

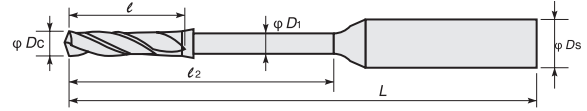
ดอกสว่าน

## Epoch Micro Step Borer S EMSBS-TH/SD



Micro-TH Coated for Steels

SD Coated for non-ferrous



Indicate the desired coating type by adding "-SD" for SD coating or "-TH" for TH coating at the end of the item code.



0 ~ -0.005



Ds=3 : 0 ~ -0.003  
3<Ds : 0 ~ -0.004

(mm)

Order Code	TH-Coated	SD-Coated	Size (mm)						
	Stock	Stock	Dc Drill Dia.	l Flute Length	l2 Under neck length	L/D	D1 Neck dia.	L Overall length	Ds Shank Dia.
EMSBS0004-0.4-TH	●	□	0.04	0.2	0.4	10	0.033	40	3
EMSBS0004-0.8-TH	□	□	0.04	0.2	0.8	20	0.033	40	3
EMSBS0004-1.2-TH	●	□	0.04	0.2	1.2	30	0.033	40	3
EMSBS0005-0.5-TH	●	□	0.05	0.25	0.5	10	0.04	40	3
EMSBS0005-1-TH	●	□	0.05	0.25	1	20	0.04	40	3
EMSBS0005-1.5-TH	●	□	0.05	0.25	1.5	30	0.04	40	3
EMSBS0005-2-TH	□	□	0.05	0.25	2	40	0.04	40	3
EMSBS0005-2.5-TH	□	□	0.05	0.25	2.5	50	0.04	40	3
EMSBS0006-0.6-TH	●	□	0.06	0.3	0.6	10	0.05	40	3
EMSBS0006-1.2-TH	□	□	0.06	0.3	1.2	20	0.05	40	3
EMSBS0006-1.8-TH	●	□	0.06	0.3	1.8	30	0.05	40	3
EMSBS0006-2.4-TH	□	□	0.06	0.3	2.4	40	0.05	40	3
EMSBS0006-3-TH	□	□	0.06	0.3	3	50	0.05	40	3
EMSBS0007-0.7-TH	●	□	0.07	0.35	0.7	10	0.06	40	3
EMSBS0007-1.4-TH	□	□	0.07	0.35	1.4	20	0.06	40	3
EMSBS0007-2.1-TH	●	□	0.07	0.35	2.1	30	0.06	40	3
EMSBS0007-2.8-TH	□	□	0.07	0.35	2.8	40	0.06	40	3
EMSBS0007-3.5-TH	□	□	0.07	0.35	3.5	50	0.06	40	3
EMSBS0008-0.8-TH	●	□	0.08	0.4	0.8	10	0.07	40	3
EMSBS0008-1.6-TH	□	□	0.08	0.4	1.6	20	0.07	40	3
EMSBS0008-2.4-TH	●	□	0.08	0.4	2.4	30	0.07	40	3
EMSBS0008-3.2-TH	□	□	0.08	0.4	3.2	40	0.07	40	3
EMSBS0008-4-TH	□	□	0.08	0.4	4	50	0.07	40	3
EMSBS0009-0.9-TH	●	□	0.09	0.45	0.9	10	0.08	40	3
EMSBS0009-1.8-TH	□	□	0.09	0.45	1.8	20	0.08	40	3
EMSBS0009-2.7-TH	●	□	0.09	0.45	2.7	30	0.08	40	3
EMSBS0009-3.6-TH	□	□	0.09	0.45	3.6	40	0.08	40	3
EMSBS0009-4.5-TH	□	□	0.09	0.45	4.5	50	0.08	40	3
EMSBS0010-1-TH	●	□	0.1	0.5	1	10	0.09	45	3
EMSBS0010-2-TH	□	□	0.1	0.5	2	20	0.09	45	3
EMSBS0010-3-TH	●	□	0.1	0.5	3	30	0.09	45	3
EMSBS0010-5-TH	●	□	0.1	0.5	5	50	0.09	45	3
EMSBS0010-7.5-TH	□	□	0.1	0.5	7.5	75	0.09	45	3
EMSBS0010-10-TH	□	□	0.1	0.5	10	100	0.09	45	3
EMSBS0015-1.5-TH	●	□	0.15	0.75	1.5	10	0.14	50	3
EMSBS0015-3-TH	□	□	0.15	0.75	3	20	0.14	50	3
EMSBS0015-4.5-TH	●	□	0.15	0.75	4.5	30	0.14	50	3
EMSBS0015-7.5-TH	●	□	0.15	0.75	7.5	50	0.14	50	3
EMSBS0015-11.25-TH	□	□	0.15	0.75	11.25	75	0.14	50	3
EMSBS0015-15-TH	□	□	0.15	0.75	15	100	0.14	50	3

● : Stocked Items. □ : Stocked by specified distributor. Contact with our sales department.

Under-neck length (l2) conforms to through-hole drilling depth

# DRILLS

ดอกสว่าน



Straight Shank

ดอกสว่านแกนตรง

**Carbide Drills**  
ดอกสว่านคาร์ไบด์

**HSS Drills**  
ดอกสว่านไฮสปีด

Stub / Standard  
ตัวสั้น / มาตรฐาน

Long  
ตัวยาว

**Micro Drill**  
ดอกสว่านไมโคร

Z Plunging

Step Borer

Order Code	TH-Coated	SD-Coated	Size (mm)						
	Stock	Stock	Dc Drill Dia.	ℓ Flute Length	ℓ <sub>2</sub> Under neck length	L/D	D1 Neck dia.	L Overall length	Ds Shank Dia.
EMSBS0020-2	●	□	0.2	1	2	10	0.19	45	3
EMSBS0020-4	□	□	0.2	1	4	20	0.19	45	3
EMSBS0020-6	●	□	0.2	1	6	30	0.19	45	3
EMSBS0020-10	●	□	0.2	1	10	50	0.19	45	3
EMSBS0020-15	□	□	0.2	1	15	75	0.19	55	3
EMSBS0020-20	□	□	0.2	1	20	100	0.19	55	3
EMSBS0030-3	●	□	0.3	1.5	3	10	0.28	45	3
EMSBS0030-6	□	□	0.3	1.5	6	20	0.28	45	3
EMSBS0030-9	●	□	0.3	1.5	9	30	0.28	45	3
EMSBS0030-15	●	□	0.3	1.5	15	50	0.28	55	3
EMSBS0030-22.5	□	□	0.3	1.5	22.5	75	0.28	65	3
EMSBS0030-30	□	□	0.3	1.5	30	100	0.28	65	3
EMSBS0040-4	●	□	0.4	2	4	10	0.38	50	3
EMSBS0040-8	□	□	0.4	2	8	20	0.38	50	3
EMSBS0040-12	●	□	0.4	2	12	30	0.38	50	3
EMSBS0040-20	●	□	0.4	2	20	50	0.38	60	3
EMSBS0040-30	□	□	0.4	2	30	75	0.38	75	3
EMSBS0040-40	□	□	0.4	2	40	100	0.38	75	3
EMSBS0050-5	●	□	0.5	2.5	5	10	0.48	50	3
EMSBS0050-10	□	□	0.5	2.5	10	20	0.48	50	3
EMSBS0050-15	●	□	0.5	2.5	15	30	0.48	50	3
EMSBS0050-25	●	□	0.5	2.5	25	50	0.48	65	3
EMSBS0050-37.5	□	□	0.5	2.5	37.5	75	0.48	85	3
EMSBS0050-50	□	□	0.5	2.5	50	100	0.48	85	3
EMSBS0060-6	●	□	0.6	3	6	10	0.57	55	3
EMSBS0060-12	□	□	0.6	3	12	20	0.57	55	3
EMSBS0060-18	●	□	0.6	3	18	30	0.57	55	3
EMSBS0060-30	●	□	0.6	3	30	50	0.57	75	3
EMSBS0060-45	□	□	0.6	3	45	75	0.57	95	3
EMSBS0060-60	□	□	0.6	3	60	100	0.57	95	3
EMSBS0070-7	●	□	0.7	3.5	7	10	0.67	60	4
EMSBS0070-14	□	□	0.7	3.5	14	20	0.67	60	4
EMSBS0070-21	●	□	0.7	3.5	21	30	0.67	60	4
EMSBS0070-35	●	□	0.7	3.5	35	50	0.67	80	4
EMSBS0070-52.5	□	□	0.7	3.5	52.5	75	0.67	105	4
EMSBS0070-70	□	□	0.7	3.5	70	100	0.67	105	4
EMSBS0080-8	●	□	0.8	4	8	10	0.76	60	4
EMSBS0080-16	□	□	0.8	4	16	20	0.76	60	4
EMSBS0080-24	●	□	0.8	4	24	30	0.76	60	4
EMSBS0080-40	●	□	0.8	4	40	50	0.76	85	4
EMSBS0080-60	□	□	0.8	4	60	75	0.76	115	4
EMSBS0080-80	□	□	0.8	4	80	100	0.76	115	4
EMSBS0090-9	●	□	0.9	4.5	9	10	0.85	65	4
EMSBS0090-18	□	□	0.9	4.5	18	20	0.85	65	4
EMSBS0090-27	●	□	0.9	4.5	27	30	0.85	65	4
EMSBS0090-45	●	□	0.9	4.5	45	50	0.85	90	4
EMSBS0090-67.5	□	□	0.9	4.5	67.5	75	0.85	125	4
EMSBS0090-90	□	□	0.9	4.5	90	100	0.85	125	4
EMSBS0100-10	●	□	1	5	10	10	0.95	70	4
EMSBS0100-20	□	□	1	5	20	20	0.95	70	4
EMSBS0100-30	●	□	1	5	30	30	0.95	70	4
EMSBS0100-50	●	□	1	5	50	50	0.95	100	4
EMSBS0100-75	□	□	1	5	75	75	0.95	135	4
EMSBS0100-100	□	□	1	5	100	100	0.95	135	4

● : Stocked Items.    □ : Stocked by specified distributor. Contact with our sales department.    Under-neck length (ℓ<sub>2</sub>) conforms to through-hole drilling depth