROOSTER ATLUB OIL.

### **WARRANTY**

The warranty period from the date of purchase is as follows:

#### **12 MONTHS**

- Industrial cordless, electrical and air tools Yokota, Red Rooster and NovaTork.
- Hoists and winches of Red Rooster

#### **3 MONTHS**

- On repairs and replaced spare parts, repaired by us or our recognized partners.

Warranty covers clearly definable material and/or construction faults by the manufacturer. Replacement of parts or repair by an official partner of ours, is free of charge when the tool is covered by warranty. Freight or postage is the responsibility of the customer. Damage attributed to normal wear, overloading or incorrect use is excluded from warranty. Replacement of tools as a consequence of warranty claims is not part of the warranty arrangements. Claims for the loss of production and/or other damages are excluded from this warranty.

Repairs under warranty can only be considered when the tool is in its original state and it is accompanied by the purchase invoice. Warranty claims have to be made through the distributor who supplied the tool. We reserve the right to make unannounced changes/modifications to our tools. These warranty conditions are based on an 8 hour working day.

# TRAINING



## TRAINING

Changes are continuously taking place as systems, guidelines or installations are renewed. New systems require new skills, which is why it is so important that you continue to train your employees.

Rami Yokota's know how on products, applications, regulations and much more is something that we are happy to share with you. We will teach you everything about our products both from a theoretical and a practical point of view.

## RAMI YOKOTA TRAINING

In our Head Office located in Amsterdam, the Netherlands we have a showroom and workshop with extensive training facilities which enable us to use actual tools when discussing every day practice. In addition to the practical elements of the training, the commercial and technical experience of our training team will prove of great benefit to your employees. Theoretical aspects are cleverly woven into one or two day courses, ensuring dynamic and exciting curriculum that will not be easily forgotten.

## TRAINING MODULES

Our modules vary from basic training in the practical use of tools all the way to advanced training on highly specialised tools. Course material is always up-to-date and includes the most recent technologies in tools, processing and materials.

### • General product training

During our general product training you will receive full knowledge about the necessary pre-conditions for the long-term trouble-free use of our (air)tools. You will also receive insight regarding the different solutions that Rami Yokota can offer for numerous applications and intensities of use those applications require.

### • Assembly training

Market wide components are engineered with increasing detail, therefore bolt connections have to be calculated in a more detailed manner too. The choice of assembly tool is therefore of growing and greater importance. This training is specifically aimed at the assembly industry. After this training you will be enabled to give correct advice about the tools and their applications.

### • Repair training

Faults and break-downs of tools and machinery constitute a large unnecessary cost for many companies, downtime of tools can cause costly interruption to expensive production processes.

Rami Yokota's training is developed to minimize the costs to our customers, our training focuses on recognizing and interpreting signals of wear and tear, as well as disseminating all the necessary information to prevent breakage of (air) tools and air hoists. Timely and sufficient maintenance is the key!

Your company benefits from the acquired know-how about products and their applications. Well trained employees help increase productivity, quality and safety.

### • E-learning

Our training program is now also available in separate e-learning modules and through Microsoft Teams.

Interested in a training course at Rami Yokota or would you like some more information?

Then do get in touch with us via [marketing@rami-yokota.com](mailto:marketing@rami-yokota.com) and inform us about your requirements.

# SUPPORT



## BROCHURES

We offer several information brochures and product leaflets to help you promote, explain and sell our products. The following brochures are available upon request in five languages (Dutch, English, German, French, Polish):

- Powertools
- Assembly Tools
- Action Impact Sockets
- Red Rooster Air Chain Hoists
- Twice yearly brochure with special OFFERS

All brochures have a space on the back for your stamp or sticker, enabling your customers to know where they can get direct knowledge/training and materials about their tools or potential purchases.

## DEMONSTRATION

Many of our tools require explanation and even demonstration. Our sales staff are highly trained and available to plan visits with your staff so that the end customer can be convinced the proposed tool is the appropriate solution for their place of work.

For appointments and further information please feel free to contact the sales person in your region, or our head office in Amsterdam.

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Assembly Tools  
Impulse Wrenches  
System Wrenches  
Screwdrivers  
Torque Wrenches  
Balancers  
Impact Sockets

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