

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: $A \times B$, M (mm)

Diagram labels: P (mm), L_1 (mm), L_2 (mm), L (mm)

Hardness	Sample screw	Available/ Not available
Tolerance	To be specified/ To be based on VESSEL standards	Official drawing
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.

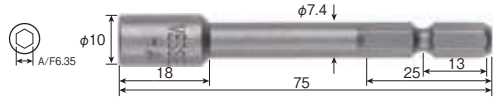
Delivery deadline Normally, we ship products within 21 work days after receiving your order. Regarding bits for Torx and automatic machine (screw thread cutting), we try to ship products within 25 work days after receiving your order.

*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.



No. HA Bit Holder

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



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

No. HAM Bit Holder

- Holds the bit with a strong magnetic force.

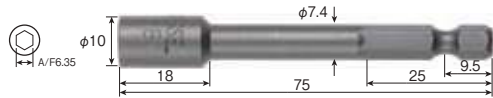


Size Tip×Overall Length (mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F6.35× 75	—	10 100	482415



No. HB Bit Holder

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



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

No. HBM Bit Holder

- Holds the bit with a strong magnetic force.



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

HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS

AIR TOOLS

STATIC SOLUTIONS

GASOLINE ENGINE TOOLS

No. DBH-01 Bit Holder

● Holds a bit with C-pin.



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

No. BH423M Bit Holder



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

No. DBHM-01 Double Bit Holder

● Popular bit holders.



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

No. DBH-02 Bit Holder

● Popular bit holders.



Size Tip×Overall Length	Inner Ctn.	EDP No.
A/F6.45×62	—	482432

No. DBHM-02 Double Bit Holder

● Popular bit holders.



Size Tip×Overall Length	Inner Ctn.	EDP No.
A/F6.45×62	—	482434

No. HD-71×45 Bit Holder

● By attaching a crescent 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



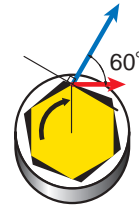
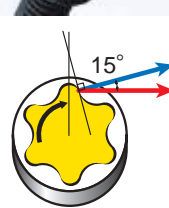
Size Tip×Overall Length (mm)		Inner Ctn.	EDP No.
PH1× 33	bit only, for MMBC	10	447333
PH2× 33	bit only, for MMBC	10	447334
PZ1× 33	bit only, for MMBC	10	447335
PZ2× 33	bit only, for MMBC	10	447336
T10× 33	bit only, for MMBC	10	447329
T10× 49	bit only, for MMBC-J	10	447337
T10× 70	bit only, for MMBC-J	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".



Driving Torque
Loading Torque

TORX

TORX transfers max torque due to small driving angle.

Hex

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

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.

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HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS

AIR TOOLS

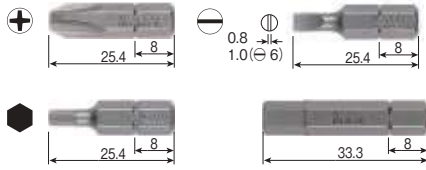
STATIC SOLUTIONS

GASOLINE ENGINE TOOLS



No. B33 Short Bit (For Bit Holder)

● Can be used by attaching to a bit holder.

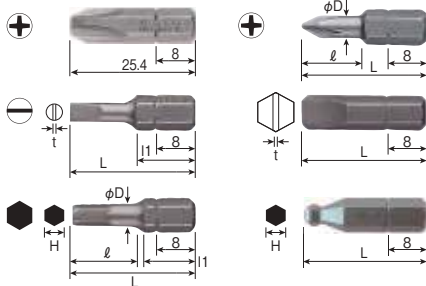


Model No. (mm)	Heat treatment classification	Tip	L	Inner Ctn. (mm)	Outer Ctn.	EDP No.
Φ1 × 25.4	H	Φ1	25.4	10	100	421231
Φ2 × 25.4	H	Φ2	25.4	10	100	421241
Φ3 × 25.4	G	Φ3	25.4	10	100	421242
Φ4 × 25.4	H	Φ4	25.4	10	100	421251
Φ6 × 25.4	H	Φ6	25.4	10	100	421252
H2 × 25.4	H	H2	25.4	10	100	421260
H2.5 × 25.4	H	H2.5	25.4	10	100	421261
H3 × 25.4	H	H3	25.4	10	100	421262
H4 × 33.3	H	H4	33.3	10	100	421263
H5 × 33.3	H	H5	33.3	10	100	421264
H6 × 33.3	H	H6	33.3	10	100	421265

Model No.	Contents	Set content	Inner Ctn.	Outer Ctn.	EDP No.
B33 Driver Bit Set	1 for each	Φ1, Φ2, Φ3, Φ4, Φ6 × 25.4 with holder	1	10	421270
B33 Hex. Bit Set	1 for each	H 2, 2.5, 3 × 25.4 H 4, 5, 6 × 33.3 with holder	1	10	421271

No. B33 Short Bit (For Bit Holder)

● Can be used by attaching to a bit holder.



Model No. (mm)	Heat treatment classification	Tip	φD	ℓ	l1	L (mm)	Outer Ctn.	EDP No.
* 1001	H	Φ1	—	—	—	25.4	10	487105
* 3002R/25	H	Φ2	6	12	—	25	10	489003
* 1002	H	Φ2	—	—	—	25.4	10	487106
1002X	X	Φ2	—	—	—	25.4	10	487502
5603/25	H	Φ3 × 0.5t	—	—	11	25	10	489061
5635/25	H	Φ3.5 × 0.55t	—	—	11	25	10	489678
* 1501	H	Φ4.76 × 0.86t	—	—	—	25.4	10	487120
* 1502	H	Φ5.56 × 1.02t	—	—	—	25.4	10	487121
* 1503	H	Φ6.35 × 1.07t	—	—	—	25.4	10	487122
* 1504	H	Φ7.14 × 1.17t	—	—	—	25.4	10	487123
* 1505	H	Φ8 × 1.27t	—	—	—	25.4	10	487124
30325/25	H	H2.5	3	4.5	11	25	10	489052
* 21005	H	H5	—	12.7	18	33.3	10	487143
3034/25	H	H4	4.75	6	11	25	10	489054
3036/25	H	H6	—	8	—	25	10	489056
3038/25	H	H8	—	10	—	25	10	489057
* 3760/25	H	BP H6	—	—	—	25	10	446407

No. B33 3-Flute Bit (For Bit Holder)

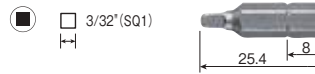
● Can be used by attaching to a bit holder.



Model No. (mm)	Heat treatment classification	Tip	L (mm)	Inner Ctn.	EDP No.
* 4002	H	TW2	25.4	10	446412
* 4004	H	TW4	25.4	10	446415

No. B33 Square Bits (For Bit Holder)

● Can be used by attaching to a bit holder.



Size Tip × Overall Length (mm)	Heat treatment classification	Inner Ctn.	EDP No.
SQ1 × 25.4 (3001)	H	10	487150



No. B33 Hex Bit (For Bit Holder)

● Can be used by attaching to a bit holder.



Model No. (mm)	Heat treatment classification	Tip	ℓ	L (mm)	Inner Ctn.	EDP No.
3048/34	H	H8	16	34	10	489105
3050/34	H	H10	16	34	10	489106

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

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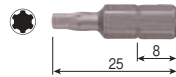


Model No.	Size	mm	Overall Length (mm)	Inner Ctn.	EDP No.
T3/25	T3	1.12	25	10	489154
T5/25	T5	1.37	25	10	489155
T7/25	T7	1.99	25	10	489157
T27/25	T27	4.96	25	10	489164
TF08/25	T8H	2.31	25	10	446392
TF09/25	T9H	2.5	25	10	446393
TF15/25	T15H	3.26	25	10	489168
TF25/25	T25H	4.43	25	10	489170
TF27/25	T27H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

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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

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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

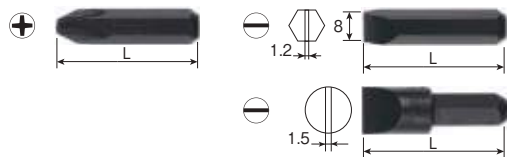
No.2300
No.2600A
No.230001
No.260002

No.2300
No.2600A

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

No.2500

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

HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS

AIR TOOLS

STATIC SOLUTIONS

GASOLINE ENGINE TOOLS

■ 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.

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■ 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.

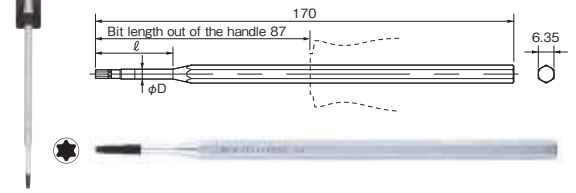
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No. BTX Blades for Torque Screwdrivers

●Blades for TORX screws.

●Adopted for replacement of chips of machine tools that has been going up in speed.

Cr-Mo Steel



Model No.	Tip	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 Plus Cr-Mo Steel



Model No.	Tip	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-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-Mo Steel



Model No.	Tip	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