



Industrial Bits



Challenging for best performing the dedication to high precision

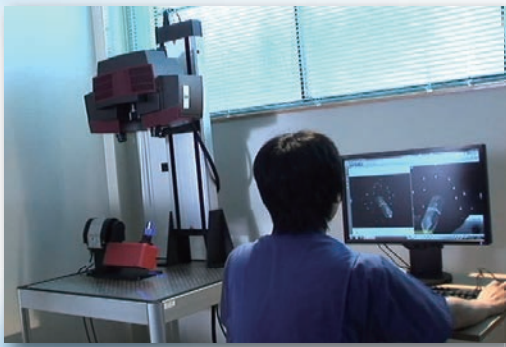
For **VESSEL**, quality means to meet bit users' applications.

The quality bit production is supported by the latest precise cutting machines, heat-treatment equipment, with the latest microscope for the precision cutting control.

Quality Control Specs.

More precision and superior quality to meet the latest electronic applications.

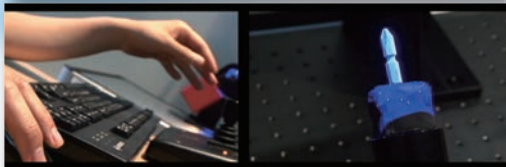
Updated production facilities and inspection equipment to meet today's high quality applications required in the market.



Microscope



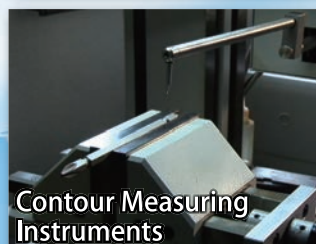
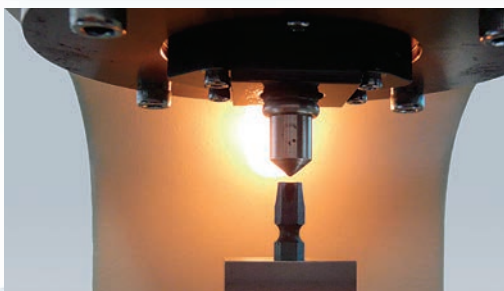
Cam-out testing



Torque Testing



Automated Thread
Fastening Machine



Contour Measuring
Instruments

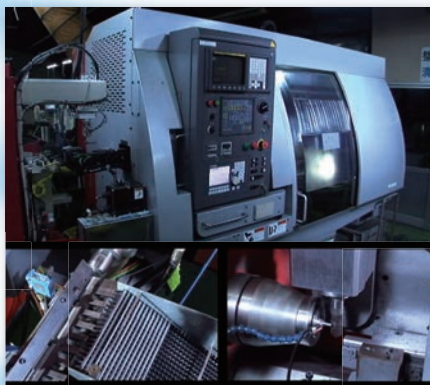
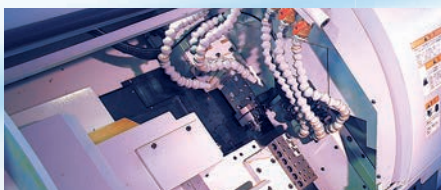
industrial bits, electronic device screw fastening

Latest Technology Support

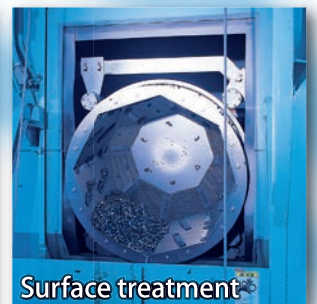
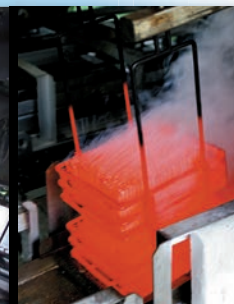
Consistent production system, from steel material selection, to machining, pressing, heat-treatment, surface finish, and final inspection before shipment



Plasma/vacuum furnaces add wider applications



24-hour unmanned operation with manufacturing systems for cutting-edge technology



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FOR SAFTY USE

Read the instruction manual and observe the safety precautions and warnings.

<http://www.vessel.co.jp/english/info/safety-bit.html>



- Do not use any bits if cracked, chipped, worn, deformed or otherwise not in perfect working order.
- Do not use on live current. Use bits and sockets of the required size for the target screws, bolts and nuts.
- Never drive power tools idly with bits or sockets attached.
- Shut off power before mounting or replacing bits.
- Wear protective goggles when working.

GENERAL INFORMATION

SELECTION OF THE PROPER HEAT TREATMENT

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

If your bits tend to get broken or chip-off, switch to a bit with less hardness. If your bits wore quickly, choose a harder bit. However, bits may often break or get worn due to various factors such as different operators, different torque values and different power tool settings.

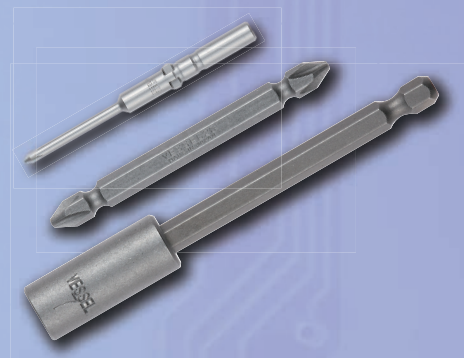
VESSEL industrial bits are classified according to three main heat treatment classes; "X", "H" and "G".

APPLICATIONS HEAT TREATMENT CLASS	SCREWS TO BE FASTENED	TYPE OF WORK	TYPE OF FIELD
X HIGHEST HARDNESS HRC 62±1	HIGH-HARDNESS SCREWS SUCH AS TAP SCREWS, SELF-DRILLING TAP SCREWS	LIGHT & LOW TORQUE WORK BY TORQUE CONTROL AIR S/DRIVER, ELECTRIC S/DRIVER, AUTOMATIC SCREW FASTENING DEVICE, FOR EXAMPLE	AUTOMATIC ASSEMBLY OF PRECISE EQUIPMENT & AUDIO EQUIPMENT
H HIGH HARDNESS HRC 60±1	MEDIUM-HARD SCREWS SUCH AS TAP SCREWS	MEDIUM & LOW TORQUE WORK BY SPEED-REDUCING AIR S/DRIVERS & ELECTRIC S/DRIVER, FOR EXAMPLE	ASSEMBLY & DISASSEMBLY OF HOME ELECTRICAPPLIANCES & ASSEMBLY OF COMMUNICATION EQUIPMENT & AUDIO EQUIPMENT
G STANDARD HARDNESS HRC 57±1	STANDARD HARDNESS SCREWS SUCH AS SMALLMACHINE SCREWS & WOOD SCREWS	HEAVY DUTY WORK INCLUDING HIGH TORQUE & HIGH IMPACT APPLICATIONS, ESPECIALLY USEFUL WITH IMPACT TYPE AIR S/DRIVER	AUDIO PARTS, MACHINE PARTS, WOODEN MOULDINGS SUCH AS WINDOW DOOR SASHES & FURNITURE

In general, high torque applications require "G" hardness to withstand twisting and resist breakage. The "H" hardness is for medium torque applications, and this class is most common and should be selected for normal application. The "X" hardness is most suitable for low torque applications, particularly if hardened screws are used.

In addition to above three classes, low hardness "E" HRC 55±1 and lowest hardness "S" HRC 53±1 are also available for use in heavy duty work where high impact is anticipated.

Dimensions and specifications are subject to be changed without notice in advance.



SHOCKLESS BIT

*Posed with the challenge
“Can fastening precision be improved
with the bit itself?”*

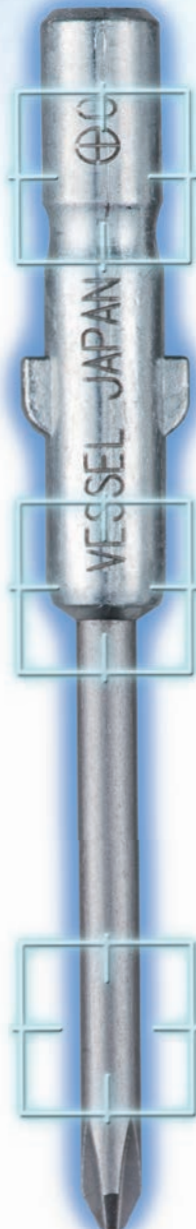
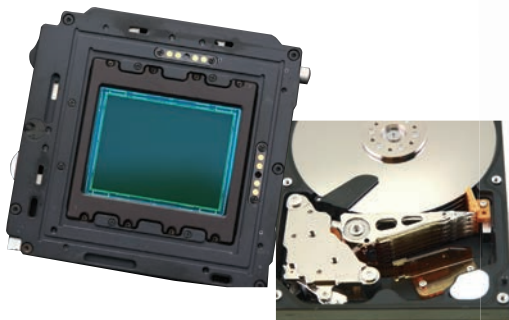
VESSEL sought out a single answer.

We found the hint in torsion bits.

By providing the bit with a torsion zone, the impact applied in the instant that the screw is seated is absorbed, and chipping of the tool tip is suppressed.

We were also able to greatly reduce the rush acceleration at the time of seating by reducing the bit's weight.

A more stable torque accuracy can be attained with the “Impact & Moment of Inertia Absorption” effect applied on the bit. VESSEL Shockless Bit.



Zinc die cast

**Combination of
different materials**

ECO Eco-friendly product

**Special alloy steel
Precision cutting
and hardening**



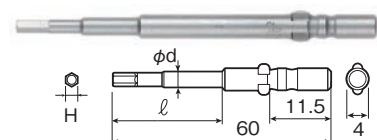
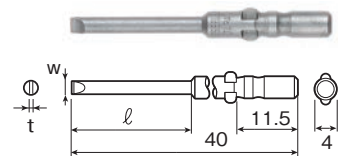
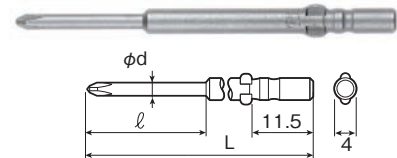
BITS FOR PRECISION SCREW

EDP No.	Model No.	PH	ϕd	ℓ	L
446001	D73 +00x1.2x20x40	00	1.2	20	40
445981	D73 +00x1.5x20x40	00	1.5	20	40
483001	D73 +00x1.5x40 ※	00	1.5	20	40
445982	D73 +00x1.5x20x60	00	1.5	20	60
483002	D73 +00x1.5x20x60 ※	00	1.5	20	60
446004	D73 +00x1.7x20x40	00	1.7	20	40
445983	D73 +00x2x40	00	2	20	40
483005	D73 +00x2x40 ※	00	2	20	40
445984	D73 +00x2x20x60	00	2	20	60
483006	D73 +00x2x60 ※	00	2	20	60
446016	D73 +0x1.4x20x40	0	1.4	20	40
446017	D73 +0x1.4x20x60	0	1.4	20	60
446022	D73 +0x1.5x20x40	0	1.5	20	40
446076	D73 +0x1.5x20x60	0	1.5	20	60
483010	D73 +0x1.7x40	0	1.7	20	40
483011	D73 +0x1.7x60	0	1.7	20	60
446025	D73 +0x2x20x40	0	2	20	40
446026	D73 +0x2x20x60	0	2	20	60
446029	D73 +0x2x30x60	0	2	30	60
446027	D73 +0x2x20x80	0	2	20	80
446028	D73 +0x2x20x100	0	2	20	100
483015	D73 +0x2.5x40	0	2.5	20	40
483016	D73 +0x2.5x60	0	2.5	20	60
446033	D73 +0x2.5x20x80	0	2.5	20	80
446034	D73 +0x2.5x20x100	0	2.5	20	100
446048	D73 +1x2.5x20x40	1	2.5	20	40
483021	D73 +1x3x40	1	3	20	40
446053	D73 +1x3x20x60	1	3	20	60
446054	D73 +1x3x20x80	1	3	20	80
446055	D73 +1x3x20x100	1	3	20	100
483376	D73 +1x3x20x120	1	3	20	120
483025	D73 +1x4x40	1	4	—	40
446059	D73 +1x4x60	1	4	—	60
483031	D73 +2x4x40	2	4	—	40
446070	D73 +2x4x60	2	4	—	60
446071	D73 +2x4x80	2	4	—	80
446072	D73 +2x4x100	2	4	—	100
446073	D73 +2x4x120	2	4	—	120

※Japanese specifications

EDP No.	Model No.	w	t	ℓ	L
483041	D73 -2x0.3x40	2	0.3	20	40
483042	D73 -2.5x0.3x40	2.5	0.3	20	40
483043	D73 -3x0.4x40	3	0.4	20	40
483044	D73 -4x0.5x40	4	0.5	—	40

EDP No.	Model No.	H	ϕd	ℓ	L
483051	D73 H1.5x60	1.5	2	20	60
483052	D73 H2x60	2	3	20	60
483053	D73 H2.5x60	2.5	3	20	60
483054	D73 H3x60	3	—	—	60



Drive: $\phi 4\text{mm}$ SHANK DRIVE
Wing-shank



For: HIOS

BITS FOR PRECISION SCREW

EDP No.	Model No.	T	A	ϕd	ℓ	L
635621	D73 T1x40	T1	0.84	1.5	20	40
635622	D73 T2x40	T2	0.94	1.5	20	40
635623	D73 T3x40	T3	1.12	1.7	20	40
635624	D73 T4x40	T4	1.3	1.8	20	40
446107	D73 T5x2x20x40	T5	1.37	2	20	40
635625	D73 T5x40 ※	T5	1.37	2	20	40
446108	D73 T5x2x20x60	T5	1.37	2	20	60
635695	D73 T5x2x20x60 ※	T5	1.37	2	20	60
446109	D73 T6x2x20x40	T6	1.65	2	20	40
635626	D73 T6x40 ※	T6	1.65	2	20	40
446110	D73 T6x2x20x60	T6	1.65	2	20	60
635696	D73 T6x20x60 ※	T6	1.65	2	20	60
635627	D73 T7x40	T7	1.97	2		40
446113	D73 T7x2x20x60	T7	1.97	2	20	60
635628	D73 T8x40	T8	2.3	3	20	40
635629	D73 T9x40	T9	2.48	3	20	40
635630	D73 T10x40	T10	2.72	3	20	40
446119	D73 T10Hx4x60	T10H	2.72	-	-	60

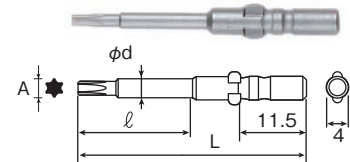
※Japanese specifications



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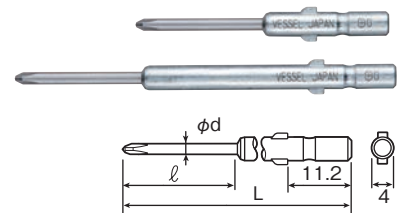
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TAMPER PROOF



EDP No.	Model No.	PH	ϕd	ℓ	L
483801	DS73 +00x1.5x40	00	1.5	20	40
483802	DS73 +00x1.5x60	00	1.5	20	60
483809	DS73 +0x1.5x40	0	1.5	20	40
483810	DS73 +0x1.5x60	0	1.5	20	60
483811	DS73 +0x1.7x40	0	1.7	20	40
483812	DS73 +0x1.7x60	0	1.7	20	60
483813	DS73 +0x2x40	0	2	20	40
483814	DS73 +0x2x60	0	2	20	60



Shockless Bit

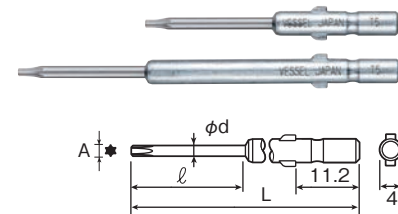


EDP No.	Model No.	T	A	ϕd	ℓ	L
483901	DS73 T5x2x40	T5	1.37	2	20	40
483902	DS73 T5x2x60	T5	1.37	2	20	60
483903	DS73 T6x2x40	T6	1.65	2	20	40
483904	DS73 T6x2x60	T6	1.65	2	20	60



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Shockless Bit

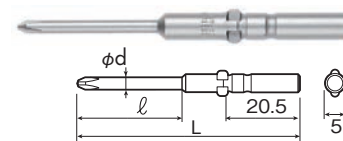




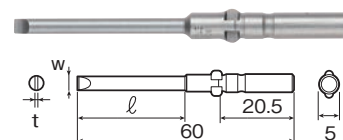
BITS FOR PRECISION SCREW

EDP No.	Model No.	PH	ϕd	ℓ	L
446241	D76 +00x2x60	00	2	20	60
483105	D76 +00x2x60 ※	00	2	20	60
483115	D76 +0x2.5x60 ※	0	2.5	25	60
483121	D76 +1x3x60	1	3	30	60
446267	D76 +1x3x30x80	1	3	30	80
483125	D76 +1x5x60	1	5	—	60
446271	D76 +1x5x100	1	5	—	100
483131	D76 +2x5x60	2	5	—	60
446279	D76 +2x5x80	2	5	—	80
446280	D76 +2x5x100	2	5	—	100
446281	D76 +2x5x120	2	5	—	120
446282	D76 +2x5x150	2	5	—	150

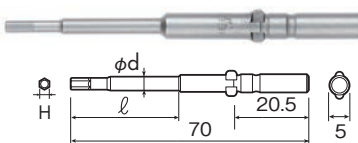
※Japanese specifications



EDP No.	Model No.	w	t	ℓ	L
483141	D76 -3x60	3	0.4	30	60
483142	D76 -4x60	4	0.6	30	60
483143	D76 -5x60	5	0.7	—	60



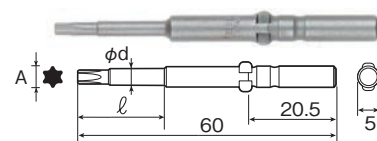
EDP No.	Model No.	H	ϕd	ℓ	L
483151	D76 H2x70	2	3	30	70
483152	D76 H2.5x70	2.5	3	30	70
483153	D76 H3x70	3	4	30	70
483154	D76 H4x70	4	5	—	70



EDP No.	Model No.	T	A	ϕd	ℓ	L
635651	D76 T5x60	T5	1.37	2	20	60
635652	D76 T6x60	T6	1.65	2.5	20	60
635653	D76 T7x60	T7	1.97	2.5	20	60
635654	D76 T8x60	T8	2.3	3	20	60
635655	D76 T9x60	T9	2.48	3	20	60
635656	D76 T10x60	T10	2.72	3	20	60
635657	D76 T15x60	T15	3.26	4	20	60
635658	D76 T20x60	T20	3.84	—	—	60
635659	D76 T25x60	T25	4.4	—	—	60



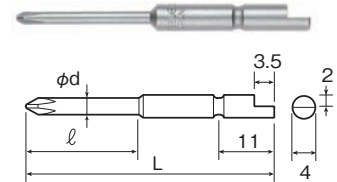
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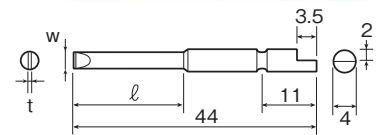


BITS FOR PRECISION SCREW

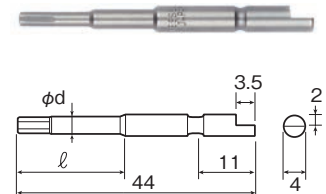
EPD No.	Model No.	PH	ϕd	ℓ	L
482901	D71 +00x1.5x20x44	00	1.5	20	44
482902	D71 +00x1.5x20x64	00	1.5	20	64
446290	D71 +0x1.8x20x44	0	1.8	20	44
482911	D71 +0x2x20x44	0	2	20	44
482912	D71 +0x2x20x64	0	2	20	64
482913	D71 +0x2.5x44	0	2.5	20	44
482914	D71 +0x2.5x64	0	2.5	20	64
482921	D71 +1x3x44	1	3	20	44
482922	D71 +1x3x64	1	3	20	64
482923	D71 +1x4x44	1	4	-	44
482924	D71 +1x4x64	1	4	-	64
482931	D71 +2x4x44	2	4	-	44
482932	D71 +2x4x64	2	4	-	64



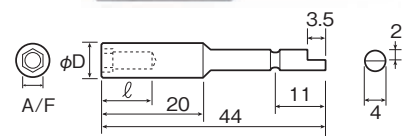
EDP No.	Model No.	w	t	ℓ	L
482941	D71 -2x0.3x44	2	0.3	20	44
482942	D71 -2.5x0.3x44	2.5	0.3	20	44
482943	D71 -3x0.4x44	3	0.4	20	44
482944	D71 -4x0.5x44	4	0.5	-	44



EDP No.	Model No.	H	ϕd	ℓ	L
482951	D71 H1.5x2x44	1.5	2	20	44
482952	D71 H2x3x44	2	3	20	44
482953	D71 H2.5x3x44	2.5	3	20	44
482954	D71 H3x4x44	3	-	-	44



EDP No.	Model No.	A/F	ϕD	ℓ	L
482961	D72 A/F4x44	4	7	10	44
482962	D72 A/F4.5x44	4.5	7	10	44
482963	D72 A/F5x44	5	8	15	44
482964	D72 A/F5.5x44	5.5	8	15	44



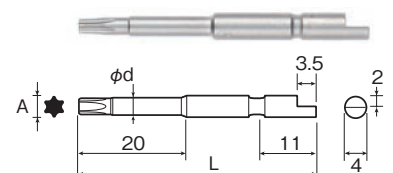
EDP No.	Model No.	T	A	ϕd	ℓ	L
635601	D71 T1x44	T1	0.84	1.5	20	44
635602	D71 T2x44	T2	0.94	1.5	20	44
635603	D71 T3x44	T3	1.12	1.7	20	44
635604	D71 T4x44	T4	1.3	1.8	20	44
635605	D71 T5x44	T5	1.37	2	20	44
635606	D71 T6x44	T6	0.65	2.5	20	44
635607	D71 T7x44	T7	1.97	2.5	20	44
635608	D71 T8x44	T8	2.3	3	20	44
446323	D71 T8Hx4x44	T8H	2.3	4	20	44
635609	D71 T9x44	T9	2.48	3	20	44
635610	D71 T10x44	T10	2.72	3	20	44
446328	D71 T15Hx4x64	T15H	3.26	4	-	64



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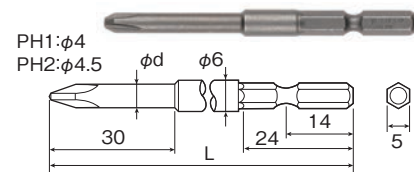
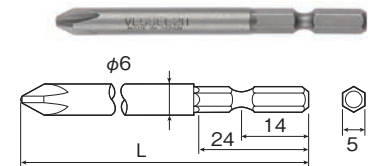


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TAMPER PROOF

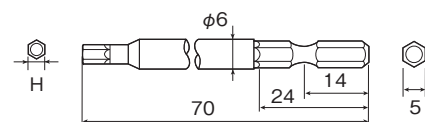



BITS FOR PRECISION SCREW

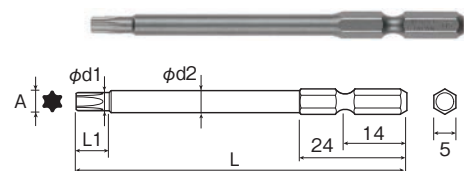
EDP No.	Model No.	heat treatment	PH	ϕd	L
422036	B34 +1x70X	X	1	6	70
422031	B34 +1x70H	H	1	6	70
422037	B34 +1x100X	X	1	6	100
422032	B34 +1x100H	H	1	6	100
422033	B34 +1x150H	H	1	6	150
422051	B34 +2x70X	X	2	6	70
422041	B34 +2x70H	H	2	6	70
422052	B34 +2x100X	X	2	6	100
422042	B34 +2x100H	H	2	6	100
422045	B34 +2x120H	H	2	6	120
422043	B34 +2x150H	H	2	6	150
422044	B34 +2x200H	H	2	6	200
446335	B34 +1x4x30x70H	H	1	4	70
422048	B34 +1x4x70H	H	1	4	70
422034	B34 +1x5.3x105H	H	1	5.3	105
422040	B34 +1x5.3x120X	X	1	5.3	120
422035	B34 +1x5.3x120H	H	1	5.3	120
422061	B34 +1x5.3x125X	X	1	5.3	125
422049	B34 +2x4.5x70H	H	2	4.5	70
446340	B34 +2x3x30x75H	H	2	3	75
422046	B34 +2x5.3x105H	H	2	5.3	105
422047	B34 +2x5.3x120H	H	2	5.3	120



EDP No.	Model No.	heat treatment	H	L
422071	B34 H2x70H	H	2	70
422072	B34 H2.5x70H	H	2.5	70
422073	B34 H3x70H	H	3	70
422074	B34 H4x70H	H	4	70
422075	B34 H5x70H	H	5	70



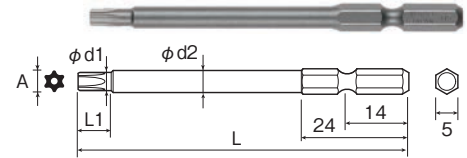
EDP No.	Model No.	T	A	$\phi d1$	L1	$\phi d2$	L
635498	NT5x75	T5	1.37	1.67	6.5	4	75
635499	NT5x100	T5	1.37	1.67	6.5	4	100
635500	NT6x75	T6	1.65	1.95	6.5	4	75
635501	NT6x100	T6	1.65	1.95	6.5	4	100
635505	NT8x75	T8	2.3	2.6	7	4.5	75
635506	NT8x100	T8	2.3	2.6	7	4.5	100
635510	NT10x75	T10	2.72	3.02	7.5	4.5	75
635511	NT10x100	T10	2.72	3.02	7.5	4.5	100
635515	NT15x75	T15	3.26	3.56	7.5	4.5	75
635516	NT15x100	T15	3.26	3.56	7.5	4.5	100
635520	NT20x75	T20	3.84	4.14	7.5	5	75
635521	NT20x100	T20	3.84	4.14	7.5	5	100
635525	NT25x75	T25	4.4	4.7	8	5	75
635526	NT25x100	T25	4.4	4.7	8	5	100
635530	NT27x75	T27	4.96	5.26	8	5.5	75
635531	NT27x100	T27	4.96	5.26	8	5.5	100


TORX®


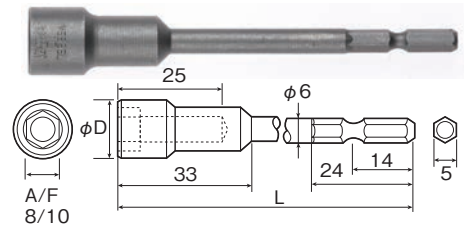
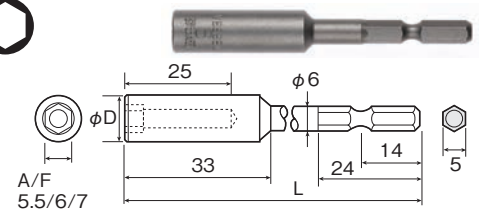


BITS FOR PRECISION SCREW

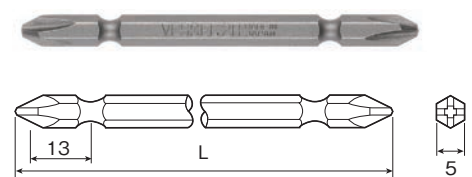
EDP No.	Model No.	A	$\phi d1$	L1	$\phi d2$	L
635551	NT10Hx75	2.72	3.02	7.5	4.5	75
635552	NT10Hx100	2.72	3.02	7.5	4.5	100
635553	NT15Hx75	3.26	3.56	7.5	4.5	75
635554	NT15Hx100	3.26	3.56	7.5	4.5	100
635555	NT20Hx75	3.84	4.14	7.5	5.0	75
635556	NT20Hx100	3.84	4.14	7.5	5.0	100
635557	NT25Hx75	4.4	4.70	8.0	5.0	75
635558	NT25Hx100	4.4	4.70	8.0	5.0	100



EDP No.	Model No.	A/F	ϕD	L
422371	B44 H5.5x70	5.5	9	70
422381	B44 H5.5x100	5.5	9	100
422372	B44 H6x70	6	10	70
422382	B44 H6x100	6	10	100
422373	B44 H7x70	7	11	70
422383	B44 H7x100	7	11	100
422374	B44 H8x70	8	13	70
422384	B44 H8x100	8	13	100
422385	B44 H10x100	10	16	100



EDP No.	Model No.	heat treatment	PH	L
423031	B36 +1x70H	H	1	70
423036	B36 +1x100X	X	1	100
423032	B36 +1x100H	H	1	100
423041	B36 +2x70H	H	2	70
423042	B36 +2x100H	H	2	100
423047	B36 +2x150X	X	2	150
423043	B36 +2x150H	H	2	150
423044	B36 +2x200H	H	2	200



Drive: 1/4"=6.35mm HEX DRIVE
DIN3126-E6.3

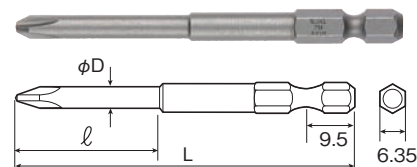


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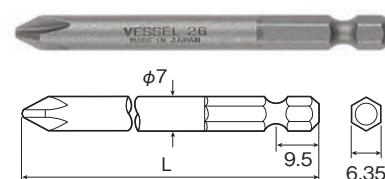
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POWER BITS

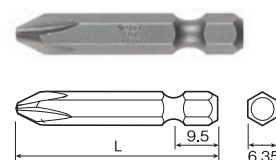
EDP No.	Model No.	PH	ϕD	ℓ	L
446126	B35 +00x1.2x20x60	00	1.2	20	60
446423	B35 +00x1.58x49 (10600)	00	1.58	-	49
446141	B35 +00x2x40x100	00	2	40	100
446145	B35 +0x1.4x30x60	0	1.4	30	60
446153	B35 +0 x2x20x60	0	2	20	60
446157	B35 +0 x2x30x100	0	2	30	100
487195	B35 +0x3.17x49 (1060)	0	3.17	-	49
424036	B35 +1x4.5x75x100	1	4.5	75	100
487202	B35 +1x4.76x89 (1081)	1	4.76	-	89
424038	B35 +2x4.5x75x100	2	4.5	75	100
489673	B35 +2x6x150 (4302/150)	2	6	-	150
446439	B35 +2x6x200 (4302/200)	2	6	-	200



EDP No.	Model No.	heat treatment	PH	L
424032	B35 +1x50H	H	1	50
424034	B35 +1x75X	X	1	75
424035	B35 +1x75H	H	1	75
424061	B35 +2x50X	X	2	50
424040	B35 +2x50G	G	2	50
424062	B35 +2x75X	X	2	75
424047	B35 +2x75H	H	2	75
424041	B35 +2x75G	G	2	75
424042	B35 +2x75E	E	2	75
424048	B35 +2x100H	H	2	100
424043	B35 +2x100G	G	2	100
424044	B35 +2x100E	E	2	100
424049	B35 +2x150H	H	2	150
424045	B35 +2x150G	G	2	150
424046	B35 +2x150E	E	2	150
424050	B35 +3x75H	H	3	75
424051	B35 +3x75E	E	3	75
424052	B35 +3x100H	H	3	100
424053	B35 +3x100E	E	3	100
424054	B35 +3x150G	G	3	150



EDP No.	Model No.	heat treatment	PH	L
424131	B39 +1x23H	H	1	23
424141	B39 +2x23H	H	2	23
424143	B39 +2x40H	H	2	40
424147	B39 +2x100H	H	2	100



Drive: 1/4"=6.35mm HEX DRIVE
DIN3126-E6.3

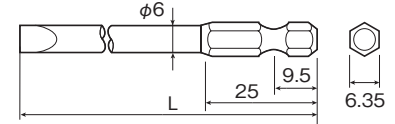


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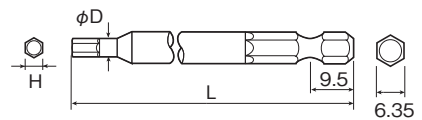
AEG, ARO, ATLAS-COPCO, BIA, B&D, BOSCH, BUCKEY-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS(FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI

POWER BITS

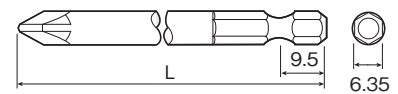
EDP No.	Model No.	w	t	L
424075	B35 -6x75	6	0.8	75
487245	B35 -6.35x49 (1524)	6.35	0.91	49
487255	B35 -7.9x49 (1526)	7.9	1.17	49



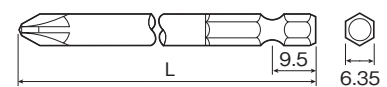
EDP No.	Model No.	heat treatment	H	L
424080	B35 H2x75H	H	2	75
424081	B35 H2x100H	H	2	100
424082	B35 H2.5x75H	H	2.5	75
424083	B35 H2.5x100H	H	2.5	100
424093	B35 H2.5x150H	H	2.5	150
424084	B35 H3x75H	H	3	75
424085	B35 H3x100H	H	3	100
424094	B35 H3x150H	H	3	150
487282	B35 H4x49H (21204)	H	4	49
424086	B35 H4x75H	H	4	75
424087	B35 H4x100H	H	4	100
424095	B35 H4x150H	H	4	150
487283	B35 H5x49H (21205)	H	5	49
424088	B35 H5x75G	G	5	75
424089	B35 H5x100G	G	5	100
424096	B35 H5x150G	G	5	150
487284	B35 H6x49G (21206)	G	6	49
424090	B35 H6x75G	G	6	75



EDP No.	Model No.	PZ	φD	L
424101	B35 PZ1x4.8x50	1	4.8	50
424102	B35 PZ2x6.3x50	2	6.3	50
424103	B35 PZ3x8.0x50	3	8.0	50



EDP No.	Model No.	SDV	L
636121	B35 SDV 1x75	1	75
636122	B35 SDV 2x75	2	75
636123	B35 SDV 2x100	2	100
636130	B35 SDV 3x75	3	75



Drive: 1/4"=6.35mm HEX DRIVE
DIN3126-E6.3

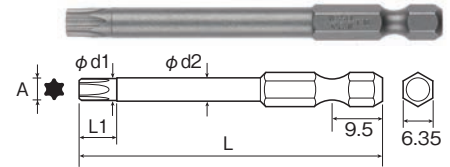


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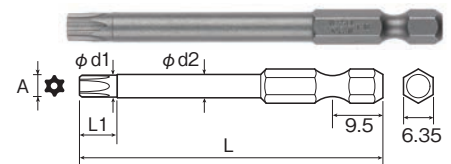
AEG, ARO, ATLAS-COPCO, BIA, B&D, BOSCH, BUCKEY-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS(FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI

POWER BITS

EDP No.	Model No.	T	A	φ d1	L1	φ d2	L
635300	JT6x75	T6	1.65	1.95	6.5	4.0	75
635301	JT6x100	T6	1.65	1.95	6.5	4.0	100
447317	JT6x152 (T10906)	T6	1.65	1.95	6.5	4.0	152
446500	JT8x70 (T10708)	T8	2.3	2.6	7.0	4.5	70
635305	JT8x75	T8	2.3	2.6	7.0	4.5	75
635306	JT8x100	T8	2.3	2.6	7.0	4.5	100
446520	JT8x152 (T10908)	T8	2.3	2.6	7.0	4.5	152
446491	JT10x49 (T10610)	T10	2.72	3.02	7.5	4.5	49
446502	JT10x70 (T10710)	T10	2.72	3.02	7.5	4.5	70
635310	JT10x75	T10	2.72	3.02	7.5	4.5	75
635311	JT10x100	T10	2.72	3.02	7.5	4.5	100
446522	JT10x152 (T10910)	T10	2.72	3.02	7.5	4.5	152
446492	JT15x49 (T10615)	T15	3.26	3.56	7.5	4.5	49
446503	JT15x70 (T10715)	T15	3.26	3.56	7.5	4.5	70
635315	JT15x75	T15	3.26	3.56	7.5	4.5	75
635316	JT15x100	T15	3.26	3.56	7.5	4.5	100
446493	JT20x49 (T10620)	T20	3.84	4.14	7.5	5.0	49
635320	JT20x75	T20	3.84	4.14	7.5	5.0	75
635321	JT20x100	T20	3.84	4.14	7.5	5.0	100
635325	JT25x75	T25	4.4	4.70	8.0	5.0	75
635326	JT25x100	T25	4.4	4.70	8.0	5.0	100
635330	JT27x75	T27	4.96	5.26	8.0	5.5	75
635331	JT27x100	T27	4.96	5.26	8.0	5.5	100
635335	JT30x75	T30	5.49	5.79	8.5	6.0	75
446517	JT30x90 (T10830)	T30	5.49	5.79	8.5	6.0	90
635336	JT30x100	T30	5.49	5.79	8.5	6.0	100
446527	JT30x152 (T10930)	T30	5.49	5.79	8.5	6.0	152
446497	JT40x49 (T10640)	T40	6.6	-	-	7.0	49
635340	JT40x75	T40	6.6	-	-	7.0	75
635341	JT40x100	T40	6.6	-	-	7.0	100
635345	JT45x75	T45	7.77	-	-	8.0	75
635346	JT45x100	T45	7.77	-	-	8.0	100



EDP No.	Model No.	T	A	φ d1	L1	φ d2	L
635283	JT6Hx75	T6H	1.65	1.95	6.5	4.0	75
635284	JT6Hx100	T6H	1.65	1.95	6.5	4.0	100
635285	JT8Hx75	T8H	2.3	2.6	7.0	4.5	75
635286	JT8Hx100	T8H	2.3	2.6	7.0	4.5	100
635251	JT10Hx75	T10H	2.72	3.02	7.5	4.5	75
635252	JT10Hx100	T10H	2.72	3.02	7.5	4.5	100
635255	JT15Hx75	T15H	3.26	3.56	7.5	4.5	75
635256	JT15Hx100	T15H	3.26	3.56	7.5	4.5	100
635261	JT20Hx75	T20H	3.84	4.14	7.5	5.0	75
635262	JT20Hx100	T20H	3.84	4.14	7.5	5.0	100
635265	JT25Hx75	T25H	4.4	4.70	8.0	5.0	75
635266	JT25Hx100	T25H	4.4	4.70	8.0	5.0	100
635271	JT27Hx75	T27H	4.96	5.26	8.0	5.5	75
635272	JT27Hx100	T27H	4.96	5.26	8.0	5.5	100
635275	JT30Hx75	T30H	5.49	5.79	8.5	6.0	75
635276	JT30Hx100	T30H	5.49	5.79	8.5	6.0	100
635281	JT40Hx75	T40H	6.6	-	-	7.0	75
635282	JT40Hx100	T40H	6.6	-	-	7.0	100



**Drive: 1/4"=6.35mm HEX DRIVE
DIN3126-E6.3**

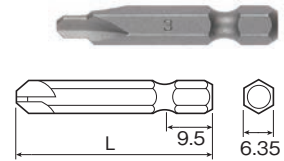


For:

AEG, ARO, ATLAS-COPCO, BIAx, B&D, BOSCH, BUCKEY-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS(FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI

POWER BITS

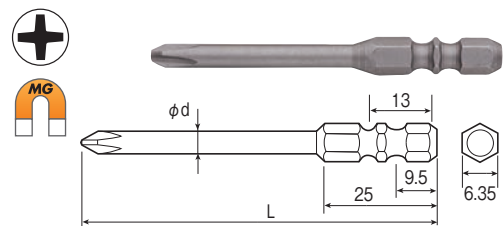
EDP No.	Model No.	TW	L
424201	B39 TW1x40	TW1	40
424202	B39 TW2x40	TW2	40
424203	B39 TW3x40	TW3	40
424204	B39 TW4x40	TW4	40
424205	B39 TW5x40	TW5	40



For:

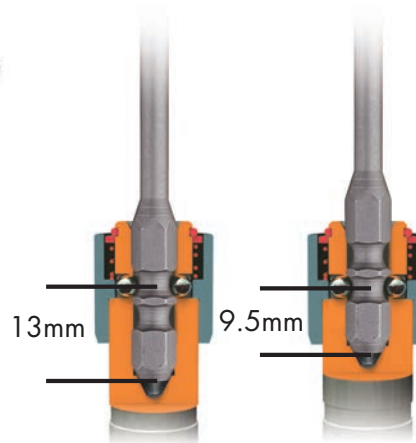
AEG, ARO, ATLAS-COPCO, BIAx, B&D, BOSCH, BUCKEY-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS(FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI, PANASONIC, VESSEL

EDP No.	Model No.	heat treatment	PH	ϕd	L
415301	M-AB16 PH2x4.5x65H	H	2	4.5	65
415302	M-AB16 PH2x4.5x100H	H	2	4.5	100
415303	M-AB16 PH2x4.5x150H	H	2	4.5	150



Two steelball ditches

Available for the use of
two different anvil chucking



Drive: 1/4"=6.35mm HEX DRIVE
DIN3126-E6.3



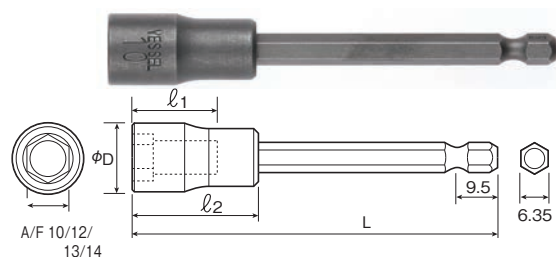
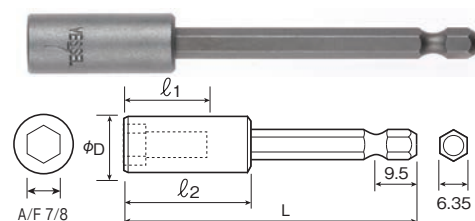
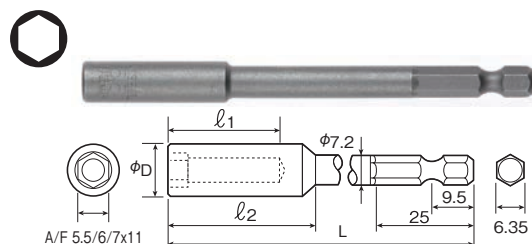
For:

AEG, ARO, ATLAS-COPCO, BIA, B&D, BOSCH, BUCKEY-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS (FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI

SOCKET BITS, Nut Setters

EDP No.	Model No.	A/F	φD	ℓ1	ℓ2	L
424281	B45 A/F5.5x75	5.5	9	25	33	75
424380	B45 A/F5.5x100	5.5	9	25	33	100
424381	B45 A/F6x100	6	10	25	33	100
424279	B45 A/F7x11x75	7	11	25	33	75
424280	B45 A/F7x11x100	7	11	25	33	100
424283	B45 A/F7x75 ☆	7	13.5	22	33	75
424382	B45 A/F7x100 ☆	7	13.5	22	33	100
424284	B45 A/F8x75 ☆	8	13.5	22	33	75
424383	B45 A/F8x100 ☆	8	13.5	22	33	100
424483	B45 A/F8x150 ☆	8	13.5	22	33	150
424286	B45 A/F10x75 ☆	10	16	22	33	75
424384	B45 A/F10x100 ☆	10	16	22	33	100
424484	B45 A/F10x150 ☆	10	16	22	33	150
424385	B45 A/F12x100 ☆	12	18	22	33	100
424288	B45 A/F13x75 ☆	13	19	22	33	75
424386	B45 A/F13x100 ☆	13	19	22	33	100
424387	B45 A/F14x100 ☆	14	20	22	33	100

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



Drive: 1/4"=6.35mm HEX DRIVE
DIN3126-E6.3



For:

AEG, ARO, ATLAS-COPCO, BIA, B&D, BOSCH, BUCKEY-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS (FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI

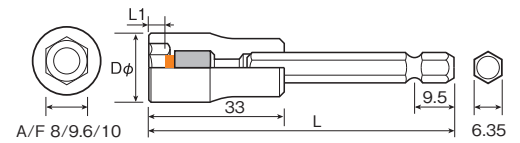
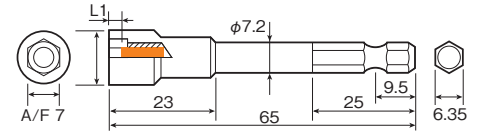
SOCKET BITS

EDP No.	Model No.	A/F	ϕD	$\ell 1$	L
482520	MB45 A/F7x65	7	13	2.5	65
482521	MB45 A/F8x65 ☆	8	13.5	3.17	65
482523	MB45 A/F8x75 ☆	8	13.5	3.17	75
482524	MB45 A/F8x100 ☆	8	13.5	3.17	100
482522	MB45 A/F9.6x65 ☆	9.6	16	3.96	65
482525	MB45 A/F10x75 ☆	10	16	3.96	75
482526	MB45 A/F10x100 ☆	10	16	3.96	100

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



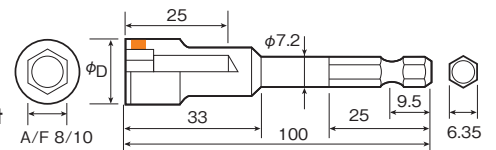
Press-Fit Magnet



EDP No.	Model No.	A/F	ϕD	L
482406	MB45S A/F8x100	8	13	100
482407	MB45S A/F10x100	10	16	100



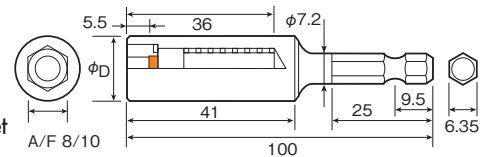
Side Magnet



EDP No.	Model No.	A/F	ϕD	L
482516	MB45D A/F8x100	8	13	100
482517	MB45D A/F10x100	10	16	100



Sliding Magnet



Drive: 1/4" = 6.35mm HEX DRIVE
DIN3126-E6.3

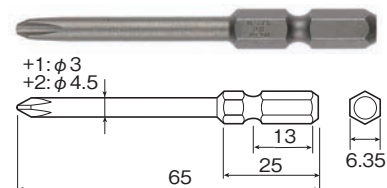


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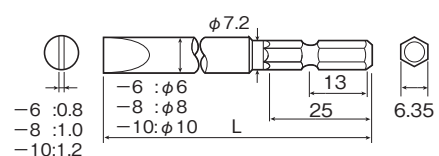
AEG, ARO, ATLAS-COPCO, BIA, B&D, BOSCH, BUCKEY-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS (FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI

DOUBLE END POWER BITS

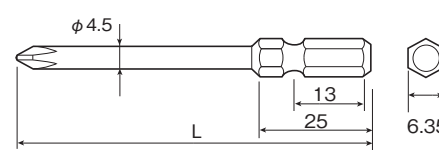
EPD No.	Model No.	heat treatment	PH	L
415061	A16 +1x3x65H	H	1	65
415066	A16 +2x4.5x65H	H	3	65



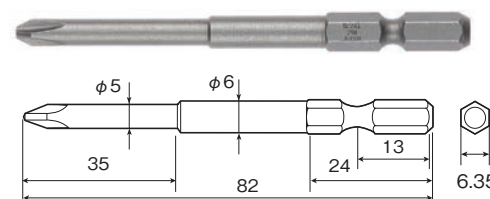
EPD No.	Model No.	heat treatment	w	t	L
415071	A16 -6x45G	G	6	0.8	45
415072	A16 -6x70G	G	6	0.8	70
415171	A16 -8x45G	G	8	1.0	45
415172	A16 -8x70G	G	8	1.0	70
415271	A16 -10x52G	G	10	1.2	52
415272	A16 -10x70G	G	10	1.2	70



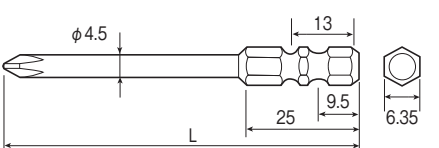
EPD No.	Model No.	heat treatment	PH	L
415311	M-A16 +2x4.5x 65H	H	2	65
415312	M-A16 +2x4.5x100H	H	2	100
415313	M-A16 +2x4.5x150H	H	2	150



EPD No.	Model No.	heat treatment	PH	L
482040	D81 +2x82X	X	2	82
482041	D81 +2x82H	H	2	82
482042	D81 +2Xx82E	E	2	82



EPD No.	Model No.	heat treatment	PH	L
415301	M-AB16 +2x4.5x65H	H	2	65
415302	M-AB16 +2x4.5x100H	H	2	100
415303	M-AB16 +2x4.5x150H	H	2	150



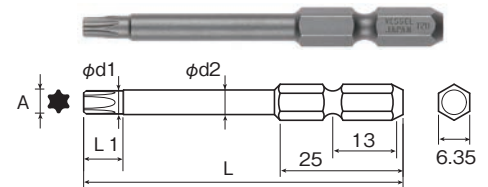


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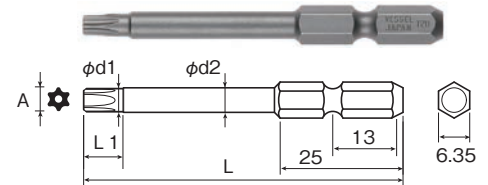
VESSEL, HITACHI, MAKITA, NPK, YOKOTA, YUTANI, FUJI, RYOBI, TOHNICHI, PANASONIC, MAX

POWER BITS

EDP No.	Model No.	T	A	φ d1	L1	φ d2	L
634997	VT6×65	T6	1.65	1.95	6.5	4.0	65
634998	VT6×110	T6	1.65	1.95	6.5	4.0	110
634999	VT8×65	T8	2.3	2.60	7.0	4.5	65
635000	VT8×110	T8	2.3	2.60	7.0	4.5	110
635120	VT10×65	T10	2.72	3.02	7.5	4.5	65
635121	VT10×110	T10	2.72	3.02	7.5	4.5	110
635125	VT15×65	T15	3.26	3.56	7.5	4.5	65
635126	VT15×110	T15	3.26	3.56	7.5	4.5	110
635130	VT20×65	T20	3.84	4.14	7.5	5.0	65
635131	VT20×110	T20	3.84	4.14	7.5	5.0	110
635135	VT25×65	T25	4.4	4.7	8.0	5.0	65
635136	VT25×110	T25	4.4	4.7	8.0	5.0	110
635140	VT27×65	T27	4.96	5.26	8.0	5.5	65
635141	VT27×110	T27	4.96	5.26	8.0	5.5	110
635145	VT30×65	T30	5.49	5.79	8.5	6.0	65
635146	VT30×110	T30	5.49	5.79	8.5	6.0	110
635150	VT40×65	T40	6.6	H6.35	–	H6.35	65
635151	VT40×110	T40	6.6	H6.35	–	H6.35	110



EDP No.	Model No.	T	A	φ d1	L1	φ d2	L
635032	VT8H×65	T8H	2.3	2.60	7.0	4.5	65
635033	VT8H×110	T8H	2.3	2.60	7.0	4.5	110
635001	VT10H×65	T10H	2.72	3.02	7.5	4.5	65
635002	VT10H×110	T10H	2.72	3.02	7.5	4.5	110
635005	VT15H×65	T15H	3.26	3.56	7.5	4.5	65
635006	VT15H×110	T15H	3.26	3.56	7.5	4.5	110
635010	VT20H×65	T20H	3.84	4.14	7.5	5.0	65
635011	VT20H×110	T20H	3.84	4.14	7.5	5.0	110
635015	VT25H×65	T25H	4.4	4.7	8.0	5.0	65
635016	VT25H×110	T25H	4.4	4.7	8.0	5.0	110
635020	VT27H×65	T27H	4.96	5.26	8.0	5.5	65
635021	VT27H×110	T27H	4.96	5.26	8.0	5.5	110
635025	VT30H×65	T30H	5.49	5.79	8.5	6.0	65
635026	VT30H×110	T30H	5.49	5.79	8.5	6.0	110
635030	VT40H×65	T40H	6.6	H6.35	–	H6.35	65
635031	VT40H×110	T40H	6.6	H6.35	–	H6.35	110



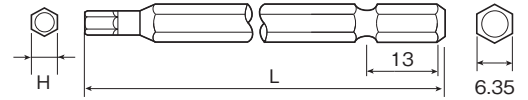


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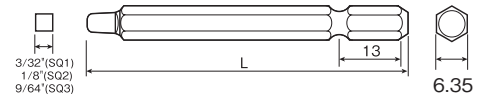
VESSEL, HITACHI, MAKITA, NPK, YOKOTA, YUTANI, FUJI, RYOBI, TOHNICHI, PANASONIC, MAX

POWER BITS

EDP No.	Model No.	heat treatment	H	L
481090	A16 H2x65H	H	2	65
481100	A16 H2x110H	H	2	110
481091	A16 H2.5x65H	H	2.5	65
481101	A16 H2.5x110H	H	2.5	110
481092	A16 H3x65H	H	3	65
481102	A16 H3x110H	H	3	110
481093	A16 H4x65H	H	4	65
481103	A16 H4x110H	H	4	110
481094	A16 H5x65G	G	5	65
481104	A16 H5x110G	G	5	110
481096	A16 H6x65G	G	6	65
481105	A16 H6x110G	G	6	110



EDP No.	Model No.	SQ	L
481001	A16 SQ1x4x65	1	65
481002	A16 SQ2x65	2	65
481005	A16 SQ2x110	2	110
481008	A16 SQ2x150	2	150
481003	A16 SQ3x65	3	65
481006	A16 SQ3x110	3	110
481009	A16 SQ3x150	3	150



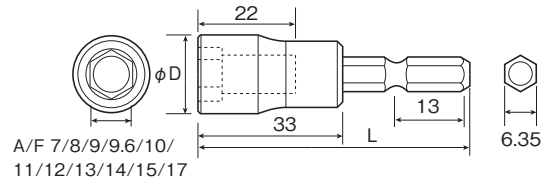
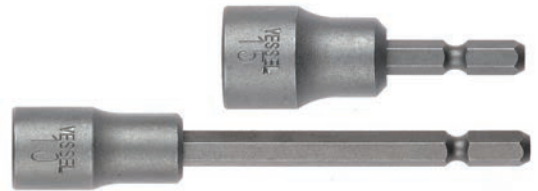
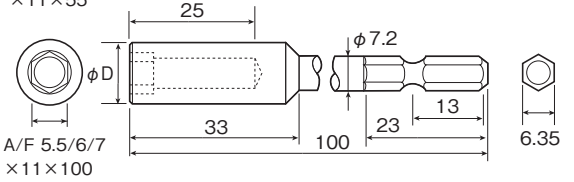
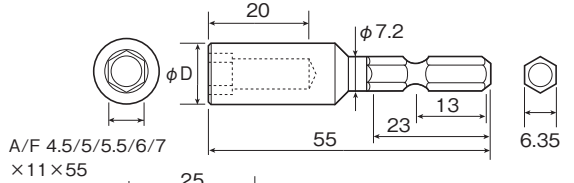


For:

VESSEL, HITACHI, MAKITA, NPK, YOKOTA, YUTANI, FUJI, RYOBI, TOHNICHI, PANASONIC, MAX

SOCKET BITS

EDP No.	Model No.	A/F	φD	L
416080	A20 A/F4.5x55	4.5	7.5	55
416081	A20 A/F5x55	5	8.5	55
416082	A20 A/F5x55	5	9	55
416281	A20 A/F5.5x100	5.5	9	100
416083	A20 A/F6x55	6	10	55
416282	A20 A/F6x100	6	10	100
416095	A20 A/F7x60	7	11	60
416283	A20 A/F7x100	7	11	100
416084	A20 A/F7x11x55	7	13.5	55
416280	A20 A/F7x11x100	7	13.5	100
416085	A20 A/F8x60	8	13.5	60
416284	A20 A/F8x100	8	13.5	100
416086	A20 A/F9x60	9	15	60
416087	A20 A/F9.6x60	9.6	15	60
416088	A20 A/F10x60	10	16	60
416286	A20 A/F10x100	10	16	100
416089	A20 A/F11x60	11	17	60
416090	A20 A/F12x60	12	18	60
416287	A20 A/F12x100	12	18	100
416091	A20 A/F13x60	13	19	60
416288	A20 A/F13x100	13	19	100
416092	A20 A/F14x60	14	20	60
416093	A20 A/F15x60	15	21	60
416094	A20 A/FH17x60	17	23	60



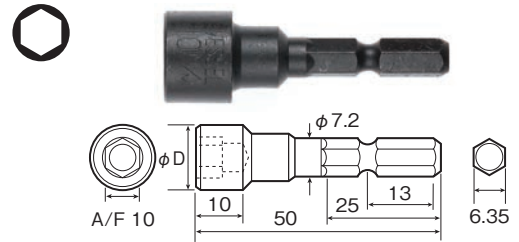


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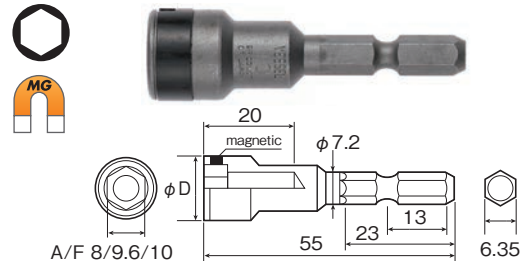
VESSEL, HITACHI, MAKITA, NPK, YOKOTA, YUTANI, FUJI, RYOBI, TOHNICHI, PANASONIC, MAX

SOCKET BITS, NUT SETTERS

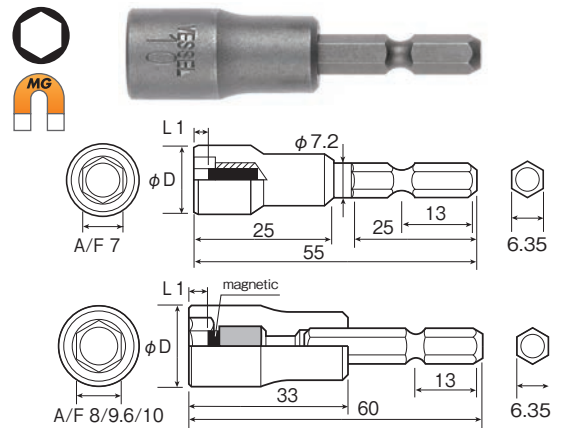
EDP No.	Model No.	A/F	φD	L
416396	A20-5 A/F10×50	10	16	50



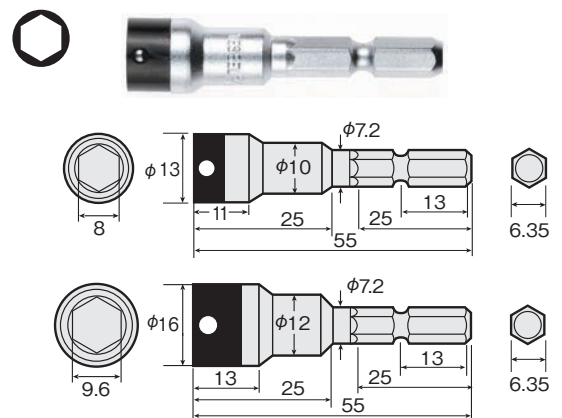
EDP No.	Model No.	A/F	φD	L
482401	MA20S A/F5/16×55	5/16	13	55
482402	MA20S A/F3/ 8×55	3/8	16	55
482403	MA20S A/F10×55	10	16	55



EDP No.	Model No.	A/F	φD	L1	L
482510	MA20 A/F7×55	7	13	2.5	55
482511	MA20 A/F8×60	8	13.5	3.17	60
482512	MA20 A/F9.6×60	9.6	15	3.96	60
482513	MA20 A/F10×60	10	16	3.96	60



EDP No.	Model No.	A/F	L
482531	SB A/F 5/16×55	5/16	55
482532	SB A/F 3/8×55	3/8	55



Drive: 1/4"=6.35mm HEX DRIVE
DIN3126-E6.3

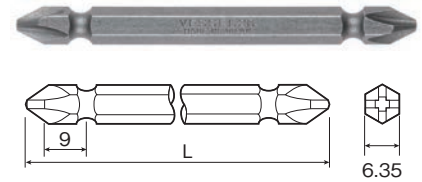


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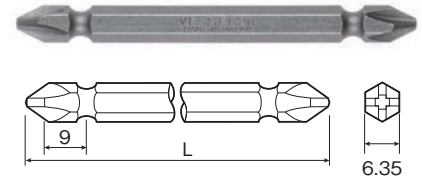
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DOUBLE END POWER BITS

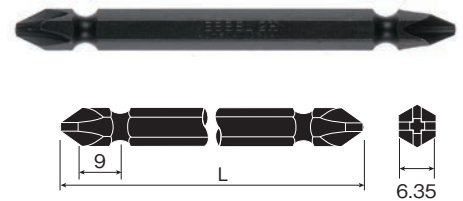
EPD No.	Model No.	heat treatment	PH	L
425032	B43 +1x75H	H	1	75
425036	B43 +2x50X	X	2	50
425037	B43 +2x50H	H	2	50
425038	B43 +2x50E	E	2	50
425039	B43 +2x75X	X	2	75
425040	B43 +2x75H	H	2	75
425041	B43 +2x75G	G	2	75
425042	B43 +2x75E	E	2	75
425046	B43 +2x100X	X	2	100
425047	B43 +2x100H	H	2	100
425043	B43 +2x100G	G	2	100
425044	B43 +2x100E	E	2	100
425048	B43 +2x150X	X	2	150
425049	B43 +2x150H	H	2	150
425045	B43 +2x150G	G	2	150
425050	B43 +2x200G	G	2	200
446373	B43 +2x300H	H	2	300
425054	B43 +3x75H	H	3	75
425055	B43 +3x75E	E	3	75
425057	B43 +3x100H	H	3	100
425058	B43 +3x100E	E	3	100
446375	B43 +3x150H	H	3	150



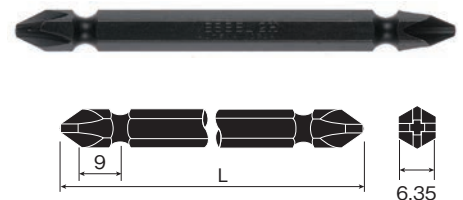
EPD No.	Model No.	heat treatment	PH	L
446669	M-B43 +2x75H	H	2	75
446672	M-B43 +2x100H	H	2	100
446673	M-B43 +2x150H	H	2	150



EPD No.	Model No.	heat treatment	PH	L
425141	B43B +2x50S	S	2	50
425142	B43B +2x75S	S	2	75
425143	B43B +2x100S	S	2	100
425144	B43B +2x150S	S	2	150



EPD No.	Model No.	heat treatment	PH	L
425151	B43H +2x75H	H	2	75
425153	B43H +2x100H	H	2	100
425155	B43H +2x150H	H	2	150



Drive: 1/4" = 6.35mm HEX DRIVE
DIN3126-E6.3

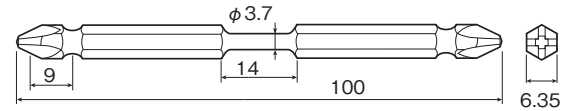
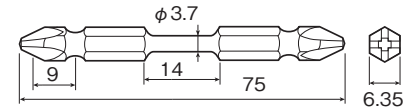


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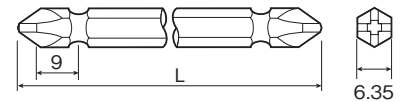
AEG, ARO, ATLAS-COPCO, BIA, B&D, BOSCH, BUCKEY-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS (FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI

DOUBLE END POWER BITS

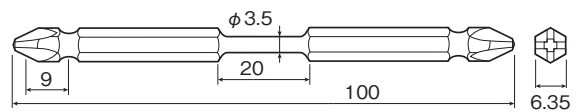
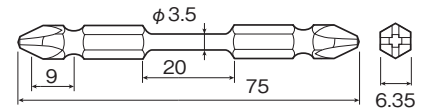
EPD No.	Model No.	heat treatment	PH	L
425161	BT43 +2x3.5x75H	H	2	75
425162	BT43 +2x3.5x100H	H	2	100



EPD No.	Model No.	heat treatment	PH	L
425171	B43P +2x75H	H	2	75
425172	B43P +2x100H	H	2	100



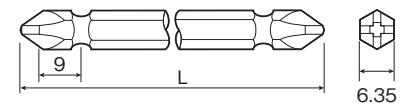
EPD No.	Model No.	heat treatment	PH	L
425201	BT43P +2x3.7x75X	X	2	75
425202	BT43P +2x3.7x100X	X	2	100



BIT MUG-BOTTLE

EDP No.	Model No.	contents	PH	L
415281	BMG142065	PH2x65mm ... 20pcs.	2	65
415282	BMG142110	PH2x110mm ... 20pcs.	2	110

Inner Ctn. 5sets



NEW

Magnetizing bits or
demagnetizing
as you like.



Endurable PP bottle incorporating
a magnetizer in the cap.
Contains 20 pieces of bit per bottle

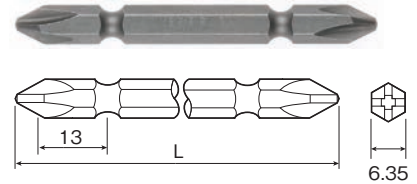


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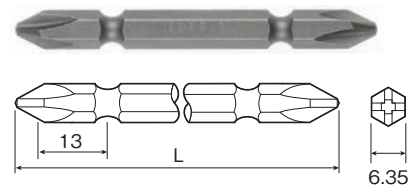
VESSEL, HITACHI, MAKITA, NPK, YOKOTA, YUTANI, FUJI, RYOBI, TOHNICHI, PANASONIC, MAX

DOUBLE END POWER BITS

EPD No.	Model No.	heat treatment	PH	L
413231	A14 +1x110H	H	1	110
413232	A14 +1x110G	G	1	110
413262	A14 +2x110X	X	2	110
413241	A14 +2x110H	H	2	110
413242	A14 +2x110G	G	2	110
413243	A14 +2x110E	E	2	110
413263	A14 +2x150X	X	2	150
413245	A14 +2x150H	H	2	150
413246	A14 +2x150G	G	2	150
413247	A14 +2x150E	E	2	150
413264	A14 +2x200X	X	2	200
413249	A14 +2x200H	H	2	200
413248	A14 +2x200G	G	2	200
413250	A14 +2x200E	E	2	200
413255	A14 +2x300G	G	2	300
413054	A14 +3x 65X	X	3	65
413052	A14 +3x 65H	H	3	65
413053	A14 +3x 65E	E	3	65
413252	A14 +3x110H	H	3	110
413251	A14 +3x110E	E	3	110



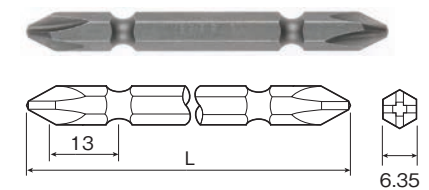
EPD No.	Model No.	heat treatment	PH	L
413401	M-A14 +1x45H	H	1	45
413402	M-A14 +1x65H	H	1	65
413407	M-A14 +1x110H	H	1	110
413403	M-A14 +2x45H	H	2	45
413404	M-A14 +2x45G	G	2	45
413405	M-A14 +2x65H	H	2	65
413406	M-A14 +2x65G	G	2	65
413408	M-A14 +2x110H	H	2	110
413411	M-A14 +2x110G	G	2	110
413409	M-A14 +2x150H	H	2	150



BIT MUG-BOTTLE

EDP No.	Model No.	contents	PH	L
415285	AMG142065	PH2x65mm ... 20pcs.	2	65
415286	AMG142110	PH2x110mm ... 20pcs.	2	110

Inner Ctn. 5sets



NEW

Magnetizing bits or demagnetizing as you like.



Endurable PP bottle incorporating a magnetizer in the cap. Contains 20 pieces of bit per bottle



For:

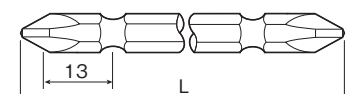
VESSEL, HITACHI, MAKITA, NPK, YOKOTA, YUTANI, FUJI, RYOBI, TOHNICHI, PANASONIC, MAX

DOUBLE END POWER BITS

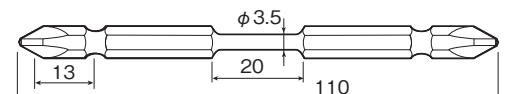
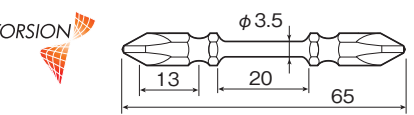
EPD No.	Model No.	heat treatment	PH	L
413351	A14H +2x65H	H	2	65
413355	A14H +2x110H	H	2	110
413359	A14H +2x150H	H	2	150
413141	A14B +2x50S	S	2	50
413142	A14B +2x75S	S	2	75
413341	A14B +2x100S	S	2	100
413342	A14B +2x150S	S	2	150



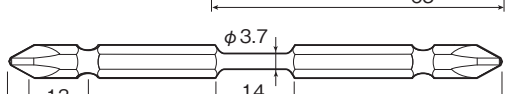
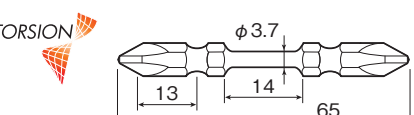
EPD No.	Model No.	heat treatment	PH	L
415331	A14P +2x65H	H	2	65
415333	A14P +2x110H	H	2	110
415334	A14P +2x150H	H	2	150



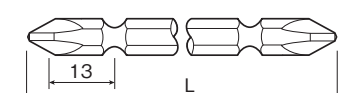
EPD No.	Model No.	heat treatment	PH	L
413143	AT14 +2x3.5x65H	H	2	65
413144	AT14 +2x3.5x110H	H	2	110



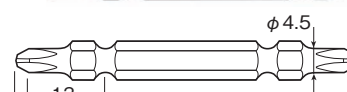
EPD No.	Model No.	heat treatment	PH	L
413361	AT14P +2x3.7x65X	X	2	65
415362	AT14P +2x3.7x82X	X	2	82
415363	AT14P +2x3.7x110X	X	2	110



EPD No.	Model No.	heat treatment	PH	L
413369	AL14 +2x65H	H	2	65
413370	AL14 +2x110H	H	2	110



EPD No.	Model No.	heat treatment	PH	L
413367	AS14 +1x65H	H	2	65
413366	AS14 +2x45H	H	2	45
413364	AS14 +2x65H	H	2	65
413365	AS14 +2x110H	H	2	110



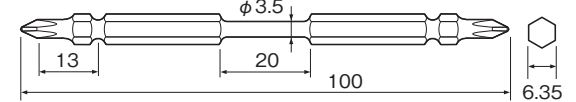
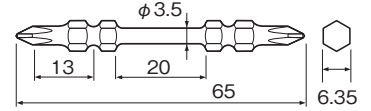


For:

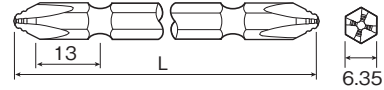
VESSEL, HITACHI, MAKITA, NPK, YOKOTA, YUTANI, FUJI, RYOBI, TOHNICHI, PANASONIC, MAX

DOUBLE END POWER BITS

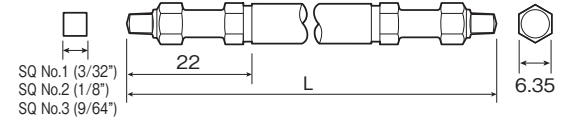
EPD No.	Model No.	heat treatment	PH	L
413374	ST14 +1x3.5x65H	H	1	65
413375	ST14 +2x3.5x65H	H	2	65
413377	ST14 +2x3.5x82H	H	2	82
413376	ST14 +2x3.5x110H	H	2	110



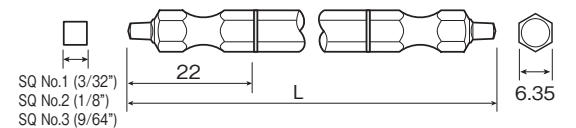
EPD No.	Model No.	heat treatment	PH	L
413360	AZ14 +2x65H	H	2	65
413361	AZ14 +2x110H	H	2	110



EPD No.	Model No.	heat treatment	SQ	L
413380	A14 SQ1x65H	H	1	65
413381	A14 SQ2x65H	H	2	65
413383	A14 SQ2x110H	H	2	110
413385	A14 SQ2x150H	H	2	150
413384	A14 SQ3x110H	H	3	110
413382	A14 SQ3x65H	H	3	65
413386	A14 SQ3x150H	H	3	150



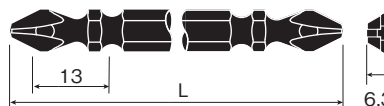
EPD No.	Model No.	heat treatment	SQ	L
413387	A14R SQ1x65H	H	1	65
413388	A14R SQ2x65H	H	2	65
413389	A14R SQ2x110H	H	2	110
413390	A14R SQ.2x150H	H	2	150
413391	A14R SQ.3x65H	H	3	65
413392	A14R SQ3x110H	H	3	110
413393	A14R SQ3x150H	H	3	150



BIT MUG-BOTTLE

EDP No.	Model No.	contents	PH	L
415283	SMG142065	PH2x65mm ... 20pcs.	2	65
415284	SMG142110	PH2x110mm ... 20pcs.	2	110

Inner Ctn. 5sets



NEW

Magnetizing bits or demagnetizing as you like.

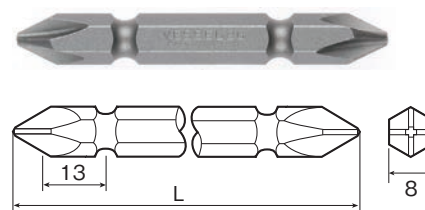


Endurable PP bottle incorporating a magnetizer in the cap. Contains 20 pieces of bit per bottle

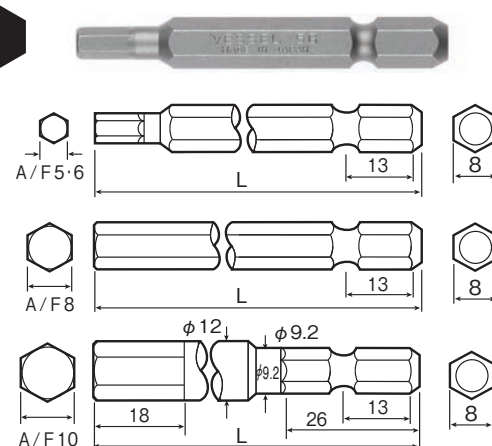


DOUBLE END POWER BITS

EPD No.	Model No.	heat treatment	PH	L
414041	A15 +2x65G	G	2	65
414042	A15 +2x110G	G	2	110
414051	A15 +3x65E	E	3	65
414052	A15 +3x110E	E	3	110



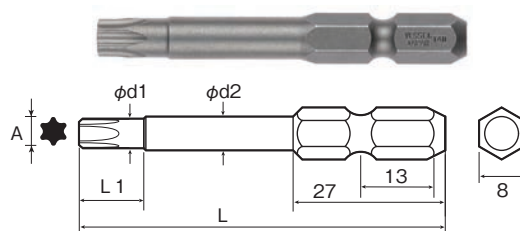
EPD No.	Model No.	heat treatment	H	L
481191	A19 H5x65G	G	5	65
481192	A19 H6x65G	G	6	65
481196	A19 H6x130G	G	6	130
481193	A19 H8x65G	G	8	65
481197	A19 H8x130G	G	8	130
481194	A19 H10x65S	S	10	65
481198	A19 H10x130S	S	10	130



EPD No.	Model No.	T	A	$\phi d1$	L1	$\phi d2$	L
635215	V5T25x65	T25	4.4	4.70	10.0	6.0	65
635216	V5T25x110	T25	4.4	4.70	10.0	6.0	110
635220	V5T27x65	T27	4.96	5.26	11.5	6.5	65
635221	V5T27x110	T27	4.96	5.26	11.5	6.5	110
635225	V5T30x65	T30	5.49	5.79	11.5	6.5	65
635226	V5T30x110	T30	5.49	5.79	11.5	6.5	110
635230	V5T40x65	T40	6.6	6.90	11.5	7.5	65
635231	V5T40x110	T40	6.6	6.90	11.5	7.5	110
635235	V5T45Hx65	T45	7.77	8.0	-	8.0	65
635236	V5T45x110	T45	7.77	8.0	-	8.0	110
635240	V5T50x65	T50	8.79	H8	-	H8	65
635241	V5T50Xx110	T50	8.79	H8	-	H8	110



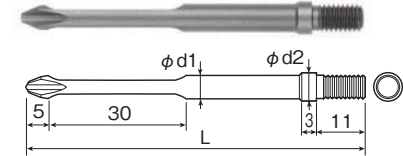
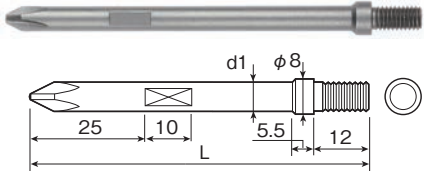
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SCREW SHANK DRIVER BITS

EPD No.	Model No.	PH	d1	d2	L
483301	D61 +2x74xM5	2	5.0	6.0	74
483302	D61 +2x74xM6	2	5.0	7.0	74
483303	D62 +2x100xM6	2	6.0	–	100


D61

D62


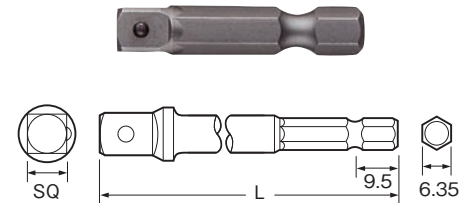
Drive: 1/4"=6.35mm HEX DRIVE DIN3126-E6.3


For:

AEG, ARO, ATLAS-COPCO, BIAx, B&D, BOSCH, BUCKEY-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS(FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI

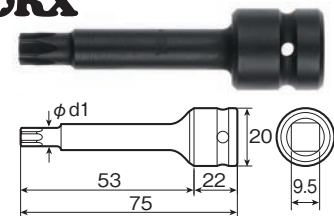
ADAPTERS

EPD No.	Model No.	SQ	L
487382	1/4"x76	1/4"	76
487383	1/4"x102	1/4"	102
487384	1/4"x152	1/4"	152
487391	3/8"x43 (X5012)	3/8"	43
487392	3/8"x76	3/8"	76
487393	3/8"x102	3/8"	102
487394	3/8"x152	3/8"	152
487392	3/8"x76 (X5013)	9.5 (3/8")	76
487393	3/8"x102 (X5014)	9.5 (3/8")	102
487394	3/8"x152 (X5015)	9.5 (3/8")	152

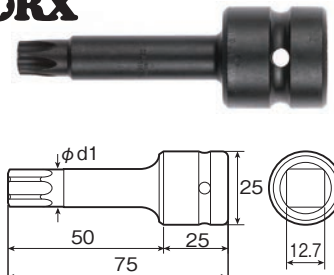


ATTACHMENT FOR IMPACT DRIVER

EPD No.	Model No.	T	A	φ d1	L
635681	S6T30x75	T30	5.49	5.79	75
635682	S6T40x75	T40	6.6	6.9	75
635683	S6T45x75	T45	7.77	8.0	75
635684	S6T50x75	T50	8.79	10.0	75


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EPD No.	Model No.	T	A	φ d1	L
635691	S8T40x75	T40	6.6	6.9	75
635692	S8T45x75	T45	7.77	8.0	75
635693	S8T50x75	T50	8.79	10.0	75


TORX®


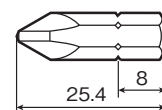
Drive: 1/4"=6.35mm HEX SHANK
DIN3126-C6.3



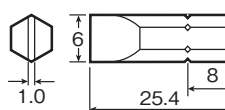
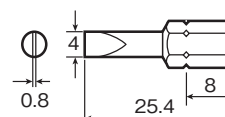
For: 1/4" HEX OPENING BIT HOLDERS

INSERT BITS

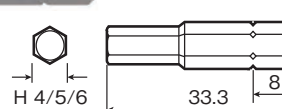
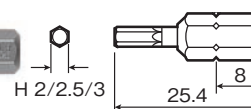
EPD No.	Model No.	heat treatment	PH	L
421231	B33 +1x25.4H	H	1	25.4
421241	B33 +2x25.4H	H	2	25.4
421242	B33 +3x25.4G	G	3	25.4



EPD No.	Model No.	heat treatment	w	t	L
421251	B33 -4x25.4G	G	4	0.8	25.4
421252	B33 -6x25.4G	G	6	1	25.4



EPD No.	Model No.	heat treatment	H	L
421260	B33 H2x25.4H	H	2	25.4
421261	B33 H2.5x25.4H	H	2.5	25.4
421262	B33 H3x25.4H	H	3	25.4
421263	B33 H4x33.3H	H	4	33.3
421264	B33 H5x33.3H	H	5	33.3
421265	B33 H6x33.3H	H	6	33.3

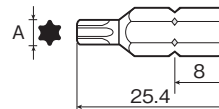


EPD No.	Model No.												
421270	B33 DRIVER BIT SET	+1	+2	+3	-4	-6	x25.4mm	holder					
421271	B33 HEX. BIT SET	H2	H2.5	H3			x 25.4mm	H4	H5	H6	x 33.3mm	holder	

EPD No.	Model No.	T	A	L
635400	A4 T6	T6	1.65	25.4
635401	A4 T8	T8	2.3	25.4
635402	A4 T10	T10	2.72	25.4
635403	A4 T15	T15	3.26	25.4
635404	A4 T20	T20	3.84	25.4
635405	A4 T25	T25	4.4	25.4
635406	A4 T27	T27	4.96	25.4
635407	A4 T30	T30	5.49	25.4
635408	A4 T40	T40	6.6	25.4



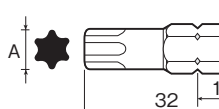
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EPD No.	Model No.	T	A	L
635427	A5 T30	T30	5.49	32
635428	A5 T40	T40	6.6	32
635429	A5 T45	T45	7.77	32
635430	A5 T50	T50	8.79	32

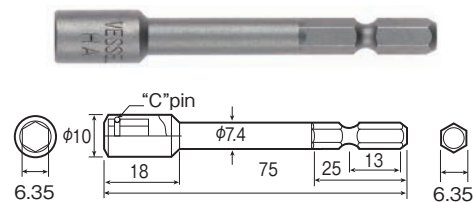


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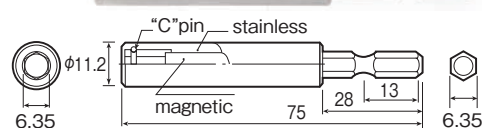


BIT HOLDER (Securely hold short bits)

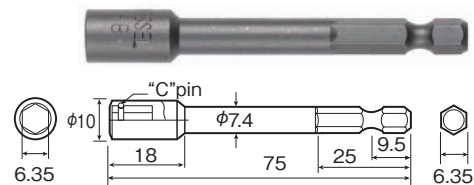
EPD No.	Model No.	A/F	L
482410	HA A/F6.3x75	6.3	75



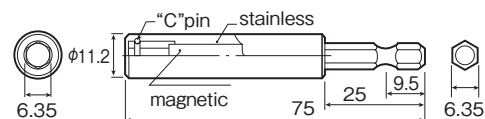
EPD No.	Model No.	A/F	L
482415	HAM A/F6.3x75	6.3	75



EPD No.	Model No.	A/F	L
482420	HB A/F6.3x75	6.3	75



EPD No.	Model No.	A/F	L
482425	HBM A/F6.3x75	6.3	75

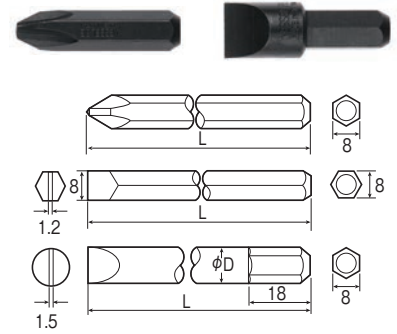


EPD No.	Model No.	heat treatment	L
482429	HD71x45E	E	45



IMPACT DRIVER BIT

EPD No.	Model No.	heat treatment	PH	L
431041	C51 +2x36G	G	2	36
431042	C51 +2x80G	G	2	80
431051	C51 +3x36E	E	3	36
431052	C51 +3x80E	E	3	80
431061	C51 +4x36E	E	4	36

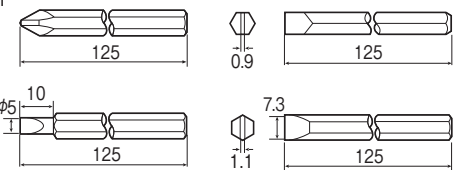


EPD No.	Model No.	heat treatment	w	t	L
431171	C51 -8x36E	E	8	1.2	36
431172	C51 -8x80E	E	8	1.2	80
431271	C51 -10x36E	E	10	1.5	36
431272	C51 -10x80E	E	10	1.5	80
431273	C51 -12x36E	E	12	1.5	36

EPD No.	Model No.	heat treatment	PH	L
431301	C50 +1x125 G	G	1	125
431302	C50 +2x125G	G	2	125
431303	C50 +3x125G	G	3	125



EPD No.	Model No.	heat treatment	w	t	L
431311	C50 -5x125 G	G	5	0.7	125
431312	C50 -6x125 G	G	6	0.9	125
431313	C50 -7x125 G	G	7	1.1	125



EPD No.	Model No.	Set contents
431701	2300 & 2600A BIT SET	C50 +1 +2 +3 -5 -6 -7x125 1 for each
431801	2500 & 2800 BIT SET	C51 +2 +3 +4 -10x36 1 for each

CONVERSION CHART

INCHES			INCHES			INCHES			INCHES		
FRACTION	DECIMAL	METRIC mm	FRACTION	DECIMAL	METRIC mm	FRACTION	DECIMAL	METRIC mm	FRACTION	DECIMAL	METRIC mm
	0.0039	0.1	25/64	0.3906	9.9219	15/16	0.9375	23.8125	2 3/4	2.75	69.85
	0.0079	0.2		0.3937	10		0.9449	24		2.7559	70
	0.0118	0.3	13/32	0.4063	10.3188	61/64	0.9531	24.2094		2.7953	71
1/64	0.0156	0.3969		0.4134	10.5		0.9646	24.5		2.8346	72
	0.0157	0.4	27/64	0.4219	10.7156	31/32	0.9688	24.6063		2.874	73
	0.0197	0.5		0.4331	11		0.9843	25		2.9134	74
	0.0236	0.6	7/16	0.4375	11.1125	63/64	0.9844	25.0031		2.9528	75
	0.0276	0.7		0.4528	11.5	1	1	25.4		2.9921	76
1/32	0.0313	0.7938	29/64	0.4531	11.5094		1.0039	25.5	3	3	76.2
	0.0315	0.8	15/32	0.4688	11.9063		1.0236	26		3.0315	77
	0.0354	0.9		0.4724	12		1.0433	26.5		3.0709	78
	0.0394	1	31/64	0.4844	12.3031		1.063	27		3.1102	79
	0.0433	1.1		0.4921	12.5		1.0827	27.5		3.1496	80
3/64	0.0469	1.1906	1/2	0.5	12.7		1.1024	28		3.189	81
	0.0472	1.2		0.5118	13		1.122	28.5		3.2283	82
	0.0512	1.3	33/64	0.5156	13.0969		1.1417	29		3.2677	83
	0.0551	1.4	17/32	0.5313	13.4938		1.1614	29.5		3.3071	84
	0.0591	1.5		0.5315	13.5		1.1811	30		3.3465	85
1/16	0.0625	1.5875	35/64	0.5469	13.8906		1.2205	31		3.3858	86
	0.063	1.6		0.5512	14	1 1/4	1.25	31.75		3.4252	87
	0.0669	1.7	9/16	0.5625	14.2875		1.2598	32		3.4646	88
	0.0709	1.8		0.5709	14.5		1.2992	33	3 1/2	3.5	88.9
	0.0748	1.9	37/64	0.5781	14.6844		1.3386	34		3.5039	89
5/64	0.0781	1.9844		0.5906	15		1.378	35		3.5433	90
	0.0787	2	19/32	0.5938	15.0813		1.4173	36		3.5827	91
	0.0827	2.1	39/64	0.6094	15.4781		1.4567	37		3.622	92
	0.0866	2.2		0.6102	15.5		1.4961	38		3.6614	93
	0.0906	2.3	5/8	0.625	15.875	1 1/2	1.5	38.1		3.7008	94
3/32	0.0938	2.3813		0.6299	16		1.5354	39		3.7402	95
	0.0945	2.4	41/64	0.6406	16.2719		1.5748	40		3.7795	96
	0.0984	2.5		0.6496	16.5		1.6142	41		3.8189	97
7/64	0.1094	2.7781	21/32	0.6563	16.6688		1.6535	42		3.8583	98
	0.1181	3		0.6693	17		1.6929	43		3.8976	99
1/8	0.125	3.175	43/64	0.6719	17.0656		1.7323	44		3.937	100
	0.1378	3.5	11/16	0.6875	17.4625	1 3/4	1.75	44.45	4	4	101.6
9/64	0.1406	3.5719		0.689	17.5		1.7717	45		4.3307	110
5/32	0.1563	3.9688	45/64	0.7031	17.8594		1.811	46	4 1/2	4.5	114.3
	0.1575	4		0.7087	18		1.8504	47		4.7244	120
11/64	0.1719	4.3656	23/32	0.7188	18.2563		1.8898	48	5	5	127
	0.1772	4.5		0.7283	18.5		1.9291	49		5.1181	130
3/16	0.1875	4.7625	47/64	0.7344	18.6531		1.9685	50		5.5118	140
	0.1969	5		0.748	19	2	2	50.8		5.9055	150
13/64	0.2031	5.1594	3/4	0.75	19.05		2.0079	51	6	6	152.4
	0.2165	5.5	49/64	0.7656	19.4469		2.0472	52		6.2992	160
7/32	0.2188	5.5563		0.7677	19.5		2.0866	53		6.6929	170
15/64	0.2344	5.9531	25/32	0.7813	19.8438		2.126	54		7.0866	180
	0.2362	6		0.7874	20		2.1654	55		7.4803	190
1/4	0.25	6.35	51/64	0.7969	20.2406		2.2047	56		7.874	200
	0.2559	6.5		0.8071	20.5		2.2441	57	8	8	203.2
17/64	0.2656	6.7469	13/16	0.8125	20.6375	2 1/4	2.25	57.15		9.8425	250
	0.2756	7		0.8268	21		2.2835	58	10	10	254
9/32	0.2813	7.1438	53/64	0.8281	21.0344		2.3228	59	20	20	508
	0.2953	7.5	27/32	0.8438	21.4313		2.3622	60	30	30	762
19/64	0.2969	7.5406		0.8465	21.5		2.4016	61	40	40	1016
5/16	0.3125	7.9375	55/64	0.8594	21.8281		2.4409	62	60	60	1524
	0.315	8		0.8661	22		2.4803	63	80	80	2032
21/64	0.3281	8.3344	7/8	0.875	22.225	2 1/2	2.5	63.5	100	100	2540
	0.3346	8.5		0.8858	22.5		2.5197	64			
11/32	0.3438	8.7313	57/64	0.8906	22.6219		2.5591	65			
	0.3543	9		0.9055	23		2.5984	66			
23/64	0.3594	9.1281	29/32	0.9063	23.0188		2.6378	67			
	0.374	9.5	59/64	0.9219	23.4156		2.6772	68			
3/8	0.375	9.525		0.9252	23.5		2.7165	69			

Since 1916, **VESSEL** has been a Japanese leading manufacturing company of screwdrivers and bits.



1916

VESSEL factory founded
Hand screwdrivers production started

1933

VESSEL trademark registered

1954

Industrial bits production started

1961

Invented double-ended bits first in the world
and started the production and sales

1970

Enhanced the product line of industrial bits for
professional use in the production and/or the assembly lines
during Japan's Rapid Economic Growth

2000

Launched problem-solving bits
such as Torsion Bits and sockets

2014

Enhanced the product line of
precision bits for the screw
tightening in the small
electronic devices and/or
the precision instrument industries



About ISO

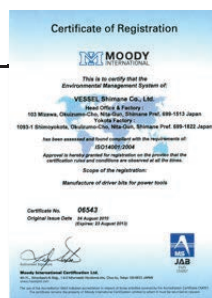
ISO 9001

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



ISO14001

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



●Product specifications, dimensions, pricing, and other information are subject to change without notice.

Manufactured by:

VESSEL CO., INC.

17-25, Fukae-Kita 2-chome, Higashinari-ku, Osaka 537-0001 JAPAN
Tel : + 81 (0)6 6976 7778 Fax : + 81 (0)6 6972 9441

VESSEL EUROPE

6, avenue du 1er Mai, ZAE Les Glaisses, 91120 Palaiseau FRANCE
Tel : + 33 (0)1 69 19 17 42 Fax : + 33 (0)1 69 19 42 20

E-mail : export@vessel.co.jp URL : <http://www.vessel.co.jp/english/>