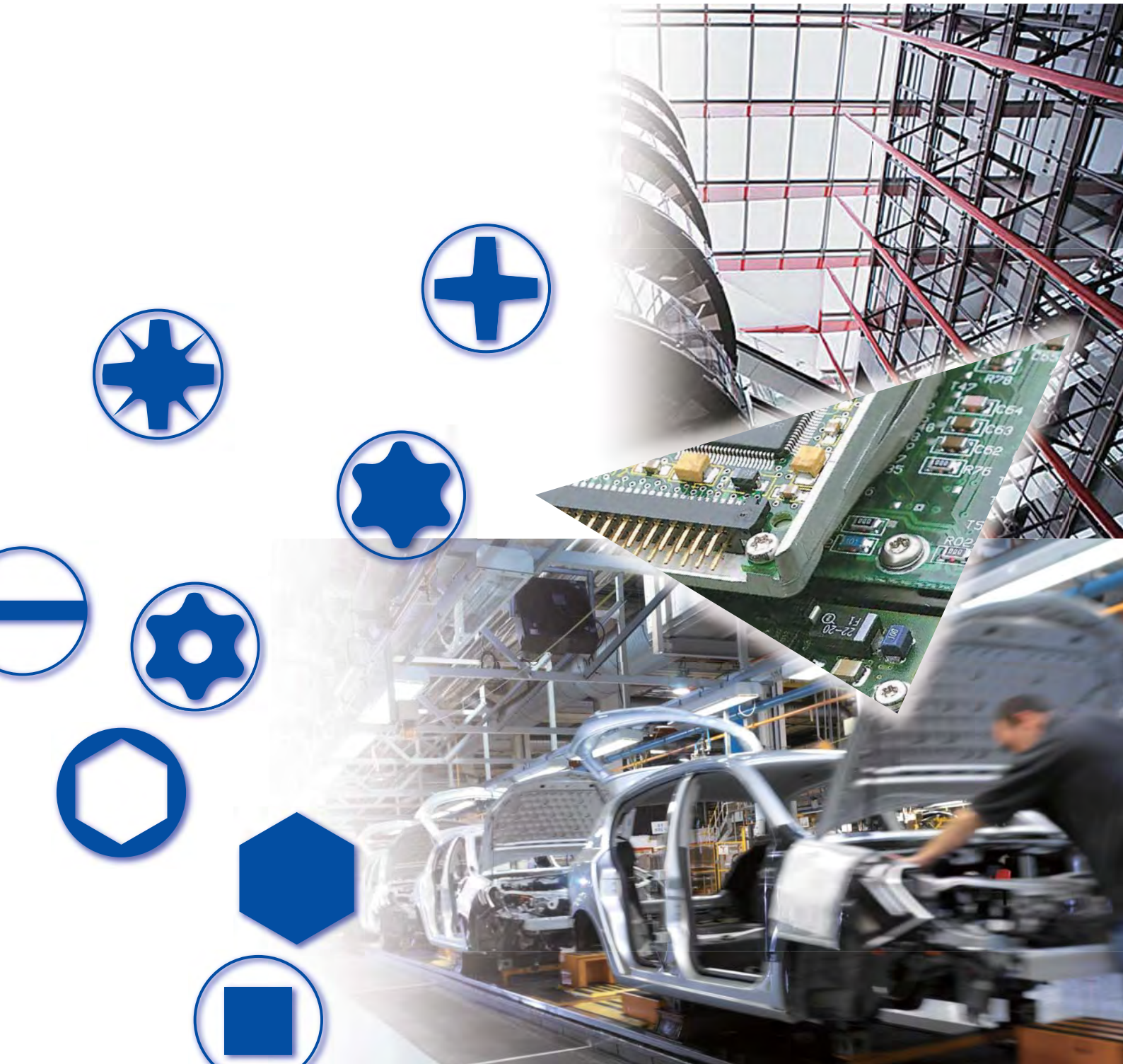




Industrial Bits



Challenging for best performing the dedication to high precision

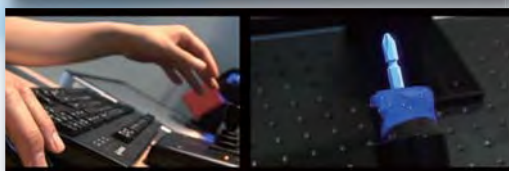
For **VESSEL**, quality means to meet bit users' applications.

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.



industrial bits, electronic device screw fastening

Latest Technology Support

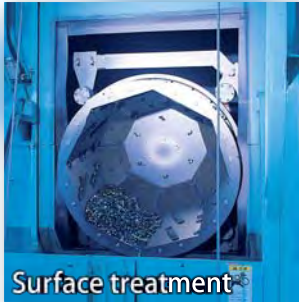
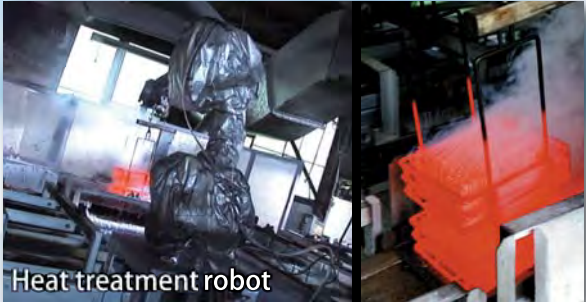
Consistent production system, from steel material selection, to machining, pressing, heat-treatment, surface finish, and final inspection before shipment



Plasma/vacuum furnaces add wider applications



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



CONTENTS

• BITS FOR PRECISION SCREW

Wing-shank
Halfmoon
5mm Hex Drive

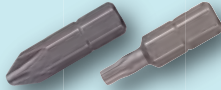
NEW



P5~11

• INSERT BITS

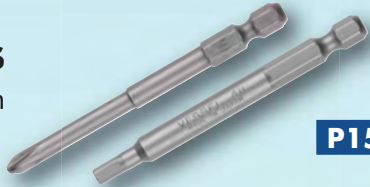
6.35mm Hex shank



P12~14

• POWER BITS

6.35mm/8mm
Hex Drive

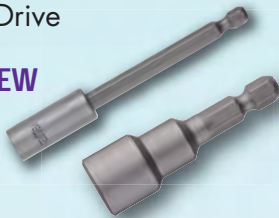


P15~20

• SOCKET BITS, NUT SETTERS

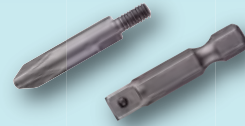
6.35mm Hex Drive

NEW



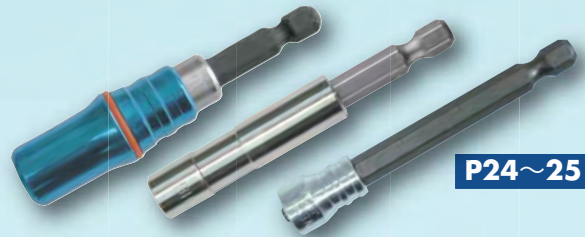
P21~22

• SCREW SHANK DRIVER BITS & FINDER SLEEVES ADAPTERS



P23

• BIT HOLDERS & MG. VISCATCH

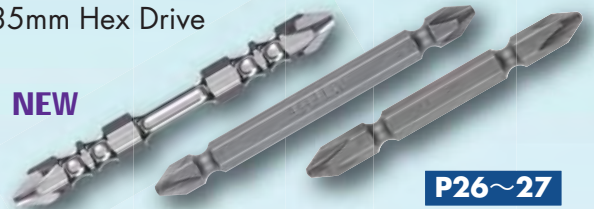


P24~25

• DOUBLE END POWER BITS

6.35mm Hex Drive

NEW



P26~27

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.

SHOCKLESS BIT

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

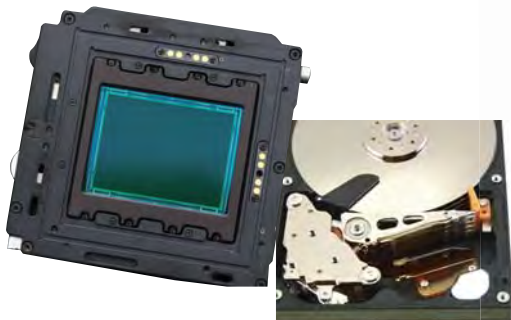
VESSEL sought out a single answer.

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**

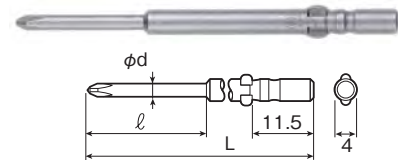
ECO Eco-friendly product

**Special alloy steel
Precision cutting
and hardening**

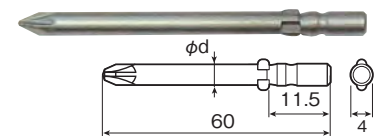


BITS FOR PRECISION SCREW

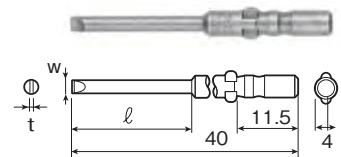
EDP No.	Model No.	PH	ϕd	ℓ	L
446001	D73 +00x1.2x40	00	1.2	20	40
445981	D73 +00x1.5x40	00	1.5	20	40
445982	D73 +00x1.5x60	00	1.5	20	60
446004	D73 +00x1.7x40	00	1.7	20	40
445983	D73 +00x2x40	00	2	20	40
445984	D73 +00x2x60	00	2	20	60
446016	D73 +0x1.4x20x40	0	1.4	20	40
446017	D73 +0x1.4x20x60	0	1.4	20	60
446022	D73 +0x1.5x20x40	0	1.5	20	40
446076	D73 +0x1.5x20x60	0	1.5	20	40
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
446027	D73 +0x2x20x80	0	2	20	80
446028	D73 +0x2x100	0	2	20	100
446029	D73 +0x2x30x60	0	2	30	60
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



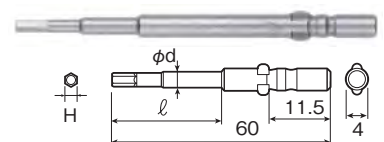
EDP No.	Model No.	PZ	ϕd	L
447414	D73 PZ0x60	0	4	60
447415	D73 PZ1x60	1	4	60
447430	D73 PZ2x60	2	4	60



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	d ϕ	ℓ	L
483051	D73 H1.5x60	H1.5	2	20	60
483052	D73 H2x60	H2	3	20	60
483053	D73 H2.5x60	H2.5	3	20	60
483054	D73 H3x60	H3	4	-	60



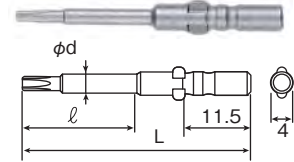
Drive: ϕ 4mm SHANK DRIVE
Wing-shank



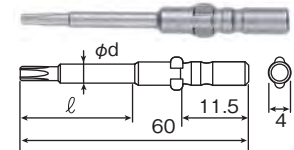
For: HIOS

BITS FOR PRECISION SCREW

EDP No.	Model No.	T	ϕ d	l	L
635621	D73 T1x40	T1	1.5	20	40
635622	D73 T2x40	T2	1.5	20	40
635623	D73 T3x40	T3	1.7	20	40
635624	D73 T4x40	T4	1.8	20	40
446107	D73 T5x40	T5	2	20	40
446108	D73 T5x60	T5	2	20	60
446109	D73 T6x40	T6	2	20	40
446110	D73 T6x60	T6	2	20	60
446113	D73 T7x60	T7	2	20	60
635628	D73 T8x40	T8	3	20	40
446116	D73 T8Hx60	T8H	4	-	60
635629	D73 T9x40	T9	3	20	40
635630	D73 T10x40	T10	3	20	40
446119	D73 T10Hx4x60	T10H	4	-	60



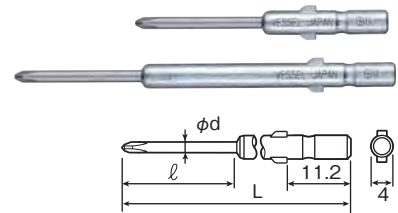
EDP No.	Model No.	IP	ϕ d	l	L
447416	D73 4IPx60	4IP	1.8	20	60
447417	D73 5IPx60	5IP	2	20	60
447418	D73 6IPx60	6IP	2.5	20	60
447419	D73 8IPx60	8IP	3	20	60
447420	D73 10IPx60	10IP	3	20	60



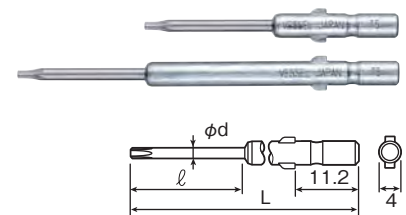
EDP No.	Model No.	PH	ϕ d	l	L
483801	DS73 +00x1.5x40	00	1.5	20	40
483802	DS73 +00x1.5x60	00	1.5	20	60
483809	DS73 +0x1.5x40	0	1.5	20	40
483810	DS73 +0x1.5x60	0	1.5	20	60
483811	DS73 +0x1.7x40	0	1.7	20	40
483812	DS73 +0x1.7x60	0	1.7	20	60
483813	DS73 +0x2x40	0	2	20	40
483814	DS73 +0x2x60	0	2	20	60



NEW Shockless Bit



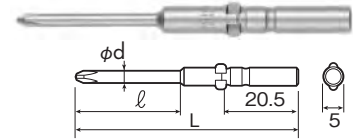
EDP No.	Model No.	T	ϕ d	l	L
483901	DS73 T5x2x40	T5	2	20	40
483902	DS73 T5x2x60	T5	2	20	60
483903	DS73 T6x2x40	T6	2	20	40
483904	DS73 T6x2x60	T6	2	20	60



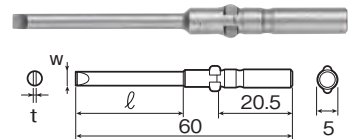


BITS FOR PRECISION SCREW

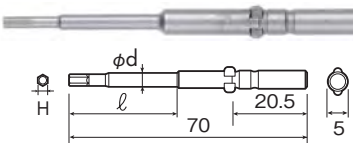
EDP No.	Model No.	PH	ϕd	ℓ	L
446241	D76 +00x2x60	00	2	20	60
446242	D76 +0x2.5x60	0	2.5	25	60
483121	D76 +1x3x60	1	3	30	60
446267	D76 +1x3x30x80	1	3	30	80
483125	D76 +1x5x60	1	5	-	60
446271	D76 +1x5x100	1	5	-	100
483131	D76 +2x5x60	2	5	-	60
446279	D76 +2x5x80	2	5	-	80
446280	D76 +2x5x100	2	5	-	100
446281	D76 +2x5x120	2	5	-	120
446282	D76 +2x5x150	2	5	-	150



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



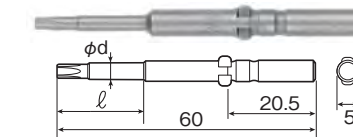
EDP No.	Model No.	H	ϕd	ℓ	L
483151	D76 H2x70	H2	3	30	70
483152	D76 H2.5x70	H2.5	3	30	70
483153	D76 H3x70	H3	4	30	70
483154	D76 H4x70	H4	5	-	70



EDP No.	Model No.	T	ϕd	ℓ	L
635651	D76 T5x60	T5	2	20	60
635652	D76 T6x60	T6	2.5	20	60
635653	D76 T7x60	T7	2.5	20	60
635654	D76 T8x60	T8	3	20	60
635655	D76 T9x60	T9	3	20	60
635656	D76 T10x60	T10	3	20	60
635657	D76 T15x60	T15	4	20	60
635658	D76 T20x60	T20	-	-	60
635659	D76 T25x60	T25	-	-	60



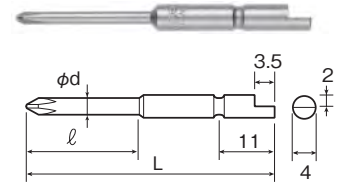
TORX®



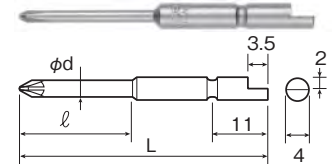


BITS FOR PRECISION SCREW

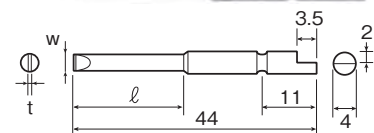
EPD No.	Model No.	PH	ϕd	l	L
482901	D71 +00x1.5x44	00	1.5	20	44
482902	D71 +00x1.5x64	00	1.5	20	64
446293	EPH204	00	2	20	64
446290	EPH201	0	1.8	20	44
446291	EPH202	0	1.8	20	64
482911	D71 +0x2x44	0	2.0	20	44
482912	D71 +0x2x64	0	2.0	20	64
446294	EPH205	0	2.5	20	44
446295	EPH206	0	2.5	20	64
482921	D71 +1x3x44	1	3	20	44
482922	D71 +1x3x64	1	3	20	64
446298	EPH209	1	4	-	44
446299	EPH210	1	4	-	64
446300	EPH211	2	4	-	44
446301	EPH212	2	4	-	64



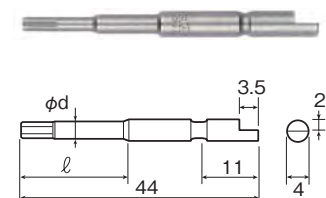
EDP No.	Model No.	PZ	ϕd	l	L
447422	D71 PZ0x44	0	2.5	20	44
447423	D71 PZ0x64	0	2.5	20	64
447424	D71 PZ1x44	1	4	-	44
447425	D71 PZ1x64	1	4	-	64



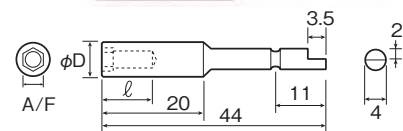
EDP No.	Model No.	w	t	l	L
446303	EPL221	2	0.3	20	44
446304	EPL222	2.5	0.3	20	44
446305	EPL223	3	0.4	20	44
446306	EPL224	4	0.5	-	44



EDP No.	Model No.	H	ϕd	l	L
446308	EHW231	H1.5	3	20	44
446309	EHW232	H2	3	20	44
446310	EHW233	H2.5	3.5	20	44
446311	EHW234	H3	4	-	44



EDP No.	Model No.	A/F	ϕD	l	L
446312	EBX241	A/F2.3	4	5	44
446313	EBX242	A/F2.5	4	5	44
446314	EBX243	A/F3	5	8	44
446315	EBX244	A/F4	7	10	44
446316	EBX245	A/F4.5	7	10	44
446317	EBX246	A/F5	8	15	44
446318	EBX247	A/F5.5	8	15	44



Drive: ϕ 4mm DRIVE
Halfmoon



For: DELVO

BITS FOR PRECISION SCREW

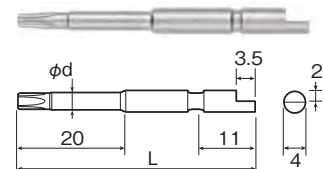
EDP No.	Model No.	T	ϕ d	ℓ	L
635601	D71 T1x44	T1	1.5	20	44
635602	D71 T2x44	T2	1.5	20	44
635603	D71 T3x44	T3	1.7	20	44
635604	D71 T4x44	T4	1.8	20	44
446319	ETX250	T5	4	-	44
446320	ETX251	T5	4	-	64
446322	ETX253	T6	4	-	64
635608	D71 T8x44	T8	3	20	44
446323	ETX254	T8H	4	-	44
446324	ETX255	T8H	4	-	64
635609	D71 T9x44	T9	3	20	44
446325	ETX256	T10H	4	-	44
446326	ETX257	T10H	4	-	64
446328	ETX259	T15H	4	-	64



TORX[®]



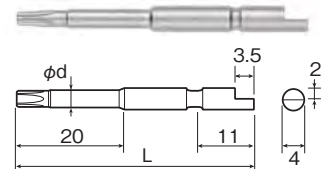
TORX[®]
TAMPER PROOF



EDP No.	Model No.	IP	ϕ d	ℓ	L
447402	D71 4IPx44	4IP	1.8	20	44
447403	D71 4IPx64	4IP	1.8	20	64
447404	D71 5IPx44	5IP	2	20	44
447405	D71 5IPx64	5IP	2	20	64
447406	D71 6IPx44	6IP	2.5	20	44
447407	D71 6IPx64	6IP	2.5	20	64
447408	D71 8IPx44	8IP	3	20	44
447409	D71 8IPx64	8IP	3	20	64
447410	D71 10IPx44	10IP	3	20	44
447411	D71 10IPx64	10IP	3	20	64



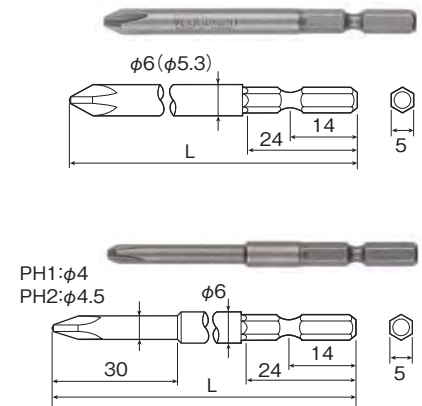
TORX[®]



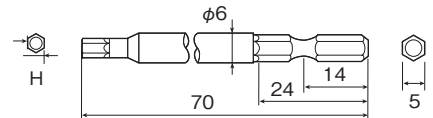


BITS FOR PRECISION SCREW

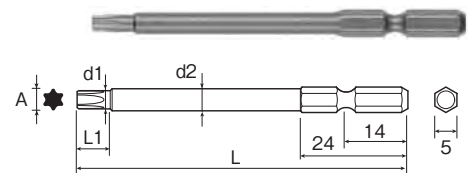
EDP No.	Model No.	PH	φD	L
422036	B34 +1×70X	1	—	70
422031	B34 +1×70H	1	—	70
422037	B34 +1×100X	1	—	100
422032	B34 +1×100H	1	—	100
422033	B34 +1×150H	1	—	150
446335	B34 +1×4×70H	1	—	70
422034	B34 +1×5.3×105H	1	5.3	105
422040	B34 +1×5.3×120X	1	5.3	120
422061	B34 +1×5.3×125X	1	5.3	125
422051	B34 +2×70X	2	—	70
422041	B34 +2×70H	2	—	70
422052	B34 +2×100X	2	—	100
422042	B34 +2×100H	2	—	100
422045	B34 +2×120H	2	—	120
422043	B34 +2×150H	2	—	150
422044	B34 +2×200H	2	—	200
422049	B34 +2×4.5×70H	2	4.5	70
422046	B34 +2×5.3×105H	2	5.3	105
422047	B34 +2×5.3×120H	2	5.3	120
446340	B34 +2×3×30×75	2	3	75



EDP No.	Model No.	PH	φD	L
422071	B34 H2×70H	H2	—	70
422072	B34 H2.5×70H	H2.5	—	70
422073	B34 H3×70H	H3	—	70
422074	B34 H4×70H	H4	—	70
422075	B34 H5×70H	H5	—	70



EPD No.	Model No.	A	d1	L1	d2	L
635498	NT5×75	1.37	1.67	6.5	4.0	75
635500	NT6×75	1.65	1.95	6.5	4.0	75
635501	NT6×100	1.65	1.95	6.5	4.0	100
635505	NT8×75	2.3	2.60	7.0	4.5	75
635506	NT8×100	2.3	2.60	7.0	4.5	100
635510	NT10×75	2.72	3.02	7.5	4.5	75
635511	NT10×100	2.72	3.02	7.5	4.5	100
635515	NT15×75	3.26	3.56	7.5	4.5	75
635516	NT15×100	3.26	3.56	7.5	4.5	100
635521	NT20×75	3.84	4.14	7.5	5.0	75
635522	NT20×100	3.84	4.14	7.5	5.0	100
635525	NT25×75	4.4	4.70	8.0	5.0	75
635526	NT25×100	4.4	4.70	8.0	5.0	100
635530	NT27×75	4.96	5.26	8.0	5.5	75
635531	NT27×100	4.96	5.26	8.0	5.5	100



Drive: 5mm HEX DRIVE

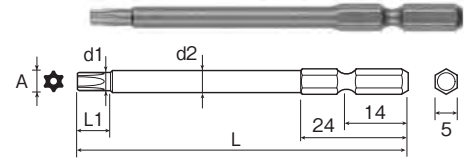
For:

HIOS, DELVO, PANASONIC, URYU, YOKOTA

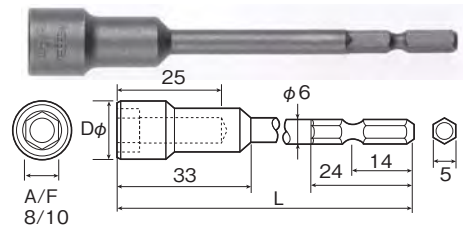
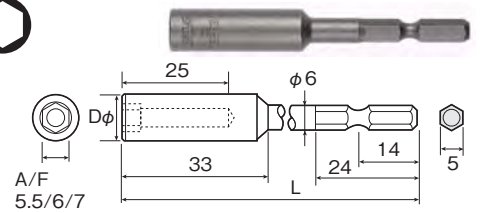


BITS FOR PRECISION SCREW

EDP No.	Model No.	A	d1	L1	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	Dφ	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



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



For: 1/4" HEX OPENING BIT HOLDERS

INSERT BITS

EDP No.	Model No.	PH	ϕd	L			
489001	3000/25	0	3	25.4	+		
489002	3001R/25	1	4.5	25.4			
489025	3001/50C	1	4.5	50			
489003	3002R/25	2	5	25.4			*
489026	3002/50C	2	6	50			*
489027	3003/50C	3	6	50			*

EDP No.	Model No.	PH	L			
487105	1001	1	25.4	+		
487106	1002	2	25.4			*
487107	1003	3	25.4			

EDP No.	Model No.	PZ	ϕd	L			
447344	3000/25PZ	0	3	25.4	+		
489014	3001/25PZC	1	4.5	25.4			*
489028	3001/50PZC	1	4.5	50			*
489015	3002/25PZC	2	6	25.4			*
489040	3002/50PZC	2	6	50			*
489016	3003/25PZC	3	6	25.4			

EDP No.	Model No.	PZ	L			
487115	1001PZ	1	25.4	+		
489022	3001/50PZ	1	50			
487116	1002PZ	2	25.4			
489023	3002/50PZ	2	50			
487117	1003PZ	3	25.4			
489024	3003/50PZ	3	50			

EDP No.	Model No.	w	t	L		
489678	5635/25	3.5	0.55	25.4	-	
489062	5604/25	4	0.6	25.4		
489064	5605/25	5	0.75	25.4		
446389	5655/25	5.5	0.8	25.4		

EDP No.	Model No.	w	t	L		
487120	1501	4.76	0.86	25.4	-	
487121	1502	5.55	1.02	25.4		
487122	1503	6.35	1.07	25.4		
487123	1504	7.14	1.17	25.4		
487124	1505	7.93	1.27	25.4		

* Will be discontinued as soon as current stock has run out

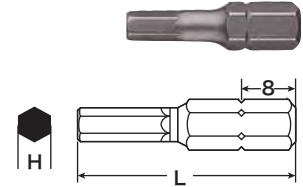
**Drive: 1/4" = 6.35mm HEX SHANK
DIN3126-C6.3**



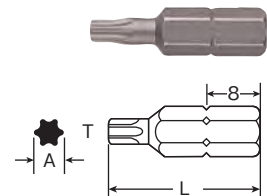
For: 1/4" HEX OPENING BIT HOLDERS

INSERT BITS

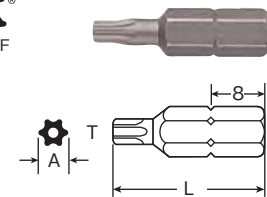
EDP No.	Model No.	H	L
489050	30315/25	H1.5	25.4
489051	3032/25	H2	25.4
489052	30325/25	H2.5	25.4
489053	3033/25	H3	25.4
489054	3034/25	H4	25.4
487142	21004	H4	33.3
489055	3035/25	H5	25.4
487143	21005	H5	33.3
489056	3036/25	H6	25.4
489057	3038/25	H8	25.4
487145	21008	H8	33.3



EDP No.	Model No.	T	A	L
489154	T03/25	T3	1.12	25.4
489155	T05/25	T5	1.37	25.4
489156	T06/25	T6	1.65	25.4
489157	T07/25	T7	1.97	25.4 *
489158	T08/25	T8	2.3	25.4
489159	T09/25	T9	2.48	25.4
489160	T10/25	T10	2.72	25.4 *
489161	T15/25	T15	3.26	25.4 *
489162	T20/25	T20	3.84	25.4
489163	T25/25	T25	4.4	25.4
489164	T27/25	T27	4.96	25.4
489165	T30/25	T30	5.49	25.4 *
489166	T40/25	T40	6.6	25.4



EDP No.	Model No.	T	A	L
446392	TF08/25	T8H	2.3	25.4
446393	TF09/25	T9H	2.48	25.4
489167	TF10/25	T10H	2.72	25.4
489168	TF15/25	T15H	3.26	25.4
489169	TF20/25	T20H	3.84	25.4
489170	TF25/25	T25H	4.4	25.4
489172	TF30/25	T30H	5.49	25.4

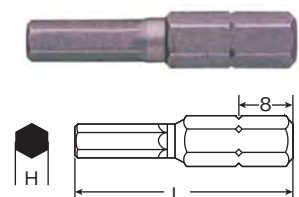


**Drive: 5/16" = 8mm HEX SHANK
DIN3126-C8**



For: 5/16" HEX OPENING BIT HOLDERS

EDP No.	Model No.	H	L
489103	3045/34	H5	34
489104	3046/34	H6	34
447308	3047/34	H7	34
489105	3048/34	H8	34
489106	3050/34	H10	34



* Will be discontinued as soon as current stock has run out

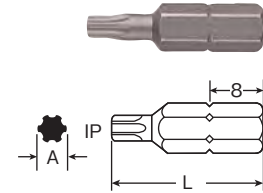
**Drive: 1/4" = 6.35mm HEX SHANK
DIN3126-C6.3**



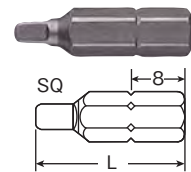
For: 1/4" HEX OPENING BIT HOLDERS

INSERT BITS

EDP No.	Model No.	IP	A	L
447201	6IP/25	6IP	1.65	25.4
447202	8IP/25	8IP	2.3	25.4
447203	10IP/25	10IP	2.72	25.4
447204	15IP/25	15IP	3.26	25.4
447205	20IP/25	20IP	3.84	25.4
447206	25IP/25	25IP	4.4	25.4
447207	30IP/25	30IP	5.49	25.4
447208	40IP/25	40IP	6.6	25.4



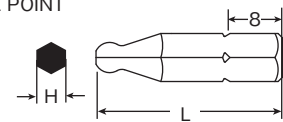
EDP No.	Model No.	SQ	L
487151	3002	2 (1/8")	25.4
487152	3003	3 (9/64")	25.4



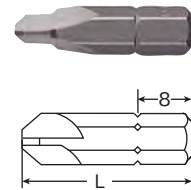
EDP No.	Model No.	H	L
446402	3720/25	H2	25.4
446403	3725/25	H2.5	25.4
446404	3730/25	H3	25.4
446405	3740/25	H4	25.4
446406	3750/25	H5	25.4
446407	3760/25	H6	25.4
446408	3780/25	H8	25.4



BALL POINT



EDP No.	Model No.	TW	L
446411	4001	TW1	25.4
446412	4002	TW2	25.4
446413	4003	TW3	25.4
446414	4004	TW4	25.4



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

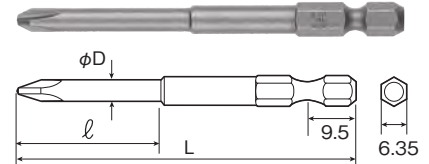


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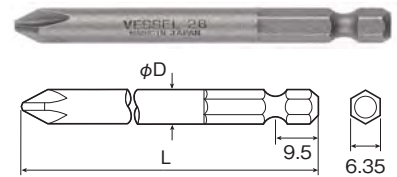
AEG, ARO, ATLAS-COPCO, BIAX, B&D, BOSCH, BUCKEYE-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS (FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI

POWER BITS

EDP No.	Model No.	PH	ϕD	l	L
446126	B35 +00x1.2x60	00	1.2	20	60
446423	10600	00	1.58	-	49
447347	10700	00	1.58	-	70
446128	B35 +00x1.5x60	00	1.5	20	60
446130	B35 +00x1.7x60	00	1.7	20	60
446141	B35 +00x2x100	00	2	40	100
446145	B35 +0x1.4x60	0	1.4	30	60
446150	B35 +0x1.7x60	0	1.7	30	60
446151	B35 +0x1.7x80	0	1.7	40	80
446153	B35 +0x2x60	0	2	20	60
446157	B35 +0x2x100	0	2	30	100
446159	B35 +0x2.5x60	0	2.5	20	60
446163	B35 +0x2.5x100	0	2.5	30	100
446165	B35 +0x3x60	0	3	20	60
446169	B35 +0x3x100	0	3	30	100
487195	1060	0	3.17	-	49



EDP No.	Model No.	PH	ϕD	L
487200	1061	1	4.76	49
489235	4301/50C	1	4.76	50
487201	1071	1	4.76	70
487202	1081	1	4.76	89
489901	4301/110C	1	4.76	110
489672	4301/150	1	4.5	150
487203	1091	1	4.76	152
446424	1062R	2	4.76	49
487205	1062	2	6.35	49
489902	4302/50C	2	6	50
487206	1072	2	6.35	70
487207	1082	2	6.35	89
489255	4302/100	2	6	100
489903	4302/110C	2	6	110
446435	4302/127	2	6	127
489673	4302/150	2	6	150
487208	1092	2	6.35	152
446439	4302/200	2	6	200
487210	1063	3	7.9	49
489904	4303/50C	3	6	50
487211	1073	3	7.9	70
487212	1083	3	7.9	89
489256	4303/100	3	8	100
446437	4303/150	3	8	150



* Will be discontinued as soon as current stock has run out

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

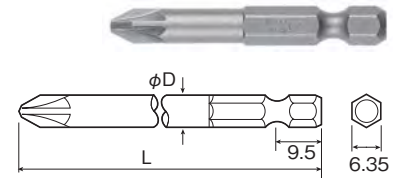


For:

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.	PZ	φD	ℓ	L	
447304	1060PZ	0	3.17	28	49	
447351	1070PZ	0	3.17	-	70	
447301	B35 PZ0x2x60	0	2	20	60	
447303	B35 PZ0x3x60	0	3	20	60	
487215	1061PZ	1	4.76	-	49	
489905	4301/50PZC	1	4.76	20	50	*
487216	1071PZ	1	4.76	-	70	
489251	4301/75PZC	1	4.76	50	75	*
487217	1081PZ	1	4.76	-	89	
489257	4301/100PZ	1	4.5	-	100	
489906	4301/110PZC	1	4.76	80	110	*
487218	1091PZ	1	4.76	50	152	
487220	1062PZ	2	6.35	-	49	
489907	4302/50PZC	2	6	22	50	*
487221	1072PZ	2	6.35	-	70	
487222	1082PZ	2	6.35	-	89	
489258	4302/100PZ	2	6	-	100	
489908	4302/110PZC	2	6	80	110	*
446445	4302/127PZ	2	6	-	127	
489674	4302/150PZ	2	6	-	150	
487223	1092PZ	2	6.35	50	152	
446449	4302/200PZ	2	6	-	200	
487225	1063PZ	3	8	-	49	
487226	1073PZ	3	8	-	70	
487227	1083PZ	3	8	-	89	
489909	4303/110PZC	3	6	80	110	*
489234	4304/51PZ	4	8	-	51	



* Will be discontinued as soon as current stock has run out

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

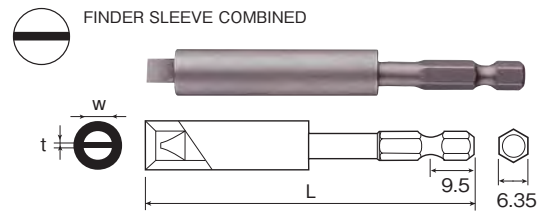


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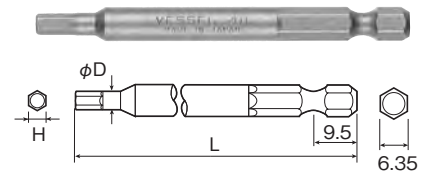
AEG, ARO, ATLAS-COPCO, BIAX, B&D, BOSCH, BUCKEYE-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS (FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI

POWER BITS

EPD No.	Model No.	w	t	screw head	L
489385	5324/94	4.9	0.91	4~5	95
487360	6001	4.9	0.91	5~6	95
487361	6002	6.12	0.97	6~8	95
487362	6003	7.37	1.07	8~10	95
487363	6004	8.89	1.17	10~12	95
487364	6005	10.03	1.27	12~14	98



EPD No.	Model No.	H	φD	L
424080	B35 H2x7x75	H2	7	75
424081	B35 H2x7x100	H2	7	100
447352	21202	H2	3.5	49
424082	B35 H2.5x7x75	H2.5	7	75
424083	B35 H2.5x7x100	H2.5	7	100
424093	B35 H2.5x7x150	H2.5	7	150
487280	21225	H2.5	3.5	49
487281	21203	H3	3.5	49
424084	B35 H3x7x75	H3	7	75
424085	B35 H3x7x100	H3	7	100
424094	B35 H3x7x150	H3	7	150
487282	21204	H4	4.6	49
424086	B35 H4x7x75	H4	7	75
424087	B35 H4x7x100	H4	7	100
424095	B35 H4x7x150	H4	7	150
487283	21205	H5	5.8	49
424088	B35 H5x7x75	H5	7	75
424089	B35 H5x7x100	H5	7	100
424096	B35 H5x7x150	H5	7	150
487284	21206	H6	-	49
424090	B35 H6x7x75	H6	7	75
424091	B35 H6x7x100	H6	7	100
424097	B35 H6x7x150	H6	7	150
489296	1337/70	H7	10	70
447306	21208	H8	-	49
489297	1338/70	H8	10	70
489298	1339/70	H9	11	70
447353	21210	H10	-	49
487276	2027	H6.35	-	49



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

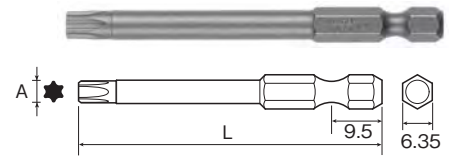


For:

AEG, ARO, ATLAS-COPCO, BIAx, B&D, BOSCH, BUCKEYE-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

EPD No.	Model No.	T	A	L
446486	T10605	T5	1.37	49
447355	T10705	T5	1.37	70
447356	T10805	T5	1.37	89
446487	T10606	T6	1.65	49
446498	T10706	T6	1.65	70
447307	T10806	T6	1.65	89
447317	T10906	T6	1.65	152
446488	T10607	T7	1.97	49
446499	T10707	T7	1.97	70
446509	T10807	T7	1.97	89
446519	T10907	T7	1.97	152
446489	T10608	T8	2.3	49
446500	T10708	T8	2.3	70
446510	T10808	T8	2.3	90
446520	T10908	T8	2.3	152
446490	T10609	T9	2.48	49
446501	T10709	T9	2.48	70
446511	T10809	T9	2.48	90
446521	T10909	T9	2.48	152
446491	T10610	T10	2.72	49
446502	T10710	T10	2.72	70
446512	T10810	T10	2.72	90
446522	T10910	T10	2.72	152
446492	T10615	T15	3.26	49
446503	T10715	T15	3.26	70
446513	T10815	T15	3.26	90
446493	T10620	T20	3.84	49
446504	T10720	T20	3.84	70
446514	T10820	T20	3.84	90
446524	T10920	T20	3.84	152
446494	T10625	T25	4.4	49
446505	T10725	T25	4.4	70
446495	T10627	T27	4.96	49
446516	T10827	T27	4.96	90
446526	T10927	T27	4.96	152



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

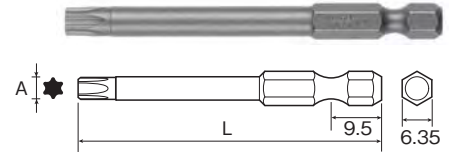


For:

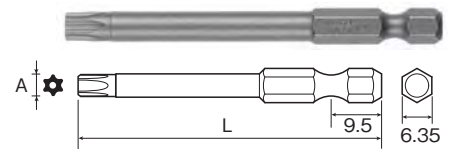
AEG, ARO, ATLAS-COPCO, BIAx, B&D, BOSCH, BUCKEYE-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS (FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI

POWER BITS

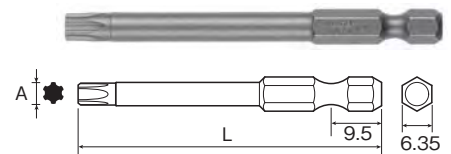
EDP No.	Model No.	T	A	L
446496	T10630	T30	5.49	49
446507	T10730	T30	5.49	70
446517	T10830	T30	5.49	90
446527	T10930	T30	5.49	152
446497	T10640	T40	6.6	49
446508	T10740	T40	6.6	70
446518	T10840	T40	6.6	90
446528	T10940	T40	6.6	152



EDP No.	Model No.	T	A	L
446533	T10610H	T10H	2.72	49
446544	T10710H	T10H	2.72	70
446535	T10620H	T20H	3.84	49
446546	T10720H	T20H	3.84	70



EDP No.	Model No.	IP	A	L
447209	IP10605	5IP	1.41	49
447210	IP10705	5IP	1.41	70
447211	IP10606	6IP	1.69	49
447212	IP10706	6IP	1.69	70
447213	IP10806	6IP	1.69	90
447251	IP10906	6IP	1.69	152
447215	IP10607	7IP	1.97	49
447216	IP10707	7IP	1.97	70
447217	IP10807	7IP	1.97	90
447252	IP10907	7IP	1.97	152
447219	IP10608	8IP	2.29	49
447220	IP10708	8IP	2.29	70
447221	IP10808	8IP	2.29	90
447253	IP10908	8IP	2.29	152
447227	IP10610	10IP	2.72	49
447228	IP10710	10IP	2.72	70
447244	IP10810	10IP	2.72	90
447254	IP10910	10IP	2.72	152
447230	IP10615	15IP	3.25	49
447255	IP10915	15IP	3.25	152
447231	IP10620	20IP	3.84	49
447238	IP10720	20IP	3.84	70
447256	IP10920	20IP	3.84	152
447239	IP10725	20IP	3.84	70



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

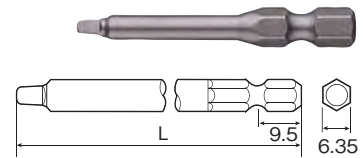


For:

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

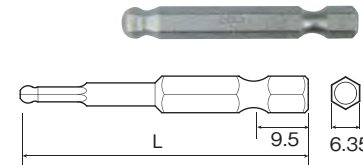
EDP No.	Model No.	SQ	L
487301	3041	1 (3/32")	70
487306	3042	2 (1/8")	70
447357	3042-152	2 (1/8")	152
487311	3043	3 (9/64")	70



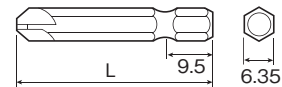
EDP No.	Model No.	H	L
446577	1732/50	H2	50
446578	17325/50	H2.5	50
446579	1733/50	H3	50
446580	1734/50	H4	50
446581	1735/50	H5	50
446582	1736/50	H6	50
446583	1738/50	H8	50



BALL POINT



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



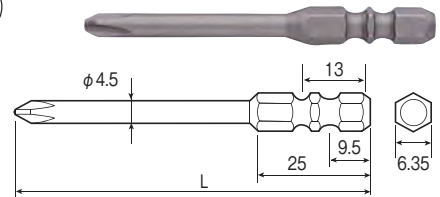
For:

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.	PH	φ d	L
415301	M-AB16 PH2x4.5x65	2	4.5	65
415302	M-AB16 PH2x4.5x100	2	4.5	100

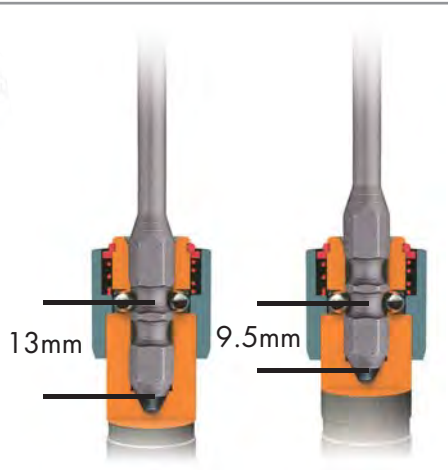


NEW



Two steelball ditches

Available for the use of two different anvil chocking



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



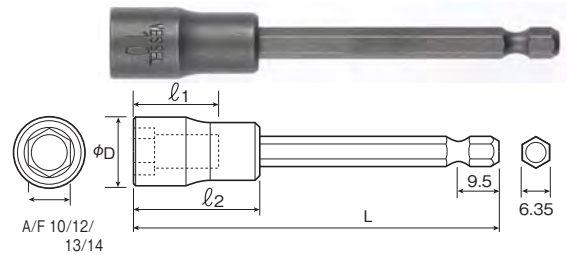
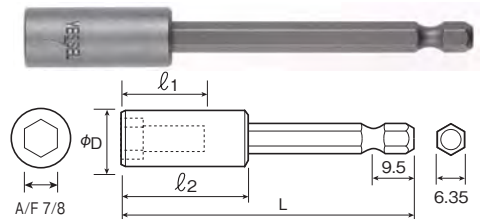
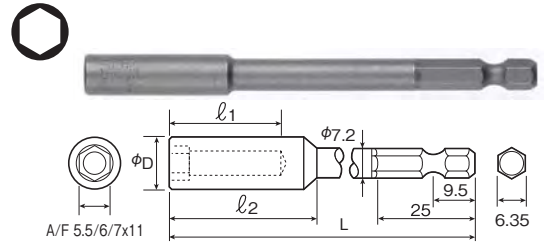
For:

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

SOCKET BITS, Nut Setters

EDP No.	Model No.	A/F	ϕD	l_1	l_2	L
424281	B45 H5.5x75	5.5	9	25	33	75
424380	B45 H5.5x100	5.5	9	25	33	100
424381	B45 H6x100	6	10	25	33	100
424279	B45 H7x11x75	7	11	25	33	75
424280	B45 H7x11x100	7	11	25	33	100
424283	B45 H7x75	☆	7	13.5	22	75
424382	B45 H7x100	☆	7	13.5	22	100
424284	B45 H8x75	☆	8	13.5	22	75
424383	B45 H8x100	☆	8	13.5	22	100
424483	B45 H8x150	☆	8	13.5	22	150
424286	B45 H10x75	☆	10	16	22	75
424384	B45 H10x100	☆	10	16	22	100
424484	B45 H10x150	☆	10	16	22	150
424385	B45 H12x100	☆	12	18	22	100
424288	B45 H13x75	☆	13	19	22	75
424386	B45 H13x100	☆	13	19	22	100
424387	B45 H14x100	☆	14	20	22	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

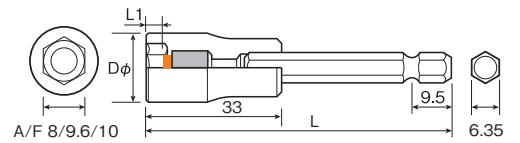
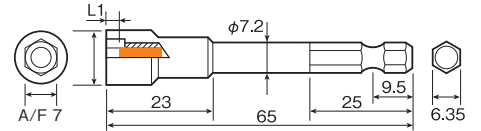
SOCKET BITS

EDP No.	Model No.	A/F	φD	ℓ1	L
482520	MB45 H7x65	7	13	2.5	65
482521	MB45 H8x65 ☆	8	13.5	3.17	65
482523	MB45 H8x75 ☆	8	13.5	3.17	75
482524	MB45 H8x100 ☆	8	13.5	3.17	100
482522	MB45 H9.6x65 ☆	9.6	16	3.96	65
482525	MB45 H10x75 ☆	10	16	3.96	75
482526	MB45 H10x100 ☆	10	16	3.96	100

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



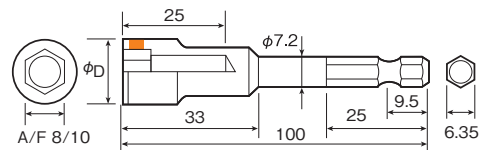
Press-Fit Magnet



EDP No.	Model No.	A/F	φD	L
482406	MB45S H8x100	8	13	100
482407	MB45S H10x100	10	16	100



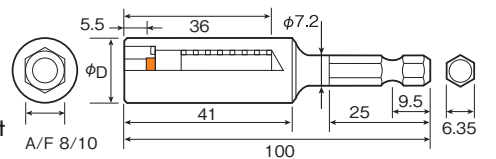
MG Side Magnet



EDP No.	Model No.	A/F	φD	L
482516	MB45D H8x100	8	13	100
482517	MB45D H10x100	10	16	100



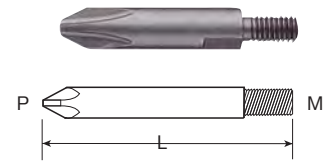
MG Sliding Magnet



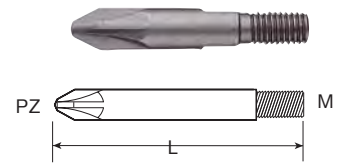


SCREW SHANK DRIVER BITS

EDP No.	Model No.	PH	M	L
489656	3491/34	1	M4	34
489657	3492/34	2	M4	34
489663	3592/34	2	M5	34



EDP No.	Mode No.	PZ	M	L
489658	3491/34PZ	1	M4	34
489659	3492/34PZ	2	M4	34
489665	3592/34PZ	2	M5	34



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

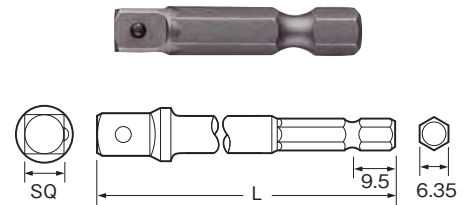


For:

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

ADAPTERS

EDP No.	Model No.	SQ	L
487380	X5001	6.35 (1/4")	35
487381	X5002	6.35 (1/4")	51
487382	X5003	6.35 (1/4")	76
487383	X5004	6.35 (1/4")	102
487384	X5005	6.35 (1/4")	152
487390	X5011	9.5 (3/8")	43
487391	X5012	9.5 (3/8")	51
487392	X5013	9.5 (3/8")	76
487393	X5014	9.5 (3/8")	102
487394	X5015	9.5 (3/8")	152



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



For:

AEG, ARO, ATLAS-COPCO, BIAX, B&D, BOSCH, BUCKEYE-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

**BIT HOLDERS &
MG.VISCATCH**

EDP No.	Model No.	D	L
486345	MBC	17	71



EDP No.	Model No.	D	L
482433	DBHM-01	11.1	60
489199	3314M/75	11.1	75
447320	3314M/150	11.1	150
487371	BH44M	11.1	100
487372	BH46M	11.1	150



EDP No.	Model No.		D	L
482431	DBH-01		11.1	60
487370	BH423M	MAGNETIC	11.1	75
487366	BH44		11.1	100
487367	BH46		11.1	150



BH423M MAGNETIC

EDP No.	Model No.		D	L
482434	DBHM-02		14.5	62
482432	DBH-02	NON MAGNETIC	14.5	62



DBH-02 NON MAGNETIC

EDP No.	Model No.	Tip Size	L
447111	MMBC JT10x49	T10	49
447112	MMBC JT10x70	T10	70
447115	MMBC JT15x49	T15	49
447116	MMBC JT15x70	T15	70
447113	MMBC JT20x49	T20	49
447101	MMBC JT20x75	T20	75
447109	MMBC JT20x150	T20	150
447117	MMBC JT25x49	T25	49
447118	MMBC JT25x70	T25	70





MG.VISCATCH

EDP No.	Model No.	Tip Size	L
447104	MMBC T10x33	T10	33
447102	MMBC T15x33	T15	33
447103	MMBC T20x33	T20	33
447110	MMBC T25x33	T25	33
447105	MMBC PH1x33	PH1	33
447106	MMBC PH2x33	PH2	33
447107	MMBC PZ1x33	PZ1	33
447108	MMBC PZ2x33	PZ2	33



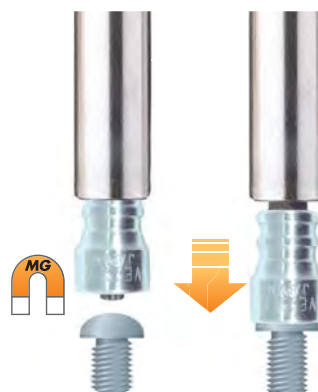
● Replacement bit for MMBC series (P24 and P25)

EDP No.	Model No.	L
447329	T10 x 33 bit only, for MMBC	33
447330	T15 x 33 bit only, for MMBC	33
447331	T20 x 33 bit only, for MMBC	33
447332	T25 x 33 bit only, for MMBC	33
447333	PH1 x 33 bit only, for MMBC	33
447334	PH2 x 33 bit only, for MMBC	33
447335	PZ1 x 33 bit only, for MMBC	33
447336	PZ2 x 33 bit only, for MMBC	33
447337	JT10 x 49 bit only, for MMBC	49
447338	JT10 x 70 bit only, for MMBC	70
447339	JT20 x 49 bit only, for MMBC	49
447340	JT20 x 75 bit only, for MMBC	75
447341	JT20 x 150 bit only, for MMBC	150



MG.VISCATCH

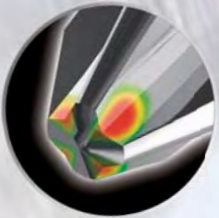
When a screw comes close to the tip,
The sleeve automatically slides forward to catch the screw.



SUPER TORSION BIT

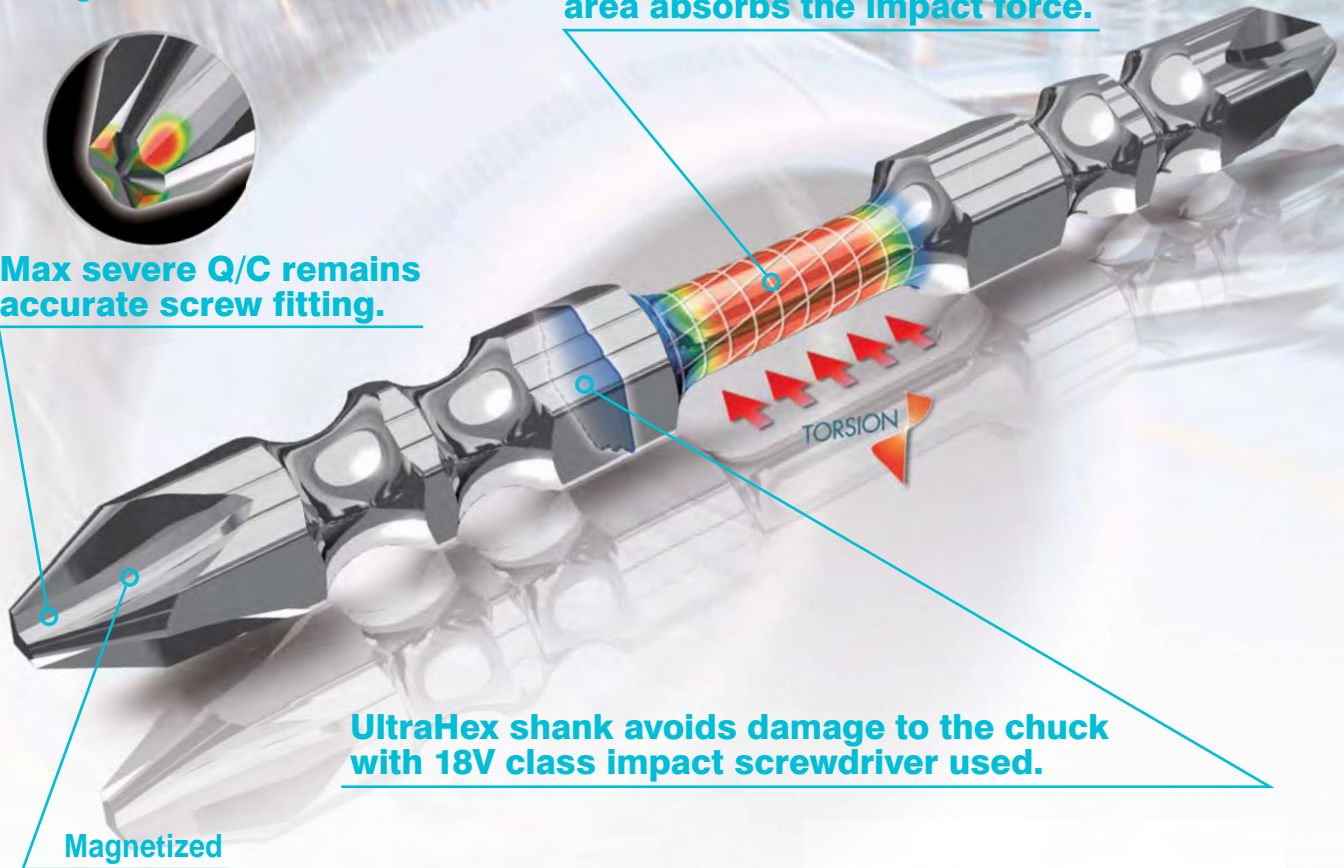
“SUPER FIT,”
“efficient impact absorption,”
“high hardness,”
to realize an ultimate bit whose tip is **“unyielding.”**

- Polished surface
- High hardness: 61HRC



Max severe Q/C remains accurate screw fitting.

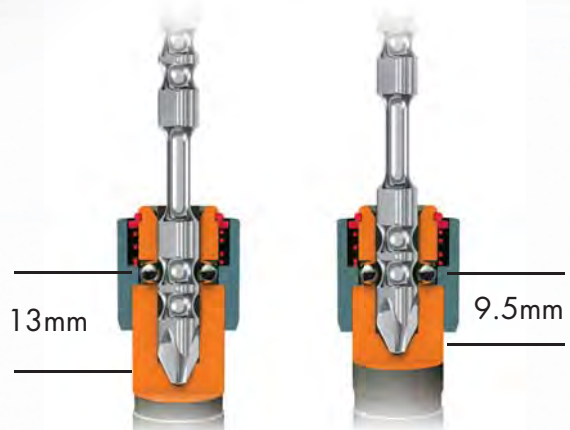
This “Torsion Bar” area absorbs the impact force.



UltraHex shank avoids damage to the chuck with 18V class impact screwdriver used.

Magnetized

Two Steelball ditches
Available for the use of two different anvil chucking



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



For:

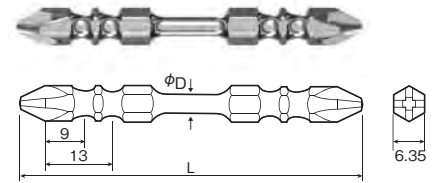
AEG, ARO, ATLAS-COPCO, BIAx, B&D, BOSCH, BUCKEY-TOOLS, CHICAGO-PNEUMATIC, CLECO, DEPLAG, DESOUTTER, GARDNER-DENVER, HIOS (FERRA TOOLS), HITACHI, INGERSOLL, IWEMA, KELLER, MAKITA, MALL, METABO, NPK, PNEUTEC, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, THOR, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI

DOUBLE END POWER BITS

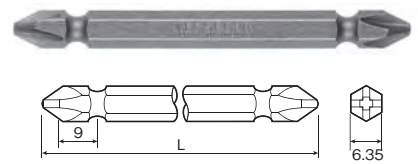
EDP No.	Model No.	PH	φD	L
486948	RS10P 2065F	2	3.17	65
486950	RS10P 2110F	2	3.17	110



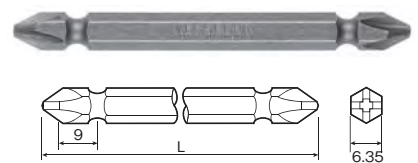
NEW



EDP No.	Model No.	PH	L
425032	B43 +1×75H	1	75
425037	B43 +2×50H	2	50
425040	B43 +2×75H	2	75
425047	B43 +2×100H	2	100
425049	B43 +2×150H	2	150
446373	B43 +2×300H	3	300
425054	B43 +3×75H	3	75
425057	B43 +3×100H	3	100
446375	B43 +3×150H	3	150



EDP No.	Model No.	PH	L
446669	MB43 +2×75H	2	75
446672	MB43 +2×100H	2	100
446673	MB43 +2×150H	2	150



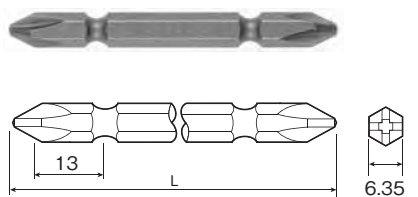
Drive: 1/4"=6.35mm HEX DRIVE



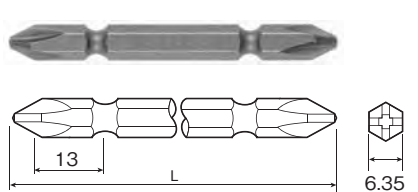
For:

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

EDP No.	Model No.	PH	L
413029	A14 +1×45H	1	45
413031	A14 +1×65H	1	65
413231	A14 +1×110H	1	110
413041	A14 +2×45H	2	45
413042	A14 +2×65H	2	65
413241	A14 +2×110H	2	110
413245	A14 +2×150H	2	150
413249	A14 +2×200H	2	200
413051	A14 +3×45H	3	45
413052	A14 +3×65H	3	65
413252	A14 +3×110H	3	110



EDP No.	Model No.	PH	L
413401	MA14 +1×45H	1	45
413402	MA14 +1×65H	1	65
413407	MA14 +1×110H	1	110
413403	MA14 +2×45H	2	45
413405	MA14 +2×65H	2	65
413408	MA14 +2×110H	2	110
413409	MA14 +2×150H	2	150



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

2013

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: + 8(0) 6 6976 7778 Fax: + 8(0) 6 6972 9441

VESSEL EUROPE

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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/>