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AFFORDABLE TOOLING



CARBIFORCE

CARBIFORCE

Higher! Productivity Faster! Cutting Speed Longer! Tool Life



Carbiforce Private Limited. is a national high-tech enterprise that designs, develops and produces high-end hole processing tools – U drills, cutters and deep hole drills.

"Carbiforce" was founded in 2019. In 2020, the company invested nearly 200 million to establish a digital intelligent U drill production base, covering an area of more than 50 acres, a construction area of 50,000 square meters, equipped with 36 automatic production lines, and an annual output of 5 million U drills, 400,000 sets of boring tools and gun drills.

The company has a professional R&D center and testing center, and is a "specialized, refined and innovative" small giant enterprise. The products are mainly exported to more than 30 countries and regions including Europe, the Middle East, and the Americas. The company has nearly 100 patents, participates in the formulation of multiple national group standards and industry standards, has 2 group standards, and has passed ISO9001 quality management system certification.

Our goal is to become a global developer and leader of high-end hole processing tools.

ABOUT US

Carbiforce is a high-tech engineering group specialized in drilling and hard material technologies. It was established in 2019, and covers an area of 80,000 square meters. And since then we fully dedicated to develop and produce boring tools, rapid drilling tools.

We are continuously improving and enlarging our product range for customers. We have built our market through a distribution network covering Europe, Japan, Korea, Middle-East, Russia, India and more than 30 countries and areas.

In 2020, we invested 25 million USD to build the first phase of the project—a digital smart U drill production base, to start the project with an annual output of 5 million U drills and 400,000 sets of boring head. It has more than 300 machining centers.

For product development we set up a lab for Inspection according to the world standard such as German HAIMER Balancing Machine, Universal Tooling. Microscope, CMM, direct-reading spectrometer, Metallographic analyzer and so on. Today, all our equipment and testing means have reached the international advanced level.

Your vision, our innovation

Boring head series: 14-750 high-precision finish boring head, rough boring head, combined boring head;

Shallow hole drill series: $\phi 8.5-100$ SP/SO/SC, WC/WD/PDL Deep hole drill series: 6D 7D 80 90 100 with centering adjustable drill

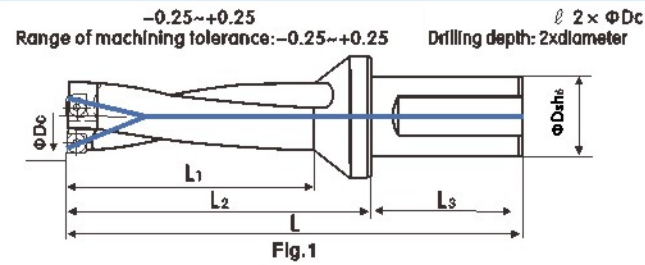
To fully adapt to the needs of your market, we will find the optimal solution for the demands. If our presentation of the standard tools in this catalogue does not fit your needs, please contact us to design and making special tools for your customized solution.

Our mission: To be the high-tech engineering group specialised in Drilling and Boring.

**TDR (φ 8.5 - 50)
INDEXABLE DRILLS
WITH SP INSERTS**



TDR-2 X D (φ 8.5 – 50) Indexable Drills with SP Inserts
Holder diameter 2D: φ13.0 ~ 60.0mm



φDc	φDs	Specification/Item	Store	L	ℓ ₁	ℓ ₂	ℓ ₃	Applicable Insert	kg
8.5		KSD085-2D-S20-SP03	●	83.5	33.5	18		SP..030202	0.2
9		KSD090-2D-S20-SP03	●	84.5	34.5	19			0.2
9.5		KSD095-2D-S20-SP03	●	85.5	35.5	20			0.2
10		KSD100-2D-S20-SP04	●	85.5	35.5	22		SP..04T102	0.2
10.5	20	KSD105-2D-S20-SP04	●	86.5	36.5	22			0.2
11		KSD110-2D-S20-SP04	●	87.5	37.5	23			0.2
11.5		KSD115-2D-S20-SP04	●	88	38	24		SP..050204	0.2
12		KSD120-2D-S20-SP04	●	90	40	25			0.2
12.5		KSD125-2D-S20-SP04	●	93	43	27			0.2
13		KSD130-2D-S20-SP05	●	88	29	44		SP..060204	0.2
13.5		KSD135-2D-S20-SP05	●	89	30	45			0.2
14		KSD140-2D-S20-SP05	●	90	31	46			0.2
14.5	20	KSD145-2D-S20-SP05	●	91	32	47		SP..07T308	0.2
15	/	KSD150-2D-S20-SP05	●	92	33	48			0.2
15.5	25	KSD155-2D-S20-SP05	●	93	34	49			0.2
16		KSD160-2D-S20-SP06	●	94	35	50		SP..090408	0.2
16.5		KSD165-2D-S20-SP06	●	95	36	51			0.2
17		KSD170-2D-S20-SP06	●	96	37	52			0.2
17.5		KSD175-2D-S25-SP06	●	109	38	53		SP..07T308	0.2
18		KSD180-2D-S25-SP06	●	110	39	54			0.3
18.5		KSD185-2D-S25-SP06	●	111	40	55			0.3
19		KSD190-2D-S25-SP06	●	112	41	56		SP..090408	0.3
19.5		KSD195-2D-S25-SP06	●	113	42	57			0.3
20		KSD200-2D-S25-SP06	●	114	43	58			0.3
20.5		KSD205-2D-S25-SP06	●	115	44	59		SP..07T308	0.3
21	25	KSD210-2D-S25-SP06	●	116	45	60			0.3
21.5		KSD215-2D-S25-SP06	●	117	46	61			0.3
22		KSD220-2D-S25-SP07	●	118	47	62		SP..07T308	0.4
22.5		KSD225-2D-S25-SP07	●	119	48	63			0.4
23		KSD230-2D-S25-SP07	●	123	49	67			0.4
23.5		KSD235-2D-S25-SP07	●	124	50	68		SP..090408	0.4
24		KSD240-2D-S25-SP07	●	125	51	69			0.4
24.5		KSD245-2D-S25-SP07	●	126	52	70			0.4
25		KSD250-2D-S25-SP07	●	127	53	71		SP..090408	0.4
25.5		KSD255-2D-S32-SP07	●	134	54	74			0.6
26		KSD260-2D-S32-SP07	●	135	55	75			0.6
26.5		KSD265-2D-S32-SP07	●	136	56	76		SP..07T308	0.6
27		KSD270-2D-S32-SP07	●	137	57	77			0.6
27.5		KSD275-2D-S32-SP07	●	138	58	78			0.6
28	32	KSD280-2D-S32-SP07/09	●	139	59	79		SP..090408	0.6
28.5		KSD285-2D-S32-SP07/09	●	140	60	80			0.6
29		KSD290-2D-S32-SP09	●	143	62	83			0.7
29.5		KSD295-2D-S32-SP09	●	144	63	84		SP..090408	0.7
30		KSD300-2D-S32-SP09	●	148	64	88			0.7
30.5		KSD305-2D-S32-SP09	●	149	65	89			0.7
31		KSD310-2D-S32-SP09	●	150	66	90			0.7

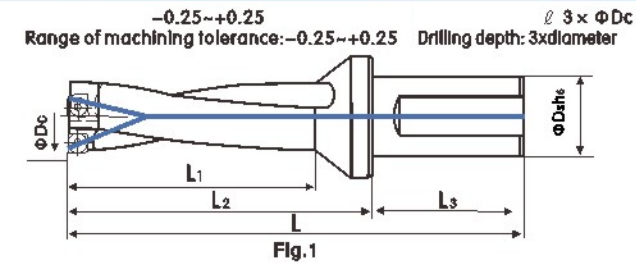
φDc	φDs	Specification/Item	Store	L	ℓ ₁	ℓ ₂	ℓ ₃	Applicable Insert	kg
31.5		KSD315-2D-S32-SP09	●	151	67	91		SP..090408	0.7
32		KSD320-2D-S32-SP09	●	152	68	92			0.8
32.5		KSD325-2D-S32-SP09	●	153	69	93			0.8
33		KSD330-2D-S32-SP09	●	154	70	94		SP..110408	0.8
33.5		KSD335-2D-S32-SP09	●	155	71	95			0.8
34		KSD340-2D-S32-SP09/11	●	156	72	96			0.8
34.5		KSD345-2D-S32-SP09/11	●	157	73	97		SP..110408	0.8
35		KSD350-2D-S32-SP11	●	158	74	98			0.8
35.5	32	KSD355-2D-S32-SP11	●	159	75	99	60		0.8
36		KSD360-2D-S32-SP11	●	160	76	100		SP..110408	0.9
36.5		KSD365-2D-S32-SP11	●	161	77	101			0.9
37		KSD370-2D-S32-SP11	●	169	79	109			0.9
37.5		KSD375-2D-S32-SP11	●	170	80	110		SP..110408	0.9
38		KSD380-2D-S32-SP11	●	171	81	111			0.9
38.5		KSD385-2D-S32-SP11	●	172	82	112			0.9
39		KSD390-2D-S32-SP11	●	173	83	113		SP..110408	1
39.5		KSD395-2D-S32-SP11	●	174	84	114			1.1
40	40	KSD400-2D-S40-SP11	●	185	85	115	70		1.1

Spare Parts

Screw	Wrench	Applicable Drill
M1.8*3.6	T6	KSD085-2D-S20-SP03-KSD095-2D-S20-SP03
M1.8*4	T6	KSD100-2D-S20-SP04-KSD125-2D-S20-SP04
M2*4	T6	KSD130-2D-S20-SP05-KSD145-2D-S20-SP05
M2*5	T7	KSD150-2D-S20-SP05-KSD155-2D-S20-SP05
M2.2*5	T7	KSD160-2D-S20-SP06-KSD215-2D-S25-SP06
M2.5*6	T8	KSD220-2D-S25-SP07-KSD285-2D-S32-SP07
M3.5*8.5	T15	KSD280-2D-S32-SP07-KSD345-2D-S32-SP09
M4*10	T20	KSD340-2D-S32-SP11-KSD400-2D-S40-SP11

● Mark:Standard stock item,
No mark:Made to order item.

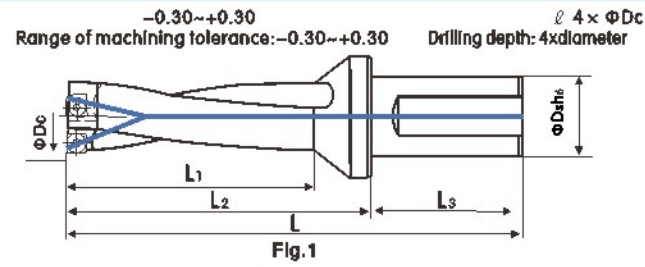
TDR-3 X D (φ 8.5 – 50) Indexable Drills with SP Inserts
Holder diameter 3D: φ13.0 ~ 60.0mm



φDc	φDs	Specification/Item	Store	L	ℓ ₁	ℓ ₂	ℓ ₃	Applicable Insert	kg
8.5		KSD085-3D-S20-SP03	●	92.5	42.5	27		SP..030202	0.2
9		KSD090-3D-S20-SP03	●	93.5	43.5	28			0.2
9.5		KSD095-3D-S20-SP03	●	94.5	44.5	29			0.2
10		KSD100-3D-S20-SP04	●	97	47	31		SP..04T102	0.2
10.5	20	KSD105-3D-S20-SP04	●	97.5	47.5	33			0.2
11		KSD110-3D-S20-SP04	●	98.5	48.5	34			0.2
11.5		KSD115-3D-S20-SP04	●	100	50	36		SP..050204	0.2
12		KSD120-3D-S20-SP04	●	102	52	37			0.2
12.5		KSD125-3D-S20-SP04	●	105	55	39			0.2
13		KSD130-3D-S20-SP05	●	101	42	57		SP..060204	0.2
13.5		KSD135-3D-S20-SP05	●	103	44	59			0.2
14		KSD140-3D-S20-SP05	●	104	45	60			0.2
14.5	20	KSD145-3D-S20-SP05	●	106	47	62		SP..07T308	0.2
15	/	KSD150-3D-S20-SP05	●	107	48	63			0.2
15.5	25	KSD155-3D-S20-SP05	●	109	50	65			0.2
16		KSD160-3D-S20-SP06	●	110	51	66		SP..090408	0.2
16.5		KSD165-3D-S25-SP06	●	112	53	68			0.2
17		KSD170-3D-S25-SP06	●	113	54	69			0.2
17.5		KSD175-3D-S25-SP06	●	127	56	71		SP..060204	0.2
18		KSD180-3D-S25-SP06	●	128	57	72			0.3
18.5		KSD185-3D-S25-SP06	●	130	59	74			0.3
19		KSD190-3D-S25-SP06	●	131	60	75		SP..07T308	0.3
19.5		KSD195-3D-S25-SP06	●	133	62	77			0.3
20		KSD200-3D-S25-SP06	●	134	63	78			0.3
20.5		KSD205-3D-S25-SP06	●	136	65	80		SP..07T308	0.3
21	25	KSD210-3D-S25-SP06	●	137	66	81			0.3
21.5		KSD215-3D-S25-SP06	●	139	68	83			0.3
22		KSD220-3D-S25-SP07	●	140	69	84		SP..07T308	0.4
22.5		KSD225-3D-S25-SP07	●	142	71	86			0.4
23		KSD230-3D-S25-SP07	●	146	72	90			0.4
23.5		KSD235-3D-S25-SP07	●	148	74	92		SP..090408	0.4
24		KSD240-3D-S25-SP07	●	149	75	93			0.4
24.5		KSD245-3D-S25-SP07	●	151	77	95			0.4
25		KSD250-3D-S25-SP07	●	152	78	96		SP..07T308	0.4
25.5		KSD255-3D-S32-SP07	●	160	80	100			0.6
26		KSD260-3D-S32-SP07	●	161	81	101			0.6
26.5		KSD265-3D-S32-SP07	●	163	83	103		SP..07T308	0.6
27		KSD270-3D-S32-SP07	●	164	84	104			0.6
27.5		KSD275-3D-S32-SP07	●	166	86	106			0.6
28	32	KSD280-3D-S32-SP07/09	●	167	87	107		SP..090408	0.6
28.5		KSD285-3D-S32-SP07/09	●	169	89	109			0.6
29		KSD290-3D-S32-SP09	●	172	91	112			0.7
29.5		KSD295-3D-S32-SP09	●	174	93	114		SP..090408	0.7
30		KSD300-3D-S32-SP09	●	178	94	118			0.7
30.5		KSD305-3D-S32-SP09	●	180	96	120			0.7
31		KSD310-3D-S32-SP09	●	181	97	121			0.7

ΦDc	ΦDs	Specification/Item	Store	L	ℓ ₁	ℓ ₂	ℓ ₃	Applicable insert	kg
31.5		KSD315-3D-S32-SP09	●	183	99	123		SP..090408	0.7
32		KSD320-3D-S32-SP09	●	184	100	124			0.8
32.5		KSD325-3D-S32-SP09	●	186	102	126			0.8
33		KSD330-3D-S32-SP09	●	187	103	127		SP..090408	0.8
33.5		KSD335-3D-S32-SP09	●	189	105	129			0.8
34		KSD340-3D-S32-SP09/11	●	190	106	130			0.8
34.5		KSD345-3D-S32-SP09/11	●	192	108	132		SP..110408	0.8
35		KSD350-3D-S32-SP11	●	193	109	133			0.8
35.5	32	KSD355-3D-S32-SP11	●	195	111	135	60		0.8
36		KSD360-3D-S32-SP11	●	196	112	136		SP..110408	0.9
36.5		KSD365-3D-S32-SP11	●	198	114	138			0.9
37		KSD370-3D-S32-SP11	●	206	116	146			0.9
37.5		KSD375-3D-S32-SP11	●	208	118	148		SP..110408	0.9
38		KSD380-3D-S32-SP11	●	209	119	149			0.9
38.5		KSD385-3D-S32-SP11	●	211	121	151			0.9
39		KSD390-3D-S32-SP11	●	212	122	152		1.0	
39.5		KSD395-3D-S32-SP11	●	214	124	154		1.1	
40	40	KSD400-3D-S40-SP11	●	225	125	155	70		1.1

TDR-4 X D (φ 8.5 - 50) Indexable Drills with SP Inserts
Holder diameter 4D: φ13.0 ~ 60.0mm



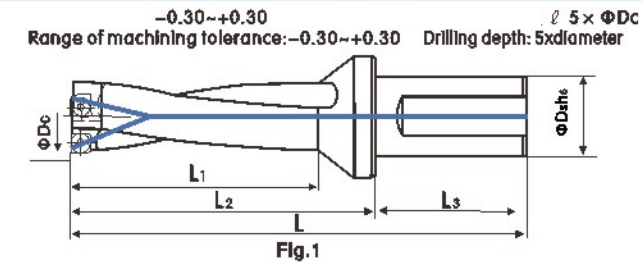
ΦDc	ΦDs	Specification/Item	Store	L	ℓ ₁	ℓ ₂	ℓ ₃	Applicable Insert	kg
11.5		KSD115-4D-S20-SP04	●	111	81	47		SP..04T102	0.2
12	20	KSD120-4D-S20-SP04	●	115	85	50			0.2
12.5		KSD125-4D-S20-SP04	●	117	87	52			0.2
13		KSD130-4D-S20-SP05	●	114	86	70		SP..050204	0.2
13.5		KSD135-4D-S20-SP05	●	116	87	72			0.2
14		KSD140-4D-S20-SP05	●	118	89	74			0.2
14.5	20	KSD145-4D-S20-SP05	●	120	91	76			0.2
15	/	KSD150-4D-S20-SP05	●	122	93	78			0.2
15.5	25	KSD155-4D-S20-SP05	●	124	95	80		SP..060204	0.2
16		KSD160-4D-S20-SP06	●	126	97	82			0.2
16.5		KSD165-4D-S25-SP06	●	128	99	84			0.2
17		KSD170-4D-S25-SP06	●	130	101	86			0.2
17.5		KSD175-4D-S25-SP06	●	144	73	88			0.2
18		KSD180-4D-S25-SP06	●	146	75	90		SP..060204	0.3
18.5		KSD185-4D-S25-SP06	●	148	77	92			0.3
19		KSD190-4D-S25-SP06	●	150	79	94			0.3
19.5		KSD195-4D-S25-SP06	●	152	81	96			0.3
20		KSD200-4D-S25-SP06	●	154	83	98			0.3
20.5		KSD205-4D-S25-SP06	●	156	85	100		SP..07T308	0.3
21		KSD210-4D-S25-SP06	●	158	87	102			0.3
21.5	25	KSD215-4D-S25-SP06	●	160	89	104	56		0.3
22		KSD220-4D-S25-SP07	●	162	91	106			0.4
22.5		KSD225-4D-S25-SP07	●	164	93	108			0.4
23		KSD230-4D-S25-SP07	●	169	95	113		SP..07T308	0.4
23.5		KSD235-4D-S25-SP07	●	171	97	115			0.4
24		KSD240-4D-S25-SP07	●	173	99	117			0.4
24.5		KSD245-4D-S25-SP07	●	175	101	119			0.4
25		KSD250-4D-S25-SP07	●	177	103	121			0.4
25.5		KSD255-4D-S32-SP07	●	186	106	126		SP..07T308	0.6
26		KSD260-4D-S32-SP07	●	187	107	127			0.6
26.5		KSD265-4D-S32-SP07	●	189	109	129			0.6
27		KSD270-4D-S32-SP07	●	191	111	131			0.6
27.5		KSD275-4D-S32-SP07	●	193	113	133			0.6
28		KSD280-4D-S32-SP07/09	●	195	115	135		SP..07T308	0.6
28.5		KSD285-4D-S32-SP07/09	●	197	117	137			0.6
29		KSD290-4D-S32-SP08	●	201	120	141			0.7
29.5		KSD295-4D-S32-SP08	●	203	122	143			0.7
30	32	KSD300-4D-S32-SP08	●	208	124	148	60		0.7
30.5		KSD305-4D-S32-SP08	●	210	126	150		SP..090408	0.7
31		KSD310-4D-S32-SP09	●	212	128	152			0.7
31.5		KSD315-4D-S32-SP09	●	214	130	154			0.7
32		KSD320-4D-S32-SP09	●	216	132	156			0.8
32.5		KSD325-4D-S32-SP09	●	218	134	158			0.8
33		KSD330-4D-S32-SP09	●	220	136	160		SP..090408	0.8
33.5		KSD335-4D-S32-SP09	●	222	138	162			0.8

Spare Parts

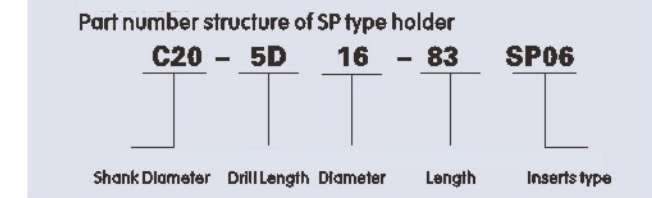
Screw	Wrench	Applicable Drill
M1.8*4	T6	KSD115-4D-S20-SP04-KSD125-4D-S20-SP04
M2*4	T6	KSD130-4D-S20-SP05-KSD145-4D-S20-SP05
M2*5	T7	KSD150-4D-S20-SP05-KSD155-4D-S20-SP05
M2.2*5	T7	KSD160-4D-S20-SP06-KSD215-4D-S25-SP06
M2.5*6	T8	KSD220-4D-S25-SP07-KSD285-4D-S32-SP07
M3.5*8.5	T15	KSD280-4D-S32-SP07-KSD345-4D-S32-SP09
M4*10	T20	KSD340-4D-S32-SP11-KSD400-4D-S40-SP11

● Mark:Standard stock item,
No mark:Made to order item.

TDR-5 X D (φ 8.5 - 50) Indexable Drills with SP Inserts
Holder diameter 5D: φ13.0 ~ 60.0mm



ΦDc	ΦDs	Specification/Item	Store	L	ℓ ₁	ℓ ₂	ℓ ₃	Applicable Insert	kg
15.5		KSD155-5D-S20-SP06	●	140	80	95		SP..04T102	0.3
16	20	KSD160-5D-S20-SP06	●	142	83	98			0.4
16.5		KSD165-5D-S25-SP06	●	145	86	101			0.4
17	25	KSD170-5D-S25-SP06	●	147	88	103		SP..060204	0.4
17.5		KSD175-5D-S25-SP06	●	162	91	106			0.4
18		KSD180-5D-S25-SP06	●	164	93	108			0.5
18.5		KSD185-5D-S25-SP06	●	167	96	111			0.5
19		KSD190-5D-S25-SP06	●	169	98	113			0.5
19.5		KSD195-5D-S25-SP06	●	172	101	116		SP..060204	0.5
20		KSD200-5D-S25-SP06	●	174	103	118			0.5
20.5		KSD205-5D-S25-SP06	●	177	106	121			0.5
21	25	KSD210-5D-S25-SP06	●	179	108	123	58		0.5
21.5		KSD215-5D-S25-SP06	●	182	111	126			0.5
22		KSD220-5D-S25-SP07	●	184	113	128		SP..07T308	0.5
22.5		KSD225-5D-S25-SP07	●	187	116	131			0.5
23		KSD230-5D-S25-SP07	●	192	118	136			0.6
23.5		KSD235-5D-S25-SP07	●	195	121	139			0.6
24		KSD240-5D-S25-SP07	●	197	123	141			0.6
24.5		KSD245-5D-S25-SP07	●	200	126	144		SP..07T308	0.8
25		KSD250-5D-S25-SP07	●	202	128	146			0.8
25.5		KSD255-5D-S32-SP07	●	213	131	153			0.8
26		KSD260-5D-S32-SP07	●	216	133	156			0.8
26.5		KSD265-5D-S32-SP07	●	217	136	157		SP..07T308	0.8
27		KSD270-5D-S32-SP07	●	218	138	158			0.8
27.5		KSD275-5D-S32-SP07	●	221	141	161			0.8
28		KSD280-5D-S32-SP07/09	●	223	143	163			0.9
28.5		KSD285-5D-S32-SP07/09	●	226	146	166			0.9
29		KSD290-5D-S32-SP08	●	230	149	170		SP..090408	0.9
29.5		KSD295-5D-S32-SP08	●	233	151	173			0.9
30		KSD300-5D-S32-SP08	●	238	154	178			1
30.5		KSD305-5D-S32-SP08	●	241	157	181			1
31	32	KSD310-5D-S32-SP09	●	243	159	183	60		1
31.5		KSD315-5D-S32-SP09	●	245	162	185		SP..090408	1
32		KSD320-5D-S32-SP09	●	248	164	188			1.1
32.5		KSD325-5D-S32-SP09	●	251	167	191			1.1
33		KSD330-5D-S32-SP09	●	253	169	193			1.1
33.5		KSD335-5D-S32-SP09	●	255	172	195			1.1
34		KSD340-5D-S32-SP09/11	●	258	174	198		SP..090408	1.2
34.5		KSD345-5D-S32-SP09/11	●	261	177	201			1.2
35		KSD350-5D-S32-SP11	●	263	179	203			1.2
35.5		KSD355-5D-S32-SP11	●	265	182	205			1.2
36		KSD360-5D-S32-SP11	●	268	184	208			1.3
36.5		KSD365-5D-S32-SP11	●	271	187	211		SP..110408	1.3
37		KSD370-5D-S32-SP11	●	280	190	220			1.3
37.5		KSD375-5D-S32-SP11	●	283	193	223			1.3



Spare Parts

Screw	Wrench	Applicable Drill
M2*5	T7	KSD155-4D-S20-SP05-KSD155-4D-S20-SP05
M2.2*5	T7	KSD160-4D-S20-SP06-KSD215-4D-S25-SP06
M2.5*6	T8	KSD220-4D-S25-SP07-KSD285-4D-S32-SP07
M3.5*8.5	T15	KSD280-4D-S32-SP07-KSD345-4D-S32-SP09
M4*10	T20	KSD340-4D-S32-SP11-KSD400-4D-S40-SP11

● Mark:Standard stock item,
No mark:Made to order item.