

Products of Fastener Division



Micro/ Precision screw



Self-tapping screw



Special cold forged parts



Aluminum fastening parts



Special assembly parts



GPIN®·SPIN®



Z Bit

Patented product

Realizes significant productivity and fastening performance.

- This is a high-spec driver bit which realizes efficiency in transmitting the torque by minimizing the clearance with cross recess.
- The specially made drive point is good to minimize the stress on the point and prevent break and chipping.

For more contact

Remarks Column

NITTO SEIKO CO.,LTD.

Fastener Division

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Printed in Japan

F-857-4

Design and specifications are subject to change without notice.

ISO50317

DRIVER BITS

Solution for High Fastening Quality and Productivity

Driver Bits

Catalogue



Quality Starts at the First Turn

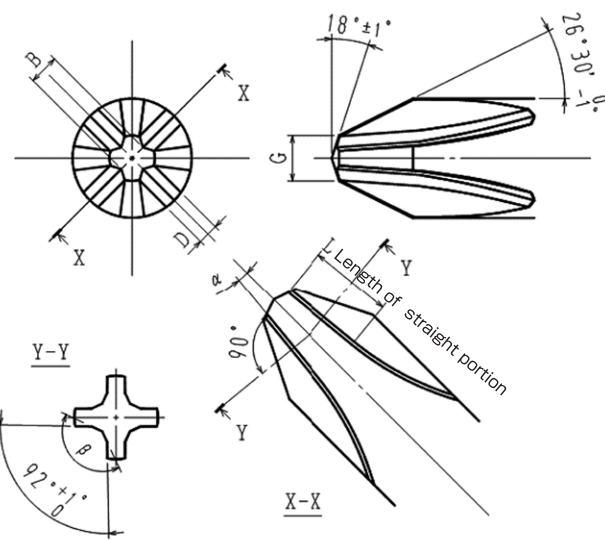
NITTO SEIKO

Support high fastening performance with Nitto Seiko's Driver Bits

We will meet your needs together with accurate, durable, and superior cost-performance product lineup.

Standard Dimension of Cross Recess Driver Bits

Standard Dimensions of Nitto Seiko's Driver Bits for Cross Recess are based on JIS B4633 TYPE H.

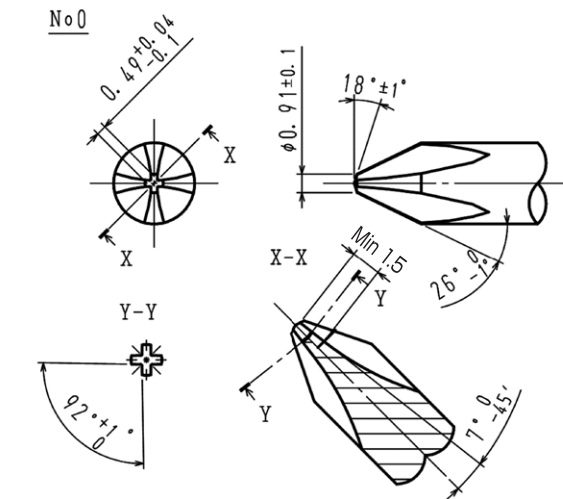


(mm)					
	Nominal Bit Size	No.1	No.2	No.3	No.4
B	Dimension	1.001	1.539	2.497	3.574
	Tolerance	+0.05 -0.14	+0.07 -0.15	+0.10 -0.17	
D	Dimension	0.513	1.102	2.098	2.738
	Tolerance	+0.20 -0.10		+0.25 -0.15	
G	Dimension	1.270	2.286	3.810	5.080
	Tolerance	±0.15		±0.20	
L	Minimum	2.5	3.7	5.2	7.6
α	Dimension	7°	5°45'	5°45'	7°
	Tolerance	0 -45'			
β	Dimension	138°	140°	146°	153°
	Tolerance	+45' 0°			

Driver Bits for No.0 Cross Recess for precision equipment

(Dimensions are based on JIS B4633 TYPE S)

We also manufacture driver bits for precision equipments. It will support efficient assembly for optical, measuring equipments and other precision products.



Hardness Grade

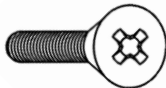
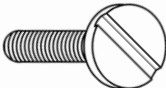
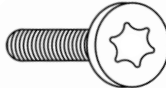
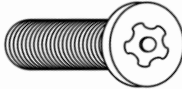
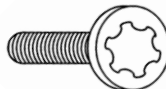
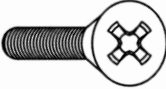
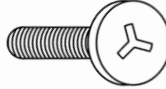
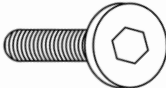
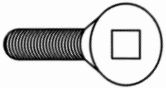
Grade	B	C	D	E
Hardness	52~54	55~57	58~60	61~63

Toughness ← Abrasion resistance →

Deformed Worn Chipped

※D grade of heat treatment will be applied unless specified.

Type of Drive Points

Name	Shape of Recess	Shape of drive point	Function																																								
CROSS RECESS No.00,0,1,2,3,4			Standard Type																																								
SLOTTED																																											
TORX®	 T-Type drive size and Dimension A (Reference) (mm)<table><tr><td></td><td>T1</td><td>T2</td><td>T3</td><td>T4</td><td>T5</td><td>T6</td><td>T8</td><td>T10</td><td>T15</td></tr><tr><td></td><td>0.89</td><td>0.99</td><td>1.19</td><td>1.35</td><td>1.47</td><td>1.75</td><td>2.39</td><td>2.82</td><td>3.35</td></tr><tr><td></td><td>T20</td><td>T25</td><td>T30</td><td>T40</td><td colspan="5"></td></tr><tr><td></td><td>3.94</td><td>4.52</td><td>5.61</td><td>6.76</td><td colspan="5"></td></tr></table>		T1	T2	T3	T4	T5	T6	T8	T10	T15		0.89	0.99	1.19	1.35	1.47	1.75	2.39	2.82	3.35		T20	T25	T30	T40							3.94	4.52	5.61	6.76							Camout prevention Recess ream prevention
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TORX PLUS® FIVE LOBE Tamper proof	 T-Type drive size and Dimension A (Reference) (mm)<table><tr><td></td><td>8IPR</td><td>10IPR</td><td>15IPR</td><td>20IPR</td><td>25IPR</td><td>30IPR</td><td>40IPR</td></tr><tr><td></td><td>2.39</td><td>2.82</td><td>3.35</td><td>3.94</td><td>4.52</td><td>5.61</td><td>6.76</td></tr></table>		8IPR	10IPR	15IPR	20IPR	25IPR	30IPR	40IPR		2.39	2.82	3.35	3.94	4.52	5.61	6.76		Tamper proof																								
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TOUGH-CROSS®																																											
TPR®			Tamper proof																																								
HEXAGON CAP			Camout prevention Recess ream prevention																																								
SQUARE																																											

TORX® and TORX PLUS® are registered trademarks of Acument Intellectual Properties LLC in the U.S.A.

Driver Bits for Automatic Screw Driving Machines (Cross Recess)

※Only bits for cross recess are displayed. Please consult Nitto Seiko sales team for other type of drive points.

Model No.	Dimension	CROSS RECESS	Length	Applicable machine type
SF30		No.1 No.2	120 135 150 165	FM503H FM510C FM5000C
SF31		No.0 No.1	108 150 120 165 135	
SF40		No.1 No.2	120 165 135 180 150	
SF41		No.1 No.2	120 165 135 180 150	
SF50		No.1 No.2 No.3	120 165 135 180 150	
SF51		No.1 No.2	120 165 135 180 150	
SM300		No.0 No.1 No.2	25	Vacuum type SR565Yθ(-Z) SR370Yθ FM513V(Z)
SM600		No.1 No.2 No.3	25	
SM30V		No.1 No.2	100	
SM32V		No.1 No.2 No.3	100	



Based on field experiences as manufacturer of screw driving machines, the tip of bit is specially designed to prevent lifting of products after fastening due to too much engagement.

部品表 [A]

機内記号	内容	手配指示(5桁)	手配	原図サイズ
EDP #	A No. or B No.	1組の員数	A A A A A	00 01 02 03 04
12125	B01	ビット	5	

EDP No. ↓

Machine No. ↓ 00000

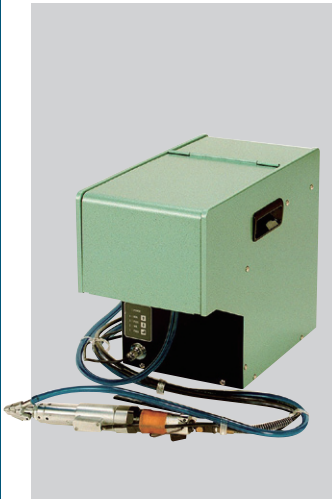
Serial number consists of ; One or two alphabetical letters and four to five digits of numbers.

NITTO SEIKO CO.,LTD.

How to order

- ※To order driver bits for automatic srew driving machines, please contact the distributor or trade firm where you have bought the machines.
- ※Please inform us the machine's serial number and EDP number (drawing No.) on the parts list.
- ※Please order by multiples of 10Pcs.

Products of Assembly Machine Division



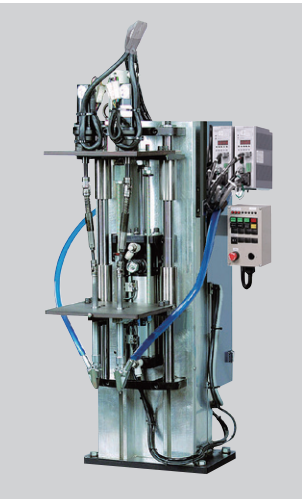
Handy automatic screw driver FM503H



Single spindle screw driver FM513V(Z)



Yθ type screw driving robot SR565Yθ(-Z)



Multi spindle screw driver FM5000