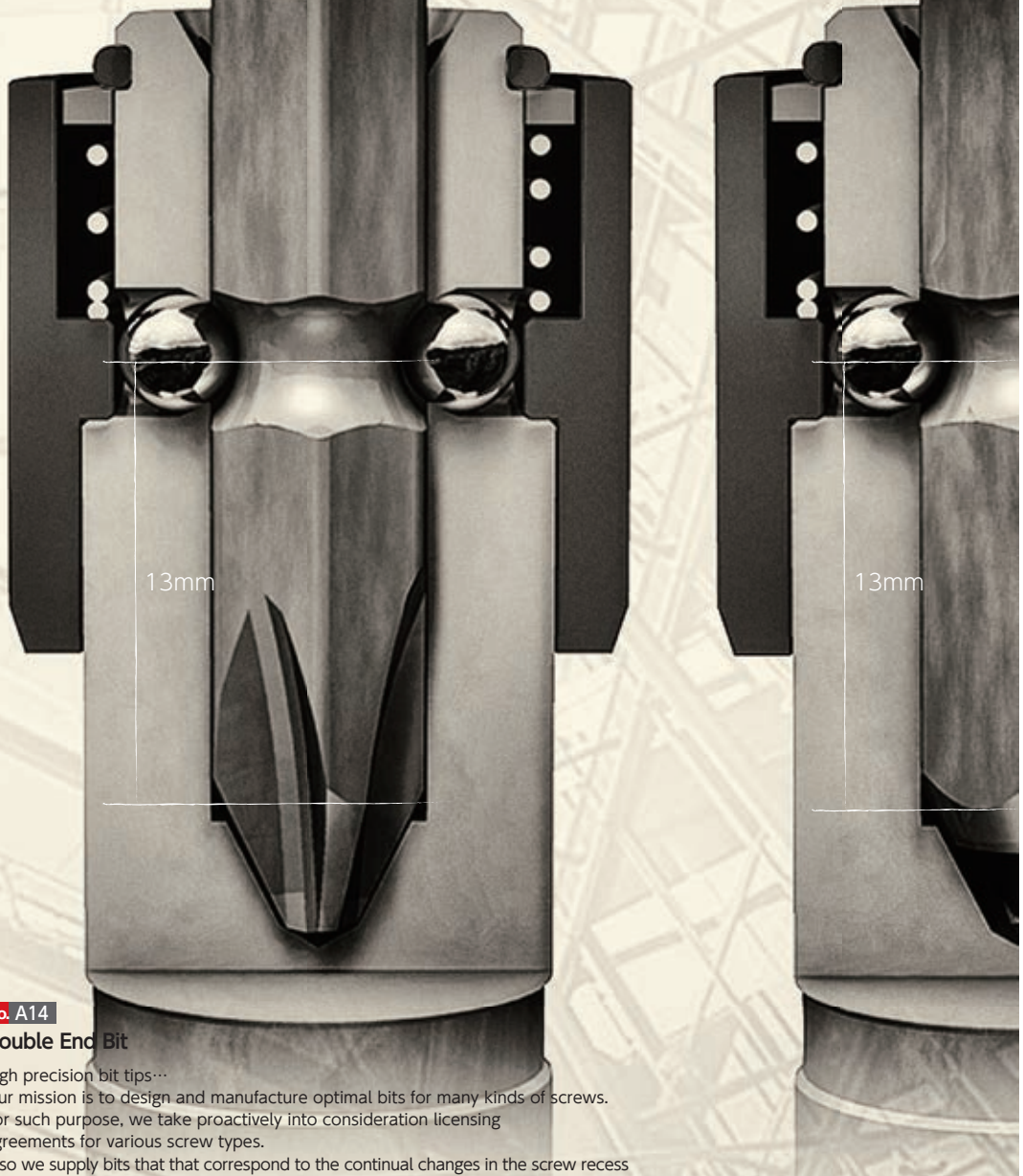


Double End Bit Type A



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 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	<p>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·P6OXD·P6LXD·S6LXD·S6OXD·PLIXD·P5XD</p> <p>Hitachi Koki WH 12AB2·12H2</p> <p>NPK ND-○○○Y NPW-○○○Y SD-4</p> <p>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</p> <p>Makita AD604·AD605H</p> <p>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</p> <p>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</p> <p>MAX AT-ID6P1·HF-ID7P1</p>	<p>VESSEL VE-5000·5000P·6000·6000P</p> <p>Toshiba CI-144VBKS</p> <p>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</p> <p>(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</p> <p>●The models in blue letters are the screwdrivers for light steel substrates and boards. It is recommended to use a 45mm long bit.</p> <p>Makita TD 0220·021D·061D·090D·110D·135D·134D·146D·134DX2·146DX2·134D5HX·160D·170D·138D·149D·136D·137D·146D·147D·148D TL 060D·061D TP 140D·131D·141D TS 131D·141D 6955·6963PK DF 010D·030D·031D</p> <p>Panasonic EZ 75A7·75A1·7544·7207·6506·7545·7521·7520·7548·6507·7410·7411·7420·6220</p> <p>Ryobi BD-361 BID-1100·180·1810·1228·1229·1250·1260·1415·1416·1417·1418·143·1440·145·1805·1806 CID-1100 ID-140</p> <p>Tonichi AUR5N</p> <p>MAX PJ-ID144·SD101</p> <p>Yokota YBX-50B</p>	
	A14P	63P			
	M-A14				
	A14H				
	A14B				
	AZ14				
	AS14				
	A14R				64P
	AL14				
	AT14				
AT14P	65P				
ST14	66P				
 H 6.35 mm	A16	65P 66P	<p>Makita TD 0220·021D·061D·090D·110D·135D·134D·146D·134DX2·146DX2·134D5HX·160D·170D·138D·149D·136D·137D·146D·147D·148D TL 060D·061D TP 140D·131D·141D TS 131D·141D 6955·6963PK DF 010D·030D·031D</p> <p>Panasonic EZ 75A7·75A1·7544·7207·6506·7545·7521·7520·7548·6507·7410·7411·7420·6220</p> <p>Ryobi BD-361 BID-1100·180·1810·1228·1229·1250·1260·1415·1416·1417·1418·143·1440·145·1805·1806 CID-1100 ID-140</p> <p>Tonichi AUR5N</p> <p>MAX PJ-ID144·SD101</p> <p>Yokota YBX-50B</p>	<p>●The models in blue letters are the screwdrivers for light steel substrates and boards. It is recommended to use a 45mm long bit.</p>	
	M-A16	66P			
	D81	66P 67P			
	V	66P 67P			
	A20	67P			
	A20-5	68P			
	SB	86P			
	MA20	87P			
	MA20S				
	HA				
HAM					
HD-71 × 45					
 H 6.35 mm	D830082	108P	<p>Panasonic EZ 6220·6225·7410·7411</p> <p>Ryobi D-500</p>		
	D831045				
	D831075				
	D832075				
	D832100				
D832150					
 H 8 mm	A15	68P	<p>VESSEL GT-P8D·P10SII·P8OXD</p> <p>Hitachi Koki WH 14DA</p> <p>Panasonic EZ6680</p>		
	A19	68P			
	V5				

HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS

AIR TOOLS

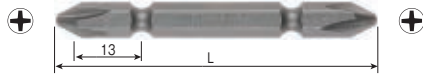
STATIC SOLUTIONS

GASOLINE ENGINE TOOLS



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)

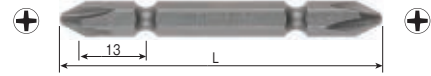
- If one end breaks, the other end can be used. ● Reinforced tip for tapping work.



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.

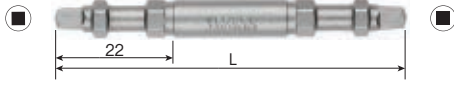


Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1× 65	H	10	100	413367
⊕ 2× 45	H	10	100	413366
65	H	10	100	413364
110	H	10	100	413365



No. A14 Square Double End Bit

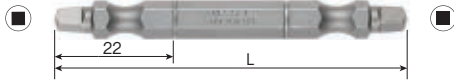
- If one end breaks, the other end can be used.
- Specially-shaped tip prevents the bit from getting stuck.



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	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.

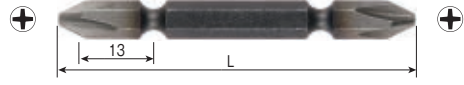


Size	Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
SDV1×	65	H	10	100	636101
SDV2×	45	H	10	100	636105
	65	H	10	100	636106
SDV3×	65	H	10	100	636111



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.

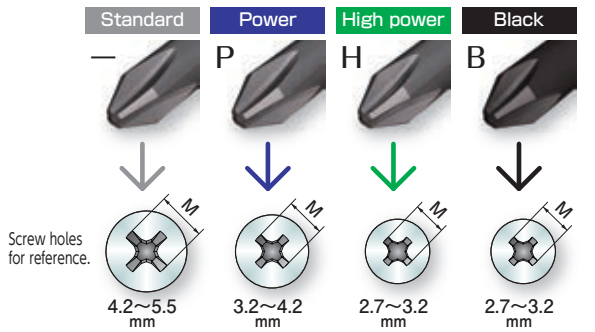
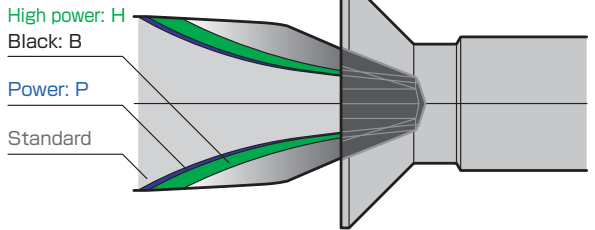


Size	Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2×	65	H	10	100	413369
	110	H	10	100	413370

One point

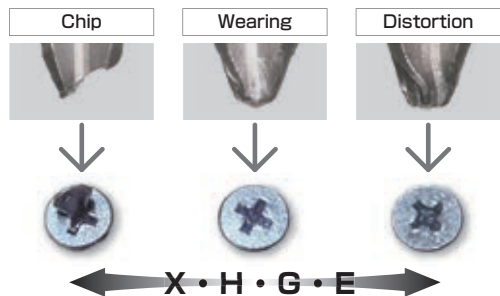
Bit selection I

- 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



HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS

AIR TOOLS

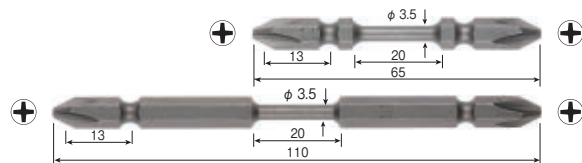
STATIC SOLUTIONS

GASOLINE ENGINE TOOLS



No. AT14 TORSION Bit

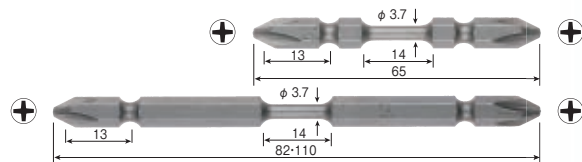
- If one end breaks, the other end can be used.
- For soft joint such as wood screws.



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.

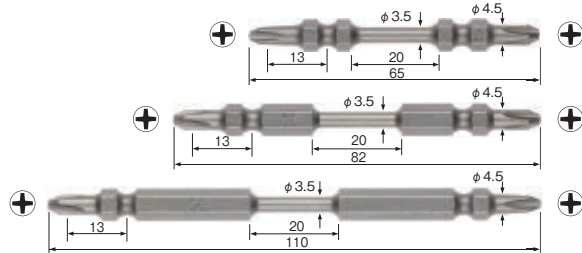


Size Tip×φ×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2×3.7× 65	X	10	100	415361
82	X	10	100	415362
110	X	10	100	415363

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.

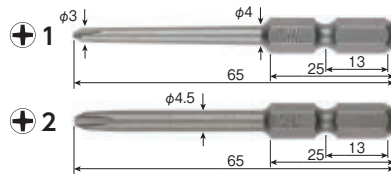


Size Tip×φ×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1×3.5× 65	H	10	100	413374
⊕ 2×3.5× 65	H	10	100	413375
82	H	10	100	413377
110	H	10	100	413376



No. A16 Recessed Bit

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

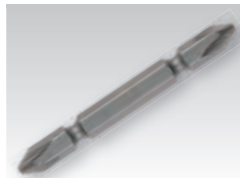


Size Tip×φ×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1×3 × 65	H	10	100	415061
⊕ 2×4.5× 65	H	10	100	415066

One point

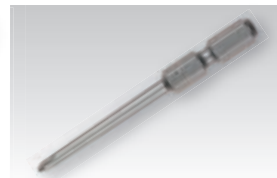
Bit selection II

- 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.

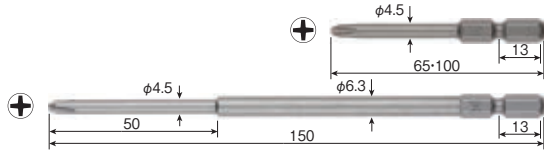
- Selection according to torsion effect

AL14	AT14/ST14	AT14P
<p>Ball groove</p> <p>Impact is absorbed by the torsion effect at the slot which receives tempering treatment.</p>	<p>φ3.5</p> <p>20mm</p> <p>Impact is absorbed by the torsion part (φ3.5×20mm).</p>	<p>φ3.7</p> <p>14mm</p> <p>Impact is absorbed by the torsion part (φ3.7×14mm).</p>
<p>Hard Joint</p>	<p>Soft Joint</p>	<p>Hard Joint</p>
<p>Soft Joint</p>	<p>Hard Joint</p> <p>When an instantaneous impact is given when the head of drill screw and tapping screw is fully seated</p>	<p>Soft Joint</p> <p>When load is gradually increased such as in fastening wood screws</p>



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

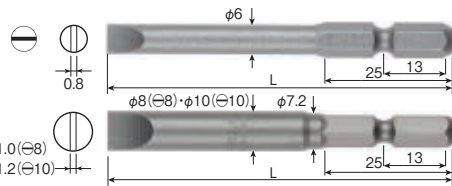
- For assembly work focusing on workability.



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

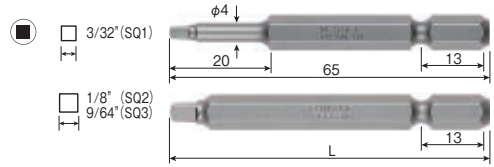
- For assembly work focusing on workability.



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

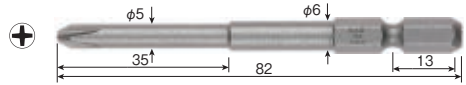
- For assembly work focusing on workability.



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

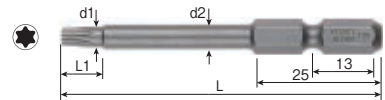
- Recessed type. Thin shank allows for use in narrow spaces.



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.

HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS

AIR TOOLS

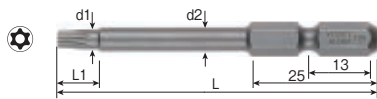
STATIC SOLUTIONS

GASOLINE ENGINE TOOLS



No. V TORX Bit (Tamper-Proof)

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

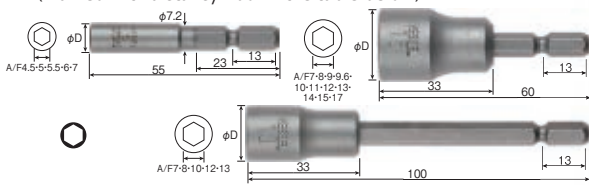


Size	Tip×Overall Length (mm)	d1 (mm)	L1 (mm)	d2 (mm)	Inner Ctn. (mm)	Outer Ctn. (mm)	EDP No.
T8H × 65	2.3 2.60	7.0	4.5	10	635032		
110	2.3 2.60	7.0	4.5	10	635033		
T10H× 65	2.72 3.02	7.5	4.5	10	635001		
110	2.72 3.02	7.5	4.5	10	635002		
T15H× 65	3.26 3.56	7.5	4.5	10	635005		
110	3.26 3.56	7.5	4.5	10	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		

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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)

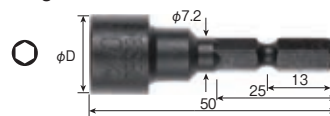


Size	Tip×Overall Length (mm)	φD (mm)	Hole depth (mm)	Inner Ctn. (mm)	Outer Ctn. (mm)	EDP No.
A/F 4.5 × 55	7.5	20	10	250	416080	
5 × 55	8.5	20	10	250	416081	
5.5 × 55	9	20	10	250	416082	
100	9	25	10	250	416281	
6 × 55	10	20	10	200	416083	
100	10	25	10	200	416282	
7 × 11 × 55	11	20	10	200	416084	
100	11	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.

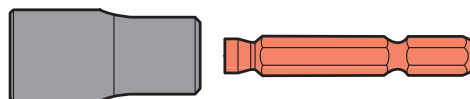


Size	Tip×Overall Length (mm)	φD (mm)	Drilling holes depth (mm)	Inner Ctn. (mm)	Outer Ctn. (mm)	EDP No.
A/F 10 × 50	16	10	10	150	416396	

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

