








Bits & Sockets

After starting out as a manufacturer specializing in screwdrivers, VESSEL began developing industrial bits in 1954, and also established itself as specializing in the manufacture of bits. With more than 50 years of experience in this field, we have a full range of products and the know-how to meet even the most demanding needs of our professional users. In addition, we are dedicated to the further evolution of screw tightening technology and increased reliability as we continue to develop original "conception products" through technological innovation.

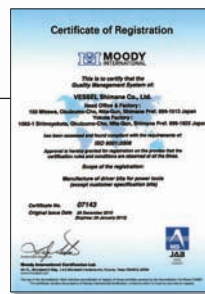


064~066 067	064~065 067	064~065 067	064/066	064~065 067					Precision Bits
			067						Bit Holders
070~073 075	072	072/075		073/075	072	071			Type A Industrial Bits
			073~074						Type A Industrial Sockets
078~080	079	078~079		078~080	080	080			Type B Industrial Bits
			080~081						Type B Industrial Sockets
082~083	082~083			083					Impact Driver Bits/ Automatic Spiral Ratchet Driver Bits/ Short Bits
086~097	088~091 095/097	090~091 094~095	089 092 094 096	090~091	088 091 094				Construction Bits Problem Solver

About ISO

ISO 9001

All manufacturing divisions have begun the process of earning certification under the ISO 9000 series of quality management system standards.



ISO 14001

We obtained ISO 14001 in August 2010. VESSEL will further strive to offer eco-friendly products, aiming at minimizing the environmental burden as a manufacturing group.



062



Construction Sockets
GO-TAN Series

098

067



Drills & Drill Chucks

106

068

073

076

080

082

084

Selection of the Proper Heat Treatment

VESSEL industrial bits are classified according to five main heat treatment classes based on our long-time research data.

The selection of the proper heat treatment is important in securing the longest life for bits, but it may require some trial and error to select the proper heat treatment for a particular application.

Selection of the Proper Heat Treatment

In general, if your bits tend to get broken or chip-off, a bit with less hardness such as "G" will be selected. If your bits wear quickly, choose a harder bit such as "H" or "X".



HEAT TREATMENT CLASS	SCREWS TO BE FASTENED	TYPE OF FIELD
X HIGHEST HARDNESS	PRECISION SCREWS, AUTOMATIC MOUNTING SCREWS, CONNECTING SCREWS	ASSEMBLY OF PRECISE EQUIPMENT, AUTOMATIC MACHINE SCREWING OF LIGHT ELECTRICAL APPLIANCE, HOUSING
H HIGH HARDNESS	WOOD SCREWS, MACHINE SCREWS, SELF-TAPPING SCREWS, SELF-DRILLING SCREWS	ASSEMBLY OF LIGHT ELECTRICAL APPLIANCE & AUDIO EQUIPMENT, BUILDING & WOODWORKING
G STANDARD HARDNESS	TAPPING SCREWS, MACHINE SCREWS	ASSEMBLY OF CAR, MACHINE PARTS & WINDOW DOOR SASHES

VESSEL supplies "E" and "S" -type bits with low hardness for heavy works.

They are ideal for the tools with high impact.

※ The price may differ if the hardness is different.

CONTENTS

Precision Bits






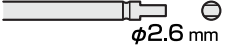
High precision bits for precision fields such as computers, OA equipment, HDDs, acoustic equipment VTRs, and optical equipment. High precision axial runout tolerance suitable for automated screw-tightening robots working in μ units.



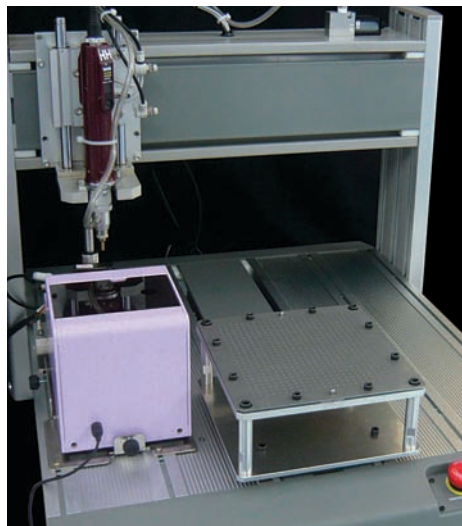
High Precision Bit Tips

Bits with 4mm and 5mm shafts for use with a wide variety of small, electric drivers. Our strong, durable bits undergo actual work tests, damage tests, and repeated fatigue tests during the manufacturing process. In our quest for ever-greater reliability, we employ torque analysis and screw-engagement checks that result in ultra high precision bit tips.



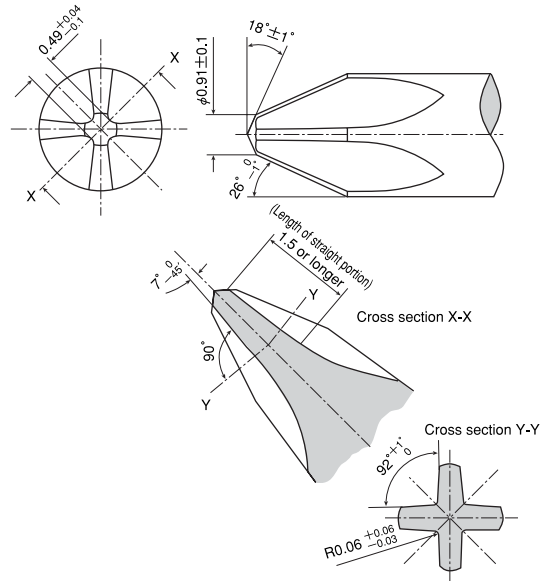
Shape	Model NO.	Page	Applicable models	
			 Torque Control Screwdriver	 Electric S/D (Precision type)
 H 5 mm	B34	065	Hios VZ-1812·1812PS·1820·1820PS·3007·3007PS·3012·3012PS·3012·3012PS	Delvo DLV-3121·3131·3141·3151·7120·7130·7140·7220·7231·7241·8120·8130·8140·8220·8231·8241·7122·7132·7142·7222·7232·7242·8122·8132·8142·8222·8232·8242·30LL·30SL·30HL
	N		Panasonic FE-A310S·A310MH·A310L·A111L·A111MH·A111M·A710AXN·A710MHN	
	B44	066	Kanon 9K-130P·140P·130PF·131L·131LF·131P·131PF, 3K-120L·180L·180LF·120P·180P·180PF, 5KD-200·300	
 φ4 mm	D71	064	Delvo DLV-3321·3331·5820·5840·7020·7030·7031·7313·7319·7321·7323·7325·7329·7331·7333·7335·7339·7349·7410·7419·7420·7429·7810·7820·8020·8030·8031	Hios BL-3000·5000 CL-2000·3000·3000PS·4000·4000PS CLF-3000·4000 α-4500·4500PS·5000·5000PS αF-4500·5000 SS-2000·3000·3000PS·4000·4000PS VZ-1510·1510PS CD-4000·4000PS·5000·5000PS
	D72		Kanon 3K-110L·110P, 2KD-100·200·300	
 φ4 mm	D73	064	Hios BL-7000 CL-6000·6000PS·6500·6500PS·7000·7000PS CLF-6000·6500·7000 α-6500·6500PS, αF-6500, SS-6500·7000 VZ-1812·1812PS·1820·1820PS·3007·3007PS·3012·3012PS CD-6000·6000PS·7000·7000PS	
	D76	065	Panasonic NM-101·101L	
 φ2.6 mm	D82	065	Panasonic NM-101·101L	

We have given extra care to the axial runout of the shafts to ensure they are suitable for automatic screw tightening work. We have achieved a low axial runout of within 0.3mm for standard products up to 60mm in length, and can meet demands for even lower axial runout.

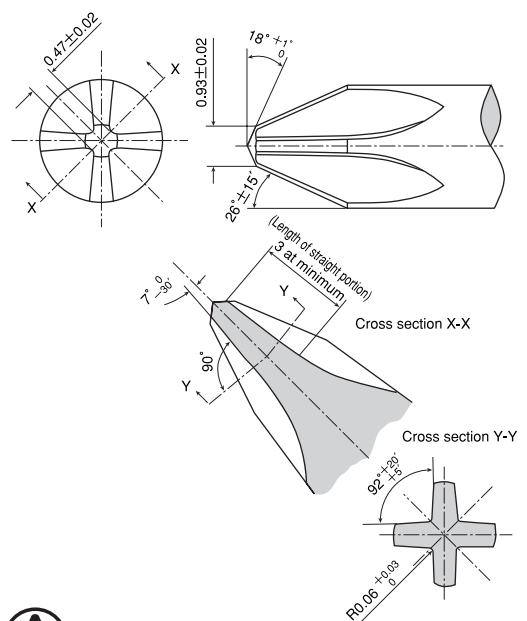


Types of screw drive and the standards

JIS No. 0 Japanese Industrial Standards (JISB4633)



JCIS No. 0 Japan International Cooperation System (JCIS9-70)



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SUPADRIV system is patented and registered as the trademark of EIS corp. in U.K. We at VESSEL CO., INC. has a manufacturing license in Japan and selling same to the world.



POZIDRIV system is patented and registered as the trademark of EIS corp. in U.K. We at VESSEL CO., INC. has a manufacturing license in Japan and selling same to the world.

Bits & sockets

Precision Bits

No. D71 Bit

Technical drawing of No. D71 Bit showing dimensions: d1, d2, L, 20, 11, 3.5, 2, 0.3, 0.4 (±0.3), and 0.5. The drawing includes a cross-section of the bit tip and a side view of the bit.

Eco-friendly

Size Tip×Overall Length (mm)	d1 (mm)	d2 (mm)	Inner Ctn.	Outer Ctn.
⊕ 00 × 1.5 × 44	1.5	—	10	200
64	1.5	—	10	200
⊕ 0 × 2 × 44	2.0	—	10	200
64	2.0	—	10	200
⊕ 0 × 2.5 × 44	2.5	—	10	200
64	2.5	—	10	200
⊕ 1 × 3 × 44	3.0	—	10	200
64	3.0	—	10	200
⊕ 1 × 4 × 44	—	4.0	10	200
64	—	4.0	10	200
⊕ 2 × 4 × 44	—	4.0	10	200
64	—	4.0	10	200
⊖ 2 × 0.3 × 44	2.0	—	10	200
⊖ 2.5 × 0.3 × 44	2.5	—	10	200
⊖ 3 × 0.4 × 44	3.0	—	10	200
⊖ 4 × 0.5 × 44	—	4.0	10	200
A/F 1.5 × 2 × 44	2.0	—	10	200
A/F 2 × 3 × 44	3.0	—	10	200
A/F 2.5 × 3 × 44	3.0	—	10	200
A/F 3 × 4 × 44	—	4.0	10	200

No. D71 TORX Bit

Technical drawing of No. D71 TORX Bit showing dimensions: d1, d2, L, 20, 44, 11, 3.5, 2. The drawing includes a cross-section of the bit tip and a side view of the bit.

Eco-friendly

Size Tip×Overall Length (mm)	mm	d1 (mm)	Inner Ctn.	Outer Ctn.
T1 × 44	0.84	1.5	10	200
T2 × 44	0.94	1.5	10	200
T3 × 44	1.12	1.7	10	200
T4 × 44	1.3	1.8	10	200
T5 × 44	1.37	2.0	10	200
T6 × 44	1.65	2.5	10	200
T7 × 44	1.97	2.5	10	200
T8 × 44	2.3	3.0	10	200
T9 × 44	2.48	3.0	10	200
T10 × 44	2.72	3.0	10	200

No. D72 Socket Bit

Technical drawing of No. D72 Socket Bit showing dimensions: d1, d2, L, 20, 44, 11, 3.5, 2, and 0.5. The drawing includes a cross-section of the bit tip and a side view of the bit.

Eco-friendly

Size Tip×Overall Length (mm)	d1 (mm)	d2 (mm)	Inner Ctn.	Outer Ctn.
A/F 4 × 44	7	3	10	100
A/F 4.5 × 44	7	3	10	100
A/F 5 × 44	8	4	10	100
A/F 5.5 × 44	8	4	10	100

No. D73 Bit

Technical drawing of No. D73 Bit showing dimensions: d1, d2, L, 20, 11.5, 0.3, 0.4 (±0.3), and 0.5. The drawing includes a cross-section of the bit tip and a side view of the bit.

Eco-friendly

Size Tip×Overall Length (mm)	d1 (mm)	d2 (mm)	Inner Ctn.	Outer Ctn.
⊕ 00 × 1.2 × 40	1.2	—	10	100
⊕ 00 × 1.5 × 40	1.5	—	10	100
60	1.5	—	10	100
⊕ 00 × 2 × 40	2.0	—	10	100
60	2.0	—	10	100
⊕ 0 × 1.4 × 40	1.4	—	10	100
60	1.4	—	10	100
⊕ 0 × 1.7 × 40	1.7	—	10	100
60	1.7	—	10	100
⊕ 0 × 2 × 40	2.0	—	10	100
60	2.0	—	10	100
80	2.0	—	10	100
100	2.0	—	10	100
⊕ 0 × 2.5 × 40	2.5	—	10	100
60	2.5	—	10	100
80	2.5	—	10	100
100	2.5	—	10	100
⊕ 1 × 3 × 40	3.0	—	10	100
⊕ 1 × 3 × 20 × 60	3.0	—	10	100
80	3.0	—	10	100
100	3.0	—	10	100
120	3.0	—	10	100
⊕ 1 × 4 × 40	—	4.0	10	100
60	—	4.0	10	100
⊕ 2 × 4 × 40	—	4.0	10	100
60	—	4.0	10	100
80	—	4.0	10	100
100	—	4.0	10	100
120	—	4.0	10	100
⊖ 2 × 0.3 × 40	2.0	—	10	100
⊖ 2.5 × 0.3 × 40	2.5	—	10	100
⊖ 3 × 0.4 × 40	3.0	—	10	100
⊖ 4 × 0.5 × 40	—	4.0	10	100
A/F 1.5 × 2 × 60	2.0	—	10	100
A/F 2 × 3 × 60	3.0	—	10	100
A/F 2.5 × 3 × 60	3.0	—	10	100
A/F 3 × 4 × 60	—	4.0	10	100

No. D73 TORX Bit

Technical drawing of No. D73 TORX Bit showing dimensions: d1, d2, L, 20, 40, 11.5. The drawing includes a cross-section of the bit tip and a side view of the bit.

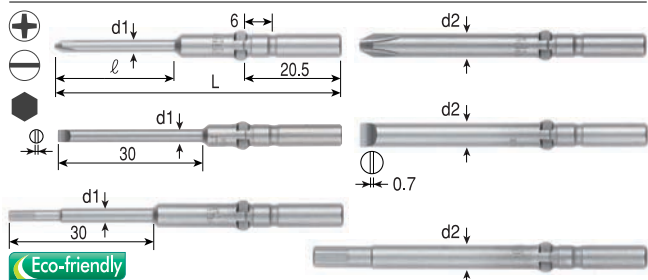
Eco-friendly

Size Tip×Overall Length (mm)	mm	d1 (mm)	Inner Ctn.	Outer Ctn.
T1 × 40	0.84	1.5	10	100
T2 × 40	0.94	1.5	10	100
T3 × 40	1.12	1.7	10	100
T4 × 40	1.3	1.8	10	100
T5 × 40	1.37	2.0	10	100
60	1.37	2.0	10	100
T6 × 40	1.65	2.5	10	100
60	1.65	2.0	10	100
T7 × 40	1.97	2.5	10	100
T8 × 40	2.3	3.0	10	100
T9 × 40	2.48	3.0	10	100
T10 × 40	2.72	3.0	10	100

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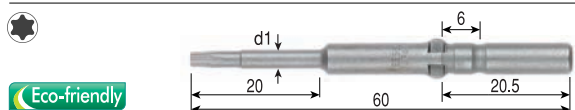
For applicable models >>> 063 page

No. D76 Bit



Size Tip×Overall Length (mm)	l (mm)	d1 (mm)	d2 (mm)	Inner Ctn.	Outer Ctn.
⊕ 00 × 2 × 60	20	1.5	—	10	100
⊕ 0 × 2.5 × 60	25	2.5	—	10	100
⊕ 1 × 3 × 60	30	3.0	—	10	100
⊕ 1 × 3 × 30 × 80	30	3.0	—	10	100
⊕ 1 × 5 × 60	30	5.0	—	10	100
⊕ 2 × 5 × 60	—	—	5.0	10	100
—	80	—	5.0	10	100
—	100	—	5.0	10	100
—	120	—	5.0	10	100
—	150	—	5.0	10	100
⊖ 3 × 0.4 × 60	—	3.0	—	10	100
⊖ 4 × 0.6 × 60	—	4.0	—	10	100
⊖ 5 × 0.7 × 60	—	—	5.0	10	100
A/F 2 × 3 × 70	—	3.0	—	10	100
A/F 2.5 × 3 × 70	—	3.0	—	10	100
A/F 3 × 4 × 70	—	4.0	—	10	100
A/F 4 × 5 × 70	—	—	5.0	10	100

No. D76 TORX Bit



Size Tip×Overall Length (mm)	mm	d1 (mm)	Inner Ctn.	Outer Ctn.
T5 × 60	1.37	2.0	10	100
T6 × 60	1.65	2.5	10	100
T7 × 60 ▲	1.97	2.5	10	100
T8 × 60	2.3	3.0	10	100
T9 × 60	2.48	3.0	10	100
T10 × 60	2.72	3.0	10	100
T15 × 60	3.26	4.0	10	100
T20 × 60	3.84	—	10	100
T25 × 60	4.4	—	10	100

▲For the date of delivery, consult Vessel.

No. D82



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 1 × 31	H	10	100

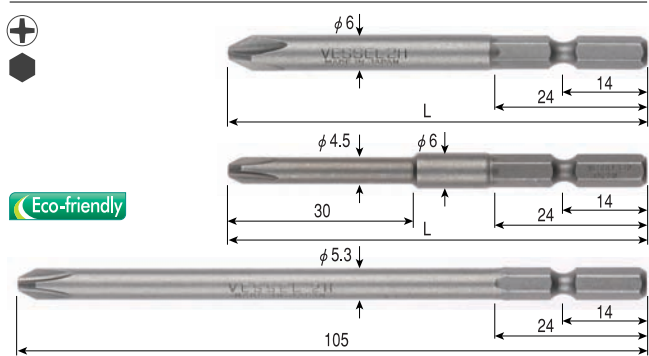
ONE POINT TORX®



The basic shape is a 6-pointed star formed with ear-lobular shaped curves. Compared to recessed hexagon heads, drive efficiency is higher as torque is smoothly and assuredly transmitted to the screw while "CAM-OUT" is eliminated.

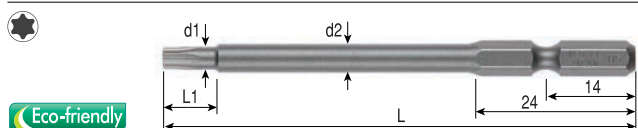
TORX is a registered trademark of Acument TM Intellectual Properties, LLC (USA). VESSEL has a manufacturing license in Japan and selling same to the world.

No. B34 Bit



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 1 × 70	X.H	10	100
—	X.H	10	100
—	H	10	100
⊕ 1 × 4 × 70	H	10	100
⊕ 1 × 5.3 × 105	H	10	100
—	X.H	10	100
—	X	10	100
⊕ 2 × 70	X.H	10	100
—	X.H	10	100
—	H	10	100
—	H	10	100
⊕ 2 × 4.5 × 70	H	10	100
⊕ 2 × 5.3 × 105	H	10	100
—	H	10	100
A/F 2 × 70	H	10	100
—	H	10	100
—	H	10	100
—	H	10	100
—	H	10	100
—	H	10	100

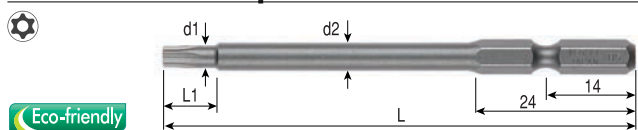
No. N TORX Bit



Size Tip×Overall Length (mm)	mm	d1 (mm)	L1 (mm)	d2 (mm)	Inner Ctn.
T5 × 75	1.37	1.67	6.5	4.0	10
—	1.37	1.67	6.5	4.0	10
T6 × 75	1.65	1.95	6.5	4.0	10
—	1.65	1.95	6.5	4.0	10
T8 × 75	2.3	2.60	7.0	4.5	10
—	2.3	2.60	7.0	4.5	10
T10 × 75	2.72	3.02	7.5	4.5	10
—	2.72	3.02	7.5	4.5	10
T15 × 75	3.26	3.56	7.5	4.5	10
—	3.26	3.56	7.5	4.5	10
T20 × 75	3.84	4.14	7.5	5.0	10
—	3.84	4.14	7.5	5.0	10
T25 × 75	4.4	4.70	8.0	5.0	10
—	4.4	4.70	8.0	5.0	10
T27 × 75	4.96	5.26	8.0	5.5	10
—	4.96	5.26	8.0	5.5	10

▲For the date of delivery, consult Vessel.

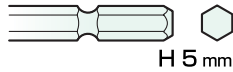
No. N TORX Bit (Tamper-Proof)



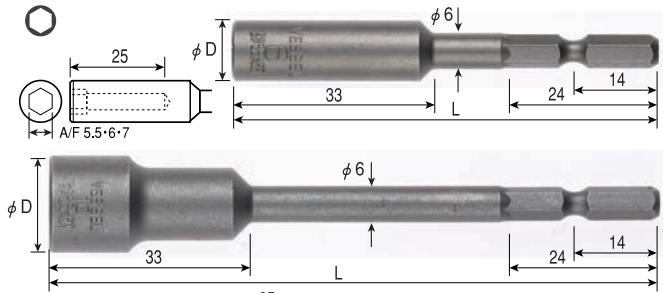
Size Tip×Overall Length (mm)	mm	d1 (mm)	L1 (mm)	d2 (mm)	Inner Ctn.
T10H × 75	2.72	3.02	7.5	4.5	10
—	2.72	3.02	7.5	4.5	10
T15H × 75	3.26	3.56	7.5	4.5	10
—	3.26	3.56	7.5	4.5	10
T20H × 75	3.84	4.14	7.5	5.0	10
—	3.84	4.14	7.5	5.0	10
T25H × 75	4.4	4.70	8.0	5.0	10
—	4.4	4.70	8.0	5.0	10

Precision Bits

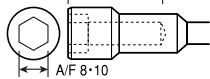
No. B44 Socket Bit



H 5 mm



Eco-friendly



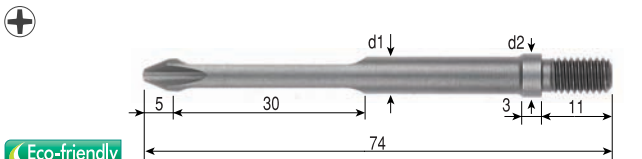
Size	D φ (mm)	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm)			
A/F 5.5×70	9	10	250
100	9	10	250
6×70	10	10	200
100	10	10	200
7×70	11	10	200
100	11	10	150
8×70	13	10	200
100	13	10	150
10×100	16	10	100



M5/M6

VESEL receives orders for bits for screw fastening robot from many robot manufacturers. In addition to the below bits, bits can be custom-made. Contact Vessel for more information.

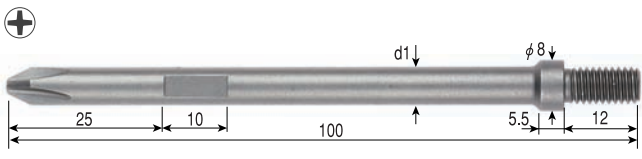
No. D61 Bits for screw fastening robots (Semi-standardized items)



Eco-friendly

Size	d1 (mm)	d2 (mm)
Tip×Overall Length (mm)		
⊕ 2×74—M5 P0.8	5.0	6.0
⊕ 2×74—M6 P1.0	6.0	7.0

No. D62 Bits for screw fastening robots (Semi-standardized items)



Eco-friendly

Size	d1 (mm)	d2 (mm)
Tip×Overall Length (mm)		
⊕ 2×100—M6 P1.0	6.0	—

Order-Made Bits

If you cannot find an appropriate bit among our standard line-up, VESSEL can also produce specially designed bits for your application.



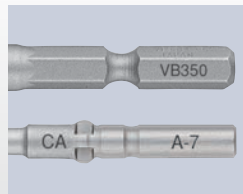
Bits for automated assembly lines

High-precision processing is required for bits to be installed in automatic assembly machines, which operate in micro-level accuracy. VESSEL has technology and know-how for such precision bits as one of the biggest bit manufacturers in the world.



Innovative material and surface treatment

We choose most suitable materials and surface treatment methods for each different application, for example, high-endurance bits made of corrosion-resistant stainless steel and high-speed steel, etc.



Laser marking

Necessary information can be directly laser-marked on bits, which brings further efficiency to your inventory management.

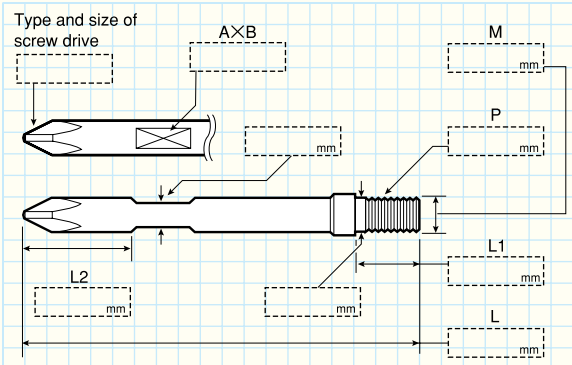


Order-made bit database

All the previous orders are recorded and organized by computer system.

How to request for customized bits for automated machinery

Type of screw drive



Hardness

Sample screw Available/ Not available

Tolerance

Official drawing Available/ Not available

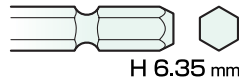
To be specified/ To be based on VESSEL standards

Surface treatment

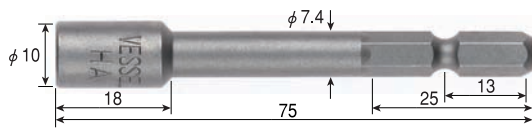
Black oxide finish/ Shot blasting

Quantity

No. HA Bit Holder



H 6.35 mm



● Keeps bit with C-pin.

Size	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm)		
A/F 6.3×75	10	100

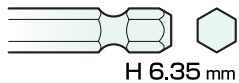
No. HAM Bit Holder



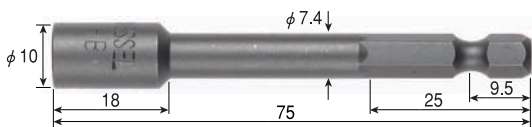
● Bit holder with magnet.

Size	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm)		
A/F 6.3×75	10	100

No. HB Bit Holder



H 6.35 mm



● Keeps bit with C-pin.

Size	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm)		
A/F 6.3×75	10	100

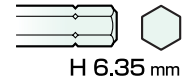
No. HBM Bit Holder



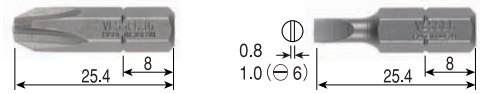
● Bit holder with magnet.

Size	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm)		
A/F 6.3×75	10	100

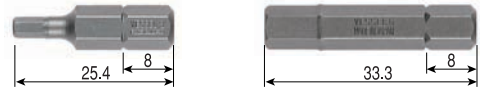
No. B33 Short Bit (For Bit Holder)



H 6.35 mm



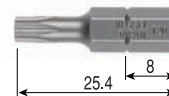
Eco-friendly



Size	Heat treatment classification	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm)			
⊕ 1×25.4	H	10	100
⊕ 2×25.4	H	10	100
⊕ 3×25.4	G	10	100
⊖ 4×25.4	G	10	100
⊖ 6×25.4	G	10	100
A/F 2×25.4	H	10	100
2.5×25.4	H	10	100
3×25.4	H	10	100
4×33.3	H	10	100
5×33.3	H	10	100
6×33.3	H	10	100

Model No.	Set content	Inner Ctn.	Outer Ctn.
B33 Driver Bit Set	1 for each ⊕1, ⊕2, ⊕3, ⊖4, ⊖6×25.4 with holder	1	10
B33 Hex. Bit Set	1 for each A/F 2, 2.5, 3×25.4 A/F 4, 5, 6×33.3 with holder	1	10

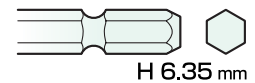
No. A4 TORX Bit



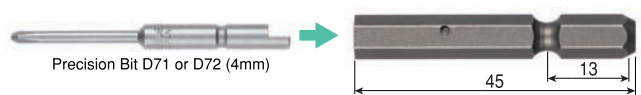
Eco-friendly

Size	mm	Overall Length (mm)	Inner Ctn.
T6	1.65	25.4	10
T8	2.3	25.4	10
T10	2.72	25.4	10
T15	3.26	25.4	10
T20	3.84	25.4	10
T25	4.4	25.4	10
T27	4.96	25.4	10
T30	5.49	25.4	10
T40	6.6	25.4	10

No. HD-71×45 Bit Holder



H 6.35 mm



Overall Length (mm)	Inner Ctn.	Outer Ctn.
45	10	100

※ Bit is not included.

ONE POINT

Precision bits can be installed to electric screwdrivers.



No. HD-71×45
Bit Holder

Type A Industrial Bits

We have achieved a compilation of 55 years of industrial bit manufacturing, and produce high-precision, highly stable bits with low deviation and axial runout. Our unique metal alloy and heat treatment technology has produced truly specialized bits for assembly.




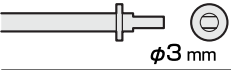
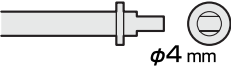
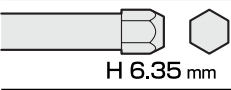
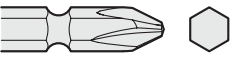
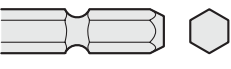


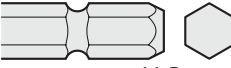
High precision bit tips...

We pursue an aggressive licensing agreement policy to ensure the manufacture of bit tips with specifications that allow for the most appropriate fit to screw heads.

Furthermore, technological exchange with screw punch manufacturers has enabled us to provide bits that support the continual changes in screw recess.



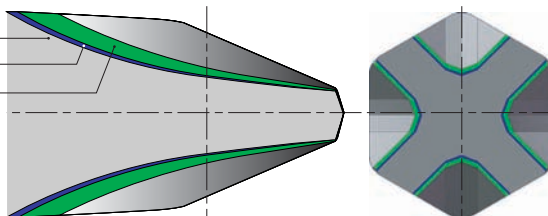
The Type A entry is designed to VESSEL's special insertion dimensions, developed when we first started manufacturing air drivers. The majority of electric drivers on the market can use our ubiquitous Type A bits.

Shape	Model No.	Page	Applicable models			
			 Air Screwdriver	 Electric Screwdriver  Torque Control Screwdriver		
 φ3 mm	A7	070	VESSEL GT-H2			
 φ4 mm	A9		VESSEL GT-H3P			
 H 6.35 mm	A11		Uryu US-3·US-3W			
 H 6.35 mm	A14	070	VESSEL GT-H4R·H4PR·H4.5·H5R·H5P·PH4·PH5·S4.5DR·PLR·PLZ· PLP·PLH II·S6MLR·S6HS·S6.5D·P4.5D·P4.5DR·P5LS· P6EXD·P6LS III·P6HS·P6.5D·S4TR·S4TS·S4TG·S5TR·S5TB· S5TG·S5TS·S4.5XD·P4.5XD·PLXD·P6OXD·P6LXD·S6LXD	Toshiba CIBL-144VA		
	A14P		Hitachi Koki WH-6DC·8DYA·9DM·9DM2·10DL·10DCL·10VA2· 12DAF2·12DMR2·12DM·12DMR·12DM2·12VB· 12DK·12VA·12VC·12VD·14DML·14DMRL·14DMR· 14DSL·14DM·14VA·14DH·18DL DB-3DL·12DM2·10DL WP-12DM			
	M-A14		Hitachi Koki WH-10AC·12AB·12H·12H2·WP-10A			
	A14H		NPK (Except A20 and MA20 sockets) SD-4, ND-5LPY·6LFAY·6HSY·6HPAY·6SDY·6PDY NPW-450A-DYO·550A-DYO·450EA-DYO·450A-TDY·550A- TDY	W-6M·6MV·5VC·5VD·6VC·6VH·6VJ·8V·W4SA· W5VE·6MV2		
	A14B		Fuji Kuki FPW-330SD-10·440D-20·550D-20·660D-30·770D-20· 400SD-10·440SD-10·550SD-10·660SD-10	Makita TD-124D·130D·131D·061D·020D·090D 6990D, 6960D, 6919ND, 6955, 6940D, 6963SPK, 6700N, TS130D, DFO10D, DFO30D, TLO60D, TP131D 6814SP, 6815SP, 6801N		
	AL14					
	AT14					
	AT14P					
	ST14					
	AS14					
	AZ14					
	A14R		072	FPT-440D-10·10L, 550D-10·10L, 660D-10·10L, 440SD-10, 550SD-10, 660SD-10	Panasonic EZ-7200·6507·7201·6506·6502·6605·6582· 6404·6120·6121·6780·7301·7270·7202·7203· 7205·7410·7411·7540·7542·7543·7544	
	 H 6.35 mm		A16	072	Makita AD604·AD605H	Ryobi ID-121·140 IDS-135 CID-800 BDX-1 BID-140·142·1410·1226·1227·1240·1255·1220· 1230·1440·122·123·124·143
			M-A16	073	Yokota YL-70B·80B, YX-180SB·280SB·380SB·500SB·80B· 180B·280B·380B·500B YD-400SCB·4.5PBZK·65PBZ·65PTBZ·600PBZ·650PBZ· 40PBZ·4.5LBZ·6WBZK·600SBZ·670B·670B-F·670B-R· 670B-RF, Y-40SB·41B·46B	
D81						
V		074	Ryobi AID-10	Tonichi AUR5N		
A20			Yutani D-6SSAEL·5WPEA·6SPAL·6SPALE·600SHEA·6WSHPEA· 602A·6WSHSA DH-4.5PEA·4.5SA·6SELA	●The models in blue letters are the screwdrivers for light steel substrates and boards. It is recommended to use a 45mm long bit.		
A20-5						
MA20S		067	MAX AT-ID6P1·HF-ID7P1			
MA20						
SB						
HA						
HAM	090		Panasonic EZ-6220·6225·6420·7410·7411			
HD-71×45			Ryobi D-500			
 H 6.35 mm	D830082 D831045 D831075 D832075 D832100 D832150					
 H 8 mm	A15	075	VESSEL GT-P8D·P10S II	Hitachi Koki WH-14DA		
	 H 8 mm	A19 V5	075	Panasonic EZ-6680		

We also provide "Power" (P) and "High Power" (H) bit tips for heavy industrial use.

-  A14 STANDARD BIT
-  A14P POWER BIT
-  A14H TAPPING BIT

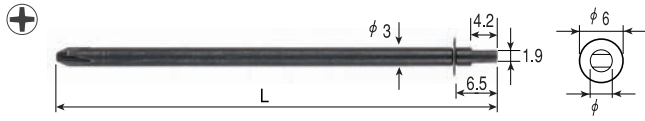
The degree of angle used in the rising cuts of the flutes between the four wings has been slightly changed for the Power (P) and High Power (H) bits. This increases the surface area of the cross section of the bit tips for additional strength and durability.



Model No.	Cross-sectional area of the tip	Application	Fitness to the screw drive
STANDARD A14	Small	All-round	○
POWER BIT A14P	Medium	For high-impact tools	○
TAPPING BIT A14H	Large	For screws with big cross recess (like pan head screws, etc.)	△

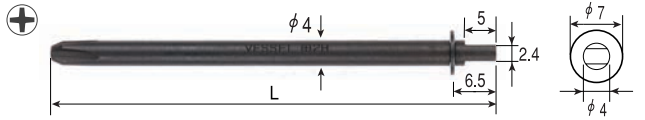
Type A Industrial Bits

No. A7



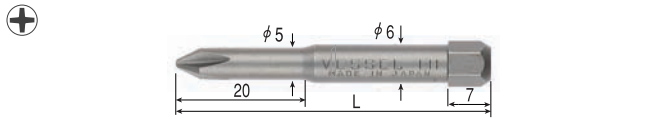
Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	
⊕ 0× 36	70	H	10	100
	100	H	10	100
	100	H	10	100
⊕ 1× 36	70	H	10	100
	100	H	10	100
	100	H	10	100

No. A9



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	
⊕ 1× 40	70	H	10	100
	100	H	10	100
	100	H	10	100
⊕ 2× 40	70	H	10	100
	100	H	10	100

No. A11



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 1× 75	H	10	100

No. A14 Double End Bit



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	
⊕ 1× 45	65	H	10	100
	110	H.G	10	100
	110	H.G	10	100
⊕ 2× 45	65	X.H.G	10	100
	110	X.H.G.E	10	100
	150	X.H.G.E	10	100
	200	X.H.G.E	10	150
	300	G	10	100
⊕ 3× 45	65	X.H.E	10	100
	110	H.E	10	100
	110	H.E	10	100

No. M-A14 Double End Bit



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	
⊕ 1× 45	65	H	10	100
	110	H	10	100
	110	H	10	100
⊕ 2× 45	65	H.G	10	100
	110	H.G	10	100
	150	H	10	100

No. A14H TAPPING BIT/ A14B



Model No.	Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
A14H	⊕ 2× 65	H	10	100
A14H		H	10	100
A14H		H	10	100
A14B	⊕ 2× 50	S	10	100
A14B		S	10	100
A14B		S	10	100
A14B		S	10	100

No. A14P Double End Bit



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	
⊕ 2× 65	110	H	10	100
	110	H	10	100
	150	H	10	100

No. AL14 ALFA BIT



H 6.35 mm



Eco-friendly
MG Magnetized

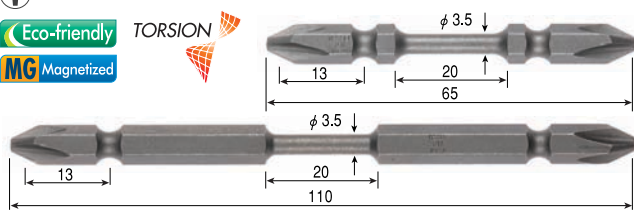


Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 2× 65	H	10	100
110	H	10	100

No. AT14 TORSION BIT



Eco-friendly TORSION
MG Magnetized

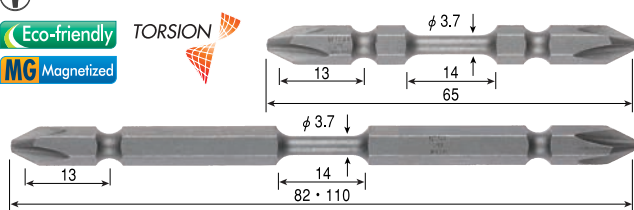


Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 2×3.5×65	H	10	100
110	H	10	100

No. AT14P TORSION BIT



Eco-friendly TORSION
MG Magnetized

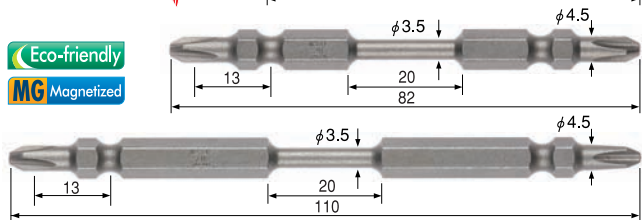


Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 2×3.7×65	X	10	100
82	X	10	100
110	X	10	100

No. ST14 SLENDER TORSION BIT



Eco-friendly TORSION
MG Magnetized



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 1×3.5×65	H	10	100
⊕ 2×3.5×65	H	10	100
82	H	10	100
110	H	10	100

No. AS14 SLENDER BIT



H 6.35 mm



Eco-friendly
MG Magnetized



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 1×65	H	10	100
⊕ 2×45	H	10	100
65	H	10	100
110	H	10	100

No. AZ14 GIZA BIT



Eco-friendly



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 2× 65	H	10	100
110	H	10	100
150	H	10	100
200	H	10	100

No. A14 SUPADRIV BIT



Eco-friendly

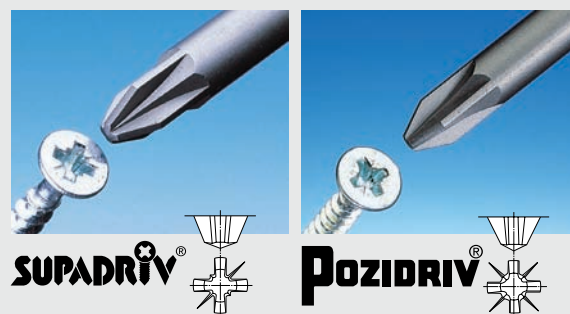


Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
SDV1× 65	H	10	100
SDV2× 45	H	10	100
65	H	10	100
110	H	10	100
SDV3× 65	H	10	100

SUPADRIV systems are patented and registered as the trademark of EIS corp. in U.K. We at VESSEL CO., INC. has a manufacturing license in Japan and selling same to the world.

ONE POINT

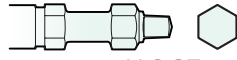
The thickness of the four blades is equal and their drive surfaces are almost perpendicular, resulting in efficient torque transmission. They grip the screw head better than Philips tip and prevent harmful CAM-OUT.



SUPADRIV and POZIDRIV systems are patented and registered as the trademark of EIS corp. in U.K. We at VESSEL CO., INC. has a manufacturing license in Japan and selling same to the world.

Type A Industrial Bits

No. A14 Square Double End Bit



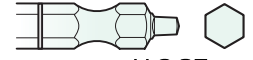
H 6.35 mm



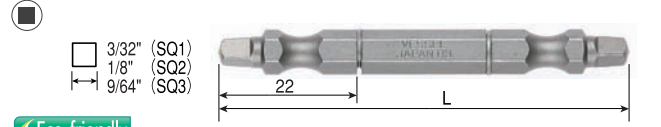
- 3/32" (SQ1)
- 1/8" (SQ2)
- 9/64" (SQ3)

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
SQ No.1× 65	H	10	100
SQ No.2× 65	H	10	100
110	H	10	100
150	H	10	100
SQ No.3× 65	H	10	100
110	H	10	100
150	H	10	100

No. A14R Square Double End Bit



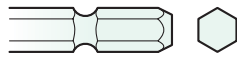
H 6.35 mm



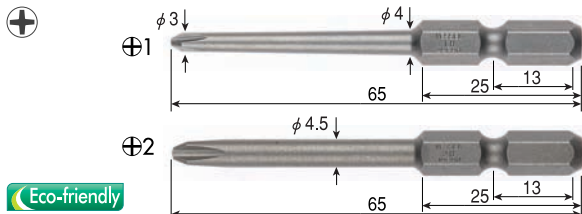
- 3/32" (SQ1)
- 1/8" (SQ2)
- 9/64" (SQ3)

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
SQ No.1× 65	H	10	100
SQ No.2× 65	H	10	100
110	H	10	100
150	H	10	100
SQ No.3× 65	H	10	100
110	H	10	100
150	H	10	100

No. A16 Bit



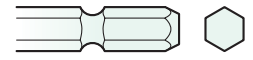
H 6.35 mm



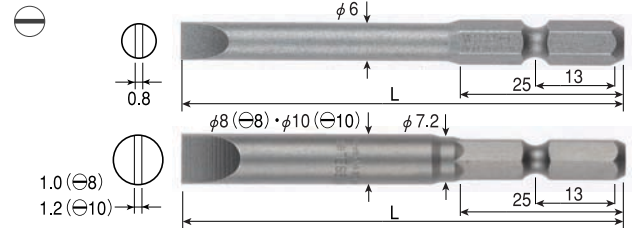
- ⊕1 × 65
- ⊕2 × 4.5 × 65

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕1×3 ×65	H	10	100
⊕2×4.5×65	H	10	100

No. A16 Bit



H 6.35 mm



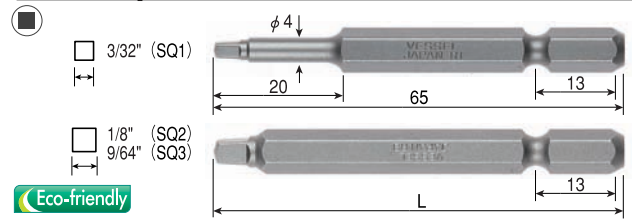
Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊖6 ×45	G	10	100
70	G	10	100
⊖8 ×45	G	10	300
70	G	10	250
⊖10×52	G	10	200
70	G	10	200

No. A16 Hex Bit



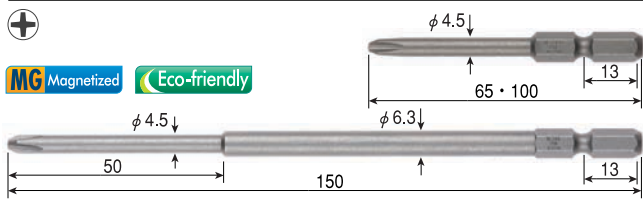
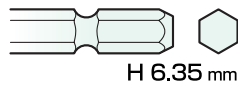
Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
A/F 2×65	H	10	100
110	H	10	100
2.5×65	H	10	100
110	H	10	100
3×65	H	10	100
110	H	10	100
4×65	H	10	100
110	H	10	100
5×65	G	10	100
110	G	10	100
6×65	G	10	100
110	G	10	100

No. A16 Square Bit



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
SQ No.1×4× 65	H	10	100
SQ No.2× 65	H	10	100
110	H	10	100
150	H	10	100
SQ No.3× 65	H	10	100
110	H	10	100
150	H	10	100

No. M-A16 Bit



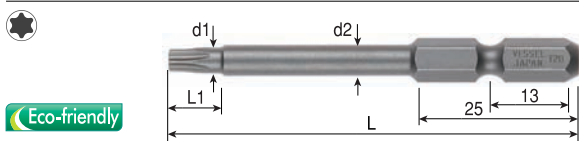
Size	Heat treatment classification	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm)			
⊕ 2×4.5×65	H	10	100
100	H	10	100
150	H	10	100

No. D81 Bit



Size	Heat treatment classification	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm)			
⊕ 2×82	X.H.E	10	100

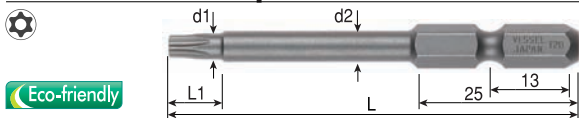
No. V TORX Bit



Size	mm	d1 (mm)	L1 (mm)	d2 (mm)	Inner Ctn.
Tip×Overall Length (mm)					
T6 × 65▲	1.65	1.95	6.5	4.0	10
110▲	1.65	1.95	6.5	4.0	10
T8 × 65▲	2.3	2.60	7.0	4.5	10
110▲	2.3	2.60	7.0	4.5	10
T10× 65	2.72	3.02	7.5	4.5	10
110	2.72	3.02	7.5	4.5	10
T15× 65	3.26	3.56	7.5	4.5	10
110	3.26	3.56	7.5	4.5	10
T20× 65	3.84	4.14	7.5	5.0	10
110	3.84	4.14	7.5	5.0	10
T25× 65	4.4	4.70	8.0	5.0	10
110	4.4	4.70	8.0	5.0	10
T27× 65	4.96	5.26	8.0	5.5	10
110	4.96	5.26	8.0	5.5	10
T30× 65	5.49	5.79	8.5	6.0	10
110	5.49	5.79	8.5	6.0	10
T40× 65	6.6	H6.35	—	H6.35	10
110	6.6	H6.35	—	H6.35	10

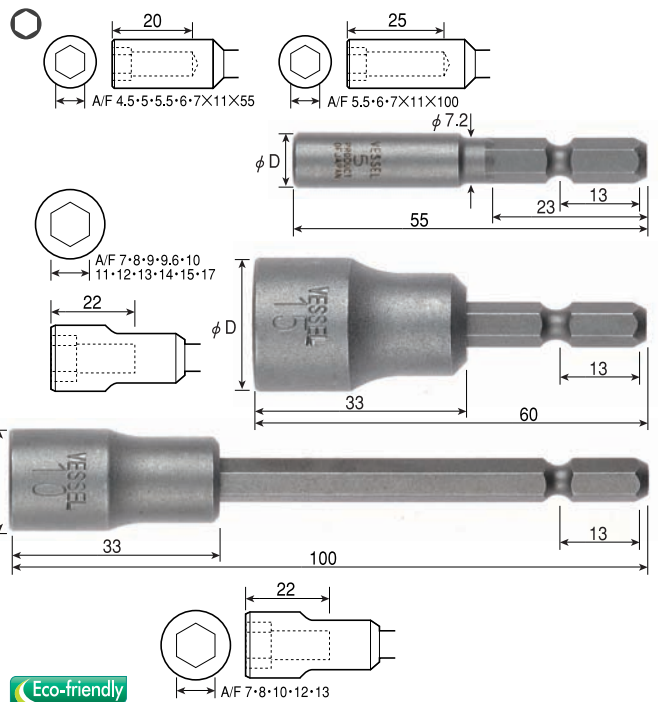
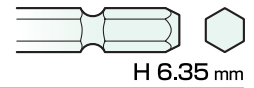
▲For the date of delivery, consult Vessel.

No. V TORX Bit (Tamper-Proof)



Size	mm	d1 (mm)	L1 (mm)	d2 (mm)	Inner Ctn.
Tip×Overall Length (mm)					
T8H × 65	2.3	2.60	7.0	4.5	10
110	2.3	2.60	7.0	4.5	10
T10H× 65	2.72	3.02	7.5	4.5	10
110	2.72	3.02	7.5	4.5	10
T15H× 65	3.26	3.56	7.5	4.5	10
110	3.26	3.56	7.5	4.5	10
T20H× 65	3.84	4.14	7.5	5.0	10
110	3.84	4.14	7.5	5.0	10
T25H× 65	4.4	4.70	8.0	5.0	10
110	4.4	4.70	8.0	5.0	10
T27H× 65	4.96	5.26	8.0	5.5	10
110	4.96	5.26	8.0	5.5	10
T30H× 65	5.49	5.79	8.5	6.0	10
110	5.49	5.79	8.5	6.0	10
T40H× 65	6.6	H6.35	—	H6.35	10
110	6.6	H6.35	—	H6.35	10

No. A20 Socket Bit



☆☆Adopts a patented axial press-fit shank technique

Size	D φ (mm)	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm)			
A/F 4.5× 55	7.5	10	250
5 × 55	8.5	10	250
5.5× 55	9	10	250
100	9	10	250
6 × 55	10	10	200
100	10	10	200
7×11× 55	11	10	200
100	11	10	150
7 × 60 ☆	13.5	10	200
100 ☆	13.5	10	150
8 × 60 ☆	13.5	10	200
100 ☆	13.5	10	150
9 × 60 ☆	15	10	150
9.6× 60 ☆	15	10	150
10× 60 ☆	16	10	150
100 ☆	16	10	100
11× 60 ☆	17	10	150
12× 60 ☆	18	10	100
100 ☆	18	10	100
13× 60 ☆	19	10	100
100 ☆	19	10	50
14× 60 ☆	20	10	100
15× 60 ☆	21	10	50
17× 60 ☆	23	10	50

ONE POINT

Prevents shank break

The shank and socket have been heat-treated to the best hardness and press-fit together. The socket part is strong against wear and shank against twisting, resulting in higher durability.

Normal type

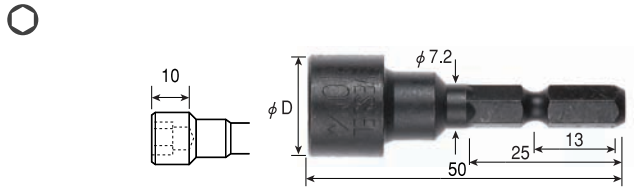
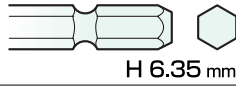
Press-fit type

75 N·m

Comparison in breaking torque
107 N·m

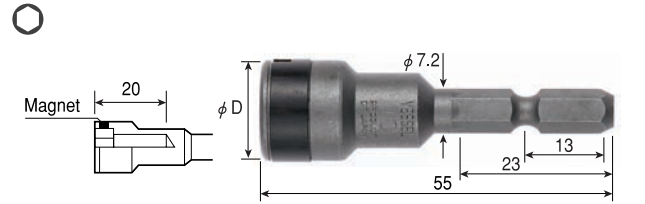
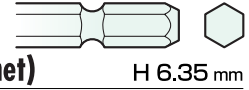
Type A Industrial Bits

No. A20-5 Socket Bit



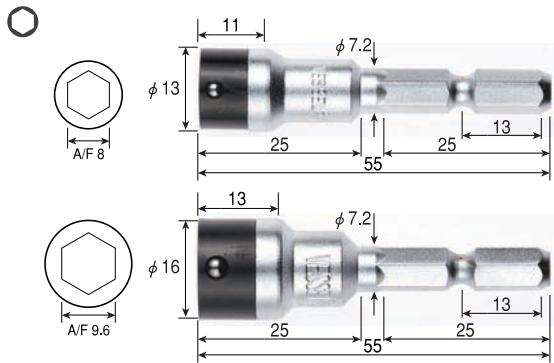
Size	D ϕ (mm)	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm) A/F 10×50	16	10	150

No. MA20S Socket Bit (Side Magnet)



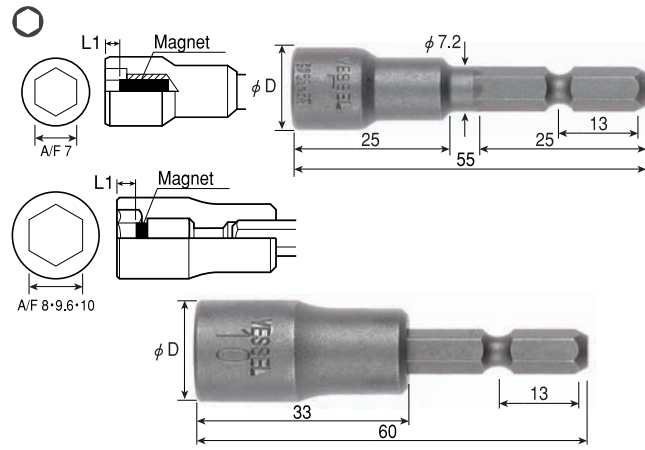
Size	D ϕ (mm)	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm) A/F 5/16"×55 (For screw diameter of 8 mm)	13	10	100
A/F 3/8"×55 (For screw diameter of 9.6 mm)	16	10	100
A/F 10mm×55	16	10	100

No. SB Nut Setter (Ball Lock)



Size	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm) A/F 5/16"×55 (For screw diameter of 5 mm)	5	50
A/F 3/8"×55 (For screw diameter of 6 mm)	5	50

No. MA20 Socket Bit (Press-Fit Magnet)



☆...Adopts a patented axial press-fit shank technique

Size	D ϕ (mm)	L1 (mm)	Inner Ctn.	Outer Ctn.
A/F 7 ×55 (For screw diameter of 4mm)	13	2.5	10	200
A/F 8 ×60 (For screw diameter of 5mm) ☆	13.5	3.17	10	150
A/F 9.6×60 (For screw diameter of 6mm) ☆	15	3.96	10	150
A/F 10 ×60 (For screw diameter of 6mm) ☆	16	3.96	10	150

ONE POINT

Magnet holds the bolts/nuts

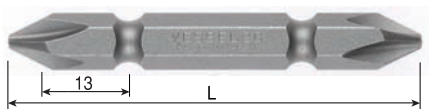
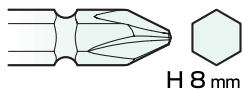
Magnet settled on the inside of the socket securely holds bolts/nuts, which improves workability and prevents screws from missing.



Order-Made Sockets

If you cannot find an appropriate socket bit among our standard line-up, VESSEL can also produce specially designed models for your application.

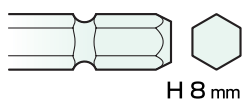
No. A15 Double End Bit



Eco-friendly

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 2× 65	G	10	250
110	G	10	150
⊕ 3× 65	E	10	250
110	E	10	150

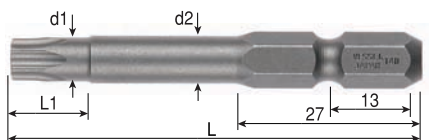
No. A19 Hex Bit



Eco-friendly

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
A/F 5×65	G	10	250
6×65	G	10	250
130	G	10	100
8×65	G	10	250
130	G	10	100
10×65	S	10	200
130	S	10	100

No. V5 TORX Bit

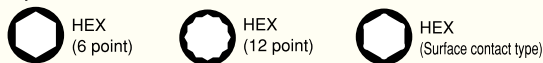


Eco-friendly

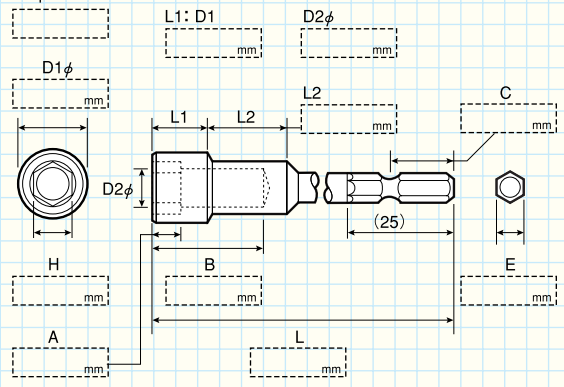
Size Tip×Overall Length (mm)	d1 (mm)	L1 (mm)	d2 (mm)	Inner Ctn.
T25× 65	4.4	4.70	10.0	6.0
110	4.4	4.70	10.0	6.0
T27× 65	4.96	5.26	11.5	6.5
110	4.96	5.26	11.5	6.5
T30× 65	5.49	5.79	11.5	6.5
110	5.49	5.79	11.5	6.5
T40× 65	6.6	6.90	11.5	7.5
110	6.6	6.90	11.5	7.5
T45× 65	7.77	8.0	—	8.0
110	7.77	8.0	—	8.0
T50× 65	8.79	H8	—	H8
110	8.79	H8	—	H8

How to request for customized socket bits

Shape of the socket drive



Shape of the socket drive



Hardness	Sample screw Available/ Not available
Tolerance	Official drawing Available/ Not available
Surface treatment Black oxide finish/ Shot blasting	Quantity

Type B Industrial Bits





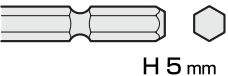

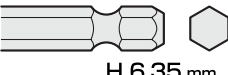
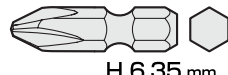
We have achieved a compilation of 55 years of industrial bit manufacturing, and produce high-precision, highly stable bits with low deviation and axial runout. Our unique metal alloy and heat treatment technology has produced truly specialized bits for assembly.

High precision bit tips...

We pursue an aggressive licensing agreement policy to ensure the manufacture of bit tips with specifications that allow for the most appropriate fit to screw heads. Furthermore, technological exchange with screw punch manufacturers has enabled us to provide bits that support the continual changes in screw recess.



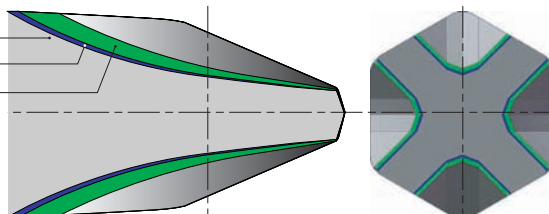
The Type B insertion entry is designed to work with the dimensions most commonly used by air tool manufacturers. There are some models that will not accept insertion of the double-head types, depending on the shape of the insertion chuck. Please make your selections while referring to the specifications table.

Shape	Model No.	Page	Applicable models	
			 Air Screwdriver	 Electric Screwdriver  Torque Control Screwdriver
 H 5 mm	B36	078	VESSEL GT-S5TFR·S5TFB·S5TFG·S4TFR·S4TFS·S4TFG Uryu US-40·3.5A·4·4PB, US-LT20A series·LT30A series·LT30AL series·LT40A series·LT40AL series Yokota YD-3·4·400SC	
 H 5 mm	B34	078	VESSEL GT-S4TFR·S4TFS·S4TFG·S5TFR·S5TFB·5TFG Uryu US-40·3.5A·4·4PB (Except B44 Socket Bit Overall Length: 70 mm) US-LT20A series·LT30A series·LT30AL series·LT40A series·LT40AL series Yokota YD-3·4·400SC	Hios VZ-1812·1812PS·1820·1820PS·3007·3007PS·3012·3012PS·3012·3012PS Delvo DLV-3121·3131·3141·3151·7120·7130·7140·7220·7231·7241·8120·8130·8140·8220·8231·8241·7122·7132·7142·7222·7232·7242·8122·8132·8142·8222·8232·8242·30LL·30SL·30HL Panasonic FE-A310S·A310MH·A310L·A111L·A111MH·A111M·A710AXN·A710MHN Kanon 9K-130P·140P·130PF·131L·131LF·131P·131PF 3K-120L·180L·180LF·120P·180P·180PF 5KD-200·300
	N			
	B44	080		
 H 6.35 mm	B43	078	Uryu UX·U·UW·ALPHA·UBP·UL·ULT·UEP Screwdrivers. US-350W·45W·450WB·5W·50W·6W·350PW·450PW·5PW·6PW·652PW·50·5PB·5 US-LT60P·LT31PB·LT41PB·LT51PB·LT20B·LT50B·LT30BL·LT40BL·LT30B·LT40B·LT10B	●Following Tool models are applicable only for the single end bits. Hios CL-9000, VZ-4504·4504PS·4506·4506PS Delvo DLV-8150·7251·8251·8152·7252·8252 Kanon N6·N12·N20·N30·N50·N100STDK N6·N12·N20·N30·N50·N100LTDK N10·N20·N50DPSK N10·N20·N50DPSK II 9K-150P
	B43P			
	B43H	079	NPK ND-5LPX·6LFAX·6HPAX·6HSX NPW-450A-DXO·550A-DXO·450EA-DXO·450A-TDX·550A-TDX	
	B43B			
	BT43	078	Fujii Kuki FPW-330SD-1·440D-2·550D-2·660D-3·770D-2·400SD-1·440SD-1·550SD-1·660SD-1 FET-44D-2·55D-2·66D-2	
	BT43P	079	FW-44SD-1·66SD-1·44SAD-1·66SAD-1·44PD-1·66PD-1·44PAD-1·66PAD-1·5SXD-7·5SXD-8·6SXD-6·5PXD-6·6PLD-1·6PXD-6·6PHD-1·6PMD-1·FD-4·5·4P·5P·4PH-1 FPT-440D-1·440D-1L·550D-1·550D-1L·660D-1·660D-1L·440SD-1·550SD-1·660SD-1	
J	079	Yutani DH-6PL·6PLE·4.5PEB·4.5SB·6SELB D-600SHEB·6SPBLE·6WSHPPEB·8WPE·5WPEB·6SSBEL·602B·6WSHSEB·6SPBL		
 H 6.35 mm	B45	081	Yokota TKa70A·80A·YLa70A·80A·Y-41A·46A YX-180SA·280SA·380SA·500SA·180A·280A·280CA·380A·500A·80A·500CA YEX-150A·501A·150SA·300SA·500SA·100SA·120A·120SA YD-400SCA·500SCA·5PHCA·3A·4A·5A·6WAZK·65PZ·65PTZ·650PZ·40PZ·4.5PZK·600PZ·4.5SZ·4.5LAZ·600SZ·670A·670A-F·670A-R·670A-RF Y-40SA	
	MB45	081		
	MB45S			
	MB45D			
	HB	067		
HBM	Atlas-Copco LUM series·LUF series·TWIST series·ELI series·ETB series·COMBI series·EP series			
 H 6.35 mm	B39	080	VESSEL GT- H4RC·H5RC·S6CD·PLRC Uryu US-3.5ACB·4CA·5CA·LT30B-11C·17C, LT40B-08C·05C·15C Yutani D-6WHCL Yokota YD-6AL YX-280CA·500CA	

We also provide "Power" (P) and "High Power" (H) bit tips for heavy industrial use.

-  B14 STANDARD BIT
-  B14P POWER BIT
-  B14H TAPPING BIT

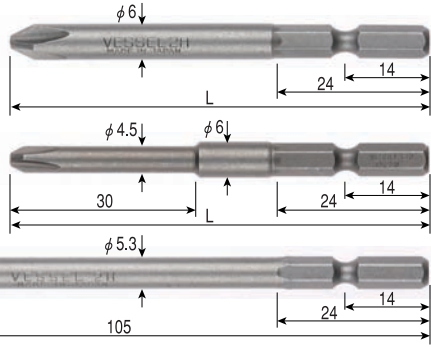
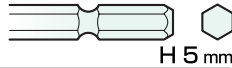
The degree of angle used in the rising cuts of the flutes between the four wings has been slightly changed for the Power (P) and High Power (H) bits. This increases the surface area of the cross section of the bit tips for additional strength and durability.



Model No.	Cross-sectional area of the tip	Application	Fitness to the screw drive
STANDARD BIT B43	Small	All-round	⊙
POWER BIT B43P	Medium	For high-impact tools	○
TAPPING BIT B43H	Large	For screws with big cross recess (like pan head screws, etc.)	△

Type B Industrial Bits

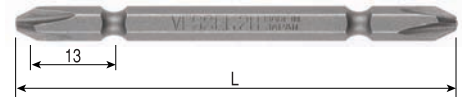
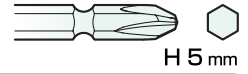
No. B34 Bit



Eco-friendly

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 1 × 70	X.H	10	100
100	X.H	10	100
150	H	10	100
⊕ 1 × 4 × 70	H	10	100
⊕ 1 × 5.3 × 105	H	10	100
120	X.H	10	100
125	X	10	100
⊕ 2 × 70	X.H	10	100
100	X.H	10	100
150	H	10	100
200	H	10	100
⊕ 2 × 4.5 × 70	H	10	100
⊕ 2 × 5.3 × 105	H	10	100
120	H	10	100
A/F 2 × 70	H	10	100
2.5 × 70	H	10	100
3 × 70	H	10	100
4 × 70	H	10	100
5 × 70	H	10	100

No. B36 Double End Bit



Eco-friendly

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 1 × 70	X.H	10	100
100	X.H	10	100
⊕ 2 × 70	H	10	100
100	H	10	100
150	X.H	10	100
200	H	10	100

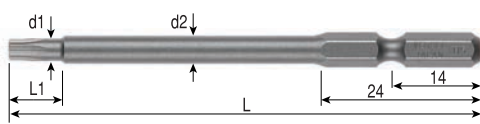
No. B43 Double End Bit



Eco-friendly

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 1 × 75	H	10	100
⊕ 2 × 50	X.H.E	10	100
75	X.H.G.E	10	100
100	X.H.G.E	10	100
150	X.H.G	10	100
200	G	10	100
⊕ 3 × 75	H.E	10	100
100	H.E	10	100

No. N TORX Bit

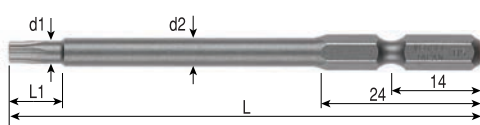


Eco-friendly

Size Tip×Overall Length (mm)	mm	d1 (mm)	L1 (mm)	d2 (mm)	Inner Ctn.
T5 × 75	1.37	1.67	6.5	4.0	10
100	1.37	1.67	6.5	4.0	10
T6 × 75	1.65	1.95	6.5	4.0	10
100	1.65	1.95	6.5	4.0	10
T8 × 75	2.3	2.60	7.0	4.5	10
100	2.3	2.60	7.0	4.5	10
T10 × 75	2.72	3.02	7.5	4.5	10
100	2.72	3.02	7.5	4.5	10
T15 × 75	3.26	3.56	7.5	4.5	10
100	3.26	3.56	7.5	4.5	10
T20 × 75	3.84	4.14	7.5	5.0	10
100	3.84	4.14	7.5	5.0	10
T25 × 75	4.4	4.70	8.0	5.0	10
100	4.4	4.70	8.0	5.0	10
T27 × 75	4.96	5.26	8.0	5.5	10
100	4.96	5.26	8.0	5.5	10

▲For the date of delivery, consult Vessel.

No. N TORX Bit (Tamper-Proof)



Eco-friendly

Size Tip×Overall Length (mm)	mm	d1 (mm)	L1 (mm)	d2 (mm)	Inner Ctn.
T10H × 75	2.72	3.02	7.5	4.5	10
100	2.72	3.02	7.5	4.5	10
T15H × 75	3.26	3.56	7.5	4.5	10
100	3.26	3.56	7.5	4.5	10
T20H × 75	3.84	4.14	7.5	5.0	10
100	3.84	4.14	7.5	5.0	10
T25H × 75	4.4	4.70	8.0	5.0	10
100	4.4	4.70	8.0	5.0	10

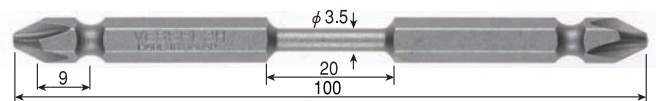
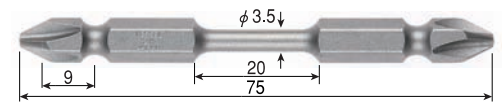
No. B43P Double End Bit



Eco-friendly

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 2 × 75	H	10	100
100	H	10	100

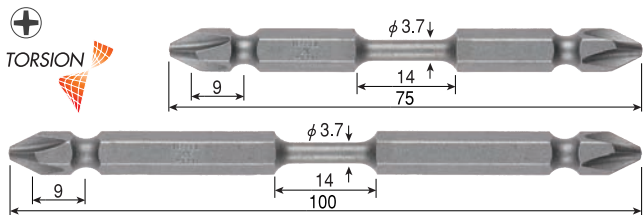
No. BT43 TORSION Bit



Eco-friendly

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 2 × 3.5 × 75	H	10	100
100	H	10	100

No. BT43P TORSION Bit



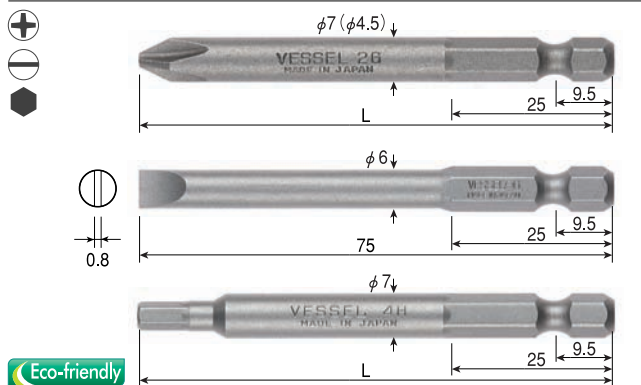
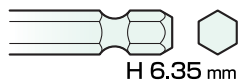
Size	Heat treatment classification	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm)			
⊕ 2×3.7× 75	X	10	100
100	X	10	100

No. B43H TAPPING Bit B43B



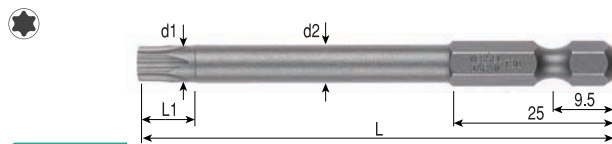
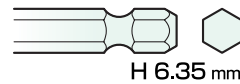
Model No.	Size	Heat treatment classification	Inner Ctn.	Outer Ctn.
	Tip×Overall Length (mm)			
B43H	⊕ 2× 75	H	10	100
	100	H	10	100
	150	H	10	100
B43B	⊕ 2× 50	S	10	100
	75	S	10	100
	100	S	10	100
	150	S	10	100

No. B35 Bit



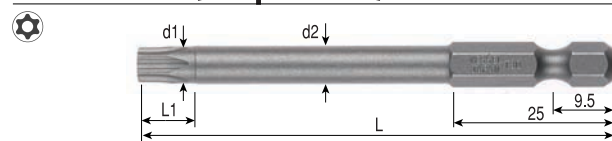
Size	Heat treatment classification	Inner Ctn.	Outer Ctn.
Tip×Overall Length (mm)			
⊕ 1 × 50	X.H	10	100
75	X.H	10	100
⊕ 1×4.5×100	H	10	100
⊕ 2 × 50	X.G	10	100
75	X.H.G.E	10	100
100	H.G.E	10	100
150	H.G.E	10	100
⊕ 2×4.5×100	H	10	100
⊕ 3 × 75	H.E	10	100
100	H.E	10	100
150	G	10	100
⊖ 6 × 75	E	10	100
A/F 2 × 75	H	10	100
100	H	10	100
2.5× 75	H	10	100
100	H	10	100
3 × 75	H	10	100
100	H	10	100
4 × 75	H	10	100
100	H	10	100
5 × 75	G	10	100
100	G	10	100
6 × 75	G	10	100
100	G	10	100

No. J TORX Bit



Size	d1 (mm)	L1 (mm)	d2 (mm)	Inner Ctn.
Tip×Overall Length (mm)				
T6 × 75	1.65	6.5	4.0	10
100	1.65	6.5	4.0	10
T8 × 75	2.3	7.0	4.5	10
100	2.3	7.0	4.5	10
T10× 75	2.72	7.5	4.5	10
100	2.72	7.5	4.5	10
T15× 75	3.26	7.5	4.5	10
100	3.26	7.5	4.5	10
T20× 75	3.84	7.5	5.0	10
100	3.84	7.5	5.0	10
T25× 75	4.4	8.0	5.0	10
100	4.4	8.0	5.0	10
T27× 75	4.96	8.0	5.5	10
100	4.96	8.0	5.5	10
T30× 75	5.49	8.5	6.0	10
100	5.49	8.5	6.0	10
T40× 75	6.6	—	7.0	10
100	6.6	—	7.0	10
T45× 75	7.77	—	8.0	10
100	7.77	—	8.0	10

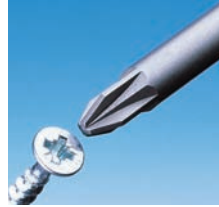
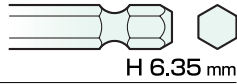
No. J TORX Bit (Tamper-Proof)



Size	d1 (mm)	L1 (mm)	d2 (mm)	Inner Ctn.
Tip×Overall Length (mm)				
T6H × 75	1.65	6.5	4.0	10
100	1.65	6.5	4.0	10
T8H × 75	2.3	7.0	4.5	10
100	2.3	7.0	4.5	10
T10H× 75	2.72	7.5	4.5	10
100	2.72	7.5	4.5	10
T15H× 75	3.26	7.5	4.5	10
100	3.26	7.5	4.5	10
T20H× 75	3.84	7.5	5.0	10
100	3.84	7.5	5.0	10
T25H× 75	4.4	8.0	5.0	10
100	4.4	8.0	5.0	10
T27H× 75	4.96	8.0	5.5	10
100	4.96	8.0	5.5	10
T30H× 75	5.49	8.5	6.0	10
100	5.49	8.5	6.0	10
T40H× 75	6.6	—	7.0	10
100	6.6	—	7.0	10

Type B Industrial Bits

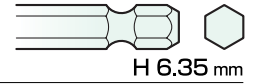
No. B35 SUPADRIV Bit



Eco-friendly

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
SDV1× 75	H	10	100
SDV2× 75	H	10	100
100	H	10	100
SDV3× 75	H	10	100

No. B39 3-Flute Fastening Bit



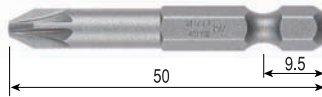
3-Flute Fastening Bit

For fastening screws used with aircraft, special vehicles, etc.

Eco-friendly

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
TW1×40	—	10	100
TW2×40	—	10	100
TW3×40	—	10	100
TW4×40	—	10	100
TW5×40	—	10	100

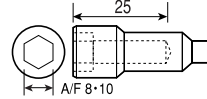
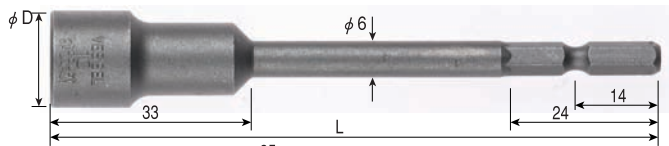
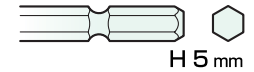
No. B35 POZIDRIV Bit



Eco-friendly

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
PZ1×50	H	10	100
PZ2×50	H	10	100
PZ3×50	H	10	100

No. B44 Socket Bit



Eco-friendly

Size Tip×Overall Length (mm)	D φ (mm)	Inner Ctn.	Outer Ctn.
A/F 5.5× 70	9	10	250
100	9	10	250
6× 70	10	10	200
100	10	10	200
7× 70	11	10	200
100	11	10	150
8× 70	13	10	200
100	13	10	150
10×100	16	10	100

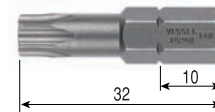
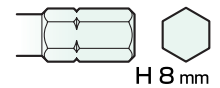
No. B39 Bit



Eco-friendly

Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 1×23	H	10	100
⊕ 2×23	H	10	100
40	H	10	100
100	H	10	100

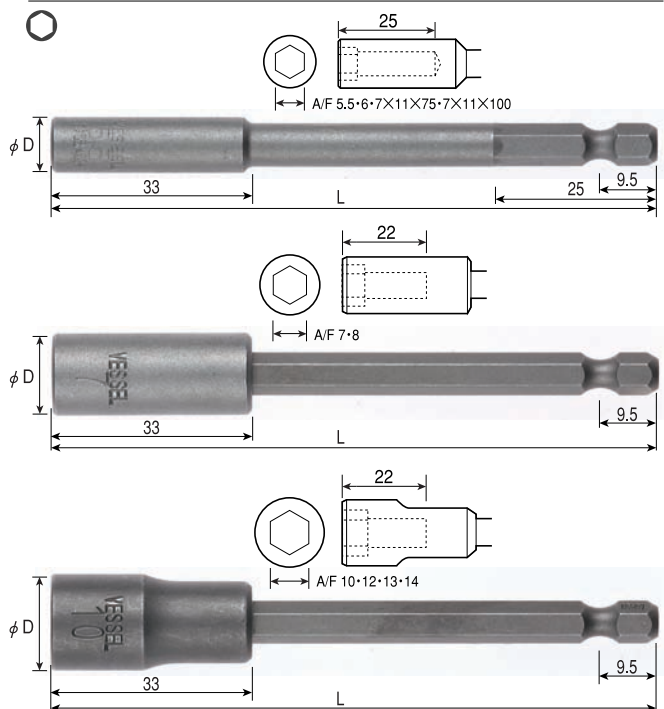
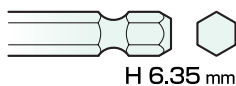
No. A5 TORX Bit



Eco-friendly

Size	mm	Overall Length (mm)	Inner Ctn.
T30	5.49	32	10
T40	6.6	32	10
T45	7.77	32	10
T50	8.79	32	10

No. B45 Socket Bit

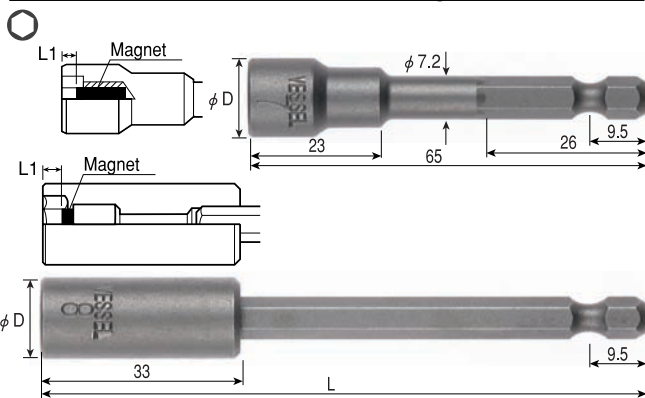


Eco-friendly

☆...Adopts a patented axial press-fit shank technique

Size Tip×Overall Length (mm)	D φ (mm)	Inner Ctn.	Outer Ctn.
A/F 5.5× 75	9	10	250
100	9	10	250
6×100	10	10	200
7×11× 75	11	10	200
100	11	10	150
7× 75 ☆	13.5	10	200
100 ☆	13.5	10	150
8× 75 ☆	13.5	10	200
100 ☆	13.5	10	100
150 ☆	13.5	10	100
10× 75 ☆	16	10	150
100 ☆	16	10	100
150 ☆	16	10	100
12×100 ☆	18	10	100
13× 75 ☆	19	10	100
100 ☆	19	10	100
14×100 ☆	20	10	100

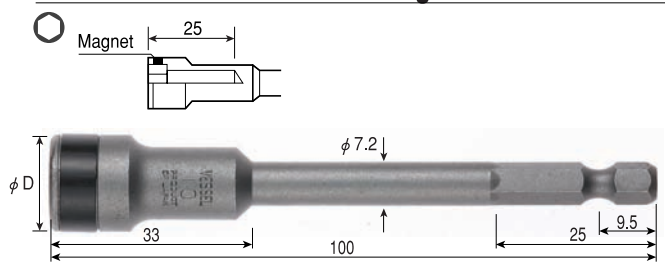
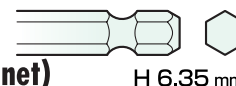
No. MB45 Socket Bit (Press-Fit Magnet)



☆...Adopts a patented axial press-fit shank technique

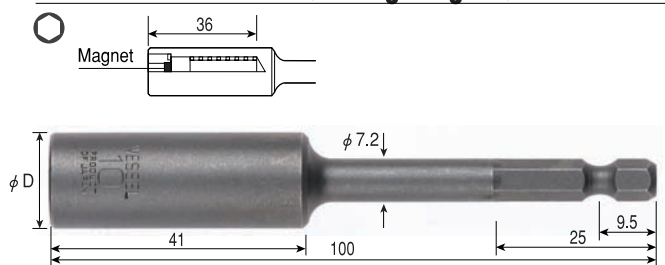
Size Tip×Overall Length (mm)	D φ (mm)	L1 (mm)	Inner Ctn.	Outer Ctn.
A/F 7× 65	13	2.5	10	200
A/F 8× 65 ☆	13.5	3.17	10	150
75 ☆	13.5	3.17	10	100
100 ☆	13.5	3.17	10	100
A/F9.6× 65 ☆	15	3.96	10	150
A/F 10× 75 ☆	16	3.96	10	100
100 ☆	16	3.96	10	100

No. MB45S Socket Bit (Side Magnet)



Size Tip×Overall Length (mm)	D φ (mm)	Inner Ctn.	Outer Ctn.
A/F 8×100	13	10	100
A/F 10×100	16	10	100

No. MB45D Socket Bit (Sliding Magnet)



Size Tip×Overall Length (mm)	D φ (mm)	Inner Ctn.	Outer Ctn.
A/F 8×100	13	10	100
A/F 10×100	16	10	100

ONE POINT

Prevents shank break

The shank and socket have been heat-treated to the best hardness and press-fit together. The socket part is strong against wear and shank against twisting, resulting in higher durability.

Normal type

75 N·m

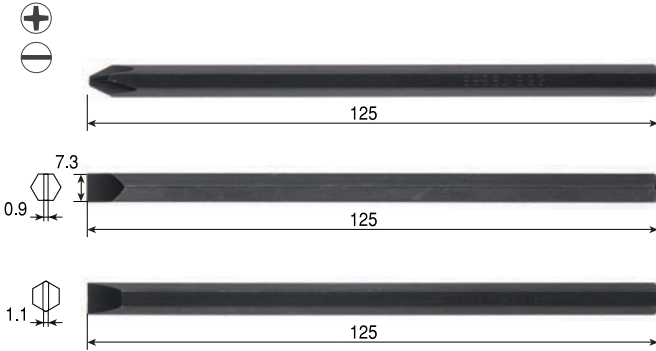
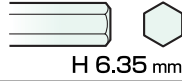
Press-fit type

Comparison in breaking torque

107 N·m

Impact Driver Bits/Automatic Spiral Ratchet Driver Bits

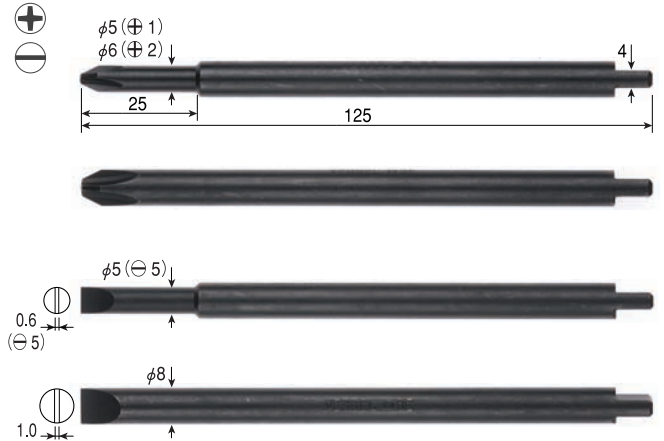
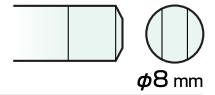
No. C50 Impact Driver Bit



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.
⊕ 1×125	G	10
⊕ 2×125	G	10
⊕ 3×125	G	10
⊖ 5×125	G	10
⊖ 6×125	G	10
⊖ 7×125	G	10

Applicable models	
VESSEL No.2300 No.2600A	No.2300
	No.2600A

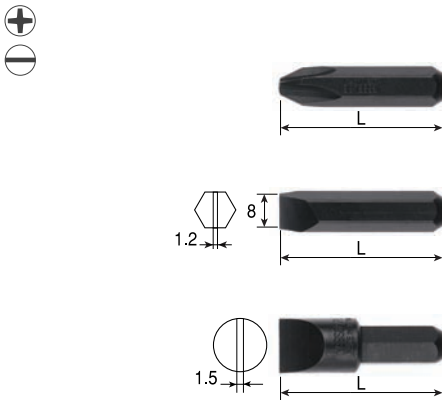
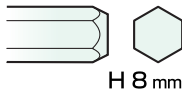
No. C55 Impact Driver Bit



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 1×125	G	10	100
⊕ 2×125	G	10	100
⊕ 3×125	E	10	100
⊖ 5×125	E	10	100
⊖ 8×125	E	10	100

Applicable models	
VESSEL No.2600	No.2600

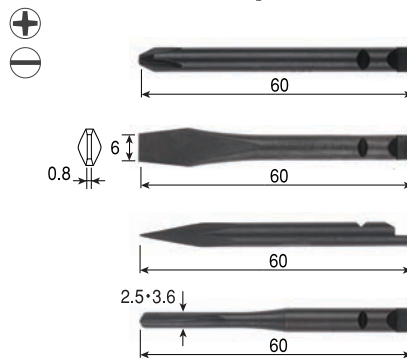
No. C51 Impact Driver Bit



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 2×36	G	10	250
80	G	10	250
⊕ 3×36	E	10	250
80	E	10	250
⊕ 4×36	E	10	250
⊖ 8×36	E	10	250
80	E	10	250
⊖ 10×36	E	10	250
80	E	10	200
⊖ 12×36	E	10	200

Applicable models	
VESSEL No.2400 No.2500	No.2400
	No.2500

No. C61 Automatic Spiral Ratchet Driver Bit φ5.5 mm

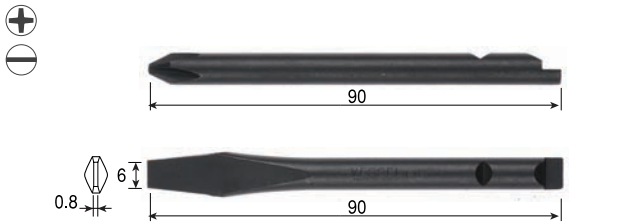


Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
⊕ 1×60	H	10	100
⊕ 2×60	H	10	100
⊖ 6×60	E	10	100
Awl×60	G	10	100
2.5mm×60	wood drill	10	100
3.6mm×60	wood drill	10	100

Applicable models	
VESSEL No.1500-240-300mm No.151230-No.153230	No.1500-300mm
Genkotsu #135-#155	
Tool Mate 1300-1400	No.153230
Rubycon No.124-No.135	

Automatic Spiral Ratchet Driver Bits/Short Bits

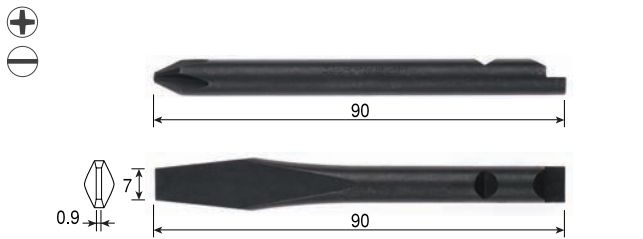
No. C62 Automatic Spiral Ratchet Driver Bit $\phi 7$ mm



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
$\oplus 1 \times 90$	H	10	300
$\oplus 2 \times 90$	H	10	300
$\oplus 3 \times 90$	G	10	300
$\ominus 6 \times 90$	E	10	250

Applicable models	
VESSEL No.1500-440mm Genkotsu #130 Rubycon 144	No.1500-440mm

No. C63 Automatic Spiral Ratchet Driver Bit $\phi 8$ mm

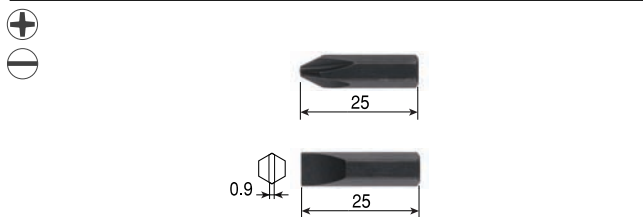


Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.
$\oplus 2 \times 90$	H	10	250
$\oplus 3 \times 90$	G	10	250
$\ominus 7 \times 90$	E	10	200

Applicable models	
VESSEL No.1500-620mm Genkotsu #131	No.1500-620mm

Model No.	of items	Set content	Inner Ctn.	Outer Ctn.
C61-4 bit set	1 for each	C61 $\oplus 1$ $\oplus 2$ $\ominus 6$ Awl×60	1	100
C62-3 bit set	1 for each	C62 $\oplus 1$ $\oplus 2$ $\ominus 6 \times 90$	1	50
C63-3 bit set	1 for each	C63 $\oplus 2$ $\oplus 3$ $\ominus 7 \times 90$	1	50

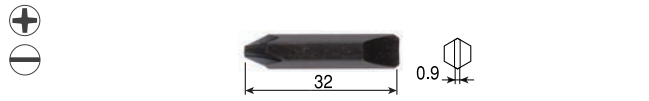
No. C91 Short Bit (For hand drivers) H 6.35 mm



Size Tip×Overall Length (mm)	Inner Ctn.	Outer Ctn.
$\oplus 2 \times 25$	10	100
$\ominus 7 \times 25$	10	100

Applicable models	
VESSEL No. 870-MG4 · 6800-MG4 Shinki No.1800 · 1600 · 1920 · 1930 6.35mm ● Available on all drivers with holder	No.870-MG4

No. C93 Short Bit (For hand drivers)

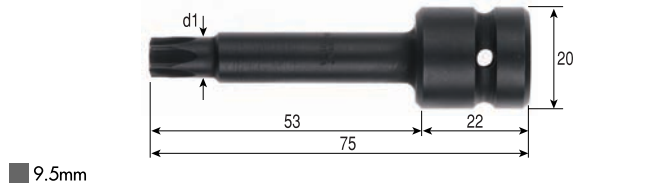


Size Tip×Overall Length (mm)	Inner Ctn.	Outer Ctn.
$\ominus 6 / \oplus 2 \times 32$	10	100

Applicable models	
VESSEL No. 860 Shinki No.192 · 193 · 193FB · FB-19 · 777 · 6200	No.860

Attachment for Impact Driver

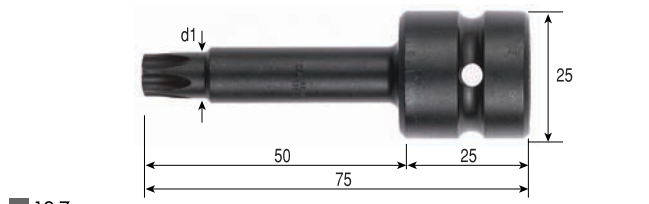
No. S6 TORX Socket



Size Tip×Overall Length (mm)	mm	d1 (mm)
T30×75 ▲	5.49	5.79
T40×75 ▲	6.6	6.9
T45×75 ▲	7.77	8.0
T50×75 ▲	8.79	10.0

▲For the date of delivery, consult Vessel.

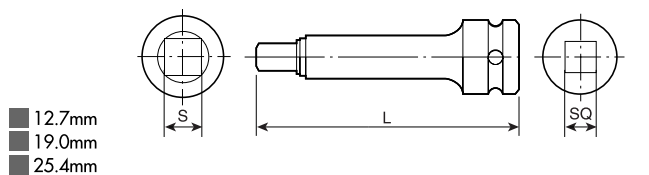
No. S8 TORX Socket



Size Tip×Overall Length (mm)	mm	d1 (mm)
T40×75 ▲	6.6	6.9
T45×75 ▲	7.77	8.0
T50×75 ▲	8.79	9.09

▲For the date of delivery, consult Vessel.

Extension Bar



Model No.	SQ (mm)	S (mm)	Overall Length (mm)
A24-2	12.7	12.7	100
A25-2	19.0	19.0	150
A26-2	25.4	25.4	160
	25.4	25.4	200

Construction Bits

Problem solving bits

These are evolutionary-type bits developed as "problem solvers."

With the advent of torsion bits, excessive load work and high impact, high torque operations can now be carried out easily and comfortably. Torsion bits for mega-torsion work.

The quest for true ease-of-use has resulted in a true torsion bit...

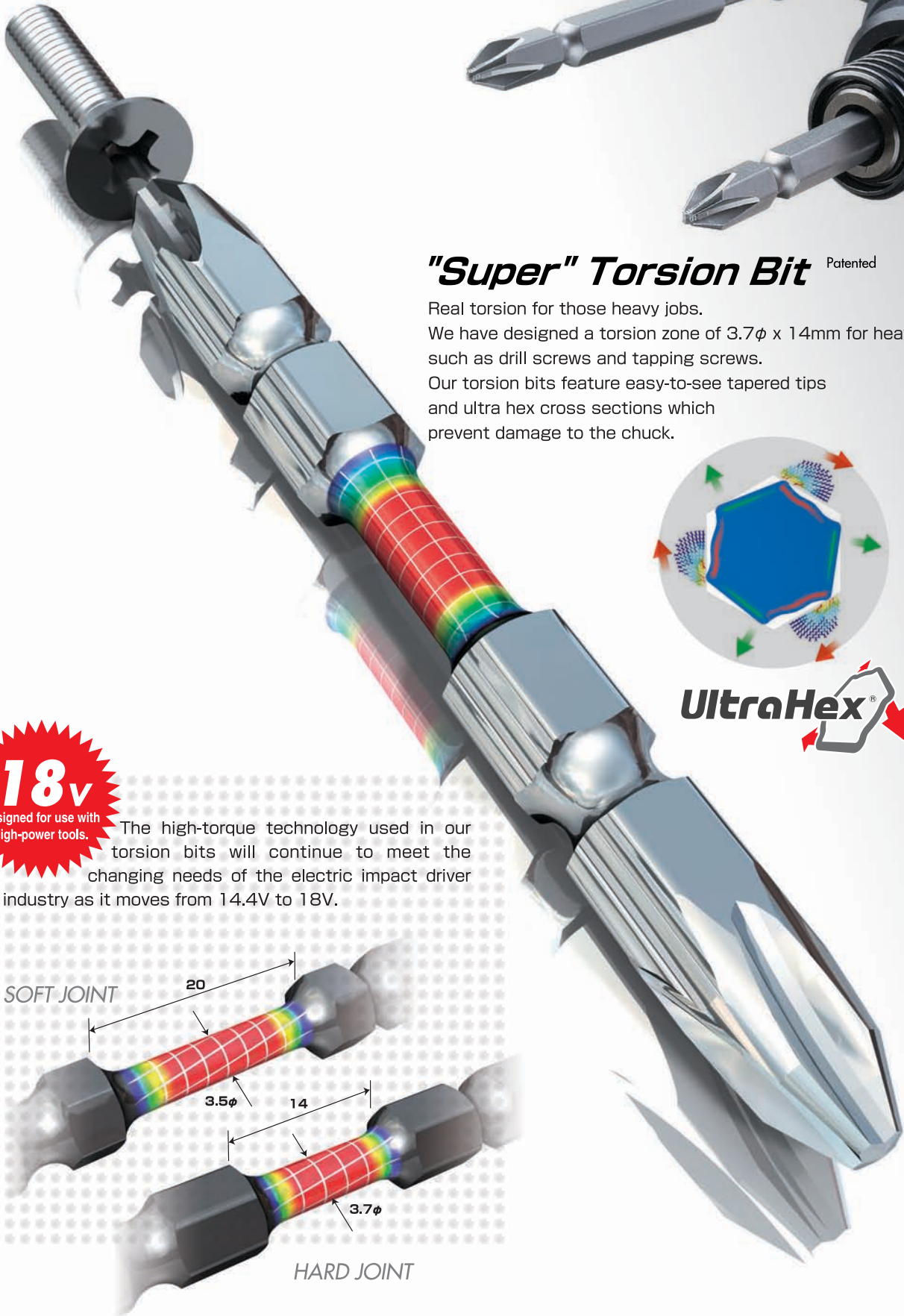
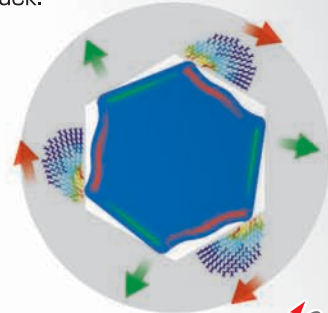


"Super" Torsion Bit Patented

Real torsion for those heavy jobs.

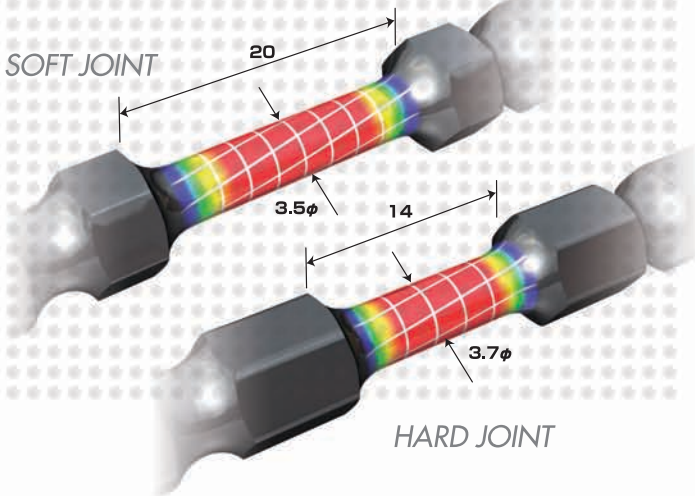
We have designed a torsion zone of $3.7\phi \times 14\text{mm}$ for heavy work such as drill screws and tapping screws.



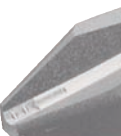

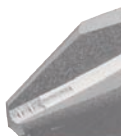

















Our torsion bits feature easy-to-see tapered tips and ultra hex cross sections which prevent damage to the chuck.



18v
Designed for use with high-power tools.

The high-torque technology used in our torsion bits will continue to meet the changing needs of the electric impact driver industry as it moves from 14.4V to 18V.



Model	Tip	Shape	Feature	Application			
				Wood working	Interior finish work	Equipment installation	Sheet-metal work
GIZA Patented			The jagged tip of our GIZA BIT prevents cam-out of cross-head screws. Just as the bit starts to cam-out, the jagged edges bite into the internal wall of the recess of the screw.	★★★	★★★★	★★★	★★★
JAWS Patent Pending			Our JAWS BITS are perfect for working wood screws. From start to finish, these bits bite into the screw holes, allowing for increased work efficiency without fallen screws.	★★★★	★★★	★★★	★★★
MEGA TORSION Patent Pending			Our MEGA TORSION BITS are perfect for working with drill screws. From start to finish, these bits bite into the screw holes allowing for increased work efficiency without fallen screws.	★★★	★★★	★★★	★★★★
EXTRA HARD			Our EXTRA HARD BITS have been hardened to a maximum hardness of 63 HRC. They are ideal for relatively hard screws such as stainless steel screws and board screws.	★★★	★★★	★★★	★★★
SLENDER Patented			The tips of our SLENDER BIT series have been worked to a fine point, making it easy to see the heads of the screws. These bits are designed for soft joint work such as wood screws and resin tapping screws.	★★★	★★★	★★★	★★★
SLENDER TORSION Patented			The highly resilient torsion effect of our SLENDER TORSION BITS greatly improves their durability. They are ideal for long coarse thread screws and other wood screw work.	★★★★	★★★	★★★	★★★
TAPPING			Our TAPPING BITS are designed with thick wings and short flutes for extra strength, making them ideal for heavy-duty work such as driving sash screws of greater than 4mm in diameter.	★★★	★★★	★★★	★★★★
CUSHION Patented			The cushion rings of our CUSHION BIT series suppress the vibrations of the bit, achieving high precision screw tightening performance. The UltraHex shank does not damage the chuck.	★★★	★★★	★★★★	★★★
ALPHA			The bits of our ALPHA BIT series are designed to absorb impact shock in 2 stages by ball flute torsion and shank cushioning.	★★★	★★★	★★★	★★★
TORSION			The central torsion shank absorbs the various impact shocks incurred during screw tightening work, which prevents tip damage and improves torque precision. The torsion shank measures 3.5φ x 20mm for use soft joint work.	★★★★	★★★	★★★	★★★
"SUPER" TORSION Patented			Our "SUPER" TORSION BITS feature optimal shock adsorbing torsion and tips that have been finished to a taper for better tip visibility. The cross-section of the UltraHex shank utilizes the drive theory of the hexagonal wrench, which prevents damage the chuck.	★★★	★★★	★★★	★★★★

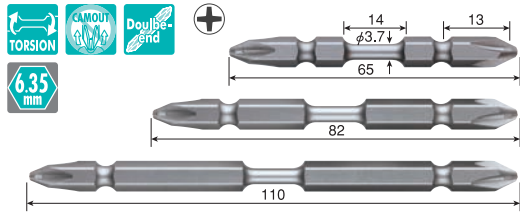
Construction Bits

Problem Solving Bit



MEGA TORSION BIT

Patent Pending



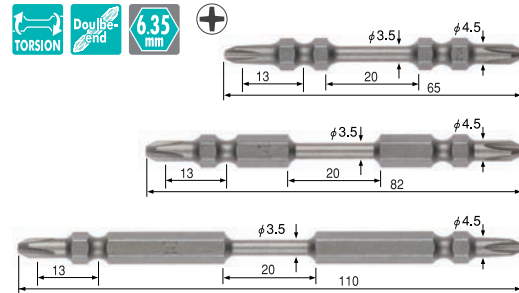
MG Magnetized Eco-friendly Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
MT142065	⊕ 2×3.7×65	X	160×35	357304
MT142082	⊕ 2×3.7×82	X	160×35	357311
MT142110	⊕ 2×3.7×110	X	160×35	357328



SLENDER TORSION BIT

Patented



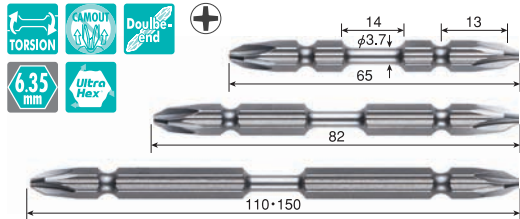
MG Magnetized Eco-friendly Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
ST141065	⊕ 1×3.5×65	H	160×35	357847
ST142065	⊕ 2×3.5×65	H	160×35	357762
ST142082	⊕ 2×3.5×82	H	160×35	357854
ST142110	⊕ 2×3.5×110	H	160×35	357779



"SUPER" TORSION BIT

Patented



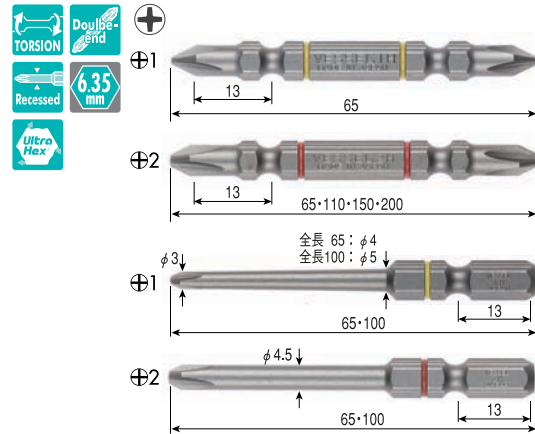
MG Magnetized Eco-friendly Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
RT142065	⊕ 2×3.7×65	X	160×35	348142
RT142082	⊕ 2×3.7×82	X	160×35	348159
RT142110	⊕ 2×3.7×110	X	160×35	348166
RT142150	⊕ 2×3.7×150	X	210×35	348173



CUSHION BIT

Patented

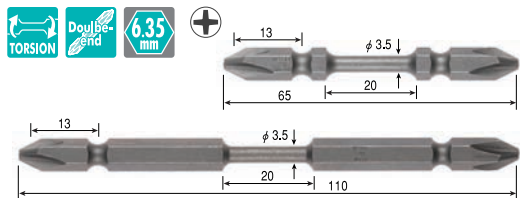


MG Magnetized Eco-friendly Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
AC141065	⊕ 1×65	H	160×35	357519
AC142065	⊕ 2×65	H	160×35	357526
AC142110	⊕ 2×110	H	160×35	357533
AC142150	⊕ 2×150	H	210×35	357540
AC142200	⊕ 2×200	H	260×35	357557
AC161065	⊕ 1×65	H	160×35	357564
AC161100	⊕ 1×100	H	160×35	357571
AC162065	⊕ 2×65	H	160×35	357588
AC162100	⊕ 2×100	H	160×35	357595



TORSION BIT



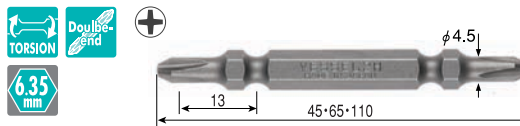
MG Magnetized Eco-friendly Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
AT142065	⊕ 2×3.5×65	H	160×35	347039
AT142110	⊕ 2×3.5×110	H	160×35	347046



SLENDER BIT

Patented



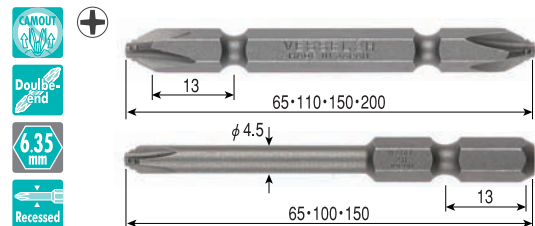
MG Magnetized Eco-friendly Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
AS141065	⊕ 1×65	H	160×35	354303
AS142045	⊕ 2×45	H	160×35	354297
AS142065	⊕ 2×65	H	160×35	353900
AS142110	⊕ 2×110	H	160×35	353917



GIZA BIT

Patented



MG Magnetized Eco-friendly Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
AZ142065	⊕ 2×65	H	160×35	353122
AZ142110	⊕ 2×110	H	160×35	353139
AZ142150	⊕ 2×150	H	210×35	353146
AZ142200	⊕ 2×200	H	260×35	353153
AZ162065	⊕ 2×4.5×65	H	160×35	353160
AZ162100	⊕ 2×4.5×100	H	160×35	353177
AZ162150	⊕ 2×4.5×150	H	210×35	353184





Economical double end bit



For limited area

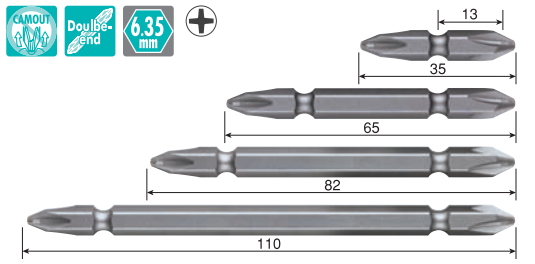


For impact drivers



Minimal damage to the chuck

JAWS BIT



Patent Pending

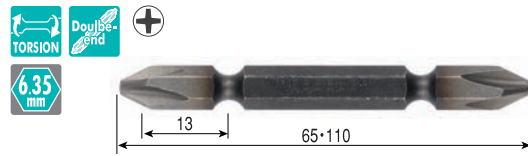


Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
JA142035	⊕ 2× 35	H	160×35	357380
JA142065	⊕ 2× 65	H	160×35	357397
JA142082	⊕ 2× 82	H	160×35	357403
JA142110	⊕ 2× 110	H	160×35	357410



ALFA BIT

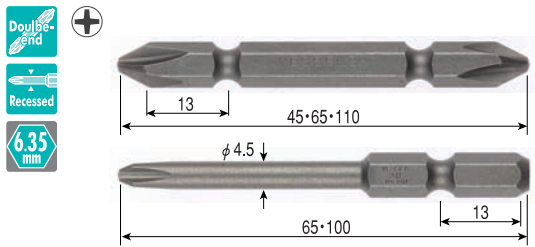


Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
AL142065	⊕ 2× 65	H	160×35	355485
AL142110	⊕ 2× 110	H	160×35	355492



EXTRA HARD BIT

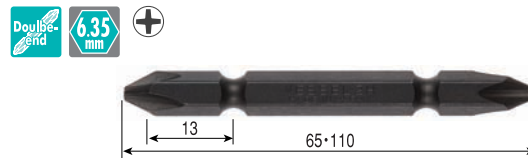


Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
AX142045	⊕ 2× 45	X	160×35	354808
AX142065	⊕ 2× 65	X	160×35	354815
AX142110	⊕ 2× 110	X	160×35	354822
AX162065	⊕ 2× 65	X	160×35	354839
AX162100	⊕ 2× 100	X	160×35	354846



TAPPING BIT



Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
A14H2065	⊕ 2× 65	160×35	354310
A14H2110	⊕ 2× 110	160×35	354327

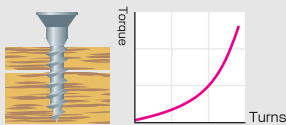


ONE POINT

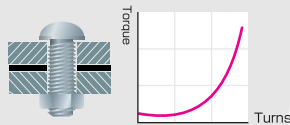
SOFT JOINT

Wood screw fastening

Flexible jointing (packing inserted) and resin tapping and fastening



- At first, resistance is low, but then it increases as the screw penetrates.
- Requires a comparatively long time to fasten.

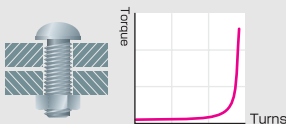


- Resistance increases with every turn of the screw. Resistance increases even after seating.
- Requires a comparatively little time to fasten.

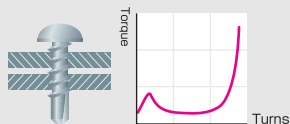
HARD JOINT

Rigid jointing and fastening of small screws

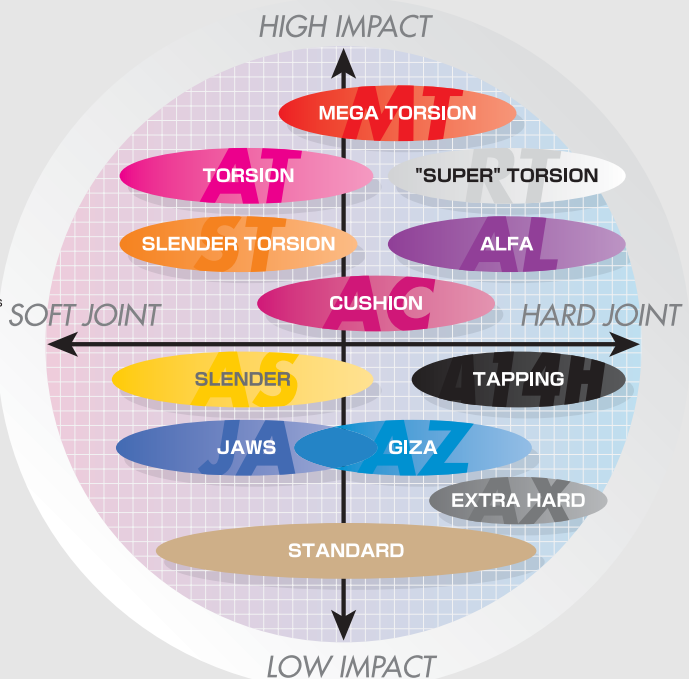
Fastening of drill screws and tapping screws



- Resistance is low at first but increases rapidly as the screw head sits.
- Requires a comparatively little time to fasten.



- Resistance is felt as the screw penetrates. Resistance lessens momentarily only to increase after seating.
- Requires a comparatively long time to fasten.

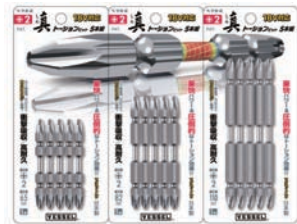


H 6.35 mm

Problem Solving Bit



"SUPER" TORSION BIT 5-Piece/10-Piece Set Patented



RT5P2065 RT5P2082 RT5P2110



Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
RT5P2065	⊕ 2×φ3.7× 65 5pcs.	X	160×70	348180
RT5P2082	⊕ 2×φ3.7× 82 5pcs.	X	160×70	348197
RT5P2110	⊕ 2×φ3.7×110 5pcs.	X	160×70	348203

Card size: (H×W) mm; (Thickness): 8 mm



RT10P2065F RT10P2082F

RT10P2110F



Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Package size (mm)	JAN code (4907587)
RT10P2065F	⊕ 2×φ3.7× 65 10pcs.	X	150×87	320469
RT10P2082F	⊕ 2×φ3.7× 82 10pcs.	X	150×87	320476
RT10P2110F	⊕ 2×φ3.7×110 10pcs.	X	162×87	320483

MEGA TORSION BIT 5-Piece Set Patent Pending



MT5P2065 MT5P2082 MT5P2110



Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
MT5P2065	⊕ 2×φ3.7× 65 5pcs.	X	160×70	357335
MT5P2082	⊕ 2×φ3.7× 82 5pcs.	X	160×70	357342
MT5P2110	⊕ 2×φ3.7×110 5pcs.	X	160×70	357359

Card size: (H×W) mm; (Thickness): 8 mm

JAWS BIT 5-Piece Set Patent Pending



JA5P2065 JA5P2082 JA5P2110



Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
JA5P2065	⊕ 2× 65 5pcs.	H	160×70	357458
JA5P2082	⊕ 2× 82 5pcs.	H	160×70	357465
JA5P2110	⊕ 2×110 5pcs.	H	160×70	357472

Card size: (H×W) mm; (Thickness): 8 mm

TORSION BIT 5-Piece Set



BW-163

BW-164

BW-165



Outer Ctn.: 10, with one holder case

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
BW-163	⊕ 2×φ3.5× 65 5pcs.	H	140×70	353405
BW-164	⊕ 2×φ3.5×110 5pcs.	H	140×70	353412
BW-165	⊕ 2×φ3.5× 65 3pcs. ⊕ 2×φ3.5×110 2pcs.	H	140×70	353429

Card size: (H×W) mm; (Thickness): 23 mm

SLENDER BIT 5-Piece/20-Piece Set Patented



BW-180

BW-181

BW-182



Outer Ctn.: 10, with one holder case

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
BW-180	⊕ 2× 65 5pcs.	H	140×70	353924
BW-181	⊕ 2×110 5pcs.	H	140×70	353931
BW-182	⊕ 2× 65 3pcs. ⊕ 2×110 2pcs.	H	140×70	353948

Card size: (H×W) mm; (Thickness): 23 mm



AS20P2065F

AS20P2110F



Inner Ctn.: 5 sets

Model No.	Contents	Heat treatment classification	Package size (mm)	JAN code (4907587)
AS20P2065F	⊕ 2× 65 20pcs.	H	150×87	320513
AS20P2110F	⊕ 2×110 20pcs.	H	162×87	320520



Economical double end bit



For limited area



For impact drivers



Minimal damage to the chuck

Problem Solving Bit/ Standard Bit

SLENDER TORSION BIT 5-Piece Set

Patented



BW-301 BW-302 BW-303 BW-305



Outer Ctn. : 10, with one holder case

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
BW-301	⊕ 2×φ3.5×65 5pcs.	H	140×70	357786
BW-302	⊕ 2×φ3.5×110 5pcs.	H	140×70	357793
BW-303	⊕ 2×φ3.5×65 3pcs.	H	140×70	357809
BW-305	⊕ 2×φ3.5×110 2pcs.	H	140×70	357861

Card size: (H×W) mm; (Thickness): 23 mm

GIZA BIT 5-Piece Set

Patented



BW-170 BW-171 BW-172



BW-173 BW-174 BW-175



Outer Ctn. : 10, with one holder case

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
BW-170	⊕ 2×65 5pcs.	H	140×70	353191
BW-171	⊕ 2×110 5pcs.	H	140×70	353207
BW-172	⊕ 2×65 2pcs. ⊕ 2×110 3pcs.	H	140×70	353214
BW-173	⊕ 2×4.5×65 5pcs.	H	140×70	353221
BW-174	⊕ 2×4.5×100 5pcs.	H	140×70	353238
BW-175	⊕ 2×4.5×65 2pcs. ⊕ 2×4.5×100 3pcs.	H	140×70	353245

Card size: (H×W) mm; (Thickness): 23 mm

EXTRA HARD BIT 5-Piece Set



BW-36 BW-37 BW-38 BW-39

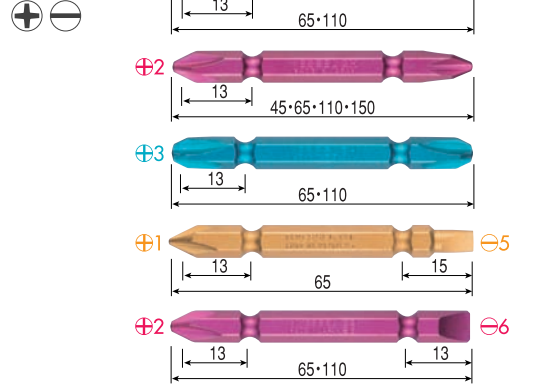


Outer Ctn. : 10, with one holder case

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
BW-36	⊕ 2×65 5pcs.	X	140×70	356581
BW-37	⊕ 2×110 5pcs.	X	140×70	356598
BW-38	⊕ 2×65 5pcs.	X	140×70	356604
BW-39	⊕ 2×100 5pcs.	X	140×70	356611

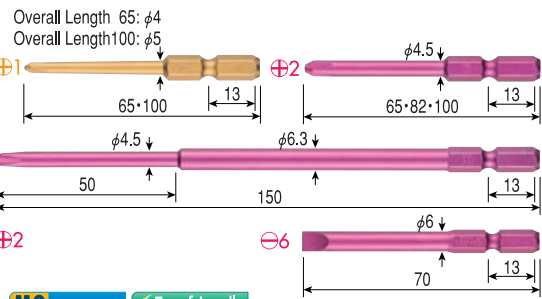
Card size: (H×W) mm; (Thickness): 23 mm

IRO BIT (Color-coded Bit) 2-Piece/5-Piece Set



Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
IR141065	⊕ 1×65	H	160×35	348609
IR141110	⊕ 1×110	H	160×35	348616
IR142045	⊕ 2×45	H	160×35	348623
IR142065	⊕ 2×65	H	160×35	348630
IR142110	⊕ 2×110	H	160×35	348647
IR142150	⊕ 2×150	H	210×35	348654
IR143065	⊕ 3×65	H	160×35	348685
IR143110	⊕ 3×110	H	160×35	348692
IR141565	⊕ 1⊖ 5×65	H	160×35	348708
IR142665	⊕ 2⊖ 6×65	H	160×35	348715
IR142611	⊕ 2⊖ 6×110	H	160×35	348722



Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
IR161065	⊕ 1×65	H	160×35	348746
IR161100	⊕ 1×100	H	160×35	348753
IR162065	⊕ 2×65	H	160×35	348760
IR162082	⊕ 2×82	H	160×35	348777
IR162100	⊕ 2×100	H	160×35	348784
IR162150	⊕ 2×150	H	210×35	348791
IR166070	⊖ 6×70	H	160×35	348739



IR5P01 IR5P02

Inner Ctn. : 10 sets

Model No.	Contents	Heat treatment classification	Package size (mm)	JAN code (4907587)
IR5P01	⊕ 1×φ4.0×65, ⊕ 2×φ4.5×100 ⊕ 2/ ⊕ 1×65, ⊕ 2×110, ⊕ 3×65	H	160×70	349514
IR5P02	⊕ 1×65, ⊕ 2×65, ⊕ 3×65 ⊕ 2×110 (2 for each)	H	160×70	349521

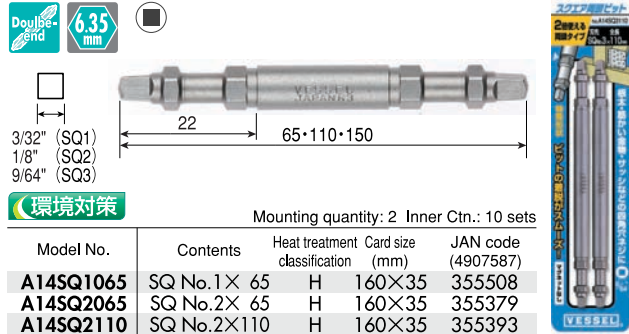


H 6.35 mm

Standard Bit



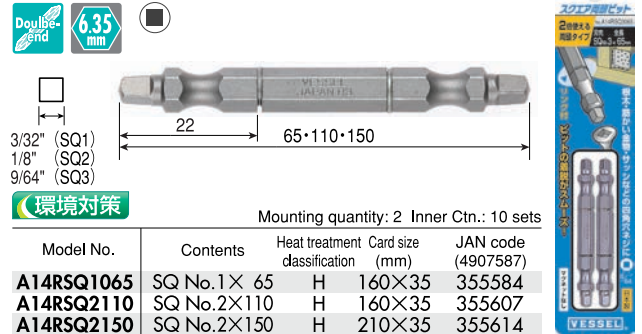
SQUARE DOUBLE END BIT 2-Piece/5-Piece Set Patented



環境対策 Mounting quantity: 2 Inner Ctn.: 10 sets

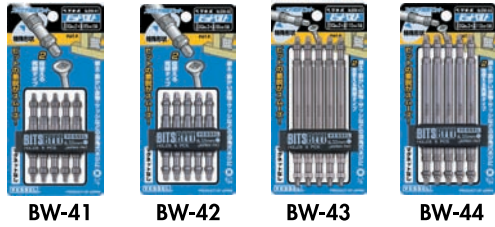
Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
A14SQ1065	SQ No.1× 65	H	160×35	355508
A14SQ2065	SQ No.2× 65	H	160×35	355379
A14SQ2110	SQ No.2×110	H	160×35	355393
A14SQ2150	SQ No.2×150	H	210×35	355515
A14SQ3065	SQ No.3× 65	H	160×35	355386
A14SQ3110	SQ No.3×110	H	160×35	355409
A14SQ3150	SQ No.3×150	H	210×35	355522

SQUARE DOUBLE END BIT 2-Piece/5-Piece Set



環境対策 Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
A14RSQ1065	SQ No.1× 65	H	160×35	355584
A14RSQ2110	SQ No.2×110	H	160×35	355607
A14RSQ2150	SQ No.2×150	H	210×35	355614
A14RSQ3065	SQ No.3× 65	H	160×35	355621
A14RSQ3110	SQ No.3×110	H	160×35	355638



Eco-friendly Outer Ctn.: 10, with one holder case

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
BW-401	SQ No.2× 65	5pcs. H	140×70	355652
BW-403	SQ No.2×110	5pcs. H	140×70	355676
BW-405	SQ No.2× 65	3pcs. H	140×70	355690
	SQ No.2×110	2pcs. H		
BW-407	SQ No.2× 65	1pc. H	140×70	355713
	SQ No.3× 65	2pcs. H		
	SQ No.2×110	1pc. H		
	SQ No.3×110	1pc. H		

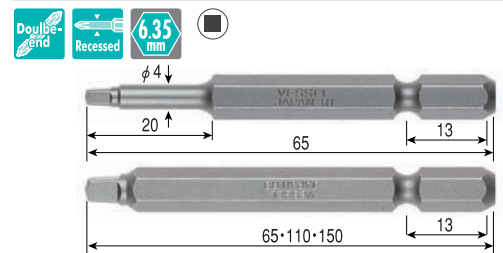
Card size: (H×W) mm; (Thickness): 23 mm

Eco-friendly Outer Ctn.: 10, with one holder case

Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
BW-41	SQ No.2× 65	5pcs. H	140×70	355416
BW-42	SQ No.3× 65	5pcs. H	140×70	355423
BW-43	SQ No.2×110	5pcs. H	140×70	355430
BW-44	SQ No.3×110	5pcs. H	140×70	355447
BW-45	SQ No.2× 65	3pcs. H	140×70	355454
	SQ No.2×110	2pcs. H		
BW-46	SQ No.3× 65	3pcs. H	140×70	355461
	SQ No.3×110	2pcs. H		
BW-47	SQ No.2× 65	1pc. H	140×70	355478
	SQ No.3× 65	2pcs. H		
	SQ No.2×110	1pc. H		
	SQ No.3×110	1pc. H		

Card size: (H×W) mm; (Thickness): 23 mm

SQUARE BIT



Magnetized Eco-friendly Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
M16SQ1065	SQ No.1× 65	160×35	355348
M16SQ2065	SQ No.2× 65	160×35	355355
M16SQ3065	SQ No.3× 65	160×35	355362
M16SQ2110	SQ No.2×110	160×35	355164
M16SQ3110	SQ No.3×110	160×35	355089
M16SQ2150	SQ No.2×150	210×35	354617
M16SQ3150	SQ No.3×150	210×35	354624

6.35 mm For impact drivers

Hex Bit 1-Piece/5-Piece Set



MG Magnetized **Eco-friendly** Mounting quantity: 1 Inner Ctn.: 10 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
SM16H020	A/F 2 × 65	135×35	356352
SM16H025	A/F 2.5 × 65	135×35	356369
SM16H030	A/F 3 × 65	135×35	356376
SM16H040	A/F 4 × 65	135×35	356383
SM16H050	A/F 5 × 65	135×35	356390
SM16H060	A/F 6 × 65	135×35	356406
SM16H080	A/F 8 × 65	135×35	358479



BW-31

MG Magnetized **Eco-friendly**

Outer Ctn. : 10, with one holder case

Model No.	Contents	Card size (mm)	JAN code (4907587)
BW-31	A/F 2.5, 3, 4, 5, 6×65	140×70	356574

Card size: (H×W) mm; (Thickness): 23 mm

TORX Bit (Tamper-Proof)



MG Magnetized **Eco-friendly** Mounting quantity: 1 Inner Ctn.: 10 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
SMVT08H	VT 8H× 65	135×35	356413
SMVT10H	VT10H× 65	135×35	356420
SMVT15H	VT15H× 65	135×35	356437
SMVT20H	VT20H× 65	135×35	356444
SMVT25H	VT25H× 65	135×35	356451
SMVT27H	VT27H× 65	135×35	356468
SMVT30H	VT30H× 65	135×35	356475
SMVT40H	VT40H× 65	135×35	356482

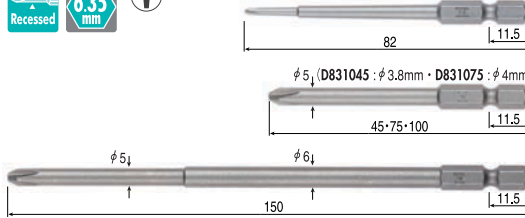
Ball Point Bit



MG Magnetized **Eco-friendly** Mounting quantity: 1 Inner Ctn.: 10 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
SM16BP40	A/F 4 × 82	160×35	358806
SM16BP50	A/F 5 × 82	160×35	358813
SM16BP60	A/F 6 × 82	160×35	358820

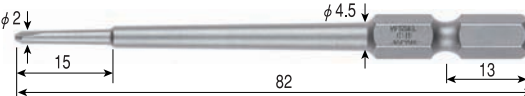
Bit



MG Magnetized **Eco-friendly** Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
D830082	⊕0×82	160×35	358462
D831045	⊕1×3.8× 45	160×35	356680
D831075	⊕1×4 × 75	160×35	356697
D832075	⊕2×5 × 75	160×35	356703
D832100	⊕2×5 ×100	160×35	356710
D832150	⊕2×5×6×150	210×35	356727

Bit for small precision screws



MG Magnetized **Eco-friendly** Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
M160082	⊕0× 82	160×35	358455



H 6.35 mm

Gold Bit



Double End Gold Color Bit



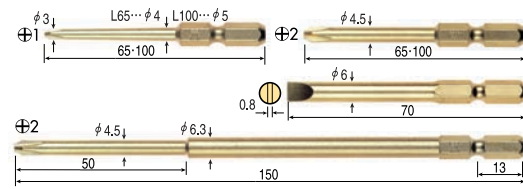
Eco-friendly

Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Content	Heat treatment classification	Card size (mm)	JAN code (4907587)
GA142200	⊕2×200	H	260×35	346063



Step Gold Color Bit



Magnetized Eco-friendly

Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Content	Heat treatment classification	Card size (mm)	JAN code (4907587)
GM166070	⊖6×70	G	160×35	346308
GM161065	⊕1×65	H	135×35	346315
GM161100	⊕1×100	H	160×35	346353
GM162065	⊕2×65	H	135×35	346322
GM162100	⊕2×100	H	160×35	346339
GM162150	⊕2×150	H	210×35	346346



Double End Gold Color Bit (Magnetic)



Magnetized Eco-friendly

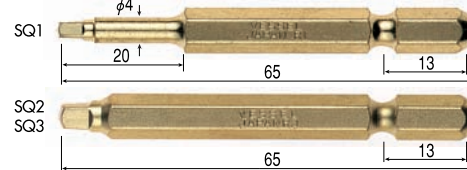
Mounting quantity: 2 (For GM142300 and GM142500, one for each) Inner Ctn.: 10 sets

Model No.	Content	Heat treatment classification	Card size (mm)	JAN code (4907587)
GM141065	⊕1×65	H	135×35	346100
GM141110	⊕1×110	H	160×35	346117
GM142045	⊕2×45	H	135×35	346124
GM142065	⊕2×65	H	135×35	346131
GM142110	⊕2×110	H	160×35	346148
GM143065	⊕3×65	H	135×35	346162
GM142150	⊕2×150	H	210×35	346155
GM142200	⊕2×200	H	260×35	346179
GM142300	⊕2×300	H	340×35*	346186
GM142500	⊕2×500	H	540×35*	346193
GM143110	⊕3×110	H	160×35	355232

*Silver-colored finishing, with S-hanger



Square Gold Color Bit



Magnetized Eco-friendly

Mounting quantity: 1 (For GM16SQ23, 2 for each) Inner Ctn.: 10 sets

Model No.	Content	Card size (mm)	JAN code (4907587)
GM16SQ01	SQ No.1×65	135×35	353894
GM16SQ23	SQ No.2×65 SQ No.3×65	135×35	346384



Double End Gold Color Bit



Magnetized Eco-friendly

Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Content	Heat treatment classification	Card size (mm)	JAN code (4907587)
GM141565	⊕1/⊖5×65	H	135×35	346209
GM142665	⊕2/⊖6×65	H	135×35	346216



Hex Gold Color Bit



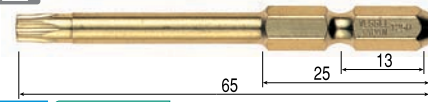
Magnetized Eco-friendly

Mounting quantity: 1 Inner Ctn.: 10 sets

Model No.	Content	Card size (mm)	JAN code (4907587)
GM16H020	A/F 2 × 65	135×35	346391
GM16H025	A/F 2.5 × 65	135×35	346407
GM16H060	A/F 6 × 65	135×35	346445



TORX Gold Color Bit (Tamper-Proof)



Magnetized Eco-friendly

Mounting quantity: 1 Inner Ctn.: 10 sets

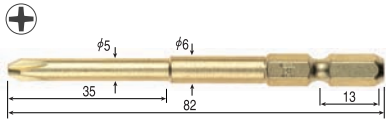
Model No.	Content	Card size (mm)	JAN code (4907587)
GMVT10H	VT10H×65	135×35	346896
GMVT15H	VT15H×65	135×35	346926
GMVT20H	VT20H×65	135×35	346933
GMVT27H	VT27H×65	135×35	346995
GMVT30H	VT30H×65	135×35	346940





For impact drivers

Gold Color Bit

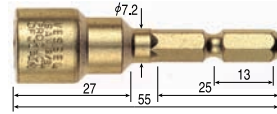
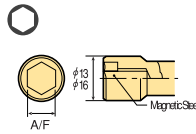


Eco-friendly

Mounting quantity: 2 Inner Ctn.: 10 sets

Model No.	Content	Heat treatment classification	Card size (mm)	JAN code (4907587)
GD812082	⊕ 2 × 82	H	160 × 35	346254

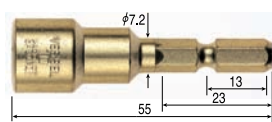
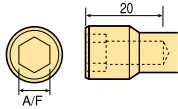
Gold Color Nut Setter (Magnetic)



Mounting quantity: 1 Inner Ctn.: 10 sets

Model No.	Content	Card size (mm)	JAN code (4907587)
GSAM8055	A/F 5/16" × 55 (for 5 mm)	135 × 35	346902
GSAM9655	A/F 3/8" × 55 (for 6 mm)	135 × 35	346919

Gold Color Socket Bit

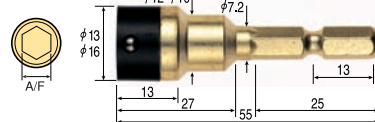


Eco-friendly

Mounting quantity: 1 Inner Ctn.: 5 sets

Model No.	Content	Card size (mm)	JAN code (4907587)
GA205555	A/F 5.5 × 55	135 × 35	346506
GA201255	A/F 12 × 55	135 × 35	346551
GA201355	A/F 13 × 55	135 × 35	346568
GA201455	A/F 14 × 55	135 × 35	346575

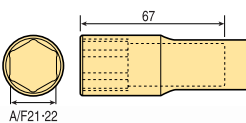
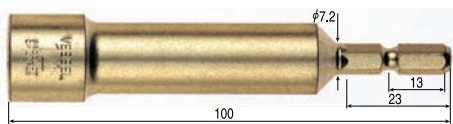
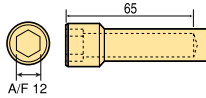
Gold Color Nut Setter (Locked with ball)



Mounting quantity: 1 Inner Ctn.: 5 sets

Model No.	Content	Card size (mm)	JAN code (4907587)
GSB8055	A/F 5/16" × 55 (for 5 mm)	135 × 35	346964
GSB9655	A/F 3/8" × 55 (for 6 mm)	135 × 35	346971

Deep Hole Socket Bit



Eco-friendly

Mounting quantity: 1 Inner Ctn.: 5 sets

Model No.	Content	Card size (mm)	JAN code (4907587)
GA203121	A/F 12 × Depth: 65 × 100	160 × 55	346612
GA203211	A/F 21 × Depth: 65 × 110	185 × 55	346667
GA203221	A/F 22 × Depth: 65 × 110	185 × 55	346674

Gold Color Socket Adapter



Eco-friendly

Mounting quantity: 1 Inner Ctn.: 5 sets

Model No.	Content	Card size (mm)	JAN code (4907587)
GA20BSQ2	Socket mounting angle 6.35 (1/4") × 45	135 × 35	346803

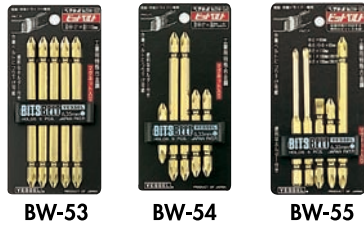


H 6.35 mm

Gold Bit



Gold Color Bit 5-Piece Set



Gold Color Bit 10-Piece Set



MG Magnetized **Eco-friendly** Outer Ctn. : 10, with one holder case

Model No.	Contents	Card size (mm)	JAN code (4907587)
BW-51	Double End Gold Color Bit $\Phi 2 \times 45 \dots 5$ pcs.	95×70	350510
BW-52	Double End Gold Color Bit $\Phi 2 \times 65 \dots 5$ pcs.	95×70	350527
BW-53	Double End Gold Color Bit $\Phi 2 \times 110 \dots 5$ pcs.	140×70	350534
BW-54	Double End Gold Color Bit $\Phi 2 \times 45 \dots 1$ pc. $\Phi 2 \times 65 \dots 2$ pcs. $\Phi 2 \times 110 \dots 2$ pcs.	140×70	350541
BW-55	Double End Gold Color Bit $\Phi 2 \times 65 \dots 1$ pc. $\Phi 2 \times 110 \dots 1$ pc. $\Phi \ominus$ Double End Gold Color Bit $\Phi 2 / \ominus 6 \times 65 \dots 1$ pc. Gold Color Bit $\Phi 1 \times 100 \dots 1$ pc. $\Phi 2 \times 100 \dots 1$ pc.	140×70	350558

Card size: (H×W) mm; (Thickness): 23 mm

MG Magnetized **Eco-friendly** Except BW-10 Outer Ctn. : 10, with one holder case

Model No.	Contents	Card size (mm)	JAN code (4907587)
BW-10	Gold Color Short Bit $\dots 10$ pcs. $\Phi 1, \Phi 2, \Phi 3, \ominus 4, \ominus 6$ A/F2.5, 3, 4, 5, 6 Bit holder with magnet $\dots 1$ pc.	120× 85	350206
BW-11	Double End Gold Color Bit $\Phi 2 \times 45 \dots 10$ pcs.	120× 85	350213
BW-12	Double End Gold Color Bit $\Phi 2 \times 65 \dots 10$ pcs.	120× 85	350220
BW-13	Double End Gold Color Bit $\Phi 2 \times 110 \dots 10$ pcs.	150×100	350237
BW-14	Double End Gold Color Bit $\Phi 2 \times 45 \dots 2$ pcs. $\Phi 2 \times 65 \dots 6$ pcs. $\Phi 2 \times 110 \dots 2$ pcs.	150×100	350244
BW-15	Double End Gold Color Bit $\Phi 1 \times 65 \dots 1$ pc. $\Phi 2 \times 110 \dots 1$ pc. $\Phi 2 \times 45 \dots 2$ pcs. $\Phi 3 \times 65 \dots 1$ pc. $\Phi 2 \times 65 \dots 2$ pcs. $\Phi \ominus$ Double End Gold Color Bit $\Phi 2 / \ominus 6 \times 65 \dots 1$ pc. Step Gold Color Bit $\Phi 1 \times 100 \dots 1$ pc. $\Phi 2 \times 100 \dots 1$ pc.	150×100	350251

Card size: (H×W) mm; (Thickness): 23 mm

Gold Color Bit 5-Piece Set



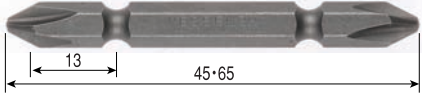
MG Magnetized **Eco-friendly** Outer Ctn. : 10, with one holder case

Model No.	Contents	Card size (mm)	JAN code (4907587)
BW-66	Gold Color Bit $\Phi 2 \times 65 \dots 5$ pcs.	140×70	353955
BW-67	Gold Color Bit $\Phi 2 \times 100 \dots 5$ pcs.	140×70	353962



For impact drivers

Double End Bit



MG Magnetized	Eco-friendly	Mounting quantity: 2 Inner Ctn.: 10 sets		
Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
M141065	⊕1 × 65	H	170 × 42	345554
M142045	⊕2 × 45	H	170 × 42	345462

Bit



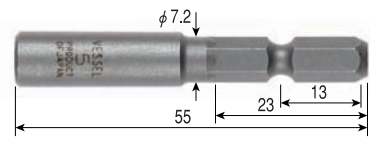
MG Magnetized	Eco-friendly	Mounting quantity: 2 Inner Ctn.: 10 sets		
Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
M160026	⊕2 × 4.5 × 65 ⊖6 × 45	H	170 × 42	345585

Double End Bit



MG Magnetized	Eco-friendly	Mounting quantity: 2 Inner Ctn.: 10 sets		
Model No.	Contents	Heat treatment classification	Card size (mm)	JAN code (4907587)
M141565	⊕1 / ⊖5 × 65	H	170 × 42	345639

Socket Bit



Eco-friendly	Mounting quantity: 1 Inner Ctn.: 5 sets		
Model No.	Contents	Card size (mm)	JAN code (4907587)
A205555	A/F 5.5 × 55	170 × 42	345080
A201055	A/F 10 × 55	170 × 42	345127
A201255	A/F 12 × 55	170 × 42	345134

Double End Bit 5-Piece/10-Piece Set



BW-114



BW-151

MG Magnetized	Eco-friendly	Outer Ctn. : 10, with one holder case		
Model No.	Contents	Card size (mm)	JAN code (4907587)	
BW-114	⊕2 × 45...2pcs. ⊕2 × 65...6pcs.	150 × 100	350442	
BW-151	⊕2 × 45...5pcs.	95 × 70	350619	

Card size: (H×W) mm; (Thickness): 23 mm



H 6.35 mm

Others

Socket Bit Belt



BW-70

Outer Ctn. : 10, with one holder case

Model No.	Contents	Card size (mm)	JAN code (4907587)
BW-70	A/F 8×60 A/F 10×60	140×80	357755
	A/F 12×60 A/F 13×60		
	A/F 14×60		
	1pc. each		

Card size: (H×W) mm; (Thickness): 23 mm

Refill Bits (For power tools)

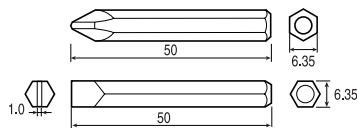


SB

Model No.	Contents	Card size (mm)	JAN code (4907587)
SB	A/F 5/16×55 Nut Setter SB A/F 5/16×55	127×87	350176
SB	A/F 3/8 ×55 Nut Setter SB A/F 3/8×55	127×87	350183

Card size: (H×W) mm; (Thickness): 15 mm

No. D80 Cordless Screwdriver Bit



Inner Ctn.: 1 set, Outer Ctn. : 50 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
D80	⊕1, ⊕2, ⊖6.3×50	125×55×8	345516

Gold Bits (in zip pack)



Package in a plastic pack with zipper, handy for storage.

MG Magnetized **Eco-friendly**

Inner Ctn.: 10 sets

Model No.	Contents	Package size (mm)	JAN code (4907587)
GM-A14	Double End Gold Color Bit ⊕ 2×45H	145×80	335104
	Double End Gold Color Bit 65H	145×80	335111
	Double End Gold Color Bit 110H	190×80	335128
GM-A16	Standard Gold Color Bit ⊕ 1×3×65H	145×80	335135
	Standard Gold Color Bit 100H	190×80	335142
	Standard Gold Color Bit ⊕ 2×4.5×65H	145×80	335159
	Standard Gold Color Bit 100H	190×80	335166

No. **BWS series**

Patented



BWS-52

BWS-54

BWS-55

MG Magnetized

Inner Ctn.: 10 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
BWS-52	Double End Cushion Bit $\Phi 2 \times 65 \dots 5$ pcs.	180×100×38	356857
BWS-54	Double End Cushion Bit $\Phi 2 \times 65 \dots 3$ pcs. $\Phi 2 \times 110 \dots 2$ pcs.	180×100×38	356871
BWS-55	Double End Cushion Bit $\Phi 2 \times 65 \dots 2$ pcs. $\Phi 2 \times 110 \dots 1$ pc. Cushion Bit $\Phi 1 \times 100 \dots 1$ pc. $\Phi 2 \times 100 \dots 1$ pc.	180×100×38	356888

No. **BWL series**

Patented



BWL-52

BWL-53

BWL-54

MG Magnetized

Inner Ctn.: 10 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
BWL-52	LED Flashlight, Double End Cushion Bit $\Phi 2 \times 65 \dots 4$ pcs.	180×100×38	356895
BWL-53	LED Flashlight, Double End Cushion Bit $\Phi 2 \times 110 \dots 4$ pcs.	180×100×38	356901
BWL-54	LED Flashlight, Double End Cushion Bit $\Phi 2 \times 65 \dots 2$ pcs. $\Phi 2 \times 110 \dots 2$ pcs.	180×100×38	356918

No. **BWH**

Patented



BWH-55

MG Magnetized

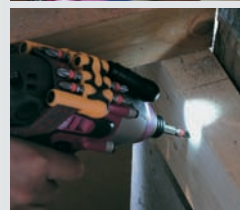
Inner Ctn.: 10 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
BWH-55	Screw catcher, Inch bit $\Phi 1, \Phi 2, \Phi 3, \Phi 4, \Phi 6, SQ1, SQ2, SQ3$	180×100×38	356925



BWS series

The expandable belt and buckle allow attachment to batteries and electric impact drivers, as well as wrist and hip belts.



BWL series

Attachment to whatever tool you're using enables quick bit changes thanks to the miniature spotlight feature. The bright, white LED spotlight illuminates darkened work areas.



BWH series

The bit tip is automatically fitted into the screw head simply by moving it close to the screw. The strong magnetic tip allows for secure positioning of even long screws, and the elimination of falling screws means that screw tightening operations can be carried out with one hand.

Bit Belt Holder

Patented



BBR-5



BB-5

BB-10

Inner carton quantity: 5pcs (10pcs for BB-5 / BB-10)

Model No.	Contents	Package size (mm)	JAN code (4907587)
BBR-5	Bit belt holder (red)	175×130×30	358660
BBY-5	Bit belt holder (yellow)	175×130×30	358677
BB-5	Bit belt holder (for 5 pcs.)	—	358684
BB-10	Bit belt holder (for 10 pcs.)	—	358691



H 6.35 mm

Construction Sockets

GO-TAN Series

A combination of technologies has achieved a socket bit series for high impact work that boasts outstanding durability with a rust-resistant mirror finish that makes this series the perfect solution for the rigors and problems of construction and installation sites.

We support our professional users with new, innovative ideas.



Patent Pending

GO-TAN Mirror Socket

These sockets have been polished to a mirror finish, and with their streamlined design fit snugly in the hand.



An axial press-fit system and versatile high torque technology has produced a socket that is durable enough for 18V high impact drivers.

The sockets, tempered to optimum hardness, are bonded to the shank, and boast features which include a shock dispersal zone that disperses stress concentrations.

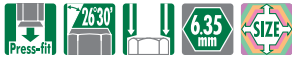
Model	Shape	Feature	Application					
			Temporary housing	Formwork	Wood working	Interior finish work	Exterior wall	Equipment installation
DEEP HOLE Patented		Our DEEP HOLE SOCKETS are among our most popular items. Strong, light, and rust-resistant with a mirror finish. 12-point sockets easily engage nuts and bolts.	★★★	★★★★	★★★★	★★★	★★★	★★★
TILT Patented		This is an exceptionally excellent socket. Ordinarily it can be used as a long socket, but quickly converts to a tilt socket for those hard-to-reach corner and edge jobs.	★★★	★★★	★★★★	★★★	★★★	★★★
SUPER LONG Patented		At 110mm long, our super long sockets are convenient for tightening bolts, and are particularly convenient for tightening protruding bolts.	★★★	★★★	★★★	★★★★	★★★	★★★★
"GO-TAN" MIRROR Patent Pending		Our GO-TAN Mirror Sockets have been designed with streamlined shape to enable them to fit snugly in the hand. A shock absorbing part in the shaft provides maximum absorption of the shocks from the impact driver, resulting in 4 times the durability of conventional models.	★★★	★★★★	★★★★	★★★	★★★	★★★
SCAFFOLDING WORKER'S		Our scaffolding worker's socket is a semi-long type socket designed especially for construction scaffolding. Light and easy to carry, these sockets feature a press-fit design for improved durability.	★★★★	★★★	★★★	★★★	★★★	★★★
"KUROTAN" Patent Pending		Our KUROTAN socket series feature an all-black design favored by professionals. A shock absorbing part results in twice the durability of conventional models.	★★★	★★★★	★★★★	★★★	★★★	★★★
RUBBLE-REMOVING SOCKET for PLASTIC CONE		Super hard steel is used for the tip. Quickly grinds away troublesome rubble (concrete) so plastic cones can be set and pulled more rapidly.	★★★	★★★★	★★★	★★★	★★★	★★★
FULLY THREADED SOCKET		3 rollers securely hold the bolt without damaging threads.	★★★	★★★	★★★	★★★★	★★★	★★★★
RING NUT SETTER		The spring-loaded ring of our ring nut setters securely grips flanged screws, solving the problem of iron dust attracted by the magnets of conventional models, making these ring nut setters ideal for siding work.	★★★	★★★	★★★	★★★	★★★★	★★★

Construction Sockets

GO-TAN Series

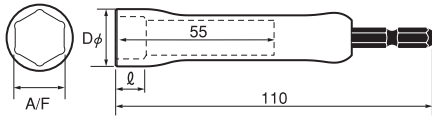


"GO-TAN" (Hard Forged) Mirror Socket Patent Pending



The shank with molded resin part has been press-fit into the socket. By dispersing the excessive stress to the shank, its durability has become four times higher than conventional models.

※Based on our own tests. ※Except TA200811 and TA201011.



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

Model No.	A/F	Dφ (mm)	ℓ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
TA200811	8	14	6.5	110	165×35	358356
TA201011	10	16	6.5	110	165×35	358363
TA201211	12	18	7.5	110	165×35	358370
TA201311	13	19	8	110	165×35	358387
TA201411	14	20	8	110	165×35	358394
TA201711	17	23	9	110	165×35	358400
TA201911	19	25	10	110	165×35	358417
TA202111	21	28	11	110	165×35	358424
TA202211	22	29	13	110	165×35	358431
TA202411	24	32	13	110	165×35	358448

※The colors of the A/F column in the table indicate the seal colors.



Tilt Socket Patented



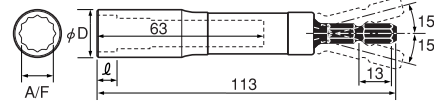
Pull to Bend, push to Lock. You can use the both features.

If not obstructed by anything, pushing locks the neck enabling use as a deep socket. When tightening in cor-



Tightening of duct coupling

Tightening of strap bolts



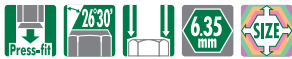
Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

Model No.	A/F	Dφ (mm)	ℓ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
WA201011	10	16	6.5	113	165×35	356017
WA201211	12	18	7.5	113	165×35	355843
WA201311	13	19	8	113	165×35	355850
WA201411	14	20	8	113	165×35	355867
WA201711	17	23	9	113	165×35	355874
WA201911	19	25	10	113	165×35	355881
WA202111	21	28	11	113	165×35	355898
WA202211	22	29	13	113	165×35	357663
WA202411	24	32	13	113	165×35	357670

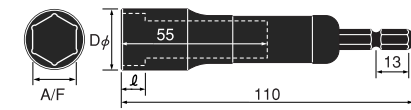
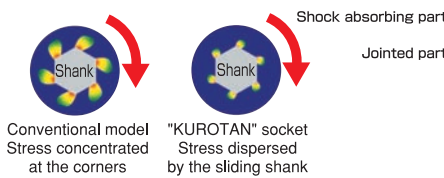
※The colors of the A/F column in the table indicate the seal colors.



"KUROTAN" Socket Patent Pending



Our proprietary press-fit technology prevents shank breakage. Outstanding durability.



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

Model No.	A/F	Dφ (mm)	ℓ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
HA201711	17	23	9	110	160×35	357724
HA201911	19	25	10	110	160×35	357731
HA202111	21	28	11	110	160×35	357748

※The colors of the A/F column in the table indicate the seal colors.



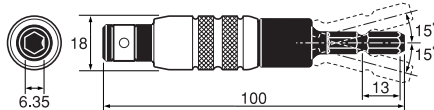
Tilt Bit Holder Patented



Thanks to a hand-turned grip, users can work in a stable posture.



Installing tension and angle brackets



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

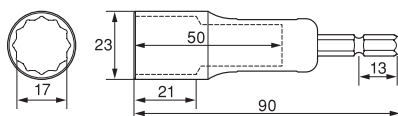
Model No.	Bit mounting angle (mm)	Outer diameter φ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
WBJ100	6.35	18	100	160×35	355959



Scaffolding Worker's Socket



For fastening 17mm bolts and dual-purpose clamps commonly used for the scaffoldings.



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

Model No.	A/F	Dφ (mm)	ℓ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
LAS20179	17	23	21	90	146×35	345998

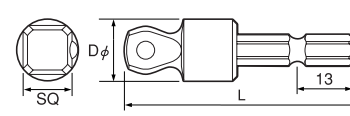
※The colors of the A/F column in the table indicate the seal colors.



Tilt Socket Adapter Patent Pending



High hardness HRC60 to prevent wear on corners



Push to lock

Pull to bend

Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

Model No.	Socket mounting SQ (mm)	Dφ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
A20WSQ3	9.5	13	56	114×35	355935
A20WSQ4	12.7	16	60	117×35	355942





Pull to bend, push to lock



Color-coded by size



For impact drivers



Long sized for deep spots



Easy insertion to chuck



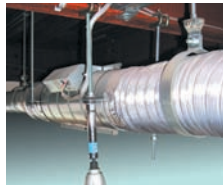
Turning grip



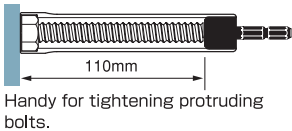
Keep the nut at the tip

Super Long Socket

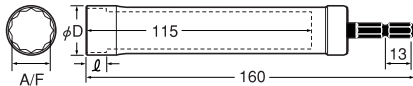
Patentec



For anchor bolts, form ties, hanger bolts, overhead cement hangers, etc.



Handy for tightening protruding bolts.



Inner Ctn.: 5 sets, Outer Ctn.: 50 sets

Model No.	A/F	Dφ (mm)	ℓ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
XA201715	17	23	9	160	217×35	345936
XA201915	19	25	10	160	217×35	345943
XA202115	21	28	11	160	217×35	345950
XA202415	24	32	13	160	217×35	357694

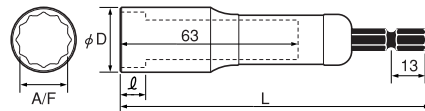
※The colors of the A/F column in the table indicate the seal colors.

Deep Hole Socket

Patented



Tightening of step clamp



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets (LA202411 only has inner ctn.)

Model No.	A/F	Dφ (mm)	ℓ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
LA200811	8	14	6.5	110	160×35	345684
LA201011	10	16	6.5	110	160×35	345691
LA201211	12	18	7.5	110	160×35	345707
LA201311	13	19	8	110	160×35	345714
LA201411	14	20	8	110	160×35	345721
LA201711	17	23	9	110	160×35	345738
LA201911	19	25	10	110	160×35	345745
LA202111	21	28	11	110	160×35	345752
LA202211	22	29	13	110	160×35	357687
LA202411	24	32	13	110	160×35	345769

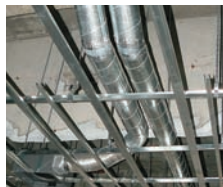
※The colors of the A/F column in the table indicate the seal colors.

Drop-ceiling Socket

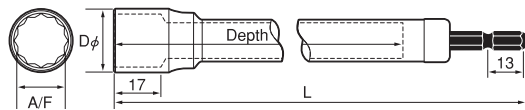
Patented



For drop-ceiling work and adjusting & dismantling operation of pipe and duct.



Its lightness enhances workability. The press-fit shank is strong against breakage.



Inner Ctn.: 5 sets

Model No.	A/F	Dφ (mm)	Depth (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
KA201730	17	23	255	300	355×35	357229
KA201750	17	23	455	500	555×35	357236
KA201770	17	23	655	700	755×35	357243

※The colors of the A/F column in the table indicate the seal colors.

ONE POINT

The **lightest** and **strongest** in the industry.

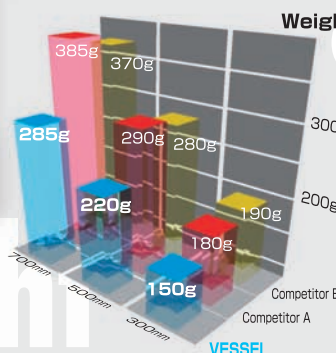
Drop-ceiling work is characterized by the repeated raising and lowering of tools over the worker's head.

The key to reducing worker fatigue and increasing work efficiency is "lightness."

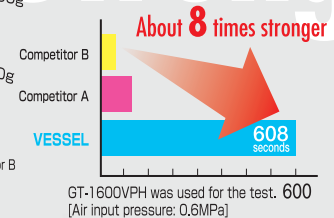
In addition, the press-fit design of these sockets make them No. 1 in terms of "strength" as well.



Weight comparison



Shank endurance test



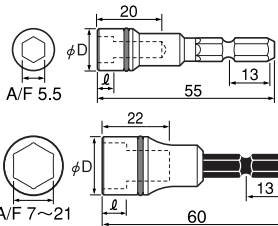
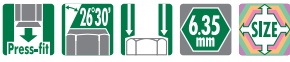
H 6.35 mm

Construction Sockets

GO-TAN Series



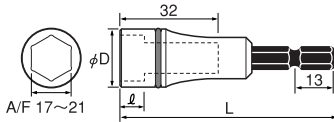
Socket



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

Model No.	A/F	φD (mm)	ℓ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
SA205555	5.5	10	3.5	55	110×35	345806
SA200755	7	13	5	60	115×35	345813
SA200860	8	13.5	6.5	60	115×35	345820
SA209660	9.6	16	6.5	60	115×35	345837
SA201060	10	16	6.5	60	115×35	345844
SA201260	12	18	8	60	115×35	345851
SA201360	13	19	8	60	115×35	345868
SA201460	14	20	8	60	115×35	345875
SA201760	17	23	9	60	115×35	345882

※The colors of the A/F column in the table indicate the seal colors.



Semi-Long Type

Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

Model No.	A/F	φD (mm)	ℓ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
SA201770	17	23	9	70	125×35	345967
SA201970	19	25	10	70	125×35	345899
SA202170	21	28	11	70	125×35	345905

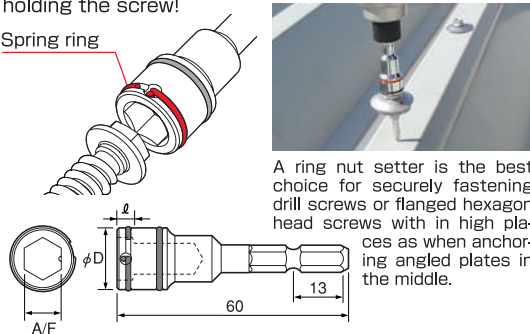
※The colors of the A/F column in the table indicate the seal colors.

Ring Nut Setter



Magnets attract iron dust. Ball locks lose the ball. The spring ring solves those problems by securely holding the screw!

Spring ring



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

Model No.	A/F	φD (mm)	ℓ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
SAR0860	8	13	3	60	115×35	355980
SAR9660	9.6	16	4	60	115×35	355997
SAR1060	10	16	5	60	115×35	356000

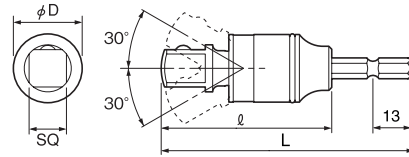
※The colors of the A/F column in the table indicate the seal colors.

Universal Socket Adapter

Patented



Simply mount your sockets and go right to work. (Check square drive size.)



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

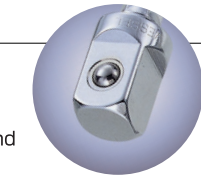
Model No.	Square drive size A/F (mm)	φD (mm)	ℓ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
A20USQ3	9.5	20	49	77	35×133	357205
A20USQ4	12.7	23	56	84	35×140	357212

※The colors of the A/F column in the table indicate the seal colors.

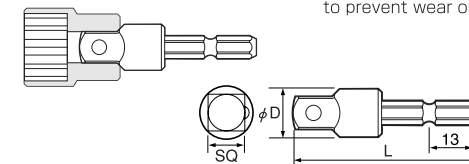
Socket Adapter



Simply mount your sockets and go right to work. (Check square drive size.)



High hardness HRC60 to prevent wear on corner.



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

Model No.	Square drive size A/F (mm)	φD (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
A20BSQ2	6.35	8	45	105×35	355904
A20BSQ3	9.5	13	54	112×35	355911
A20BSQ4	12.7	16	59	117×35	355928

Long Bit Holder



Problems are quickly solved with a 6.35 mm hexagon bit or long type bit. Thanks to a hand-turned grip, users can work in a stable posture.



Tightening screws in high places or when nearby obstructions make work difficult.



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

Model No.	Chuck anvil size A/F (mm)	Outer diameter φ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
EXJ150	6.35	12	150	205×35	355966
EXJ300	6.35	12	300	355×35	355973



Pull to bend, push to lock



Color-coded by size



For impact drivers



Long sized for deep spots



Easy insertion to chuck

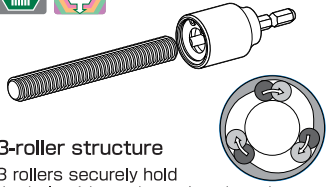


Turning grip

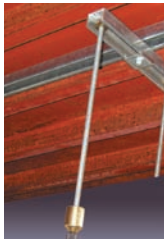


Keep the nut at the tip

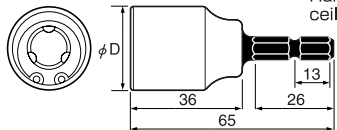
Fully Threaded Socket



3-roller structure
3 rollers securely hold the bolt without damaging threads.



Hanger bolt for drop ceiling



Inner Ctn.: 5 sets

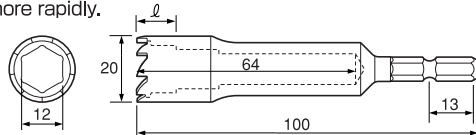
Model No.	Screw size	φD (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
GA20ZW25	5/16	23	65	125×35	346759
GA20ZW30	3/8	28	65	125×35	346766
GA20ZW40	1/2	28	65	125×35	346773



Rubble-removing Socket for Plastic Cone



Super hard steel is used for the tip. Quickly grinds away troublesome rubble (concrete) so plastic cones can be set and pulled more rapidly.



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

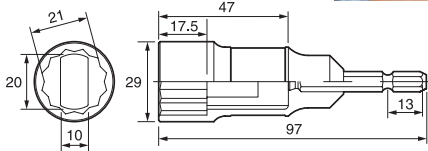
Model No.	A/F	φD (mm)	ℓ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
A201210G	12	20	11	100	155×35	345929



Form Tie Socket (For Ivy Form Ties) Patented



Removes the ivy form tie and nut at the same time.



Inner Ctn.: 5 sets

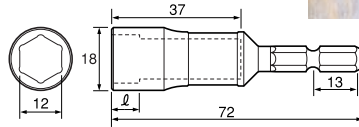
Model No.	A/F	φD (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
A202110F	21	29	97	160×35	358349



Socket for Plastic Cone



Cost-efficient specification
The shaft can be hit with a hammer to remove concrete rubble.



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

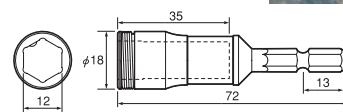
Model No.	A/F	φD (mm)	ℓ (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
A201275	12	18	8	72	120×35	345912



Plastic Cone Catcher



Holds a plastic cone with a spring and a ball to prevent it from dropping.



Inner Ctn.: 5 sets, Outer Ctn.: 100 sets

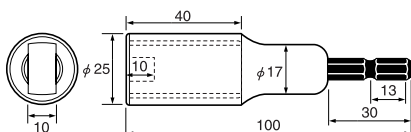
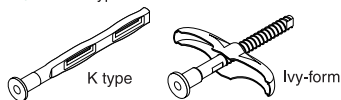
Model No.	A/F	Overall Length (mm)	Card size (mm)	JAN code (4907587)
A201275C	12	72	130×35	358622



Form Tie Socket Patented



Use for setting and striking Ivy-form or K type form tie.



Inner Ctn.: 5 sets

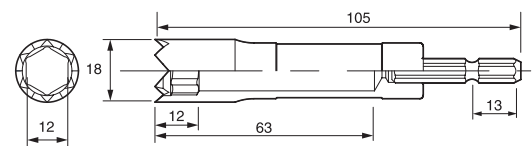
Model No.	A/F	φD (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
GA20F101	10	25	100	160×35	346704



Rubble-removing Socket for Plastic Cones (Carbide tipped)



The hardness of the tip has been increased (HRC51) for higher wear-resistance.



Inner Ctn.: 5 sets

Model No.	A/F	φD (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
A201210B	12	18	105	160×35	358332



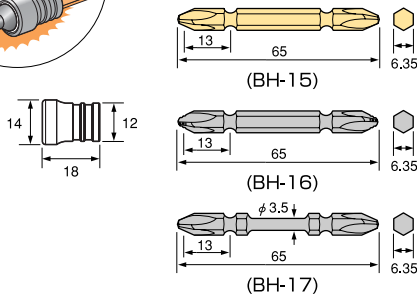
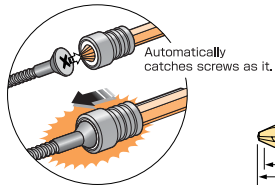
H 6.35 mm

Construction Sockets

Magnetic Screw Catcher/ Others

No. BH-15/BH-16/BH-17 Magnetic Screw Catcher

For sinking screws in construction and civil engineering work (i.e., joists and planks, interiors, etc.). A strong magnet assuredly holds screws, therefore can be used with long screws.



MG Magnetized

No.	Contents	Card size (mm)	JAN code (4907587)	Inner Ctn.: 10 sets
No. BH-15	Magnetic Screw Catch: 1 pc. Double End Gold Color Bit $\oplus 2 \times 65$ mm 1 pc.	135×45	354884	
No. BH-16	Magnetic Screw Catch: 1 pc. "GIZA" bit $\oplus 2 \times 65$ mm 1 pc.	135×45	354891	
No. BH-17	Magnetic Screw Catch: 1 pc. Torsion bit $\oplus 2 \times 65$ mm 1 pc.	135×45	354907	

No. BH-13 Screw Adjuster

Patented

For construction and civil engineering work. Prevents over-tightening in sheetrock, particle board, etc.

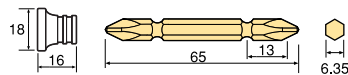


8~9.5mm



Can be used with bell-shaped screws.

Easily straightens the screw head. Users work assuredly without damaging walls, etc.



Outer Ctn. : 10 sets

Contents	Card size (mm)	JAN code (4907587)
Screw Adjuster 1 pc. Double End Gold Color Bit $\oplus 2 \times 65$ mm 1 pc.	135×45	353269



No. BH-11 Screw Catch and Adjuster

Patented

For construction and civil engineering work. Ideal for sinking screws in sheetrock, particle board, etc.



8~9.5mm



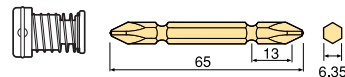
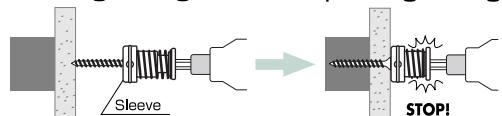
Can be used with bell-shaped screws.

Built in steel ball strongly holds even long screw, makes single hand operation possible.



Start tightening

Complete tightening!



Outer Ctn. : 10 sets

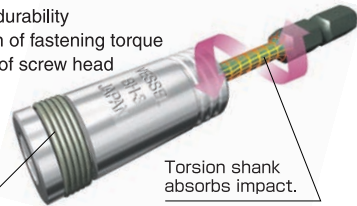
Contents	Card size (mm)	JAN code (4907587)
Screw Catch and Adjuster 1 pc. Double End Gold Color Bit $\oplus 2 \times 65$ mm 1 pc.	135×45	347053

No. BH-14 Torsion Bit Holder

Gains a torsion effect by simply mounting on a rechargeable or pneumatic driver. Coupled with a high hardness bit, work proceeds smoothly without breaks or wear.



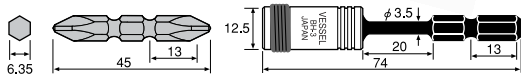
- Greatly enhanced durability
- Increased precision of fastening torque
- Reduced stripping of screw head



Assuredly holds bit with ball and spring.

Torsion shank absorbs impact.

MG Magnetized



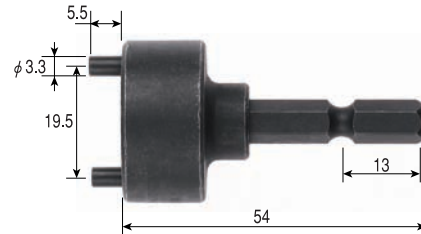
Inner Ctn.: 10 sets

Contents	Card size (mm)	JAN code (4907587)
Torsion Bit Holder 1pc. High Hardness Bit \oplus 2x45mm 1pc.	160x45	354792



Pin Wrench for Disk Nut

To loosen the disk nut of the disk grinder.
For 100mm-diameter wheel.

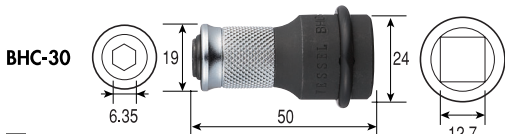
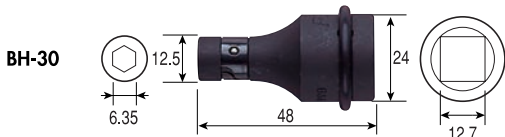


Inner Ctn.: 5 sets

Model No.	Pitch of nut holes (mm)	Pin diameter ϕ (mm)	Card size (mm)	JAN code (4907587)
A202050P	19.5	3.3	107x35	358653

Socket Anvil

Converts 12.7mm squared anvil to 6.35mm hex chuck.



■ 12.7mm

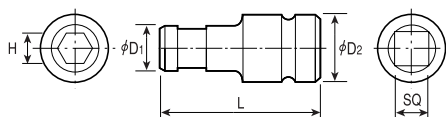
Model No.	(SQ)xA/F (H)	Card size (mm)	JAN code (4907587)
BH-30	12.7x6.35	135x60	355249
BHC-30	12.7x6.35	135x60	358639



ONE POINT

For simple loosening of disk nuts...

An opposite side 6.35mm pin wrench with hexagonal shaft that can be attached to an impact driver. Disk nuts which cannot be removed by the drill wrench that came with the impact driver can be easily loosened and removed with this unit.



■ 9.5mm
■ 12.7mm

Model No.	(SQ)xA/F (H)	Dimensions			
		D ₁	D ₂	L	
A30	9.5x6.35	13	20	45	A14-A16
	9.5x8.0	16	20	47.5	A15-A19
	12.7x6.35	13	25	49	A14-A16
	12.7x8.0	16	25	51	A15-A19

● For the order, specify the product no., size, heat treatment class and quantity.
Ex.) A30 9.5x6.351 pc.



H 6.35mm

Drill Bits & Drill Chucks

VESSEL CO., LTD. has entered a new generation of bit manufacturing, with cushion drills that minimize axial runout and drill chucks of maximum hardness, manufactured in collaboration with LFA Co. in France.



Cap Drill ^{Patented}

Our cap drills are designed to be placed over the tips of double-end bits mounted in electric impact drivers, enabling efficient drilling and screw tightening work. The cap is designed to be held between the fingers for safe, secure use.

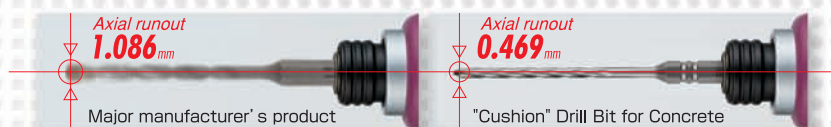


"Cushion" Drill Bit ^{Patented}

Cushion ring provides for a sharp decrease in axial runout



Axial runout has been suppressed to a minimum by a cushion ring around the shank. For example, the 1.1mm runout of a conventional concrete drill would be reduced to 0.5mm with our cushion drill bit.



Our runout-measuring instrument was used.



Cushion
Cushion ring reduces axial
runout.



Press-fit
Drill tip won't be
removed.



Color-coded
O-rings are color-coded
by size.



For impact drivers
Usable with power
impact drivers.



Bevel angle
Smoothly fits into the anvil.



X thinning
No center punch
needed.



Asymmetry tip
Asymmetry carbide tip
for quick drilling.



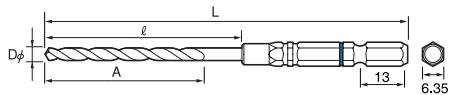
Long sized
Handy for deep or
tight spots.

"Cushion" Drill Bit for steel

Patented



Drilling holes on steel, lightweight metal,
synthetic resin, and wood. High-hardness
HSS steel blade is very durable.



Inner Ctn.: 10 sets, Outer Ctn.: 200 sets

Model No.	Dφ (mm)	ℓ (mm)	A (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
AMD-2.0	2.0	32	24	82	165×35	600011
AMD-2.5	2.5	40	30	90	165×35	600028
AMD-2.8	2.8	44	33	94	165×35	600035
AMD-3.0	3.0	44	33	94	165×35	600042
AMD-3.2	3.2	48	36	98	165×35	600059
AMD-3.3	3.3	48	36	98	165×35	600066
AMD-3.4	3.4	53	39	103	165×35	600172
AMD-3.5	3.5	53	39	103	165×35	600073
AMD-3.6	3.6	53	39	103	165×35	600189
AMD-3.7	3.7	53	39	103	165×35	600080
AMD-3.8	3.8	58	43	108	165×35	600097
AMD-4.0	4.0	58	43	108	165×35	600103
AMD-4.2	4.2	58	43	108	165×35	600110
AMD-4.3	4.3	58	47	108	165×35	600196
AMD-4.5	4.5	63	47	114	165×35	600127
AMD-4.8	4.8	69	52	120	165×35	600134
AMD-5.0	5.0	69	52	120	165×35	600141
AMD-5.2	5.2	69	52	120	165×35	600202
AMD-5.5	5.5	76	57	127	165×35	600158
AMD-6.0	6.0	76	57	127	165×35	600165

※The colors in the column in the table indicate the ring colors.

"Cushion" Drill Bit for Concrete

Patented



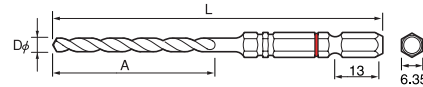
Carbide tip
Asymmetry shape



This asymmetry
shaped tip reduces the cutting resistance,
making it possible to drill at a relatively
low torque.



Drilling holes on mortar, block, brick, ALC, plaster boards.



Inner Ctn.: 10 sets, Outer Ctn.: 200 sets

Model No.	Dφ (mm)	A (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
ACD-3.0	3.0	45	102	165×35	601018
ACD-3.2	3.2	45	102	165×35	601025
ACD-3.4	3.4	45	102	165×35	601032
ACD-3.5	3.5	45	102	165×35	601049
ACD-3.8	3.8	50	107	165×35	601056
ACD-4.0	4.0	50	107	165×35	601063
ACD-4.3	4.3	50	107	165×35	601070
ACD-4.5	4.5	50	107	165×35	601087
ACD-4.8	4.8	50	107	165×35	601094
ACD-5.0	5.0	50	107	165×35	601100
ACD-5.3	5.3	65	122	165×35	601155
ACD-5.5	5.5	65	122	165×35	601117
ACD-6.0	6.0	65	122	165×35	601124
ACD-6.4	6.4	65	122	165×35	601131
ACD-6.5	6.5	65	122	165×35	601148

※The colors in the column in the table indicate the ring colors.

"Cushion" Drill Bit for steel 3-Piece Set

Inner Ctn.: 10 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
AMD3S-1	2.0 / 2.5 / 3.0mm	165×50	602305
AMD3S-2	3.0 / 3.5 / 4.0mm	165×50	602312



LONG

Long Type

Inner Ctn.: 10 sets, Outer Ctn.: 200 sets

Model No.	Dφ (mm)	A (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
ACD-3.4L	3.4	95	152	200×35	601346
ACD-3.5L	3.5	95	152	200×35	601353
ACD-4.3L	4.3	100	157	200×35	601315
ACD-4.8L	4.8	100	157	200×35	601322
ACD-5.0L	5.0	100	157	200×35	601339
ACD-6.4L	6.4	115	172	200×35	601360

※The colors in the column in the table indicate the ring colors.

"Cushion" Drill Bit for concrete 3-Piece Set

Inner Ctn.: 10 sets

Model No.	Contents	Card size (mm)	JAN code (4907587)
ACD3S-3.4	3.4mm 3pcs.	165×50	602503
ACD3S-3.5	3.5mm 3pcs.	165×50	602510
ACD3S-4.3	4.3mm 3pcs.	165×50	602527

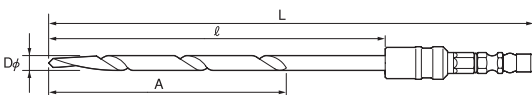


"Cushion" Drill Bit for Awl

Patented



Drilling holes on steel, wood, bamboo,
plaster, and resin boards. Also for drilling
a pilot hole on other brittle materials.
Durable straight shank can drill a hole
on hard wood.



Inner Ctn.: 10 sets, Outer Ctn.: 200 sets

Model No.	Dφ (mm)	ℓ (mm)	A (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
ATD-4	3.0	93	62	143	200×35	602015
ATD-5	4.0	103	76	153	200×35	602022
ATD-6	5.0	113	80	163	200×35	602039

※The colors in the column in the table indicate the ring colors.



H 6.35 mm

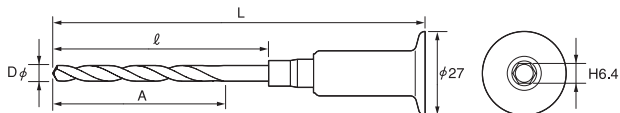
Drill Bits & Drill Chucks

Cap Drill

Patented



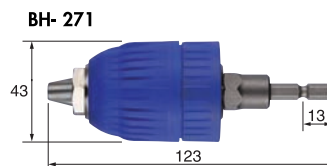
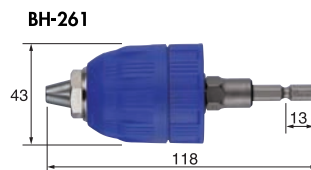
For drilling a pilot hole on sheet steel / wooden board. Our "Cap Drills" allow you to mount a drill directly onto the bit, speeding up the task of pilot hole drilling.



Model No.	Dφ (mm)	ℓ (mm)	A (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
CMD-2	2.0	32.8	24	84	165×45×29	602602
CMD-3	3.0	45	33	96	165×45×29	602619
CMD-3.5	3.5	54	39	105	165×45×29	602626
CMD-4	4.0	59	43	110.5	165×45×29	602633
CMD-5	5.0	69	52	121	165×45×29	602640

※ The colors in the column in the table indicate the ring colors.

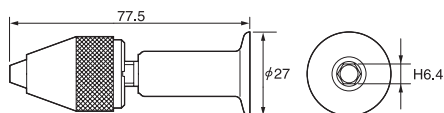
Drill Chuck Keyless Type (For power tools)



Model No.	Drill Chuck	Dia.:	140×80	Inner Ctn.: 5 sets
BH-261	Drill Chuck	0.5~10	140×80	356994
BH-271	Drill Chuck	1.5~13	140×80	357700

Cap Drill Chuck

Patented



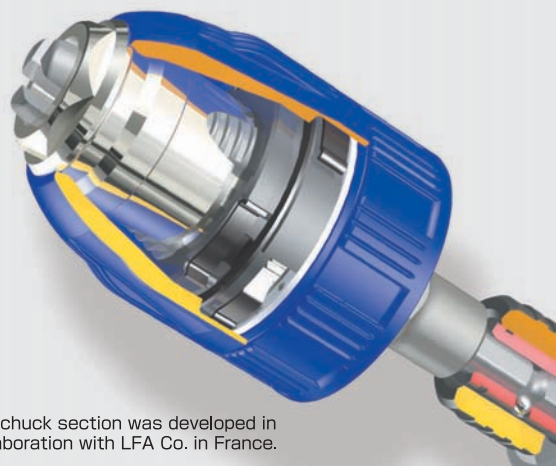
BH-9

Model No.	A (mm)	Overall Length (mm)	Card size (mm)	JAN code (4907587)
BH-9	Dia: 1.5~6.5	77.5	140×50×29	359001

ONE POINT

For high impact work.

A twin-ratchet mechanism has been employed to firmly grip the bits. Furthermore, this high-class chuck features the use of saw tooth screws to ensure a minimum of bite in during high impact work.

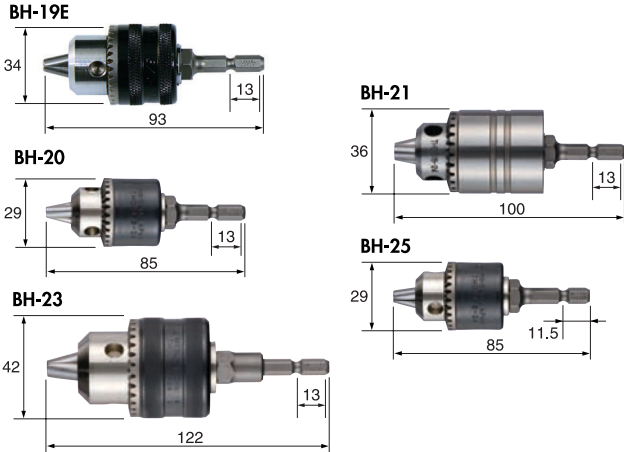


The chuck section was developed in collaboration with LFA Co. in France.

Drill Chuck (For power tools)

Mount a bit and perform all kinds of work from drilling to grinding and fastening.

- Fantastic grip. High precision.
- High durability shank.
- Key type: Attach and detach tools with the included key.
- Hybrid type: Works with or without a key.



Inner Ctn.: 5 sets

Model No.	Contents	Tip grip range (mm)	Card size (mm)	JAN code (4907587)
BH-19E	Drill Chuck (keyed) • Key	Dia.: 1.0~10	140×80	359049
BH-20	Drill Chuck (keyed) • Key	Dia.: 0.8~6.5	140×80	355324
BH-21	Drill Chuck (keyed) • Key	Dia.: 1.5~10	140×80	355331
BH-23	Drill Chuck (keyed) • Key	Dia.: 1.5~13	140×80	355836
BH-25	Drill Chuck (keyed) • Key	Dia.: 0.8~6.5	140×80	356734

For the BH-25 applicable models, see the D83 type on page 63.

Drill Chuck For Rotary Hammer and Hammer Drills

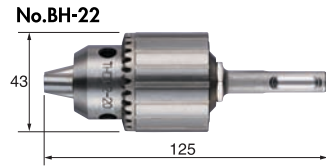
SDS plus



Inner Ctn.: 5 sets

Contents	Tip grip range (mm)	Card size (mm)	JAN code (4907587)
Drill Chuck SDS Plus (keyed)	Dia.: 1.5~13	185×100	356970

SDS plus



Inner Ctn.: 5 sets

Contents	Tip grip range (mm)	Card size (mm)	JAN code (4907587)
Drill Chuck SDS Plus (keyed)	Dia.: 2~13	185×100	355539

Spare Shaft for Drill Chucks



Applicable Models: BH-19/ 20/ 21/ 23/ 261/ 19E



Applicable Models: BH-271



Inner Ctn.: 5 sets

Model No.	Contents	Screw size	Card size (mm)	JAN code (4907587)
BH-24	Spare shank • Reversing screw	3/8-24UNF	135×35	356062
BH-29	Spare shank • Reversing screw	1/2-20UNF	135×35	356987