





















Driver, Bit and Screw Cross-Reference



JIS B 1101 JIS B 1135			JIS B 1111 JIS B 1122 JIS B 1112 JIS B 1124 JIS B 1170					JIS B 1176 JIS B 1177			JIS B 1180 JIS B 1181 JIS B 1123			JIS B 1107 JIS B 1128 JIS B 1136 JASO F116-89											
■ Slotted (Reference)			■ Phillips ■ Pozidriv ■ Supadriv					■ Hex ■ Ball point			■ Socket			■ TORX (Reference)											
																									
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm						
e 0.8	1 (※)	—	No.0	PZ + SDV	1.4 1.6 1.7 2 2.3 2.6	2.2 (ST)	1.8	—	H1.5	1.6 2	3	○ H4	2	2	—	T1	0.84	1	1	—	1.6 1.8				
e 2.5	1.6	1.8							○ H4.5 (※)	—	2.2 (※)	—	● H2	2.5	4	○ H5	2.5	2.5	2.9	★ T2	0.94	1.2	1.2	—	2
e 3	2	1.8 2.1							○ H5.5	3	3	3.5	● H2.5	3	5	○ H6	3.5	3.5	—	★ T3	1.12	1.4	1.4	—	2.2
e 4	2.2 (※) 2.5	2.4							○ H6	3.5	3.5	—	○ H7	4	4	4.2	4.8 5.5	★ T5	1.37	2	2	—	2.5	—	—
e 4.5	2.5 (※) 3	2.7	No.1	PZ + SDV	2 (2.2) (2.3) 2.5 2.6 3 (※-T)	2 2.5 3 (※-T) 2.9 (ST)	2.1 2.4 2.7	2.9 (ST)	H3	4	6	○ H8	5	5	6.3	★ T6	1.65	2	2	2	3				
e 5	3 (3.5)	3.1 3.5							○ H10	W 1/4 (※) W 1/4 (※)	7 (※) 7 (※)	—	★ T7	1.97	—	—	—	3.5	★ T8	2.3	2.5	2.5	2.5	4	
e 5.5	(3.5)	3.5 3.8							○ H11 (※)	8 (※-S) W 5/16 (※-S)	8 (※-S) W 5/16 (※-S)	—	★ T9	2.48	—	—	—	4.5	★ T10	2.72	3	2.9 3 3.5	3	5	
e 6	(3.5) 4	3.8 4.1							○ H12 (※-S)	10 (※-S) W 3/8 (※-S)	10 (※-S) W 3/8 (※-S)	8	—	★ T15	3.26	(3.5)	3.5	—	—	★ T20	3.84	4	4 4.2 4.5	4	6
e 7	4	4.5 4.8	No.2	PZ + SDV	3 (3.5) 4 (4.5) 5	3 3.5 4 4.5 3.5 (ST) 4.2 (ST) 4.8 (ST)	3.1 3.5 3.8 4.1 4.5 4.8	5 3.5 (ST) 4.2 (ST) 4.8 (ST)	H4	5	8	○ H13	8	8	8	★ T25	4.4	5	5 5.5	5	7				
e 8	4.5 (※) 5	5.1 5.5							○ H14 (※)	10 (※-S) W 5/16 (※)	10 (※-S) W 5/16 (※)	—	★ T20	3.84	4	4.2 4.5	4	6	★ T27	4.96	—	—	4.5 5	8	
e 9	6 8 (※)	5.8 6.2 6.8							○ H15	12 (※-S) W 3/8 (※)	12 (※-S) W 3/8 (※)	10	16	★ T25	4.4	5	5 5.5	5	7	★ T30	5.49	6	6 6.3	6	—
e 10	6 8 (※)	7.5 8							○ H16	14 (※-S) W 7/16 (※-S)	14 (※-S) W 7/16 (※-S)	12	20	★ T27	4.96	—	—	4.5 5	8	★ T40	6.6	8	8	8	10
			No.3	PZ + SDV	6 8 5.5 (ST) 6.3 (ST)	6 8 5.5 (ST) 6.3 (ST)	5.1 5.5 5.8 6.2 6.8	6 5.5 (ST) 6.3 (ST)	H8	10	16	○ H17 (※)	12	12	—	★ T45	7.77	8	—	8	12				
									○ H18	12	12	—	—	★ T50	8.79	10	10	10	14						
									○ H19 (※)	14 (※-S) W 1/2 (※-S)	14 (※-S) W 1/2 (※-S)	—	—	★ T50	8.79	10	10	10	14						
									○ H21	14 (※) W 1/2 (※)	14 (※) W 1/2 (※)	—	—	★ T50	8.79	10	10	10	14						
			No.4	PZ + SDV	10 12	8 (ST) 9.5 (ST)	7.5 8 9.5	—	H12	14	24	○ H22 (※)	14 (※)	14 (※)	—	★ T50	8.79	10	10	10	14				
									○ H24	16	16	—	—	★ T50	8.79	10	10	10	14						
									○ H24	16	16	—	—	★ T50	8.79	10	10	10	14						
									○ H24	16	16	—	—	★ T50	8.79	10	10	10	14						

(※)marked figures are in accordance with old JIS standards. (※・T)Refer to No. 1 for Truss screws. (ST)marked figures are in accordance with JIS standards. W: Refer to the old JIS standards for Whitworth screws.
(※・S)marked figures are in accordance with old JIS standards for small bolts/nuts.

Industrial Bits

BITS & SOCKETS





Contents

Type A Industrial Bits	61 - 68
Type B Industrial Bits	69 - 78
Precision Bits	79 - 85
Bit Holders, etc	86 - 91



About ISO

ISO 9001 : 2008

Our screwdriver manufacturing division, VESSEL SHIMANE CO., LTD is certified according to ISO standard, the global standard for quality assurance control.



ISO 14001 : 2004

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.

Industrial bits Technical

BITS & SOCKETS TECHNICAL

RoHS

Environmental measures

Pb (lead) / Cd (cadmium) / Hg (mercury) / Hexavalent chromium / PBB (polybrominated biphenyl) / PBDE (polybrominated diphenyl ether) / DEHP, BBP, DBP, DIBP (phthalate esters)

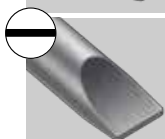
The products with this mark in this catalogue are compliant with the RoHS directives (EU) (usage limit of the above 10 substances).

Note: For the updated information on RoHS compliant products, visit our homepage, because some products or sizes are under investigation or are not compliant at the time of publication of this catalogue.



For cross recessed screws

Most commonly used in the market
JIS B4633.
Devised by PHILLIPS SCREW COMPANY.



For slotted head screws

Especially used for small screws for watches, glasses and precision equipment.
Also used for cross recessed slotted screws
JIS B4609.



For square screws

Mainly used for quake-resistant hardware.
Also good for sash doors and log houses.



For hexagonal socket screws

Used for metal products assembly, mold tools, machines, precision equipment and motorcycles, etc.



For TORX screws

Used for hard disk, automobiles and cutting tools.
VESSEL manufactures tools for TORX and TORX PLUS under the licensing agreement with Acument Intellectual Properties, LLC.



For POZIDRIV screws

Favored in Europe and used for OA devices, computers, housing materials, automobiles and airplanes.
VESSEL manufactures POZIDRIV tools under the licensing agreement with European Ind. Serv. Ltd. in UK.



For SUPADRIV screws

Favored in UK, Where this shape was devised, and used for OA devices, computers, housing materials, automobiles and airplanes. VESSEL manufactures SUPADRIV tools under the licensing agreement with European Ind. Serv. Ltd. in UK.



For hexagonal bolts and nuts

Sockets widely used for metal product assembly, automobiles, machines, houses and construction related fields



Magnetized bits

These bits can capture screws with a strong magnetic force enhancing work efficiency.



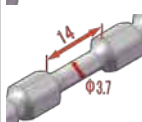
Torsion part

Torsion part absorbs the impact caused when the screw head is fully seated by an impact driver, preventing tip breakage.



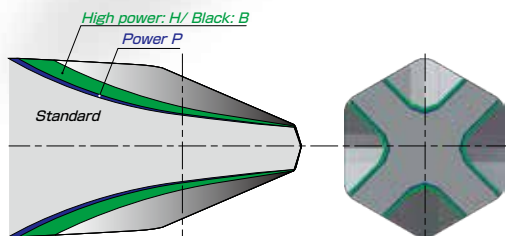
φ3.5×20mm

For soft joint such as wood screws fastening.
Suitable when fastened material is soft.



φ3.7×14mm

For hard joint such as drill fastening.
Suitable when fastened material is hard.



Name	Mark	Cross-section area of the tip	Purpose	Fitting to screws
Standard	—	Small	Wide range of works	Strongly Recommended
Power	P	Medium	For high impact	Very Good
High Power	H	Large	For widely cross recessed screws (pan head screws.)	Good
Black	B			

Sockets with a press-fitted shank

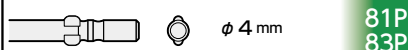
The socket and the shank are separately heat-treated at different harnesses, realizing a high torsional strength nearly two times greater than that of integrated type sockets.

Insertion part

For compact electric screw drivers



82P

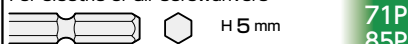


81P
83P

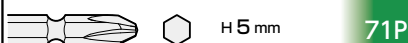


84P

For electric or air screwdrivers

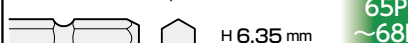


71P
85P

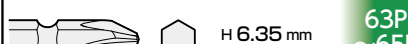


71P

For air or electric impact screwdrivers



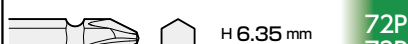
65P
~68P
86P



63P
~65P

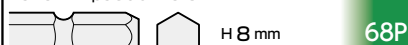


73P
~78P
86P
~88P

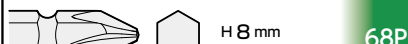


72P
73P

For air impact drivers



68P



68P

Carefully selected materials

With our long experience and research in manufacturing, we developed our own materials with balanced hardness (less wearing) and toughness (hard to chip).

Properties of the elements contained in the materials are improved to an optimal level through a heat treatment process.

C...Carbon | The more carbon is contained, the greater hardening penetration becomes. When the carbon content is 0.6 % or more, abrasion resistance increases, although hardening penetration remains the same.

Ni...Nickel | The addition of small amount of nickel increases steel's shock resistance and toughness. When added in a large amount, it becomes weak and breaks easily.

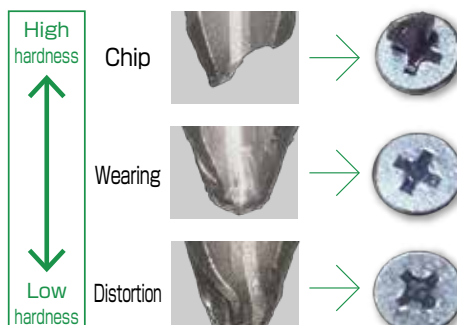
Cr...Chrome | Hardenability increases. Oxidation resistance increases. Toughness is improved.

Mo...Molybdenum | Hardenability increases. Significant decrease in toughness can be prevented.

Hardness (Heat processing classifications)

Chip, wearing and deformation, which directly affect the life of bits and sockets, can be controlled by choosing different hardnesses (heat processing classification)

Hardness (Heat processing classifications)	Examples of use for screws	Industrial use
X Possible highest hardness	Precision small screws, automated machine fitting, collated screws	Precision device assembly, light electrical automated screw tightening, collated screws for housing
H High hardness	Wood screws, small screws, tapping screws, self-drilling screws	Light electric assembly, communication acoustic device assembly, civil engineering and construction work
G Standard hardness	Tapping screws, small screws	Automobile and machine assembly, sash frame assembly
E S Low hardness	Self-drilling screws, tapping screws, small screws	Rigid joint, sheet metal assembly, heavy work



If you do not find any bits or sockets suitable for your work in our product line-up, we also offer made-to-order products according to your specifications.



- Need a longer bit. Is it OK to connect two bits by welding?
- Bit does not catch screws well. Center run-out of the screw driver is the cause?
- Want to use bits for a long time. Supplies expense is too much?
- Want to stabilize the screw tightening torque as much as possible.
- Want to use bits in narrow spaces. Parts are getting in the way of bits.
- Want to reduce the breakage of the bit tips. Having hard time in removing the broken piece of the bit tip from the screw head.
- Annoyed by stuck screws. Screw fastening machine often stops.
- Rust and oil of bits cause problems.
- Want to prevent screw stripping. It spoils precious workpieces.
- Want to introduce special screws. Tamper-proof screws are under consideration.
- Want to reduce the number of interruptions in production line due to bit changes, etc.

Best practice

Ideal fitting and improved bit tip life with tailored bits

Analyze the fitting between the tip of the bit currently used and the screw head by using a 3D measurement device.

Fitting between the screw head and a user's bit



Analyze the fitting between the tip of the tailored bit and the screw head hole by using a 3D measurement device

Fitting between the tailored bit and the screw head hole

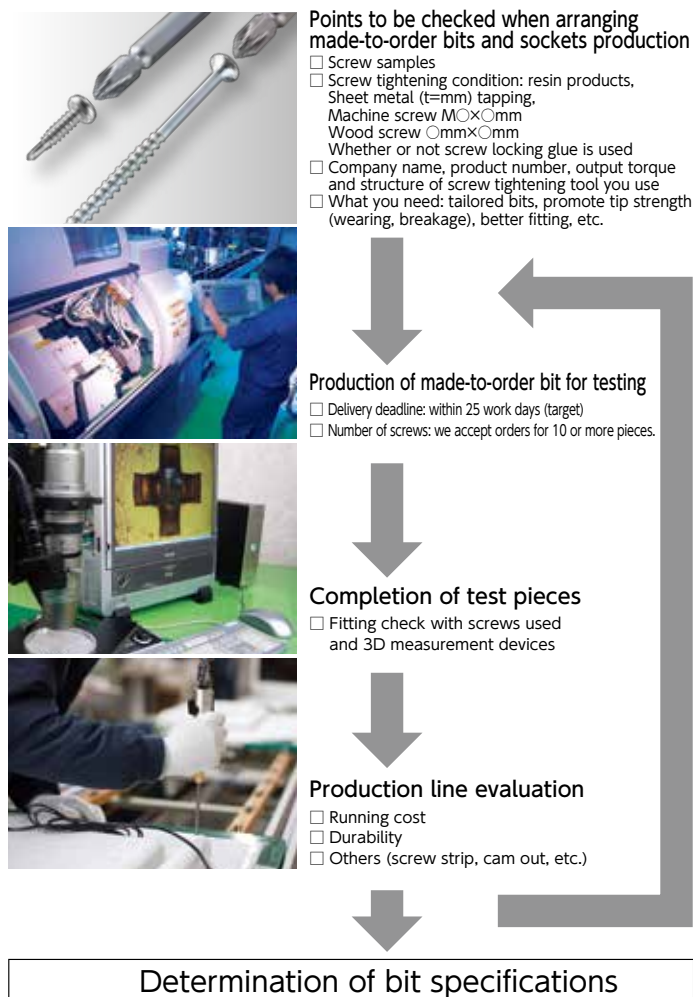


Result

The life of bits increased three times and the frequency of screw strip decreased.

*Analyses using 3D measurement devices are conducted as needed.
They are not conducted every time made-to-order bits and socket are manufactured.

Flow of arrangement and process of made-to-order bits and sockets production



Double End Bit Type A



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 be used with our ubiquitous Type A bits.



No. A14

Double End Bit

High precision bit tips...







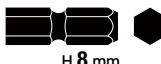
Our mission is to design and manufacture optimal bits for many kinds of screws. For such purpose, we take proactively into consideration licensing agreements for various screw types.

Also we supply bits that correspond to the continual changes in the screw recess design, by having technological exchanges with the screw punch manufacturers.

※This is for illustrative purpose.

Applicable models

Please check the model No. of your drivers before determining which bit(s) to choose.

Shape	Model No.	Page	Applicable models		
			 Air Screwdriver	 Electric Screwdriver	
 H 6.35 mm	A14	63P 64P	VESSEL GT-H4R-H4PR-H4.5-H5R-H5P-PH4-PH5-S4.5DR-PLR-PLZ-PLP-PLHII-S6MLR-S6HS-S6.5D-P4.5D-P4.5DR-P5LS-P6EXD-P6LSIII-P6HS-P6.5D-S4TR-S4TS-S4TG-S5TR-S5TB-S5TG-S5TS-S4.5XD-P4.5XD-PLXD-P60XD-P6LXD-S6LXD-S60XD-PLIXD-P5XD Hitachi Koki WH 12AB2-12H2 NPK ND-○○○Y NPW-○○○Y SD-4 Fuji Kuki FLT series D-10-D-20 FPT series D-10 FL series D-10 FPW series D-10 FW series D-10-D-20-D-60-D-70-D-80 Makita AD604-AD605H	VESSEL VE-5000-5000P-6000-6000P Toshiba CI-144VBKS Hitachi Koki WH 7DL-9DM2-10DL-10DAL-14DSL2-14DBAL2-14DDL-14DDL2-18DBAL2-18DDL-18DDL2-14DBEL-18DBEL-14DKL-18DKL-10DCL-14DCL-12H2-12AB2-12VE WM 10DBL-14DBL-18DBL WP 14DSL-12VA DB 3DL2 FWH 7DL-10DAL-10DFL-14DGL-14DSAL-12DC2-12VD-10DCL FDB 3DL2-10DFL W 4SA2-5SA-8V (Old model) WH 6DC-9DM-12DM-12DAF2-12DM2-12DMR-12DK-12DMR2-14DMRL-14DBL-14DBAL-18DBDL-8DYA(No.2 only available)-14DH-14DM-14DML-14DMR-14DSL-18DL-12VA-12VB-12VC3-12VC2-12VC-12VD WP 10A-12DM W 4SA-5VC-5VD-5VE-6VC-6VH-6VJ-6M-6MV-6MV2 ●The models in blue letters are the screwdrivers for light steel substrates and boards. It is recommended to use a 45mm long bit.	
	A14P	63P		Makita TD 0220-021D-061D-090D-110D-135D-134D-146D-134DX2-146DX2-134DSHX-160D-170D-138D-149D-136D-137D-146D-147D-148D TL 060D-061D TP 140D-131D-141D TS 131D-141D 6955-6963SPK DF 010D-030D-031D Panasonic EZ 75A7-75A1-7544-7207-6506-7545-7521-7520-7548-6507-7410-7411-7420-6220 Ryobi BD-361 BID-1100-180-1810-1228-1229-1250-1260-1415-1416-1417-1418-143-1440-145-1805-1806 CID-1100 ID-140 Tonichi AUR5N MAX PJ-ID144-SD101 Yokota YBX-50B	
	M-A14				
	A14H				
	A14B				
	AZ14				
	AS14				
	A14R	64P		65P	Yokota YLa60B-70B-80B YLT50B-60B-70B-60BL-70BL Y-40SB-41B-46B YX-80B-180B-180SB-280B-380B-500B-180SB-280SB-380SB-500SB YBX-50B YD-400SCB-4.5LBZ-6WBZK-600SBZ-40PBZ-4.5PBZK-600PBZ-650PBZ-65PTBZ-65PBZ-670B-670B-F-670B-R-670B-RF Yutani D-6SPAL-5WPEA-6WSPEA-6WSHPEA-600SHEA-604A-8WPE-6SSAEL-6WSHSA DH-6PL-4.5PEA-6PLE-4.5SA-6SELA HPW-4D-6D-6αD-8αD-4SD-6SD-6αSD ETC-10HD-15HD-5HSD-10HSD MAX AT-ID6P1-HF-ID7P1
	AL14				
	AT14				
	AT14P	65P		66P	Yokota YLa60B-70B-80B YLT50B-60B-70B-60BL-70BL Y-40SB-41B-46B YX-80B-180B-180SB-280B-380B-500B-180SB-280SB-380SB-500SB YBX-50B YD-400SCB-4.5LBZ-6WBZK-600SBZ-40PBZ-4.5PBZK-600PBZ-650PBZ-65PTBZ-65PBZ-670B-670B-F-670B-R-670B-RF Yutani D-6SPAL-5WPEA-6WSPEA-6WSHPEA-600SHEA-604A-8WPE-6SSAEL-6WSHSA DH-6PL-4.5PEA-6PLE-4.5SA-6SELA HPW-4D-6D-6αD-8αD-4SD-6SD-6αSD ETC-10HD-15HD-5HSD-10HSD MAX AT-ID6P1-HF-ID7P1
	ST14				
 H 6.35 mm	A16	65P 66P	Yokota YLa60B-70B-80B YLT50B-60B-70B-60BL-70BL Y-40SB-41B-46B YX-80B-180B-180SB-280B-380B-500B-180SB-280SB-380SB-500SB YBX-50B YD-400SCB-4.5LBZ-6WBZK-600SBZ-40PBZ-4.5PBZK-600PBZ-650PBZ-65PTBZ-65PBZ-670B-670B-F-670B-R-670B-RF Yutani D-6SPAL-5WPEA-6WSPEA-6WSHPEA-600SHEA-604A-8WPE-6SSAEL-6WSHSA DH-6PL-4.5PEA-6PLE-4.5SA-6SELA HPW-4D-6D-6αD-8αD-4SD-6SD-6αSD ETC-10HD-15HD-5HSD-10HSD MAX AT-ID6P1-HF-ID7P1	Makita TD 0220-021D-061D-090D-110D-135D-134D-146D-134DX2-146DX2-134DSHX-160D-170D-138D-149D-136D-137D-146D-147D-148D TL 060D-061D TP 140D-131D-141D TS 131D-141D 6955-6963SPK DF 010D-030D-031D Panasonic EZ 75A7-75A1-7544-7207-6506-7545-7521-7520-7548-6507-7410-7411-7420-6220 Ryobi BD-361 BID-1100-180-1810-1228-1229-1250-1260-1415-1416-1417-1418-143-1440-145-1805-1806 CID-1100 ID-140 Tonichi AUR5N MAX PJ-ID144-SD101 Yokota YBX-50B	
	M-A16	66P			
	D81	66P 67P			
	V	66P 67P			
	A20	67P			Yokota YLa60B-70B-80B YLT50B-60B-70B-60BL-70BL Y-40SB-41B-46B YX-80B-180B-180SB-280B-380B-500B-180SB-280SB-380SB-500SB YBX-50B YD-400SCB-4.5LBZ-6WBZK-600SBZ-40PBZ-4.5PBZK-600PBZ-650PBZ-65PTBZ-65PBZ-670B-670B-F-670B-R-670B-RF Yutani D-6SPAL-5WPEA-6WSPEA-6WSHPEA-600SHEA-604A-8WPE-6SSAEL-6WSHSA DH-6PL-4.5PEA-6PLE-4.5SA-6SELA HPW-4D-6D-6αD-8αD-4SD-6SD-6αSD ETC-10HD-15HD-5HSD-10HSD MAX AT-ID6P1-HF-ID7P1
	A20-5				
	SB	68P			Yokota YLa60B-70B-80B YLT50B-60B-70B-60BL-70BL Y-40SB-41B-46B YX-80B-180B-180SB-280B-380B-500B-180SB-280SB-380SB-500SB YBX-50B YD-400SCB-4.5LBZ-6WBZK-600SBZ-40PBZ-4.5PBZK-600PBZ-650PBZ-65PTBZ-65PBZ-670B-670B-F-670B-R-670B-RF Yutani D-6SPAL-5WPEA-6WSPEA-6WSHPEA-600SHEA-604A-8WPE-6SSAEL-6WSHSA DH-6PL-4.5PEA-6PLE-4.5SA-6SELA HPW-4D-6D-6αD-8αD-4SD-6SD-6αSD ETC-10HD-15HD-5HSD-10HSD MAX AT-ID6P1-HF-ID7P1
	MA20				
	MA20S	86P			Yokota YLa60B-70B-80B YLT50B-60B-70B-60BL-70BL Y-40SB-41B-46B YX-80B-180B-180SB-280B-380B-500B-180SB-280SB-380SB-500SB YBX-50B YD-400SCB-4.5LBZ-6WBZK-600SBZ-40PBZ-4.5PBZK-600PBZ-650PBZ-65PTBZ-65PBZ-670B-670B-F-670B-R-670B-RF Yutani D-6SPAL-5WPEA-6WSPEA-6WSHPEA-600SHEA-604A-8WPE-6SSAEL-6WSHSA DH-6PL-4.5PEA-6PLE-4.5SA-6SELA HPW-4D-6D-6αD-8αD-4SD-6SD-6αSD ETC-10HD-15HD-5HSD-10HSD MAX AT-ID6P1-HF-ID7P1
	HA				
	HAM	87P			Yokota YLa60B-70B-80B YLT50B-60B-70B-60BL-70BL Y-40SB-41B-46B YX-80B-180B-180SB-280B-380B-500B-180SB-280SB-380SB-500SB YBX-50B YD-400SCB-4.5LBZ-6WBZK-600SBZ-40PBZ-4.5PBZK-600PBZ-650PBZ-65PTBZ-65PBZ-670B-670B-F-670B-R-670B-RF Yutani D-6SPAL-5WPEA-6WSPEA-6WSHPEA-600SHEA-604A-8WPE-6SSAEL-6WSHSA DH-6PL-4.5PEA-6PLE-4.5SA-6SELA HPW-4D-6D-6αD-8αD-4SD-6SD-6αSD ETC-10HD-15HD-5HSD-10HSD MAX AT-ID6P1-HF-ID7P1
	HD-71 × 45				
 H 6.35 mm	D830082 D831045 D831075 D832075 D832100 D832150	108P	Panasonic EZ 6220-6225-7410-7411 Ryobi D-500		
 H 8 mm	A15	68P	VESSEL GT-P8D-P10SII-P80XD Hitachi Koki WH 14DA Panasonic EZ6680		
	A19	68P			
 H 8 mm	V5				



H 6.35 mm

No. A14 Double End Bit

- If one end breaks, the other end can be used.
- A wide variety of bits according to different heat treatment.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1× 45	H	10	100	413029
65	H	10	100	413031
65	G	10	100	413032
110	H	10	100	413231
110	G	10	100	413232
⊕ 2× 45	X	10	100	413039
45	H	10	100	413041
45	G	10	100	413040
65	X	10	100	413047
65	H	10	100	413042
65	G	10	100	413043
65	E	10	100	413045
110	X	10	100	413262
110	H	10	100	413241
110	G	10	100	413242
110	E	10	100	413243
150	X	10	100	413263
150	H	10	100	413245
150	G	10	100	413246
150	E	10	100	413247
200	X	10	150	413264
200	H	10	150	413249
200	G	10	150	413248
200	E	10	150	413250
300	G	10	100	413255
⊕ 3× 45	H	10	100	413051
45	E	10	100	413050
65	X	10	100	413054
65	H	10	100	413052
65	E	10	100	413053
110	H	10	100	413252
110	E	10	100	413251

No. A14P Double End Bit (Power tip)

- If one end breaks, the other end can be used.
- Well balanced combination between tip precision and strength.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 65	H	10	100	415331
110	H	10	100	415333
150	H	10	100	415334

No. A14H TAPPING Bit (High power tip)

- If one end breaks, the other end can be used.
- Reinforced tip for tapping work.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 65	H	10	100	413351
110	H	10	100	413355
150	H	10	100	413359

No. M-A14 Double End Bit (Magnetized)

- If one end breaks, the other end can be used.
- Strongly magnetized.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1× 45	H	10	100	413401
65	H	10	100	413402
110	H	10	100	413407
⊕ 2× 45	H	10	100	413403
45	G	10	100	413404
65	H	10	100	413405
65	G	10	100	413406
110	H	10	100	413408
110	G	10	100	413411
150	H	10	100	413409

No. A14B TAPPING Bit (Black tip)

- If one end breaks, the other end can be used.
- Reinforced tip for tapping work.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 50	S	10	100	413141
75	S	10	100	413142
100	S	10	100	413341
150	S	10	100	413342

No. AZ14 GIZA Bit

PAT.

- If one end breaks, the other end can be used.
- Jagged tip prevents cam-out.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 65	H	10	100	413360
110	H	10	100	413361

No. AS14 SLENDER Bit

- If one end breaks, the other end can be used.
- Tapered tip allows for easy view.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1× 65	H	10	100	413367
⊕ 2× 45	H	10	100	413366
65	H	10	100	413364
110	H	10	100	413365

 H 6.35 mm

No. A14 Square Double End Bit

- If one end breaks, the other end can be used.
- Specially-shaped tip prevents the bit from getting stuck.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
SQ 1× 65	H	10	100	413380
SQ 2× 65	H	10	100	413381
110	H	10	100	413383
* SQ 3× 65	H	10	100	413385
110	H	10	100	413382
150	H	10	100	413384
150	H	10	100	413386

No. A14R Square Double End Bit

- If one end breaks, the other end can be used.
- With a ring attached preventing the bit from getting stuck.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
* SQ 1× 65	H	10	100	413387
* SQ 2× 65	H	10	100	413388
* 110	H	10	100	413389
* 150	H	10	100	413390
* SQ 3× 65	H	10	100	413391
* 110	H	10	100	413392
* 150	H	10	100	413393

No. A14 SUPADRIV Bit

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



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
SDV1× 65	H	10	100	636101
SDV2× 45	H	10	100	636105
65	H	10	100	636106
SDV3× 65	H	10	100	636111

 H 6.35 mm

No. AL14 ALFA Bit

- If one end breaks, the other end can be used.
- Modest torsion effect created by tempering treatment on the ball grooves.

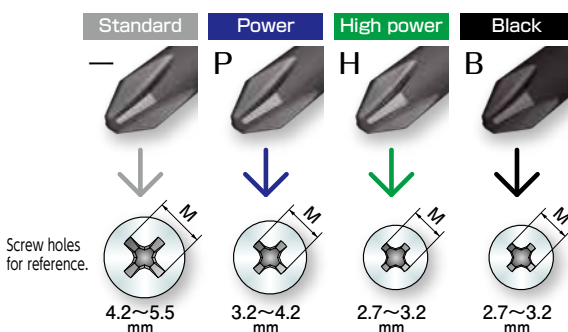
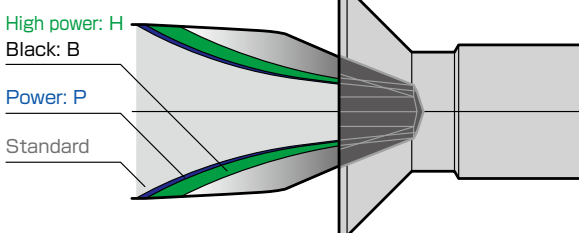


Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 65	H	10	100	413369
110	H	10	100	413370

One point

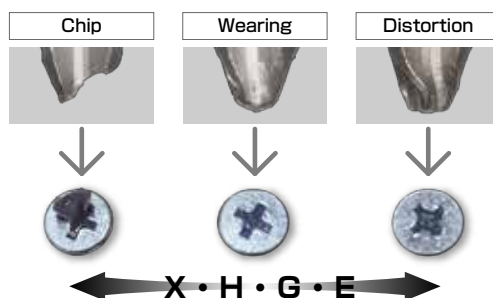
Bit selection I

- Selecting Phillips tip suitable for screw head hole



* M dimension : the size of a cross recess on a screw head viewed from directly above

- Selecting Phillips tip according to hardness classification

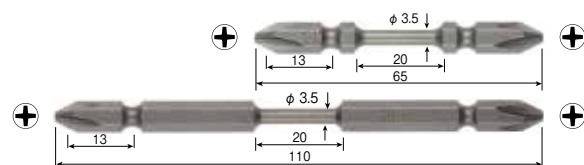


← X · H · G · E →



No. AT14 TORSION Bit

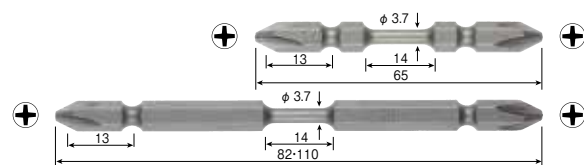
- If one end breaks, the other end can be used.
- For soft joint such as wood screws.



Size Tip×φ×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2×3.5× 65	H	10	100	413143
110	H	10	100	413144

No. AT14P TORSION Bit (Power tip)

- If one end breaks, the other end can be used.
- For hard joint such as drill screws.

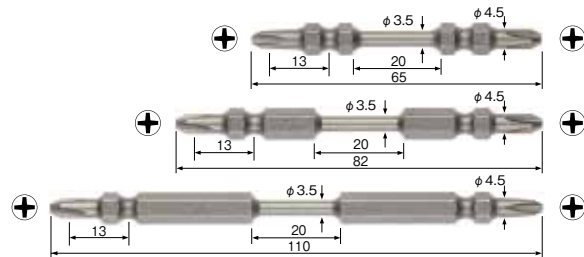


Size Tip×φ×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2×3.7× 65	X	10	100	415361
82	X	10	100	415362
110	X	10	100	415363

No. ST14 SLENDER TORSION Bit

PAT.

- If one end breaks, the other end can be used.
- Thin tip allows for easy view. For soft joint such as wood screws.

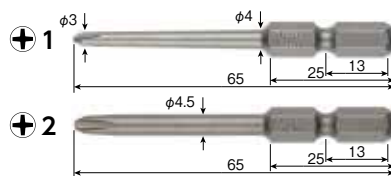


Size Tip×φ×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1×3.5× 65	H	10	100	413374
⊕ 2×3.5× 65	H	10	100	413375
82	H	10	100	413377
110	H	10	100	413376



No. A16 Recessed Bit

- Recessed type. Thin shank allows for use in narrow spaces.



Size Tip×φ×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1×3 × 65	H	10	100	415061
⊕ 2×4.5× 65	H	10	100	415066

One point

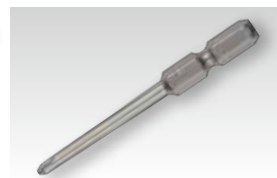
Bit selection II

- Selection according to bit shapes



Double End Bit

If one end breaks, the other end can be used.



Recessed Bit / Bit

Thin shank improves workability in narrow spaces.

- Selection according to torsion effect



Impact is absorbed by the torsion effect at the slot part which receives tempering treatment.

Hard Joint



Soft Joint



Impact is absorbed by the torsion part (φ3.5 × 20mm).

Soft Joint

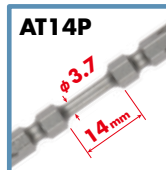


Hard Joint

When an instantaneous impact is given when the head of drill screw and tapping screw is fully seated

Soft Joint

When load is gradually increased such as in fastening wood screws



Impact is absorbed by the torsion part (φ3.7 × 14mm).

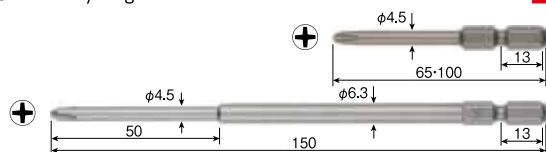
Hard Joint





No. M-A16 Recessed Bit (Magnetized)

- Recessed type. Thin shank allows for use in narrow spaces.
- Powerfully magnetized.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
2×4.5×65	H	10	100	415311
100	H	10	100	415312
150	H	10	100	415313

No. A16 Hex Bit

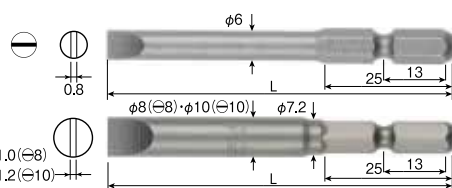
- For assembly work focusing on workability.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
H 2×65	H	10	100	481090
110	H	10	100	481100
2.5×65	H	10	100	481091
110	H	10	100	481101
3×65	H	10	100	481092
110	H	10	100	481102
4×65	H	10	100	481093
110	H	10	100	481103
5×65	G	10	100	481094
110	G	10	100	481104
6×65	G	10	100	481096
110	G	10	100	481105

No. A16 Recessed Bit

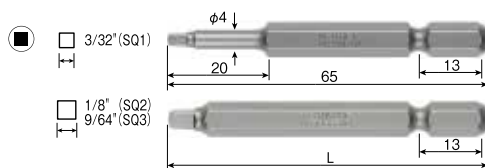
- For assembly work focusing on workability.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
6×45	G	10	100	415071
70	G	10	100	415072
8×45	G	10	300	415171
70	G	10	250	415172
10×52	G	10	200	415271
70	G	10	200	415272

No. A16 Square Bit

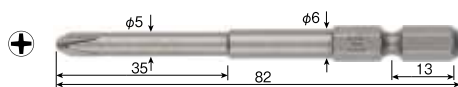
- For assembly work focusing on workability.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
SQ 1×4×65	H	10	100	481001
SQ 2×65	H	10	100	481002
110	H	10	100	481005
150	H	10	100	481008
SQ 3×65	H	10	100	481003
110	H	10	100	481006
150	H	10	100	481009

No. D81 Recessed Bit

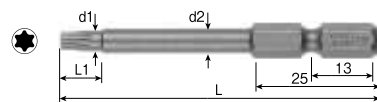
- Recessed type. Thin shank allows for use in narrow spaces.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
2×82	X	10	100	482040
82	H	10	100	482041
82	E	10	100	482042

No. V TORX Bit

- For TORX screws used in the automotive industry.



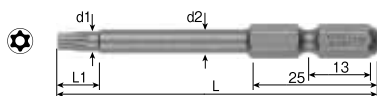
Size Tip×Overall Length (mm)	d1	L1	d2	(mm)	Inner Ctn.	EDP No.
T6 × 65	1.65	1.95	6.5	4.0	10	634997
110	1.65	1.95	6.5	4.0	10	634998
T8 × 65	2.3	2.60	7.0	4.5	10	634999
110	2.3	2.60	7.0	4.5	10	635000
T10× 65	2.72	3.02	7.5	4.5	10	635120
110	2.72	3.02	7.5	4.5	10	635121
T15× 65	3.26	3.56	7.5	4.5	10	635125
110	3.26	3.56	7.5	4.5	10	635126
T20× 65	3.84	4.14	7.5	5.0	10	635130
110	3.84	4.14	7.5	5.0	10	635131
T25× 65	4.4	4.70	8.0	5.0	10	635135
110	4.4	4.70	8.0	5.0	10	635136
T27× 65	4.96	5.26	8.0	5.5	10	635140
110	4.96	5.26	8.0	5.5	10	635141
T30× 65	5.49	5.79	8.5	6.0	10	635145
110	5.49	5.79	8.5	6.0	10	635146
T40× 65	6.6	H6.35	—	H6.35	10	635150
110	6.6	H6.35	—	H6.35	10	635151

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. V TORX Bit (Tamper-Proof)

- For TORX screws used in the automotive industry.
- With a round hole for tamper-proof.

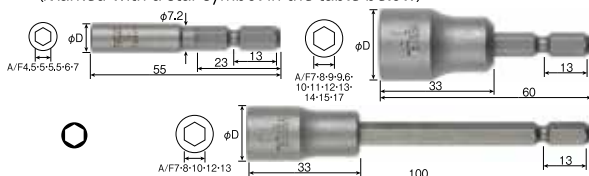


Size Tip×Overall Length (mm)	mm	d1	L1	d2 (mm)	Inner Ctn.	EDP No.
T8H × 65	2.3	2.60	7.0	4.5	10	635032
110	2.3	2.60	7.0	4.5	10	635033
T10H× 65	2.72	3.02	7.5	4.5	10	635001
110	2.72	3.02	7.5	4.5	10	635002
T15H× 65	3.26	3.56	7.5	4.5	10	635005
110	3.26	3.56	7.5	4.5	10	635006
T20H× 65	3.84	4.14	7.5	5.0	10	635010
110	3.84	4.14	7.5	5.0	10	635011
T25H× 65	4.4	4.70	8.0	5.0	10	635015
110	4.4	4.70	8.0	5.0	10	635016
T27H× 65	4.96	5.26	8.0	5.5	10	635020
110	4.96	5.26	8.0	5.5	10	635021
T30H× 65	5.49	5.79	8.5	6.0	10	635025
110	5.49	5.79	8.5	6.0	10	635026
T40H× 65	6.6	H6.35	—	H6.35	10	635030
110	6.6	H6.35	—	H6.35	10	635031

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. A20 Socket Bit

- Socket bit for assembly.
- Strong resistance to shank breakage with press-fit method.
(Marked with a star symbol in the table below)



Size Tip×Overall Length (mm)	φD	Hole depth	Inner Ctn.	Outer Ctn.	EDP No.
A/F 4.5× 55	7.5	20	10	250	416080
5 × 55	8.5	20	10	250	416081
5.5× 55	9	20	10	250	416082
100	9	25	10	250	416281
6 × 55	10	20	10	200	416083
100	10	25	10	200	416282
7 × 11× 55	11	20	10	200	416084
100	11	25	10	150	416280
7 × 60 ☆	13.5	22	10	200	416095
100 ☆	13.5	25	10	150	416283
8 × 60 ☆	13.5	22	10	200	416085
100 ☆	13.5	22	10	150	416284
9 × 60 ☆	15	22	10	150	416086
9.6× 60 ☆	15	22	10	150	416087
10 × 60 ☆	16	22	10	150	416088
100 ☆	16	22	10	100	416286
11 × 60 ☆	17	22	10	150	416089
12 × 60 ☆	18	22	10	100	416090
100 ☆	18	22	10	100	416287
13 × 60 ☆	19	22	10	100	416091
100 ☆	19	22	10	50	416288
14 × 60 ☆	20	22	10	100	416092
15 × 60 ☆	21	22	10	50	416093
17 × 60 ☆	23	22	10	50	416094

☆...Press-fit type

No. A20-5 Socket Bit

- Short type socket bit to use in narrow spaces, such as on the periphery of automobile engines.

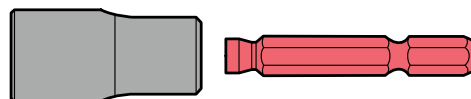


Size Tip×Overall Length (mm)	φD	Drilling holes depth	Inner Ctn.	Outer Ctn.	EDP No.
* A/F 10× 50	16	10	10	150	416396

One point

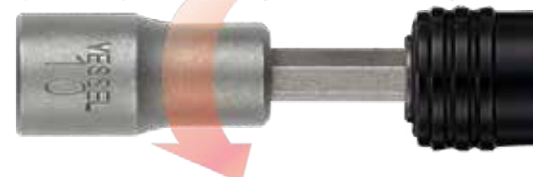
Features of press-fit type sockets

(Press-fit type: marked with a star symbol in the table of each model)



MEDIUM HARDNESS
Improves durability of socket

HIGH HARDNESS
Strong resistance to shank breakage



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.

Prevents shank breakage

Torsion moment with a static torque

Normal type

75
N·m

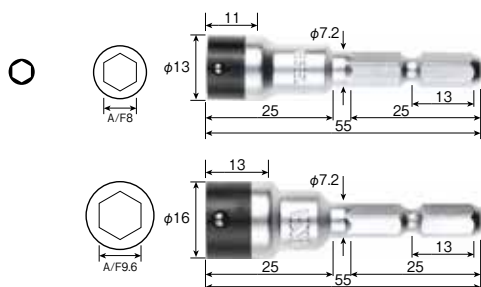
Press-fit type

107
N·m

 H 6.35 mm

No. SB Nut Setter (Ball Lock)

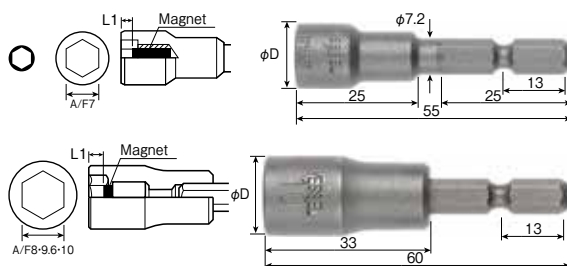
- Socket bit for Hex screws.
- Ball-lock type for minimum cutting particles.



Size Tip×Overall Length	(mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F 5/16" (8mm) × 55 (For screw dia. 5mm)	5	50	482531	
A/F 3/8" (9.6mm) × 55 (For screw dia. 6mm)	5	50	482532	

No. MA20 Socket Bit (Press-Fit Magnet)

- Socket bit for Hex screws.
- Holds the screw with a strong magnet, to prevent the screws from dropping.



Size Tip×Overall Length	(mm)	φD	L1	Inner Ctn.	Outer Ctn.	EDP No.
A/F 7 × 55 (For screw dia. of 4mm)	☆	13	2.5	10	200	482510
A/F 8 × 60 (For screw dia. of 5mm)	☆	13.5	3.17	10	150	482511
A/F 9.6 × 60 (For screw dia. of 6mm)	☆	15	3.96	10	150	482512
A/F 10 × 60 (For screw dia. of 6mm)	☆	16	3.96	10	150	482513

☆Press-fit type.

No. MA20S Socket Bit (Side Magnet)

- Socket bit for Hex screws.
- Holds the screw with side magnet, to prevent the screws from dropping.

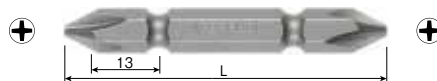


Size Tip×Overall Length	(mm)	φD	Drilling holes depth	Inner Ctn.	Outer Ctn.	EDP No.
A/F 5/16" (8mm) × 55	13	20	10	100	482401	
A/F 3/8" (9.6mm) × 55	16	20	10	100	482402	
A/F 10mm × 55	16	20	10	100	482403	

 H 8 mm

No. A15 Double End Bit

- If one end breaks, the other end can be used.
- High strength with 8mm hexagonal shank.

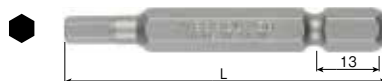


Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 65	G	10	250	414041
110	G	10	150	414042
⊕ 3× 65	E	10	250	414051
110	E	10	150	414052

 H 8 mm

No. A19 Hex Bit

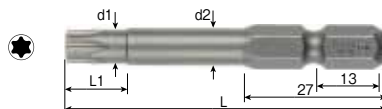
- For assembly work focusing on workability.
- High strength with 8mm hexagonal shank.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
H 5× 65	G	10	250	481191
6× 65	G	10	250	481192
130	G	10	100	481196
8× 65	G	10	250	481193
130	G	10	100	481197
10× 65	S	10	200	481194
130	S	10	100	481198

No. V5 TORX Bit

- For TORX screws used in the automotive industry.
- High strength with 8mm hexagonal shank.



Size Tip×Overall Length (mm)	d1	L1	d2	(mm)	Inner Ctn.	EDP No.
T25× 65	4.4	4.70	10.0	6.0	10	635215
110	4.4	4.70	10.0	6.0	10	635216
T27× 65	4.96	5.26	11.5	6.5	10	635220
110	4.96	5.26	11.5	6.5	10	635221
T30× 65	5.49	5.79	11.5	6.5	10	635225
110	5.49	5.79	11.5	6.5	10	635226
T40× 65	6.6	6.90	11.5	7.5	10	635230
110	6.6	6.90	11.5	7.5	10	635231
T45× 65	7.77	8.0	—	8.0	10	635235
110	7.77	8.0	—	8.0	10	635236
T50× 65	8.79	H8	—	H8	10	635240
110	8.79	H8	—	H8	10	635241

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. B35

Bit Type B

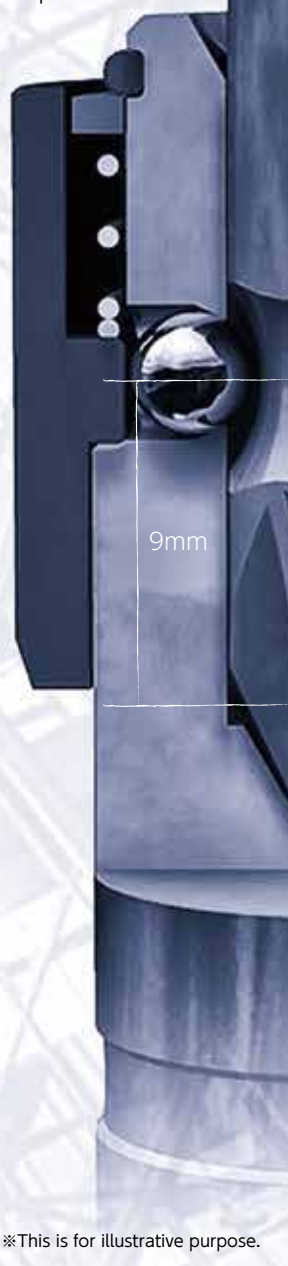


The Type B insertion entry is designed to work with the dimensions most commonly used by air tool manufacturers. There are some models that will not accept insertion of the double-head types, depending on the shape of the insertion chuck. Please make your selections while referring to the specifications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



No. B35
Bit

Bits manufactured to meet specifications based on ISO.
Width across flats 6.35 mm, hexagonal.



※This is for illustrative purpose.

HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS




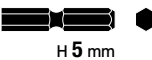



AIR TOOLS

STATIC SOLUTIONS

GASOLINE ENGINE TOOLS

Applicable models

Please check the model No. of your drivers before determining which bit(s) to choose.

Shape	Model No.	Page	Applicable models	
			 Air Screwdriver	 Electric Screwdriver
 H 5 mm	B36	71P	VESSEL GT-S5TFR-S5TFB-S5TFG-S4TFR-S4TFS-S4TFG Uryu US-40-3.5A-4-4PB/ US-LT○○A/AL series Yokota YD-3-4-400SC	VESSEL VE-4000-4000P-4500-4500P
 H 5 mm	B34	71P	VESSEL GT-S4TFR-S4TFS-S4TFG-S5TFR-S5TFB-S5TFG Uryu US-40-3.5A-4-4PB (Except B44 Socket Bit Overall Length 70mm) US-LT○○A/AL series Yokota YD-3-4-400SC	VESSEL VE-4000-4000P-4500-4500P Hios PG-7000, BLG-5000BC1/-15/-20/-HT BLG-5000/-15/-20/HT, BL-5000/-15/-20-5020-7000/-20 CL-4000-6000-6500-7000 SS-4000-6500-7000, α-4500-5000-6500 CD-4000-5000-6000-7000 VB-1510/-18-1820-3012-2008-3020 VZ-1510-1812-1820-3012-3007 Delvo DLV ○○○○-EJN/-DJN/-DJE DLV 7(8)120-SPC-7(8)130-SPC-7(8)140-SPC- 7(8)241-SPC-7(8)231-SPC DLV 30LL(P)-SPC-30SL(P)-SPC-30HL(P)-SPC Hitachi Koki WT 3G/3GP-4G/4GP-5G/5GP Kanon 3K-120L-180L-180LF-120P-180P-180PF 9K-130P-140P-130PF-131L-131LF-131P-131PF 5KD-200-300 Panasonic FE-A310S-A310MH-A310L-A111L-A111MH-A111M-A710AXN-A710MHN
	N			
	B44			
 H 6.35 mm	B43	72P	Uryu UX-U-UW-ALPHA-UL-UEP-UAT-UA-UDP all driver type US-350W-450WB-5-50-5PB-○○W/PW-LT○○B/BL/PB	Yokota YBX-50A
	M-B43		NPK ND-○○○X, NPW-○○○X	Tonichi AUR5N-U (Except U1000CN) -UR-DU
	B43P		Fuji Kuki FLT series D-1-D-2 FPT series D-1, FL series D-1, FPW series D-1 FW series D-1-D-2-D-6-D-7-D-8, FD series D-4-D-5	●Following Tool models are applicable only for the single end bits. Hios PG-7000 BLG-4000BC1-5000BC1/-15/-20/-HT BLG-4000-5000/-15/-20/HT BL-3000-5000/-15/-20-5020-7000/-20 CL-4000-6000-6500-7000-9000 SS-4000-6500-7000 α-4500-5000-6500 CD-4000-5000-6000-7000 VB-1510/-18-1820-3012-4504-2008-3020 VBH-1820-3012 VZ-1510-1812-1820-3012-3007-4504-4506 VZH-1820-3012 Delvo DLV ○○○○-EKN/-DKN/-DKE DLV 8150-SPC-7(8)251-SPC DLV 45LL(P)-SPC-45SL(P)-SPC-70LL(P)-SPC Uryu UDBP-AF-TA-A
	B43H			
	B43B			
	BT43	73P	Yutani D-6SPBL-5WPB-6WSPB-6WSPB-600SHEB- 604B-8WPE-6SSBEL-6WSHBS DH-6PL-4.5PEB-6PLE-4.5SB-6SELB HPW-4D-6D-6αD-8αD-4SD-6SD-6αSD	
	BT43P			
 H 6.35 mm	B35	73P ~76P	Yokota TKa60A-70A-80A YEX-120A-150A-501A-100SA-120SA-150SA- 300SA-500SA YLa60A-70A-80A YLT50A-60A-70A-60AL-70AL Y-40SA-41A-46A YX-80A-180A-280A-380A-500A-280A-380A- 500A-180SA-280SA-380SA-500SA-280CA-500CA YBX-50A YD-400SCA-500SCA-5PHCA-3A-4A-4.5SZ-5A- 4.5LAZ-6WAZK-600SZ-40PZ-4.5PZK-600PZ- 650PZ-65PTZ-65PZ-670A-670A-F-670A-R-670A-RF	Delvo DLV 8150-SPC-7(8)251-SPC DLV 45LL(P)-SPC-45SL(P)-SPC-70LL(P)-SPC Uryu UDBP-AF-TA-A Kanon 9K-150P
	J	74, 75P		
	IP	75P		
	X5000	76P		
	B45	77P	Atlas-Copco LUM-LUF-LUD-TWIST-COMBI series	
	MB45			
	MB45S			
	MB45D	78P		
	HB	86P		
	HBM			
	DBHM			
	MMBC	88P		
 H 6.35 mm	B39	76P	VESSEL GT- H4RC-H5RC-S6CD-PLRC Uryu US-3.5ACB-4CA-5CA- LT30B-○○C-LT40B-○○C Yutani D-6WHCL Yokota YD-600L YX-280CA-500CA	Kanon (Old model) CN 60LTDK~N 10LTDK(N6~N100LTDK) CN 60STDK~N 10STDK(N6~N100STDK) CN 100~CN 500DPK(N10~N50DPK) CN 100~CN 500DPK-L(N10~N50DPK(L)) CN 15/CN 30LTDK-H(N1.5/N3LTDK-H) DTDK-CN 500EXL(DDTK-N5EXL)

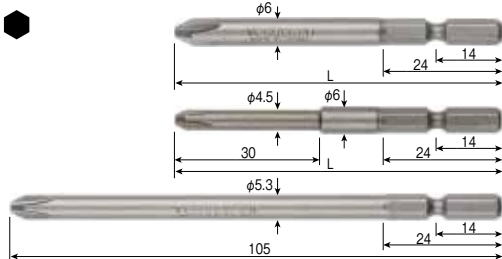


Manual type Torque Screwdriver



No. B34 Bit

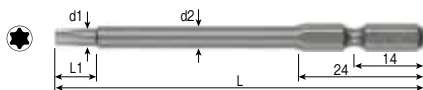
- For assembly work focusing on workability.
- Hexagonal shape with the width across flats of 5mm is also suited for electric drivers.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1 × 70	H	10	100	422031
100	H	10	100	422032
150	H	10	100	422033
⊕ 1 × 4 × 70	H	10	100	422048
⊕ 1 × 4 × 30 × 70	H	10	100	446335
⊕ 1 × 5.3 × 105	H	10	100	422034
* 120	X	10	100	422040
120	H	10	100	422035
⊕ 2 × 70	H	10	100	422041
100	H	10	100	422042
120	H	10	100	422045
150	H	10	100	422043
200	H	10	100	422044
⊕ 2 × 3 × 30 × 75	H	10	100	446340
⊕ 2 × 4.5 × 70	H	10	100	422049
⊕ 2 × 5.3 × 105	H	10	100	422046
120	H	10	100	422047
H 2 × 70	H	10	100	422071
H 2.5 × 70	H	10	100	422072
H 3 × 70	H	10	100	422073
H 4 × 70	H	10	100	422074
H 5 × 70	H	10	100	422075

No. N TORX Bit

- For TORX screws popular in the automotive industry.

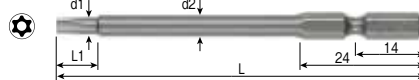


Size Tip×Overall Length (mm)	d1	L1	d2	(mm)	Inner Ctn.	EDP No.
T5 × 75	1.37	1.67	6.5	4.0	10	635498
100	1.37	1.67	6.5	4.0	10	635499
T6 × 75	1.65	1.95	6.5	4.0	10	635500
100	1.65	1.95	6.5	4.0	10	635501
T8 × 75	2.3	2.60	7.0	4.5	10	635505
100	2.3	2.60	7.0	4.5	10	635506
T10 × 75	2.72	3.02	7.5	4.5	10	635510
100	2.72	3.02	7.5	4.5	10	635511
T15 × 75	3.26	3.56	7.5	4.5	10	635515
100	3.26	3.56	7.5	4.5	10	635516
T20 × 75	3.84	4.14	7.5	5.0	10	635520
100	3.84	4.14	7.5	5.0	10	635521
T25 × 75	4.4	4.70	8.0	5.0	10	635525
100	4.4	4.70	8.0	5.0	10	635526
T27 × 75	4.96	5.26	8.0	5.5	10	635530
100	4.96	5.26	8.0	5.5	10	635531

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. N TORX Bit (Tamper-Proof)

- For TORX screws popular in the automotive industry.
- With a round hole for tamper-proof.

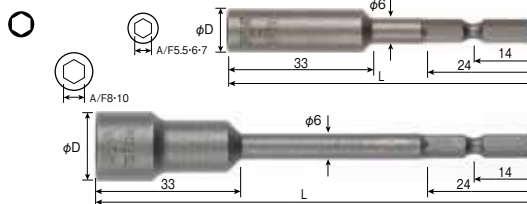


Size Tip×Overall Length (mm)	d1	L1	d2	(mm)	Inner Ctn.	EDP No.
T10H × 75	2.72	3.02	7.5	4.5	10	635551
100	2.72	3.02	7.5	4.5	10	635552
T15H × 75	3.26	3.56	7.5	4.5	10	635553
100	3.26	3.56	7.5	4.5	10	635554
T20H × 75	3.84	4.14	7.5	5.0	10	635555
100	3.84	4.14	7.5	5.0	10	635556
T25H × 75	4.4	4.70	8.0	5.0	10	635557
100	4.4	4.70	8.0	5.0	10	635558

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. B44 Socket Bit

- Socket bit for Hex screws.



Size Tip×Overall Length (mm)	φD	Drilling holes depth	(mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F 5.5 × 70	9	25		10	250	422371
100	9	25		10	250	422381
6 × 70	10	25		10	200	422372
100	10	25		10	200	422382
7 × 70	11	25		10	200	422373
100	11	25		10	150	422383
8 × 70	13	25		10	200	422374
100	13	25		10	150	422384
10 × 100	16	25		10	100	422385



No. B36 Double End Bit

- If one end breaks, the other end can be used.
- For assembly work focusing on workability.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1 × 70	H	10	100	423031
100	H	10	100	423032
⊕ 2 × 70	H	10	100	423041
100	H	10	100	423042
150	H	10	100	423043
200	H	10	100	423044

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. B43 Double End Bit

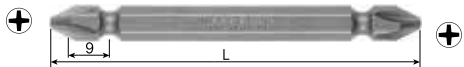
- If one end breaks, the other end can be used.
- For assembly work focusing on workability.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1× 75	H	10	100	425032
⊕ 2× 50	X	10	100	425036
50	H	10	100	425037
50	E	10	100	425038
75	X	10	100	425039
75	H	10	100	425040
75	G	10	100	425041
75	E	10	100	425042
100	X	10	100	425046
100	H	10	100	425047
100	G	10	100	425043
100	E	10	100	425044
150	X	10	100	425048
150	H	10	100	425049
150	G	10	100	425045
200	G	10	100	425050
300	H	10	100	446373
⊕ 3× 75	H	10	100	425054
75	E	10	100	425055
100	H	10	100	425057
100	E	10	100	425058
150	H	10	100	446375

No. M-B43 Double End Bit (Magnetized)

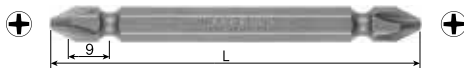
- If one end breaks, the other end can be used.
- For assembly work focusing on workability.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 75	H	10	100	446669
100	H	10	100	446672
150	H	10	100	446673

No. B43P Double End Bit (Power tip)

- If one end breaks, the other end can be used.
- Well balanced combination between tip precision and strength.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 75	H	10	100	425171
100	H	10	100	425172

No. B43H TAPPING Bit (High power tip)

- If one end breaks, the other end can be used.
- Reinforced tip for tapping work.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 75	H	10	100	425151
100	H	10	100	425153
150	H	10	100	425155

No. B43B TAPPING Bit (Black tip)

- If one end breaks, the other end can be used.
- Reinforced tip for tapping work.

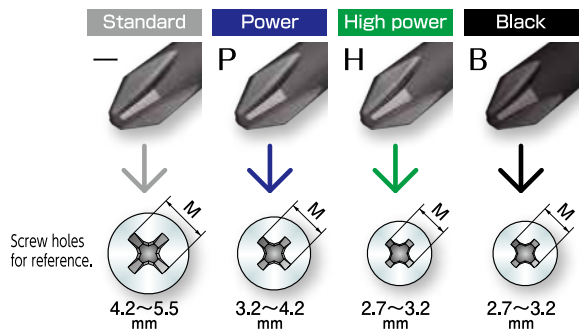
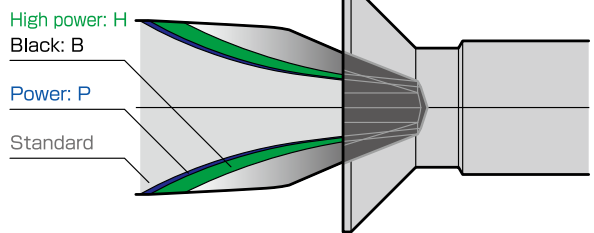


Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 50	S	10	100	425141
75	S	10	100	425142
100	S	10	100	425143
150	S	10	100	425144

One point

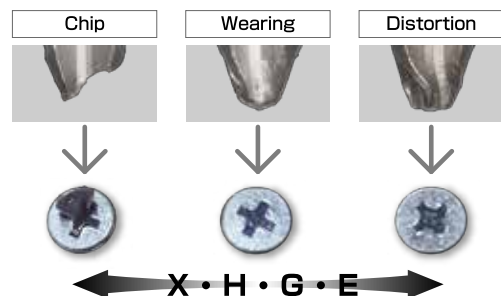
Bit selection I

- Selecting Phillips tip suitable for screw head hole



* M dimension : the size of a cross recess on a screw head viewed from directly above

- Selecting Phillips tip according to hardness classification

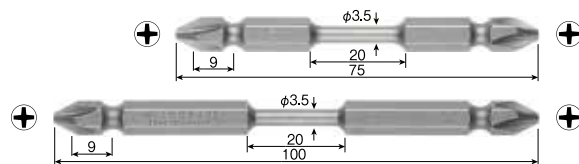


← X · H · G · E →



No. BT43 TORSION Bit

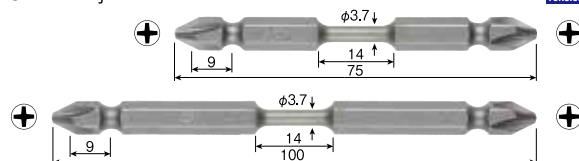
- If one end breaks, the other end can be used.
- For soft joint such as wood screws.



Size Tip×φ×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2×3.5× 75	H	10	100	425161
100	H	10	100	425162

No. BT43P TORSION Bit (Power tip)

- If one end breaks, the other end can be used.
- For hard joint such as drill screws.

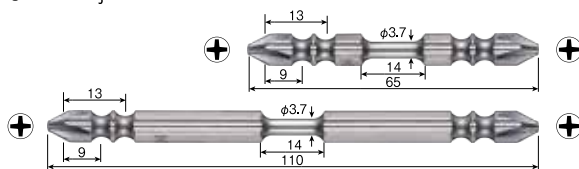


Size Tip×φ×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2×3.7× 75	X	10	100	425201
100	X	10	100	425202



No. RS SUPER TORSION bit

- If one end breaks, the other end can be used.
- Compatible with both A and B type chucks.
- For hard joint such as drill screws.



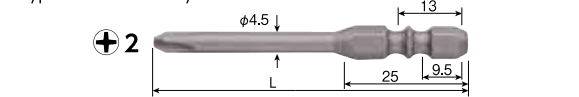
Model No.	Contents	Heat treatment classification	Package size (mm)	EDP No.
RS10P2065F	⊕2×φ3.7× 65 10pcs.	H	143×87×7	486948
RS10P2082F	⊕2×φ3.7× 82 10pcs.	H	143×87×7	486949
RS10P2110F	⊕2×φ3.7×110 10pcs.	H	162×87×7	486950

Inner Ctn.: 10 sets



No. M-AB16 Recessed Bit (Magnetized)

- Compatible with both A and B type chucks.
- Useful when using multiple fastening tools with different drive types in an assembly line.

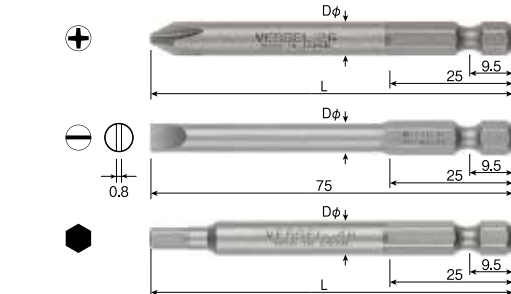


Size Tip×φ×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2×4.5× 65	H	10	100	415301
100	H	10	100	415302
150	H	10	100	415303



No. B35 Bit

- For assembly work focusing on workability.
- International standards compatible H 6.35mm(1/4")

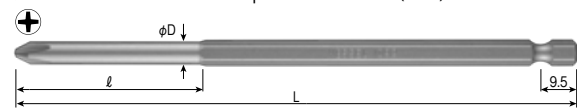


Size Tip×Overall Length	Heat treatment classification	φD	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1 × 50	H	7.0	10	100	424032
75	X	7.0	10	100	424034
75	H	7.0	10	100	424035
⊕ 1 ×4.5×100	H	4.5	10	100	424036
⊕ 2 × 50	X	7.0	10	100	424061
50	G	7.0	10	100	424040
75	X	7.0	10	100	424062
75	H	7.0	10	100	424047
75	G	7.0	10	100	424041
75	E	7.0	10	100	424042
100	H	7.0	10	100	424048
100	G	7.0	10	100	424043
100	E	7.0	10	100	424044
150	H	7.0	10	100	424049
150	G	7.0	10	100	424045
150	E	7.0	10	100	424046
⊕ 2 ×4.5×100	H	4.5	10	100	424038
⊕ 3 75	H	7.0	10	100	424050
75	E	7.0	10	100	424051
100	H	7.0	10	100	424052
100	E	7.0	10	100	424053
150	G	7.0	10	100	424054
⊖ 6 × 75	E	6.0	10	100	424075
⊖ 6.35×0.97t× 49 (1524)	H	6.35	10	100	487245
⊖ 7.9 ×1.17t× 49 (1526)	H	7.92	10	100	487255
★ ⊖ 6.99×1.07t× 76 (1565)	H	6.99	10	100	446464
H 2 × 75	H	7.0	10	100	424080
100	H	7.0	10	100	424081
H2.5 × 75	H	7.0	10	100	424082
100	H	7.0	10	100	424083
150	H	7.0	10	100	424093
H 3 × 75	H	7.0	10	100	424084
100	H	7.0	10	100	424085
150	H	7.0	10	100	424094
H 4 × 49 (21204)	H	4.6	10	100	487282
75	H	7.0	10	100	424086
100	H	7.0	10	100	424087
150	H	7.0	10	100	424095
H 5 × 49 (21205)	H	5.8	10	100	487283
75	G	7.0	10	100	424088
100	G	7.0	10	100	424089
150	G	7.0	10	100	424096
H 6 × 49 (21206)	H	—	10	100	487284
75	G	7.0	10	100	424090
100	G	7.0	10	100	424091
150	G	7.0	10	100	424097
★ H 6 × 70 (1336/70)	G	7.0	10	100	489295
★ H 7 × 70 (1337/70)	G	10.0	10	100	489296
★ H 9 × 70 (1339/70)	G	11.0	10	100	489298



No. B35 Bit

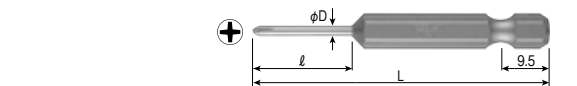
- For assembly work focusing on workability.
- International standards compatible H 6.35mm(1/4")



Model No.	Heat treatment classification	Tip	φD	ℓ	L	Inner Ctn.	Outer Ctn.	EDP No.
1092	H	⊕2	6.35	50	152	10	100	487208

No. B35 Bit

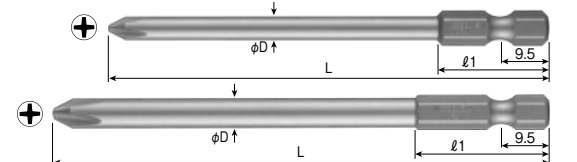
- For assembly work focusing on workability.
- International standards compatible H 6.35mm(1/4")



Model No.	Heat treatment classification	Tip	φD	ℓ	L	Inner Ctn.	Outer Ctn.	EDP No.
⊕00x1.2x20x60	H	⊕00	1.2	20	60	10	100	446126
⊕00x2x40x100	H	⊕00	2.0	40	100	10	100	446141
⊕0x1.4x30x60	H	⊕0	1.4	30	60	10	100	446145
⊕0x1.4x30x100	H	⊕0	1.4	30	100	10	100	446147
⊕0x2x20x60	H	⊕0	2.0	20	60	10	100	446153
⊕0x2x30x100	H	⊕0	2.0	30	100	10	100	446157

No. B35 Bit

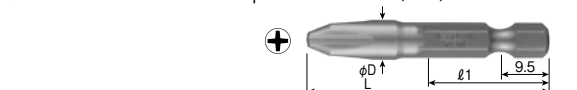
- For assembly work focusing on workability.
- International standards compatible H 6.35mm(1/4")



Model No.	Heat treatment classification	Tip	φD	ℓ1	L	Inner Ctn.	Outer Ctn.	EDP No.
10600	H	⊕00	1.58	21	49	10	100	446423
1060	H	⊕0	3.17	21	49	10	100	487195
1081	H	⊕1	4.76	21	89	10	100	487202
★ 4301/150	H	⊕1	4.5	27	150	10	100	489672
★ 4302/51	H	⊕2	6.0	27	51	10	100	489229
4302/100	H	⊕2	6.0	27	100	10	100	489255
★ 4302/127	H	⊕2	6.0	27	127	10	100	446435
4302/150	H	⊕2	6.0	27	150	10	100	489673
4302/200	H	⊕2	6.0	27	200	10	100	446439
1062	H	⊕2	6.35	21	49	10	100	487205
1072	H	⊕2	6.35	21	70	10	100	487206
1082	H	⊕2	6.35	21	89	10	100	487207

No. B35 Bit

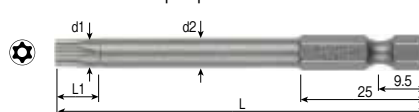
- For assembly work focusing on workability.
- International standards compatible H 6.35mm(1/4")



Model No.	Heat treatment classification	Tip	φD	ℓ1	L	Inner Ctn.	Outer Ctn.	EDP No.
1063	H	⊕3	8.0	25	49	10	100	487210
★ 1073	H	⊕3	8.0	25	70	10	100	487211
1083	H	⊕3	8.0	25	89	10	100	487212
★ 4303/100	H	⊕3	8.0	25	100	10	100	489256

No. J TORX Bit (Tamper-Proof)

- For TORX screws used in the automotive industry.
- With a round hole for tamper-proof.

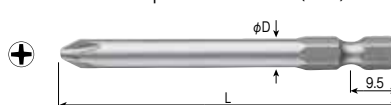


Model No.	mm	d1	L1	d2	Inner Ctn.	EDP No.
T6H × 75	1.65	1.95	6.5	4.0	10	635283
100	1.65	1.95	6.5	4.0	10	635284
T8H × 75	2.3	2.60	7.0	4.5	10	635285
100	2.3	2.60	7.0	4.5	10	635286
T10H × 49 (T10610H)	2.72	3.02	7.5	3.96	10	446533
70 (T10710H)	2.72	3.02	7.5	3.96	10	446544
75	2.72	3.02	7.5	4.5	10	635251
100	2.72	3.02	7.5	4.5	10	635252
T15H × 75	3.26	3.56	7.5	4.5	10	635255
100	3.26	3.56	7.5	4.5	10	635256
T20H × 49 (T10620H)	3.84	4.14	7.5	4.37	10	446535
70 (T10720H)	3.84	4.14	7.5	4.37	10	446546
75	3.84	4.14	7.5	5.0	10	635261
100	3.84	4.14	7.5	5.0	10	635262
T25H × 75	4.4	4.70	8.0	5.0	10	635265
100	4.4	4.70	8.0	5.0	10	635266
T27H × 75	4.96	5.26	8.0	5.5	10	635271
100	4.96	5.26	8.0	5.5	10	635272
T30H × 75	5.49	5.79	8.5	6.0	10	635275
100	5.49	5.79	8.5	6.0	10	635276
T40H × 75	6.6	—	—	7.0	10	635281
100	6.6	—	—	7.0	10	635282

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.

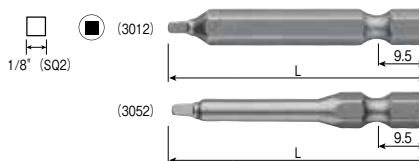
No. B35 Bit

- For assembly work focusing on workability.
- International standards compatible H 6.35mm(1/4")



Model No.	(mm)	φD	Inner Ctn.	EDP No.
★ ⊕1x3/16"×100(41081)		4.76	10	446428
★ ⊕2x3/16"×100(42081)		4.76	10	446429

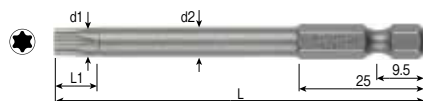
No. B35 Square Bit




Model No.	Heat treatment classification	Inner Ctn.	EDP No.
★ SQ2 ×49 (3012)	H	10	487292
★ SQ2 ×90 (3052)	H	10	487307

No. J TORX Bit

●For TORX screws used in the automotive industry.



Model No.	(mm)		d1	L1	d2 (mm)	Inner Ctn.	EDP No.
T5 × 49 (T10605)	1.37	1.67	6.5	3.18	10	446486	
70 (T10705)	1.37	1.67	6.5	3.18	10	447355	
89 (T10805)	1.37	1.67	6.5	3.18	10	447356	
T6 × 75	1.65	1.95	6.5	4.0	10	635300	
100	1.65	1.95	6.5	4.0	10	635301	
152 (T10906)	1.65	1.95	6.5	3.18	10	447317	
T7 × 70 (T10707)	1.97	2.27	6.5	3.18	10	446499	
75	1.97	2.27	6.5	4.0	10	635303	
90 (T10807)	1.97	2.27	6.5	3.18	10	446509	
152 (T10907)	1.97	2.27	6.5	3.18	10	446519	
T8 × 49 (T10608)	2.3	2.6	7.0	3.18	10	446489	
70 (T10708)	2.3	2.6	7.0	3.18	10	446500	
75	2.3	2.6	7.0	4.5	10	635305	
90 (T10808)	2.3	2.6	7.0	3.18	10	446510	
100	2.3	2.6	7.0	4.5	10	635306	
152 (T10908)	2.3	2.6	7.0	3.18	10	446520	
T9 × 70 (T10709)	2.5	2.78	7.0	3.18	10	446501	
90 (T10809)	2.5	2.78	7.0	3.18	10	446511	
152 (T10909)	2.5	2.78	7.0	3.18	10	446521	
T10× 49 (T10610)	2.72	3.02	7.5	3.96	10	446491	
70 (T10710)	2.72	3.02	7.5	3.96	10	446502	
75	2.72	3.02	7.5	4.5	10	635310	
100	2.72	3.02	7.5	4.5	10	635311	
152 (T10910)	2.72	3.02	7.5	3.96	10	446522	
T15× 49 (T10615)	3.26	3.56	7.5	3.96	10	446492	
70 (T10715)	3.26	3.56	7.5	3.96	10	446503	
75	3.26	3.56	7.5	4.5	10	635315	
90 (T10815)	3.26	3.56	7.5	3.96	10	446513	
100	3.26	3.56	7.5	4.5	10	635316	
152 (T10915)	3.26	3.56	7.5	3.96	10	446523	
T20× 49 (T10620)	3.84	4.14	4.75	4.37	10	446493	
70 (T10720)	3.84	4.14	4.75	4.37	10	446504	
75	3.84	4.14	7.5	5.0	10	635320	
100	3.84	4.14	7.5	5.0	10	635321	
152 (T10920)	3.84	4.14	7.5	4.37	10	446524	
T25× 70 (T10725)	4.4	4.7	8.0	5.0	10	446505	
75	4.4	4.7	8.0	5.0	10	635325	
100	4.4	4.7	8.0	5.0	10	635326	
152 (T10925)	4.4	4.7	8.0	4.75	10	446525	
T27× 75	4.96	5.26	8.0	5.5	10	635330	
100	4.96	5.26	8.0	5.5	10	635331	
152 (T10927)	4.96	5.26	8.0	6.35	10	446526	
T30× 70 (T10730)	5.49	5.79	8.5	6.35	10	446507	
75	5.49	5.79	8.5	6.0	10	635335	
90 (T10830)	5.49	5.79	8.5	6.35	10	446517	
100	5.49	5.79	8.5	6.0	10	635336	
152 (T10930)	5.49	5.79	8.5	6.35	10	446527	
T40× 49 (T10640)	6.6	—	—	7.0	10	446497	
70 (T10740)	6.6	—	—	8.0	10	446508	
75	6.6	—	—	8.0	10	635340	
90 (T10840)	6.6	—	—	8.0	10	446518	
100	6.6	—	—	7.0	10	635341	
152 (T10940)	6.6	—	—	8.0	10	446528	
T45× 75	7.77	—	—	8.0	10	635345	
100	7.77	—	—	8.0	10	635346	

No. IP TORX Plus Bit

●For TORX Plus screws used for various assembly lines.

TORX



Model No.	Tip	mm	Overall Length (mm)	Inner Ctn.	EDP No.
IP10906	6IP	1.64	152	10	447251
IP10907	7IP	1.99	152	10	447252
IP10908	8IP	2.31	152	10	447253
IP10609	9IP	2.5	49	10	447229
IP10709	9IP	2.5	70	10	447236
IP10809	9IP	2.5	90	10	447243
IP10909	9IP	2.5	152	10	447226
IP10810	10IP	2.74	90	10	447244
IP10910	10IP	2.74	152	10	447254
IP10615	15IP	3.27	49	10	447230
IP10715	15IP	3.27	70	10	447237
IP10815	15IP	3.27	90	10	447245
IP10915	15IP	3.27	152	10	447255
IP10620	20IP	3.86	49	10	447231
IP10720	20IP	3.86	70	10	447238
IP10820	20IP	3.86	90	10	447246
IP10920	20IP	3.86	152	10	447256
IP10625	25IP	4.43	49	10	447232
IP10725	25IP	4.43	70	10	447239
IP10825	25IP	4.43	90	10	447247
IP10925	25IP	4.43	152	10	447257
IP10630	30IP	5.52	49	10	447234
IP10730	30IP	5.52	70	10	447241
IP10830	30IP	5.52	90	10	447249
IP10930	30IP	5.52	152	10	447259
IP10640	40IP	6.65	49	10	447235
IP10740	40IP	6.65	70	10	447242
IP10840	40IP	6.65	90	10	447250
IP10940	40IP	6.65	152	10	447260

No. B35 SUPADRIV Bit

●For SUPADRIV screws. ●Special tip shape prevents cam-out.



Model No.	(mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
SDV1× 75		H	10	100	636121
SDV2× 75		H	10	100	636122
100		H	10	100	636123
SDV3× 75		H	10	100	636130

No. 1733/50, 1735/50 BALL POINT Bit

●For hexagon socket head cap bolts and screws.

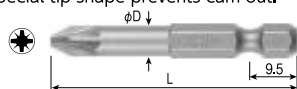


Model No.	(mm)	φD	Tip (mm)	Inner Ctn.	EDP No.
* BP3× 50 (1733/50)		4	3	10	446579
* BP5× 50 (1735/50)		6	5	10	446581

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. B35 POZIDRIV Bit

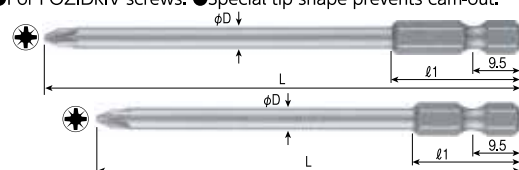
●For POZIDRIV screws. ●Special tip shape prevents cam-out.



Model No.	Heat treatment classification	Tip	φD	ℓ	L	Inner Ctn.	Outer Ctn.	EDP No.
★ PZ0 × 2 × 60	H	PZ0	2.0	20	60	10	100	447301
★ PZ0 × 3 × 60	H	PZ0	3.0	20	60	10	100	447303
★ PZ1 × 50	H	PZ1	4.8	—	50	10	100	424101
PZ2 × 50	H	PZ2	6.3	—	50	10	100	424102
PZ3 × 50	H	PZ3	8.0	—	50	10	100	424103

No. B35 POZIDRIV Bit

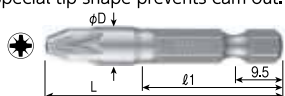
●For POZIDRIV screws. ●Special tip shape prevents cam-out.



Model No.	Heat treatment classification	Tip	φD	φ1	L	Inner Ctn.	Outer Ctn.	EDP No.
★ 1071PZ	H	PZ1	4.76	21	70	10	100	487216
★ 1081PZ	H	PZ1	4.76	21	89	10	100	487217
★ 4301/100PZ	H	PZ1	4.5	27	100	10	100	489257
★ 4302/100PZ	H	PZ2	6.0	27	100	10	100	489258
★ 4302/127PZ	H	PZ2	6.0	27	127	10	100	446445
★ 4302/150PZ	H	PZ2	6.0	27	150	10	100	489674
★ 4302/200PZ	H	PZ2	6.0	27	200	10	100	446449
★ 1062PZ	H	PZ2	6.35	21	49	10	100	487220
★ 1062PZ	X	PZ2	6.35	21	49	10	100	487523
★ 1082PZ	H	PZ2	6.35	21	89	10	100	487222

No. B35 POZIDRIV Bit

●For POZIDRIV screws. ●Special tip shape prevents cam-out.



Model No.	Heat treatment classification	Tip	φD	φ1	L	Inner Ctn.	Outer Ctn.	EDP No.
★ 1063PZ	H	PZ3	8.0	29	49	10	100	487225
★ 4304/51PZ	H	PZ4	8.0	29	51	10	100	489234

No. B39 Bit

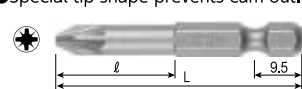
●For assembly work focusing on workability.



Model No.	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1× 23	H	10	100	424131
⊕ 2× 23	H	10	100	424141
40	H	10	100	424143
100	H	10	100	424147
★ ⊕2×4.8×25×150(1092-2)	H	10	—	487209
★ ⊕3×6.3×25× 50(1063-2)	H	10	—	487214

No. B39 POZIDRIV Bit

●For POZIDRIV screws. ●Special tip shape prevents cam-out.



Model No.	Heat treatment classification	Inner Ctn.	EDP No.
★ PZ2×4.8×25×150(1092PZ-2)	H	10	487224

No. B39 3-Flute Fastening Bit

●For fastening screws used in aircraft, special vehicles, etc.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
TW1×40	H	10	100	424201
TW2×40	H	10	100	424202
TW3×40	H	10	100	424203
TW4×40	H	10	100	424204
TW5×40	H	10	100	424205

No. X50 Adapters

●Hex socket adaptors.



Model code	SQ	Overall Length (mm)	Inner Ctn.	EDP No.
X5001	1/4"	35	10	487380
X5003	1/4"	75	10	487382
X5004	1/4"	100	10	487383
X5005	1/4"	150	10	487384
X5012	3/8"	50	10	487391
X5013	3/8"	75	10	487392
X5014	3/8"	100	10	487393
X5015	3/8"	150	10	487394



No. A5 TORX Bit

●For TORX screws used in the automotive industry.



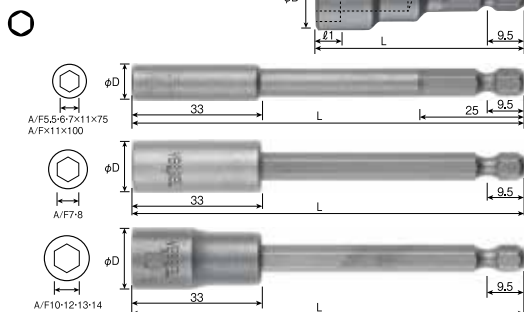
Size Tip	mm	Overall Length (mm)	Inner Ctn.	EDP No.
T30	5.49	32	10	635427
T40	6.6	32	10	635428
T45	7.77	32	10	635429
T50	8.79	32	10	635430

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.

 H 6.35 mm

No. B45/13** Socket Bit

●Socket bit for Hex screws.



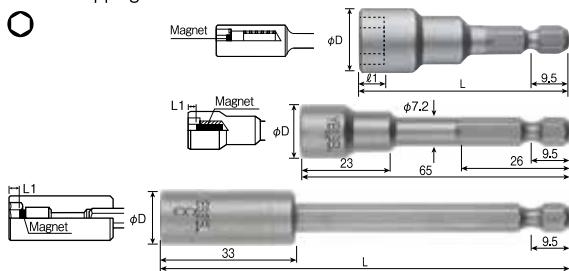
Model No.		A/F	φD	ℓ1	ℓ2	OAL (mm)	Inner Ctn.	EDP No.
1304/50		4	8	3	15	50	10	489301
1304/75		4	8	3	25	75	10	489314
1304/100		4	8	3	25	100	10	489327
1345/50		4.5	8	3	15	50	10	489302
1345/75		4.5	8	3	25	75	10	489315
1345/100		4.5	8	3	25	100	10	489328
1305/50		5	8.5	3.5	15	50	10	489303
1305/75		5	8.5	3.5	25	75	10	489316
1305/100		5	8.5	3.5	25	100	10	489329
1305/150		5	8.5	3.5	25	150	10	446602
1355/50		5.5	9	3.5	15	50	10	489304
A/F5.5×75		5.5	9	3.5	25	75	10	424281
A/F5.5×100		5.5	9	3.5	25	100	10	424380
A/F5.5×150	☆	5.5	9	3.5	25	150	10	424265
1306/50		6	10	4	15	50	10	489305
A/F6×75	☆	6	10	4	25	75	10	424282
A/F6×100		6	10	4	25	100	10	424381
A/F6×150	☆	6	10	4	25	150	10	424266
1307/50		7	13	5	15	50	10	489306
A/F7×11×75		7	11	4.5	25	75	10	424279
A/F7×11×100		7	11	4.5	25	100	10	424280
A/F7×75	☆	7	13.5	5.5	22	75	10	424283
A/F7×100	☆	7	13.5	5.5	22	100	10	424382
A/F7×150	☆	7	13.5	5.5	22	150	10	424267
1308/50		8	13	5	15	50	10	489307
A/F8×75	☆	8	13.5	6.5	22	75	10	424284
A/F8×100	☆	8	13.5	6.5	22	100	10	424383
A/F8×150	☆	8	13.5	6.5	22	150	10	424483
1309/50		9	14	5.5	15	50	10	489308
A/F9×75	☆	9	15	6.5	22	75	10	424268
A/F9×100	☆	9	15	6.5	22	100	10	424269
1310/50		10	16	6.5	15	50	10	489309
A/F10×75	☆	10	16	6.5	22	75	10	424286
A/F10×100	☆	10	16	6.5	22	100	10	424384
A/F10×150	☆	10	16	6.5	22	150	10	424484
1311/50		11	17	7	15	50	10	489310
A/F11×75	☆	11	17	7	22	75	10	424270
A/F11×100	☆	11	17	7	22	100	10	424271
1312/50		12	19	7.5	15	50	10	489311
A/F12×75	☆	12	18	8	22	75	10	424287
A/F12×100	☆	12	18	8	22	100	10	424385
A/F12×150	☆	12	18	8	22	150	10	424272
1313/50		13	19	8	15	50	10	489312
A/F13×75	☆	13	19	8	22	75	10	424288
A/F13×100	☆	13	19	8	22	100	10	424386
A/F13×150	☆	13	19	8	22	150	10	424273
1314/50		14	20	8	15	50	10	489313
A/F14×75	☆	14	20	8	22	75	10	424289
A/F14×100	☆	14	20	8	22	75	10	424387

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

No. MB45/13**M Socket Bit (Press-Fit Magnet)

●Socket bit for Hex screws.

●Holds the screw with a strong magnet, to prevent the screws from dropping.

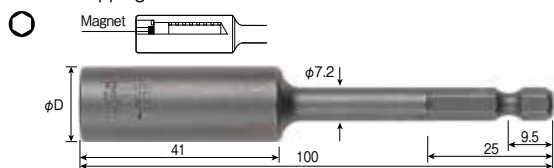


Model No.	A/F	φD	ℓ1	OAL	Inner Ctn.	EDP No.
(mm)				(mm)		
1305/50M	5	8.5	3.5	50	10	489340
1305/75M	5	8.5	3.5	75	10	489351
1305/100M	5	8.5	3.5	100	10	489362
1305/150M	5	8.5	3.5	150	10	446619
1355/50M	5.5	9	3.5	50	10	489341
1355/75M	5.5	9	3.5	75	10	489352
1355/100M	5.5	9	3.5	100	10	489363
1355/150M	5.5	9	3.5	150	10	446620
1306/50M	6	10	4	50	10	489342
1306/75M	6	10	4	75	10	489353
1306/100M	6	10	4	100	10	489364
1306/150M	6	10	4	150	10	446621
1307/50M	7	13	4.5	50	10	489343
A/F7×65	7	13	2.5	65	10	482520
1307/75M	7	13	4.5	75	10	489354
1307/100M	7	13	4.5	100	10	489365
1307/150M	7	13	5	150	10	446622
1308/50M	8	13	5	50	10	489344
A/F8×65	☆ 8	13.5	3.17	65	10	482521
A/F8×75	☆ 8	13.5	3.17	75	10	482523
A/F8×100	☆ 8	13.5	3.17	100	10	482524
A/F8×150	☆ 8	13.5	3.17	150	10	424274
1309/50M	9	14	5.5	50	10	489345
1309/75M	9	14	5.5	75	10	489356
1309/100M	9	14	5.5	100	10	489367
A/F3/8×65	☆ 9.6	15	3.96	65	10	482522
1310/50M	10	16	6.5	50	10	489346
A/F10×75	☆ 10	16	3.96	75	10	482525
A/F10×100	☆ 10	16	3.96	100	10	482526
A/F10×150	☆ 10	16	3.96	150	10	424275
1311/50M	11	17	7	50	10	489347
1311/75M	11	17	7	75	10	489358
1311/100M	11	17	7	100	10	489369
1312/50M	12	19	7.5	50	10	489348
A/F12×75	☆ 12	18	5.5	75	10	424276
A/F12×100	☆ 12	18	5.5	100	10	424277
A/F12×150	☆ 12	18	5.5	150	10	424278
1313/50M	13	19	8	50	10	489349
1313/75M	13	19	8	75	10	489360
1313/100M	13	19	8	100	10	489371
1313/150M	13	19	8	150	10	446626
1314/50M	14	20	8	50	10	489350
1314/75M	14	20	8	75	10	489361
1314/100M	14	20	8	100	10	489372

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

No. MB45D Socket Bit (Sliding Magnet)

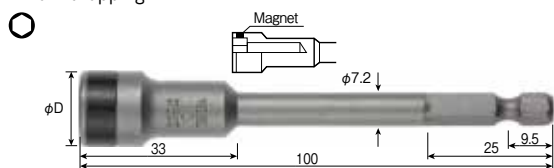
- Socket bit for Hex screw.
- Holds the screw with sliding magnet, to prevent the screws from dropping.



Model No.	(mm)	φD	Hole depth	(mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F 8×100		13	36		10	100	482516
A/F 10×100		16	36		10	100	482517

No. MB45S Socket Bit (Side Magnet)

- Socket bit for Hex screw.
- Holds the screw with side magnet, to prevent the screws from dropping.

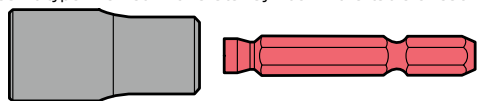


Model No.	(mm)	φD	Hole depth	(mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F 8×100		13	25		10	100	482406
A/F 10×100		16	25		10	100	482407

One point

Features of press-fit type sockets

(Press-fit type: marked with a star symbol in the table of each model)



MEDIUM HARDNESS
Improves durability of socket

HIGH HARDNESS
Strong resistance to shank breakage

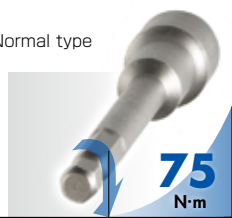


The shank and socket have been heat-treated to the best hardness and press-fit together. The socket part is strong against wear and shank against twisting, resulting in higher durability.

Prevents shank breakage

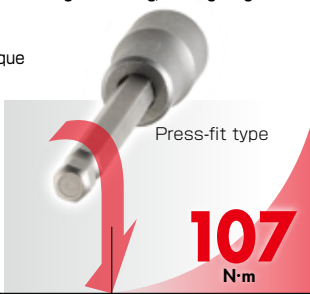
Torsion moment with a static torque

Normal type



75
N·m

Press-fit type



107
N·m

No. DS73

Shockless Bit



No. DS73

Shockless Bit

Combination of special alloy steel + zinc die cast.
Less variation in inrush torque at seating, therefore tightening becomes consistent.
Moreover, the tip durability is improved significantly.



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 before delivery to the market.

In our quest for ever-greater reliability, we employ torque analysis and screw-engagement checks that result in ultra high precision bit tips.

HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS






AIR TOOLS

STATIC SOLUTIONS

GASOLINE ENGINE TOOLS

Applicable models

Please check the model No. of your drivers before determining which bit(s) to choose.

Shape	Model NO.	Page	Applicable models
			 Electric S/D (Precision type)
 H 5 mm	B34	84P	VESSEL VE-4000-4000P-4500-4500P Hios PG-7000 BLG-5000BC1/-15/-20/-HT BLG-5000/-15/-20/HT BL-5000/-15/-20-5020-7000/-20 CL-4000-6000-6500-7000 SS-4000-6500-7000 α-4500-5000-6500 CD-4000-5000-6000-7000 VB-1510/-18-1820-3012-2008-3020 VZ-1510-1812-1820-3012-3007
	N	85P	Delvo DLV ○○○○-EJN/-DJN/-DJE DLV 7(8)120-SPC-7(8)130-SPC-7(8)140-SPC-7(8)241-SPC-7(8)231-SPC DLV 30LL(P)-SPC-30SL(P)-SPC-30HL(P)-SPC Hitachi Koki WT 3G/3GP-4G/4GP-5G/5GP
	B44	85P	Kanon 3K-120L-180L-180LF-120P-180P-180PF, 9K-130P-140P-130PF-131L-131LF-131P-131PF, 5KD-200-300 Panasonic FE-A310S-A310MH-A310L-A111L-A111MH-A111M-A710AXN-A710MHN
 ϕ 4 mm	D71	82P	Delvo DLV ○○○○-BMN/-CMN/-EMN/-SB DLV 5820-5820H-5840 DLV 7410A-SPC-7410HA-SPC-7420A-SPC-7321-SPC-7331-SPC-7020-SPC-7030-SPC-7031-SPC-8020-SPC-8030-SPC-8031-SPC
	D72		
 ϕ 4 mm	DS73	81P	VESSEL VE-1500-1500EPA-2000-2000EPA-3000 Hios PG-3000-5000 BLG-4000BC1-5000BC1/-15/-20 BLG-4000-5000/-15/-20 BL-2000-3000-5000/-15/-20 CL-2000-3000-4000 SS-2000-3000-4000 α-4500-5000 CD-4000-5000 VB-1510/-18 VZ-1510
	D73	83P	Kanon 3K-110L-110P 2KD-100-200-300
 ϕ 5 mm	D76	84P	Hios CL-6000-6500-7000 SS-6500-7000 α-6500 CD-6000-7000

HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS

AIR TOOLS

STATIC SOLUTIONS

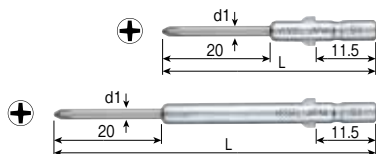
GASOLINE ENGINE TOOLS



No. DS73 Shockless Bit

PAT.

- Combination of special alloy steel and zinc die cast; Stable fastening torque and improved durability.
- Bit tip high-precision-machined to thread standards.

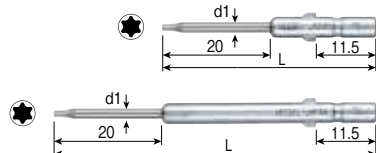


Model No.	(mm)	d1	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 00×1.5×40		1.5	10	100	483801
60		1.5	10	100	483802
⊕ 0 ×1.5×40		1.5	10	100	483809
60		1.5	10	100	483810
⊕ 0 ×1.7×40		1.7	10	100	483811
60		1.7	10	100	483812
⊕ 0 ×2.0×40		2.0	10	100	483813
60		2.0	10	100	483814

No. DS73 Shockless Bit

PAT.

- Combination of special alloy steel and zinc die cast; Stable fastening torque and improved durability.
- Bit tip high-precision-machined to thread standards.



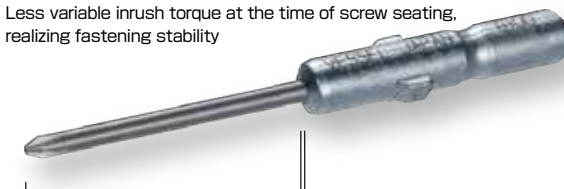
Model No.	(mm)	mm	d1	Inner Ctn.	Outer Ctn.	EDP No.
T5 ×2.0× 40		1.37	2.0	10	100	483901
60		1.37	2.0	10	100	483902
T6 ×2.0× 40		1.65	2.0	10	100	483903
60		1.65	2.0	10	100	483904

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.

One point

Advantage of Shockless Bit

Shockless Bit have cushioning characteristics to absorb the impact occurred when a screw is fully seated. Less variable inrush torque at the time of screw seating, realizing fastening stability

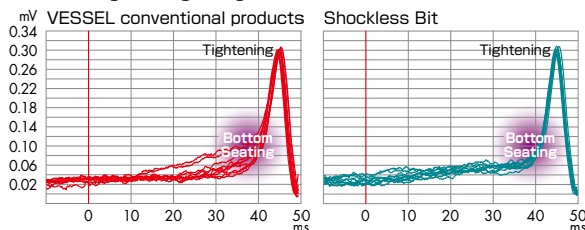


●Stable tightening torque

The combination of alloy steel and zinc creates a shockless effect and stabilizes the tightening torque.

[Measurement of tightening waveform]

The load during screw tightening is indicated as a waveform



●Break-resistant with improved durability

The shockless effect of the alloy steel and zinc combination greatly improves the durability of the tool tip.

[Driving durability test]

Number of tools which do not break when continuously screwed in by a screw tightening robot.

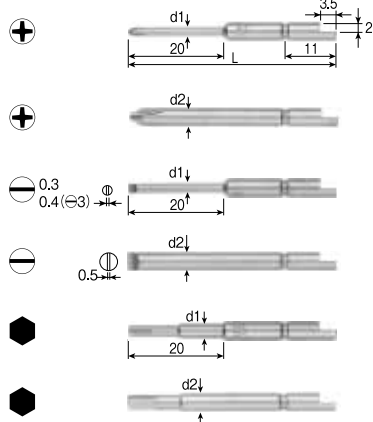


Cushion effect of combination of several materials enables the impact on the tip-end to be absorbed and makes the bit durable. This also leads to less damage on screw or workpieces as Shockless Bit is not merely hard but cushiony.

● $\phi 4$ mm

No. D71 Bit

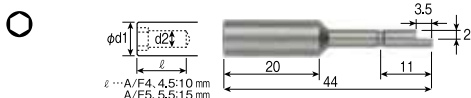
- With crescentic shank shape in cross section; for fastening precision small screws.
- Bit tip high-precision-machined to thread standards.



Model No. (mm)	d1	d2	Inner Ctn. (mm)	Outer Ctn.	EDP No.
⊕00×1.5× 44	1.5	—	10	100	482901
64	1.5	—	10	100	482902
★ ⊕00×2 × 64 (EPH204)	2.0	2.0	10	—	446293
★ ⊕00×2.5× 44 (EPH205)	2.5	2.0	10	—	446294
⊕0 ×2 × 44	2.0	—	10	100	482911
64	2.0	—	10	100	482912
⊕0 ×2.5× 44	2.5	—	10	100	482913
64	2.5	—	10	100	482914
⊕1 ×3 × 44	3.0	—	10	100	482921
64	3.0	—	10	100	482922
⊕1 ×4 × 44	—	4.0	10	100	482923
64	—	4.0	10	100	482924
⊕2 ×4 × 44	—	4.0	10	100	482931
64	—	4.0	10	100	482932
⊖2 ×0.3× 44	2.0	—	10	200	482941
⊖2.5×0.3× 44	2.5	—	10	200	482942
⊖3 ×0.4× 44	3.0	—	10	200	482943
⊖4 ×0.5× 44	—	4.0	10	200	482944
H 1.5×2 × 44	2.0	—	10	200	482951
H 2 ×3 × 44	3.0	—	10	200	482952
H 2.5×3 × 44	3.0	—	10	200	482953
H 3 ×4 × 44	—	4.0	10	200	482954

No. D72 Socket Bit

- With crescentic shank shape in cross section; for fastening precision small screws.
- Bit tip high-precision-machined to thread standards.

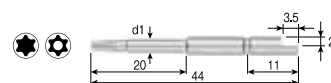



Model No. (mm)	d1	d2	Inner Ctn. (mm)	Outer Ctn.	EDP No.
A/F 4 × 44	7	3	10	100	482961
A/F 4.5× 44	7	3	10	100	482962
A/F 5 × 44	8	4	10	100	482963
A/F 5.5× 44	8	4	10	100	482964

● $\phi 4$ mm

No. D71 TORX Bit

- With crescentic shank shape in cross section; for fastening small screws for such as computers, HDDs.
- Bit tip high-precision-machined to thread standards.

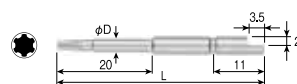


Model No.	(mm)	mm 	d1	Inner Ctn.	Outer Ctn.	EDP No.
T1 × 44		0.84	1.5	10	100	635601
T2 × 44		0.94	1.5	10	100	635602
T3 × 44		1.12	1.7	10	100	635603
T4 × 44		1.3	1.8	10	100	635604
T5 × 44		1.37	2.0	10	100	635605
T6 × 44		1.65	2.5	10	100	635606
T7 × 44		1.97	2.5	10	100	635607
T8 × 44		2.3	3.0	10	100	635608
T8H × 44 (ETX254)		2.3	4	10	200	446323
T9 × 44		2.48	3.0	10	100	635609
T10 × 44		2.72	3.0	10	100	635610
T15H × 44 (ETX259)		3.26	4	10	200	446328

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. D71 TORX Plus Bits

- The earlobe-shaped protrusions on the tip-end provide longer lifetime because they are designed to have the largest fitting area between the bit (which is designed to have large cross-sectional area) and the screw head recess, so as to disperse the stress while tightening.

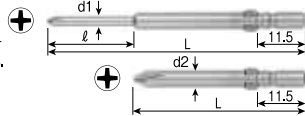


Model No. (mm)	IP	φD	ℓ	L (mm)	Inner Ctn.	EDP No.
2IP × 44	2IP	1.5	20	44	10	447428
2IP × 64	2IP	1.5	20	64	10	447412
3IP × 44	3IP	1.7	20	44	10	447429
3IP × 64	3IP	1.7	20	64	10	447413



No. D73 Bit

- For fastening precision small screws.
- Bit tip high-precision-machined to thread standards.



Model No.	(mm)	Tip	ℓ	d1	d2	L	Inner Ctn.	Outer Ctn.	EDP No.
⌀00x1.2x20x40	00	20	1.2	—	40	10	100		446001
⌀00x1.5x40	00	20	1.5	—	40	10	100	445981*(483001)	
⌀00x1.5x60	00	20	1.5	—	60	10	100		483002
⌀00x1.5x80	00	20	1.5	—	80	10	100		483003
⌀00x1.7x20x40	00	20	1.7	—	40	10	100		446004
⌀00x2x40	00	20	2	—	40	10	100	445983*(483005)	
⌀00x2x60	00	20	2	—	60	10	100		483006
⌀0x1.2x20x40	0	20	1.2	—	40	10	100		483007
⌀0x1.4x20x40	0	20	1.4	—	40	10	100		446016
⌀0x1.4x20x60	0	20	1.4	—	60	10	100		446017
⌀0x1.4x20x80	0	20	1.4	—	80	10	100		483008
⌀0x1.5x20x40	0	20	1.5	—	40	10	100		446022
⌀0x1.5x20x60	0	20	1.5	—	60	10	100		446076
⌀0x1.7x40	0	20	1.7	—	40	10	100		483010
⌀0x1.7x60	0	20	1.7	—	60	10	100	445986*(483011)	
⌀0x1.7x80	0	20	1.7	—	80	10	100		483012
⌀0x1.8x60	0	20	1.8	—	60	10	100		483013
⌀0x2x20x40	0	20	2	—	40	10	100		446025
⌀0x2x20x60	0	20	2	—	60	10	100		446026
⌀0x2x30x60	0	30	2	—	60	10	100		446029
⌀0x2x20x80	0	20	2	—	80	10	100		446027
⌀0x2x20x100	0	20	2	—	100	10	100		446028
⌀0x2x120	0	20	2	—	120	10	100		483014
⌀0x2.5x40	0	20	2.5	—	40	10	100		483015
⌀0x2.5x60	0	20	2.5	—	60	10	100		483016
⌀0x2.5x20x80	0	20	2.5	—	80	10	100		446033
⌀0x2.5x20x100	0	20	2.5	—	100	10	100		446034
⌀0x2.5x120	0	20	2.5	—	120	10	100		483017
⌀1x2.5x20x40	1	20	2.5	—	40	10	100		446048
⌀1x3x40	1	20	3	—	40	10	100		483021
⌀1x3x20x60	1	20	3	—	60	10	100		446053
⌀1x3x20x80	1	20	3	—	80	10	100		446054
⌀1x3x20x100	1	20	3	—	100	10	100		446055
⌀1x3x20x120	1	20	3	—	120	10	100		483376
⌀1x4x40	1	—	—	4	40	10	100		483025
⌀1x4x60	1	—	—	4	60	10	100		446059
⌀1x4x80	1	—	—	4	80	10	100		483026
⌀1x4x100	1	—	—	4	100	10	100		483027
⌀1x4x120	1	—	—	4	120	10	100		483028
⌀1x4x150	1	—	—	4	150	10	100		483029
⌀1x4x180	1	—	—	4	180	10	100		483030
⌀1x4x200	1	—	—	4	200	10	100		483032
⌀2x4x40	2	—	—	4	40	10	100		483031
⌀2x4x60	2	—	—	4	60	10	100		446070
⌀2x4x80	2	—	—	4	80	10	100		446071
⌀2x4x100	2	—	—	4	100	10	100		446072
⌀2x4x120	2	—	—	4	120	10	100		446073
⌀2x4x150	2	—	—	4	150	10	100		483033

EDP number with mark * will be shifted to the other number in parenthesis.

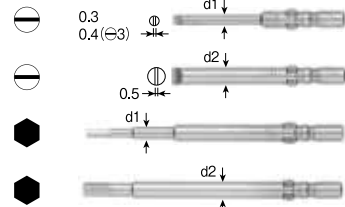
Socket Bit



Model No.	(mm)	Size	φD	L	(mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F2.3x40		A/F 2.3	6	40		10	100	483921
A/F2.5x40		A/F 2.5	6	40		10	100	483922
A/F3x40		A/F 3	6	40		10	100	483923
A/F4x60		A/F 4	7	60		10	100	483924
A/F4.5x60		A/F 4.5	7	60		10	100	483925
A/F5x60		A/F 5	8	60		10	100	483926
A/F5.5x60		A/F 5.5	8	60		10	100	483927

No. D73 Bit

- For fastening precision small screws.
- Bit tip high-precision-machined to thread standards.

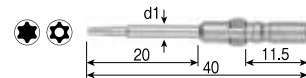



Model No.	(mm)	d1	d2	Inner Ctn.	Outer Ctn.	EDP No.
⊖ 2 ×0.3 ×40		2.0	—	10	100	483041
⊖ 2.5×0.3 ×40		2.5	—	10	100	483042
⊖ 3 ×0.4 ×40		3.0	—	10	100	483043
⊖ 4 ×0.5 ×40		—	4.0	10	100	483044
H 1.5×2 ×60		2.0	—	10	100	483051
H 2 ×3 ×60		3.0	—	10	100	483052
H 2.5×3 ×60		3.0	—	10	100	483053
H 3 ×4 ×60		—	4.0	10	100	483054



No. D73 TORX Bit

- For fastening small screws for HDDs, etc.
- Bit tip high-precision-machined to thread standards.



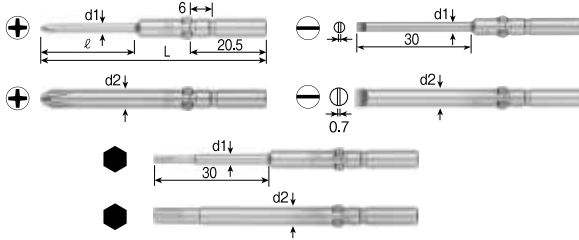
Model No.	(mm)		d1	Inner Ctn.	Outer Ctn.	EDP No.
T1 × 40		0.84	1.5	10	100	635621
T2 × 40		0.94	1.5	10	100	635622
T3 × 40		1.12	1.7	10	100	635623
T4 × 40		1.3	1.8	10	100	635624
T5 × 40		1.37	2.0	10	100	635625
T5 × 2×20×40		1.37	2.0	10	100	446107
60		1.37	2.0	10	100	446108
60		1.37	2.0	10	100	635695
T6 × 40		1.65	2.5	10	100	635626
T6 × 2×20×40		1.65	2.0	10	100	446109
60		1.65	2.0	10	100	446110
60		1.65	2.0	10	100	635696
T7 × 40		1.97	2.5	10	100	635627
T7 × 2×20×60		1.97	2.0	10	100	446113
T8 × 40		2.3	3.0	10	100	635628
T9 × 40		2.48	3.0	10	100	635629
T10× 40		2.72	3.0	10	100	635630
T10H × 4 × 60		2.72	4.0	10	100	446119

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. D76 Bit

- For fastening various small screws and tapping screws for sheet metals.
- Bit tip high-precision-machined to thread standards.



Model No.	(mm)	Tip	ℓ	d1	d2	L	(mm)	Inner Ctn.	Outer Ctn.	EDP No.
Φ00×2×60	00	20	2	—	60	10	100	446241*(483105)		
Φ0×2×60	0	25	2	—	60	10	100	483106		
Φ0×2.5×60	0	25	2.5	—	60	10	100	483115		
Φ0×2.5×80	0	25	2.5	—	80	10	100	483116		
Φ0×2.5×100	0	25	2.5	—	100	10	100	483117		
Φ0×2.5×120	0	25	2.5	—	120	10	100	483118		
Φ1×3×15×40	1	15	3	—	40	10	100	483119		
Φ1×3×60	1	30	3	—	60	10	100	483121		
Φ1×3×30×80	1	30	3	—	80	10	100	446267		
Φ1×3×30×100	1	30	3	—	100	10	100	483122		
Φ1×3×30×120	1	30	3	—	120	10	100	483123		
Φ1×5×40	1	—	—	5	40	10	100	483124		
Φ1×5×60	1	—	—	5	60	10	100	483125		
Φ1×5×80	1	—	—	5	80	10	100	483126		
Φ1×5×100	1	—	—	5	100	10	100	483127		
Φ1×5×120	1	—	—	5	120	10	100	483128		
Φ1×5×150	1	—	—	5	150	10	100	483129		
Φ1×5×180	1	—	—	5	180	10	100	483130		
Φ1×5×200	1	—	—	5	200	10	100	483132		
Φ1×5×250	1	—	—	5	250	10	100	483133		
Φ1×5×300	1	—	—	5	300	10	100	483134		
Φ2×5×40	2	—	—	5	40	10	100	483135		
Φ2×5×60	2	—	—	5	60	10	100	483131		
Φ2×5×80	2	—	—	5	80	10	100	446279		
Φ2×5×100	2	—	—	5	100	10	100	446280		
Φ2×5×120	2	—	—	5	120	10	100	446281		
Φ2×5×150	2	—	—	5	150	10	100	446282		
Φ2×5×180	2	—	—	5	180	10	100	483136		
Φ2×5×200	2	—	—	5	200	10	100	483137		
Φ2×5×250	2	—	—	5	250	10	100	483138		
Φ2×5×300	2	—	—	5	300	10	100	483139		
Φ2×5×400	2	—	—	5	400	10	100	483140		
Φ3×0.4×60	Φ3×0.4t	30	3	—	60	10	100	483141		
Φ4×0.6×60	Φ4×0.6t	30	4	—	60	10	100	483142		
Φ5×0.7×60	Φ5×0.7t	—	—	5	60	10	100	483143		
H2×3×70	H2	30	3	—	70	10	100	483151		
H2.5×3×70	H2.5	30	3	—	70	10	100	483152		
H3×4×70	H3	30	4	—	70	10	100	483153		
H4×5×70	H4	—	—	5	70	10	100	483154		

EDP number with mark * will be shifted to the other number in parenthesis.

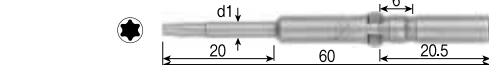
Socket Bit




Model No.	(mm)	Size	φD	L	(mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F4×60		A/F 4	7	60		10	100	483941
A/F4.5×60		A/F 4.5	7	60		10	100	483942
A/F5×60		A/F 5	8	60		10	100	483943
A/F5.5×60		A/F 5.5	8	60		10	100	483944

No. D76 TORX Bit

- For fastening small screws for HDDs, etc.
- Bit tip high-precision-machined to thread standards.



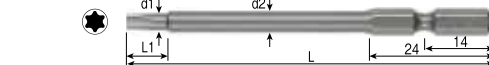
Model No. (mm)		d1 (mm)	Inner Ctn.	Outer Ctn.	EDP No.
T5 × 60	1.37	2.0	10	100	635651
T6 × 60	1.65	2.5	10	100	635652
T7 × 60	1.97	2.5	10	100	635653
T8 × 60	2.3	3.0	10	100	635654
T9 × 60	2.48	3.0	10	100	635655
T10× 60	2.72	3.0	10	100	635656
T15× 60	3.26	4.0	10	100	635657
T20× 60	3.84	—	10	100	635658
T25× 60	4.4	—	10	100	635659


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. N TORX Bit

- For fastening small screws for HDDs, etc.
- Bit tip high-precision-machined to thread standards.

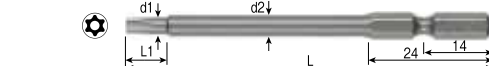



Model No.		d1	L1	d2	Inner Ctn.	EDP No.
T5 × 75	1.37	1.67	6.5	4.0	10	635498
100	1.37	1.67	6.5	4.0	10	635499
T6 × 75	1.65	1.95	6.5	4.0	10	635500
100	1.65	1.95	6.5	4.0	10	635501
T8 × 75	2.3	2.60	7.0	4.5	10	635505
100	2.3	2.60	7.0	4.5	10	635506
T10× 75	2.72	3.02	7.5	4.5	10	635510
100	2.72	3.02	7.5	4.5	10	635511
T15× 75	3.26	3.56	7.5	4.5	10	635515
100	3.26	3.56	7.5	4.5	10	635516
T20× 75	3.84	4.14	7.5	5.0	10	635520
100	3.84	4.14	7.5	5.0	10	635521
T25× 75	4.4	4.70	8.0	5.0	10	635525
100	4.4	4.70	8.0	5.0	10	635526
T27× 75	4.96	5.26	8.0	5.5	10	635530
100	4.96	5.26	8.0	5.5	10	635531

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. N TORX Bit (Tamper-Proof)

- For fastening small screws for HDDs, etc.
- Bit tip high-precision-machined to thread standards.
- With a round hole for tamper-proof.



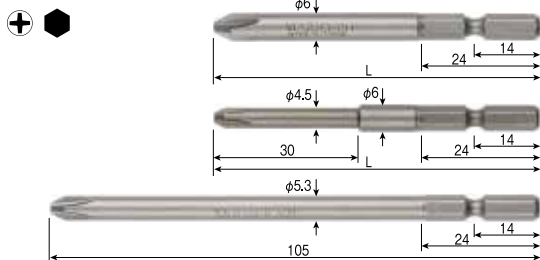
Model No.	(mm)		d1	L1	d2	(mm)	Inner Ctn.	EDP No.
T10H× 75	2.72	3.02	7.5	4.5			10	635551
	100	2.72	3.02	7.5	4.5		10	635552
T15H× 75	3.26	3.56	7.5	4.5			10	635553
	100	3.26	3.56	7.5	4.5		10	635554
T20H× 75	3.84	4.14	7.5	5.0			10	635555
	100	3.84	4.14	7.5	5.0		10	635556
T25H× 75	4.4	4.70	8.0	5.0			10	635557
	100	4.4	4.70	8.0	5.0		10	635558

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

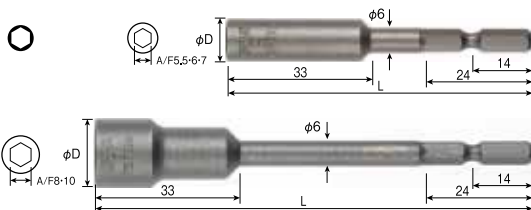
- For fastening various small screws and tapping screws for sheet metals.
- Bit tip high-precision-machined to thread standards.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⌀1 × 70	H	10	100	422031
100	H	10	100	422032
150	H	10	100	422033
⌀1 × 4 × 70	H	10	100	422048
⌀1 × 4 × 30 × 70	H	10	10	446335
⌀1 × 5.3 × 105	H	10	100	422034
★ 120	X	10	100	422040
120	H	10	100	422035
⌀2 × 70	H	10	100	422041
100	H	10	100	422042
120	H	10	100	422045
150	H	10	100	422043
200	H	10	100	422044
⌀2 × 3 × 30 × 75	H	10	100	446340
⌀2 × 4.5 × 70	H	10	100	422049
⌀2 × 5.3 × 105	H	10	100	422046
120	H	10	100	422047
H 2 × 70	H	10	100	422071
H 2.5 × 70	H	10	100	422072
H 3 × 70	H	10	100	422073
H 4 × 70	H	10	100	422074
H 5 × 70	H	10	100	422075

No. B44 Socket bit

- For fastening screws for electric appliances and hex head tapping screws.



Size Tip×Overall Length (mm)	φD	Hole depth (mm)	Inner Ctn. (mm)	Outer Ctn.	EDP No.
A/F 5.5 × 70	9	25	10	250	422371
100	9	25	10	250	422381
6 × 70	10	25	10	200	422372
100	10	25	10	200	422382
7 × 70	11	25	10	200	422373
100	11	25	10	150	422383
8 × 70	13	25	10	200	422374
100	13	25	10	150	422384
10 × 100	16	25	10	100	422385

M4/M5/M6

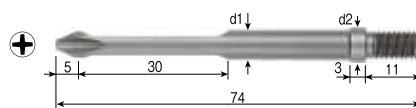
Other bits for screw fastening robots than the following can be custom-made.
Please contact VESSEL with detailed information, listed in the right "One point" column.

No. 3491/34,3492/34 Screw Shank Driver Bit



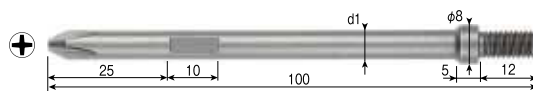
Model No.	Size Tip×Overall Length (mm)	M	Inner Ctn.	Outer Ctn.	EDP No.
3491/34	⌀1 × 34 -M4	M4	10	100	489656
3492/34	⌀2 × 34 -M4	M4	10	100	489657

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



Model No. (mm)	d1	d2	Inner (mm)	Outer Ctn.	EDP No.
⌀2 × 74-M5 P0.8	5.0	6.0	10	100	483301
⌀2 × 74-M6 P1.0	6.0	7.0	10	100	483302

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



Model No. (mm)	d1	d2	Inner (mm)	Outer Ctn.	EDP No.
⌀2 × 100-M6 P1.0	6.0	—	10	100	483303

One point

Custom-Made Bits

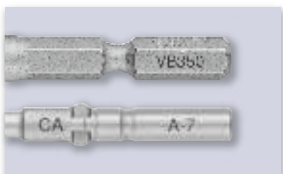
If you cannot find an appropriate bit among our standard line-up, VESSEL can also produce specially designed bits for your application.



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.



Order-made bit database
All the previous orders are recorded and organized by computer system.



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



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.

How to request for customized bits for automated machinery

Type of screw drive			
Type and size of screw drive	A×B	M	mm
		P	mm
		L	mm
Hardness	Sample screw	Available/ Not available	
Tolerance	To be specified/ To be based on VESSEL standards	Official drawing	Available/ Not available
Surface treatment	Black oxide finish Shot blasting	Quantity	

Outline for made-to-order bit

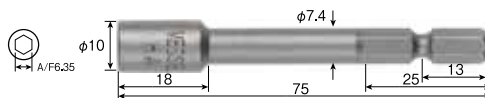
- Arrangement** We receive a minimum order of 10 pieces including test samples. Since the more the number of bits ordered, the less the unit cost becomes, we recommend you to make a bulk purchase for production.
- Delivery deadline** Normally, we ship products within 21 work days after receiving your order. Regarding bits for Torx and automatic machine (screw thread cutting), we try to ship products within 25 work days after receiving your order.

*For some types of bits, more time may be needed to machine specific dies and jigs.
*For delivery deadline, we will inform you each time.

Size H 6.35 mm

No. HA Bit Holder

- Holds a bit with C-pin.
- Cutting chips do not attach to the bit.



Size	Inner Ctn.	Outer Ctn.	EDP No.
Tip×Overall Length (mm)			
A/F6.35× 75	10	100	482410

No. HAM Bit Holder

- Holds the bit with a strong magnetic force.

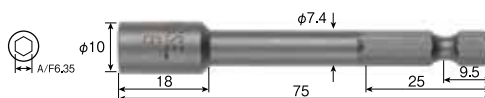


Size	Inner Ctn.	Outer Ctn.	EDP No.
Tip×Overall Length (mm)			
A/F6.35× 75	10	100	482415

Size H 6.35 mm

No. HB Bit Holder

- Holds a bit with C-pin.
- Cutting chips do not attach to the bit.



Size	Inner Ctn.	Outer Ctn.	EDP No.
Tip×Overall Length (mm)			
A/F6.35× 75	10	100	482420

No. HBM Bit Holder

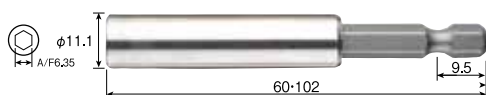
- Holds the bit with a strong magnetic force.



Size	Inner Ctn.	Outer Ctn.	EDP No.
Tip×Overall Length (mm)			
A/F6.35× 75	10	100	482425

No. DBH-01 Bit Holder

- Holds a bit with C-pin.



Size Tip×Overall Length		Inner Ctn.	EDP No.
* A/F6.35×60	—	10	482431
* A/F6.35×102(BH44)	—	10	487366

No. BH423M Bit Holder

Size Tip×Overall Length		Inner Ctn.	EDP No.
A/F6.35×75	—	10	487370

No. DBHM-01 Double Bit Holder

- Popular bit holders.



Size Tip×Overall Length		Inner Ctn.	EDP No.
A/F6.35×60	—	10	482433

No. HD-71×45 Bit Holder

- By attaching a crescentic shank shape precision bit, it can be used with compact electric screwdrivers.



Size Overall Length (mm)		Inner Ctn.	Outer Ctn.	EDP No.
45	—	10	100	482429

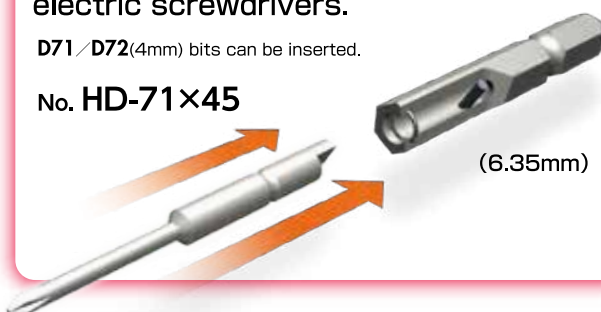
* Bit is not included.

One point

Precision bits can be installed to electric screwdrivers.

D71 / D72 (4mm) bits can be inserted.

No. HD-71×45



(6.35mm)

No. MMBC-J Magnet Screw Catcher

●Micro magnet screw catchers.



Size Tip×Overall Length (mm)	Tip size	L	Inner Ctn.	EDP No.
T10× 49	T10	49	10	447111
70	T10	70	10	447112
T15× 49	T15	49	10	447115
70	T15	70	10	447116
T20× 49	T20	49	10	447113
75	T20	75	10	447101
150	T20	150	10	447109
T25× 49	T25	49	10	447117
70	T25	70	10	447118

●H 6.35 mm

No. MMBC Magnet Screw Catcher

●Micro magnet screw catchers.



Size Tip×Overall Length (mm)	Tip size	L	Inner Ctn.	EDP No.
T10× 33	T10	33	10	447104
T15× 33	T15	33	10	447102
T20× 33	T20	33	10	447103
T25× 33	T25	33	10	447110
PH1× 33	PH1	33	10	447105
PH2× 33	PH2	33	10	447106
PZ1× 33	PZ1	33	10	447107
PZ2× 33	PZ2	33	10	447108

Replacement Bits For MMBC Series



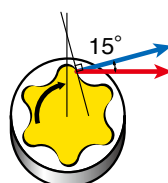
Size Tip×Overall Length (mm)		Inner Ctn.	EDP No.
PH1× 33	bit only, for MMBC	10	447333
PH2× 33	bit only, for MMBC	10	447334
PZ1× 33	bit only, for MMBC	10	447335
PZ2× 33	bit only, for MMBC	10	447336
T10× 33	bit only, for MMBC	10	447329
T10× 49	bit only, for MMBC-J	10	447337
T10× 70	bit only, for MMBC-J	10	447338
T15× 33	bit only, for MMBC	10	447330
T15× 49	bit only, for MMBC-J	10	447361
T15× 70	bit only, for MMBC-J	10	447362
T20× 33	bit only, for MMBC	10	447331
T20× 49	bit only, for MMBC-J	10	447339
T20× 75	bit only, for MMBC-J	10	447340
T20×150	bit only, for MMBC-J	10	447341
T25× 33	bit only, for MMBC	10	447332

One point

Features of TORX Bits

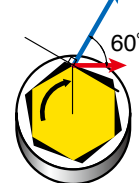


TORX has 6-lobe shaped curves. Compared to hexagonal shape driver, TORX has higher drive effectiveness and transfers torque smoothly and accurately while eliminating "CAM-OUT".



TORX

TORX transfers max torque due to small driving angle.



Hex

Meanwhile, Hex square drive need max upload torque to transfer for large driving angle to other directions.

Driving Torque

Loading Torque

TAMPER-PROOF TORX SYSTEM



Added function of "Never Touch Screw" a post in the middle of the recess for maximum security eliminates regular TORX drive or any other flat screwdrivers for safety. Tamper proof screws are mostly used at communication equipment and computers so as not to abuse the screwing/unscrewing due to its design and control of function. Keep off unscrewing unless otherwise maintenance serving practiced.

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. A4 TORX Bit

●Can be used by attaching to a bit holder.



Size Tip No.	mm	Overall Length (mm)	Inner Ctn.	EDP No.
T6	1.65	25.4	10	635400
T8	2.3	25.4	10	635401
T10	2.72	25.4	10	635402
T15	3.26	25.4	10	635403
T20	3.84	25.4	10	635404
T25	4.4	25.4	10	635405
T27	4.96	25.4	10	635406
T30	5.49	25.4	10	635407
T40	6.6	25.4	10	635408

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.

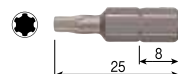


Model No.	Size	mm	Overall Length (mm)	Inner Ctn.	EDP No.
T3/25	T3	1.12	25	10	489154
T5/25	T5	1.37	25	10	489155
T7/25	T7	1.99	25	10	489157
T27/25	T27	4.96	25	10	489164
★ TF08/25	T8H	2.31	25	10	446392
★ TF09/25	T9H	2.5	25	10	446393
★ TF15/25	T15H	3.26	25	10	489168
★ TF25/25	T25H	4.43	25	10	489170
★ TF27/25	T27H	4.96	25	10	489171
★ TF30/25	T30H	5.49	25	10	489172

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. IP TORX Plus Bit

●Can be used by attaching to a bit holder.



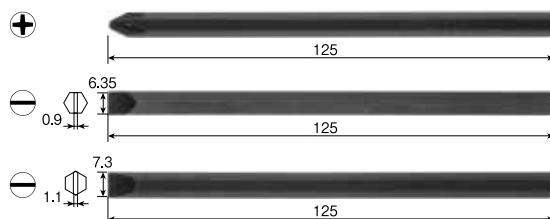
TORX

Size Tip No.	mm	Overall Length (mm)	Inner Ctn.	EDP No.
15IP	3.26	25	10	447204
20IP	3.84	25	10	447205
25IP	4.4	25	10	447206
30IP	5.49	25	10	447207
40IP	6.6	25	10	447208

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.

H 6.35 mm

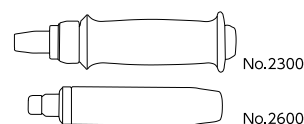
No. C50 Impact Driver Bit



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	EDP No.
⊕ 1× 125	G	10	431301
⊕ 2× 125	G	10	431302
⊕ 3× 125	G	10	431303
⊖ 5× 125	G	10	431311
⊖ 6× 125	G	10	431312
⊖ 7× 125	G	10	431313

Applicable models

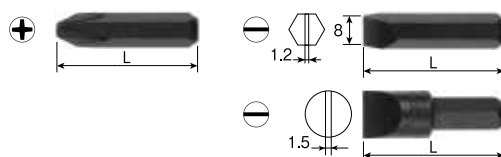
No.2300
No.2600A
No.230001
No.260002



Model No.	Contents	Set content	Inner Ctn.	EDP No.
2300• 2600A Bit Set	1 for each	C50 ⊕1, ⊕2, ⊕3, ⊖5, ⊖6, ⊖7×125mm	1	431701

H 8 mm

No. C51 Impact Driver Bit



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 36	G	10	250	431041
80	G	10	250	431042
⊕ 3× 36	E	10	250	431051
80	E	10	250	431052
⊕ 4× 36	E	10	250	431061
⊖ 8× 36	E	10	250	431171
80	E	10	250	431172
⊖ 10× 36	E	10	250	431271
80	E	10	200	431272
⊖ 12× 36	E	10	200	431273

Applicable models

No.2500
No.240001
No.250001



Model No.	Contents	Set content	Inner Ctn.	Outer Ctn.	EDP No.
2500 Bit Set	1 for each	C51 ⊕2, ⊕3, ⊕4, ⊖10×36mm	1	50	431801

■ 9.5 mm Attachment for Impact Driver

No. S6 TORX Socket

- SQ9.5mm TORX sockets for impact wrenches



Size Tip×Overall Length (mm)	mm	d1 (mm)	EDP No.
T30× 75	▲	5.49 5.79	— 635681
T40× 75	▲	6.6 6.9	— 635682
T45× 75	▲	7.77 8.0	— 635683
T50× 75	▲	8.79 10.0	— 635684

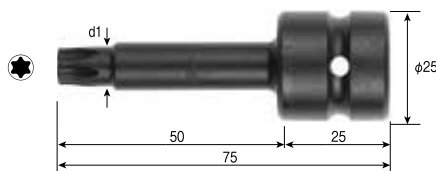
▲For the date of delivery, consult Vessel.

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.

■ 12.7 mm Attachment for Impact Driver

No. S8 TORX Socket

- SQ12.7mm TORX sockets for impact wrenches.



Size Tip×Overall Length (mm)	mm	d1 (mm)	EDP No.
T40× 75	▲	6.6 6.9	— 635691
T45× 75	▲	7.77 8.0	— 635692
T50× 75	▲	8.79 9.09	— 635693

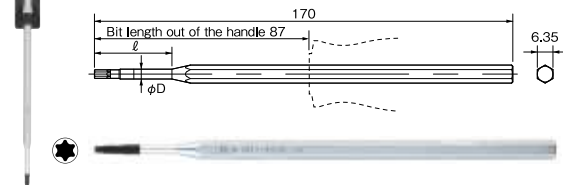
▲For the date of delivery, consult Vessel.

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. BTX Blades for Torque Screwdrivers

- Blades for TORX screws.
- Adopted for replacement of chips of machine tools that has been going up in speed.

Cr-V Mo
Steel



Model No.	Tip	mm	ℓ (mm)	φD (mm)	Outer Ctn.	EDP No.
BTX06	T6	1.69	30	3.5	10	173206
BTX07	T7	1.97	30	3.5	10	173207
BTX08	T8	2.3	30	3.5	10	173208
BTX10	T10	2.72	30	3.5	10	173210
BTX15	T15	3.26	32	4.5	10	173215
BTX20	T20	3.84	34	5	10	173220

No. B IP Blades for Torque Screwdrivers

- Blades for TORX PLUS screws.
- Adopted for replacement of chips of machine tools that has been going up in speed.

TORX
Cr-V Mo
Steel



Model No.	Tip	mm	ℓ (mm)	φD (mm)	Outer Ctn.	EDP No.
B06IP	6IP	1.69	30	3.5	10	173106
B07IP	7IP	1.97	30	3.5	10	173107
B08IP	8IP	2.29	30	3.5	10	173108
B09IP	9IP	2.48	30	3.5	10	173109
B10IP	10IP	2.72	30	3.5	10	173110
B15IP	15IP	3.25	30	4.5	10	173111

No. BPH Blades for Torque Screwdrivers

- Blades for Phillips screws.
- Optimal for tightening control of various terminal blocks.

Cr-V Mo
Steel



Model No.	Tip	ℓ (mm)	φD (mm)	Outer Ctn.	EDP No.
BPH01	⊕1	35	5	10	173301
BPH02	⊕2	35	6	10	173302
BPH03	⊕3	—	—	10	173303

No. BHX Blades for Torque Screwdrivers

- Blades for hexagonal socket head bolts and set screw.
- Optimum for assembly of machines or automatic equipment.

Cr-V Mo
Steel



Model No.	Tip	mm	ℓ (mm)	φD (mm)	Outer Ctn.	EDP No.
BHX15	H1.5	1.5	29.5	3	10	173321
BHX20	H2	2	29.5	3	10	173322
BHX25	H2.5	2.5	29.5	3	10	173323
BHX30	H3	3	32	4	10	173324
BHX40	H4	4	34	5	10	173325
BHX50	H5	5	36	6	10	173326