

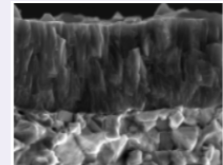
DRILLING

- Drilling Overview
- Drill Holder
- Drilling Inserts (SPMX)
- Drilling Inserts (WCMX)



Drilling Overview

Drilling Grades



Drilling Grades		P Steel				M Stainless Steel				K Cast Iron			
		P05	P15	P25	P35	M05	M15	M25	M35	K05	K15	K25	K35
PVD	YG602			602			602					602	

YG602 P20 - P35 M20 - M40 K20 - K40 S15 - S25	PVD - TiAlN 	Universal grade for General Drilling Application <ul style="list-style-type: none"> Ultra Dense PVD Coating with optimal thermal resistance & strength Sub-Micron substrate designed for demanding application
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Universal Drilling Inserts

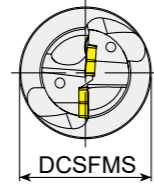
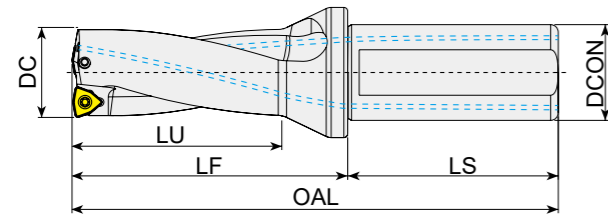
	4 Corner	SPMX Series	SPMX	05, 06, 07, 09, 11, 14
	ISO 3 Corner	WCMX Series	WCMX	04, 05, 06, 08

Drilling Chipbreakers

P	M	K			
	M		-ST		<ul style="list-style-type: none"> Sharp Geometry Sticky Material, Stainless Steel
P	M	K	General Inserts (No Description)		<ul style="list-style-type: none"> First Choice for General Application

Drilling - Drill Holder

WCMX 040208 Drill (DC 20~23.5)



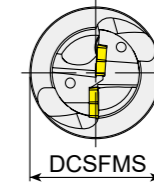
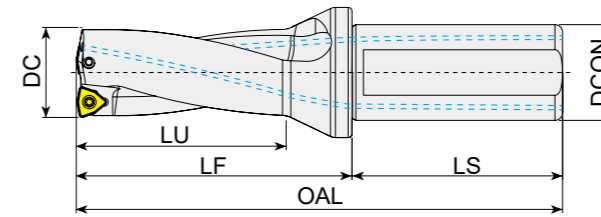
Screw	Wrench
Y3008-M2.5x6	Y80-T08

△: p.147 unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
WCMX 040208	20	40	YGWC2 - 20S25F040 - 04	0257	62	118	25	34	56
		60	YGWC3 - 20S25F060 - 04	0300	82	138			
		80	YGWC4 - 20S25F080 - 04	0343	102	158			
	20.5	40	YGWC2 - 20.5S25F040 - 04	0726	62	118			
		60	YGWC3 - 20.5S25F060 - 04	0727	82	138			
	21	42	YGWC2 - 21S25F042 - 04	0258	64	120			
		63	YGWC3 - 21S25F063 - 04	0301	85	141			
		84	YGWC4 - 21S25F084 - 04	0344	106	162			
	21.5	42	YGWC2 - 21.5S25F042 - 04	0728	64	120			
		63	YGWC3 - 21.5S25F063 - 04	0729	85	141			
	22	44	YGWC2 - 22S25F044 - 04	0259	66	122			
		66	YGWC3 - 22S25F066 - 04	0302	88	144			
88		YGWC4 - 22S25F088 - 04	0345	110	166				
22.5	44	YGWC2 - 22.5S25F044 - 04	0730	66	122				
	66	YGWC3 - 22.5S25F066 - 04	0731	88	144				
	88	YGWC4 - 22.5S25F088 - 04	0732	110	166				
23	46	YGWC2 - 23S25F046 - 04	0260	68	124				
	69	YGWC3 - 23S25F069 - 04	0303	91	147				
	92	YGWC4 - 23S25F092 - 04	0346	114	170				
23.5	46	YGWC2 - 23.5S25F046 - 04	0733	68	124				
	69	YGWC3 - 23.5S25F069 - 04	0734	91	147				

Drilling - Drill Holder

WCMX 050308 Drill (DC 24~29.5)

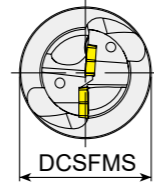
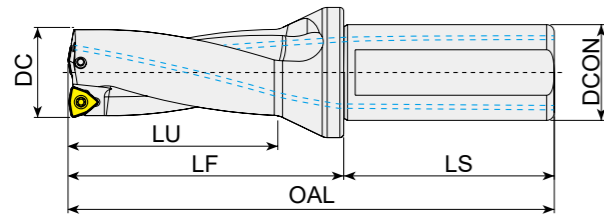


Screw	Wrench
Y3008-M3x8	Y80-T08

△: p.147 unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
WCMX 050308	24	48	YGWC2 - 24S25F048 - 05	0261	70	126	25	34	56
		72	YGWC3 - 24S25F072 - 05	0304	94	150			
		96	YGWC4 - 24S25F096 - 05	0347	118	174			
	24.5	48	YGWC2 - 24.5S25F048 - 05	0735	70	126			
		72	YGWC3 - 24.5S25F072 - 05	0736	94	150			
		50	YGWC2 - 25S25F050 - 05	0262	72	128			
	25	75	YGWC3 - 25S25F075 - 05	0305	97	153			
		100	YGWC4 - 25S25F100 - 05	0251	122	178			
		50	YGWC2 - 25.5S25F050 - 05	0737	72	128			
	25.5	75	YGWC3 - 25.5S25F075 - 05	0738	97	153			
		52	YGWC2 - 26S25F052 - 05	0263	74	130			
		78	YGWC3 - 26S25F078 - 05	0306	100	156			
	26	104	YGWC4 - 26S25F104 - 05	0349	126	182			
		52	YGWC2 - 26.5S25F052 - 05	0739	74	130			
		78	YGWC3 - 26.5S25F078 - 05	0741	100	156			
	26.5	104	YGWC4 - 26.5S25F104 - 05	0742	126	182			
		54	YGWC2 - 27S25F054 - 05	0264	76	132			
		81	YGWC3 - 27S25F081 - 05	0307	103	159			
	27	108	YGWC4 - 27S25F108 - 05	0350	130	186			
		54	YGWC2 - 27.5S25F054 - 05	0743	76	132			
		81	YGWC3 - 27.5S25F081 - 05	0744	103	159			
	27.5	56	YGWC2 - 28S25F056 - 05	0265	78	134			
		84	YGWC3 - 28S25F084 - 05	0308	106	162			
		112	YGWC4 - 28S25F112 - 05	0351	134	190			
	28	56	YGWC2 - 28.5S25F056 - 05	0745	78	134			
		84	YGWC3 - 28.5S25F084 - 05	0746	106	162			
		112	YGWC4 - 28.5S25F112 - 05	0747	134	190			
	28.5	58	YGWC2 - 29S25F058 - 05	0266	80	136			
		87	YGWC3 - 29S25F087 - 05	0309	109	165			
		116	YGWC4 - 29S25F116 - 05	0352	138	194			
29	58	YGWC2 - 29.5S25F058 - 05	0748	80	136				
	87	YGWC3 - 29.5S25F087 - 05	0749	109	165				
	116	YGWC4 - 29.5S25F116 - 05	0749	109	165				

Drilling - Drill Holder
WCMX 06T308 Drill (DC 30~44.5)



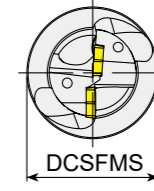
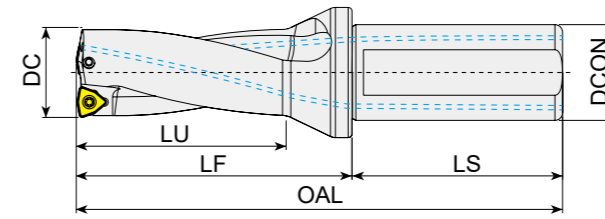
Screw Y3010-M3.5x9
 Wrench Y80-T10

△: p.147 unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
30	60		YGWC2 - 30S32F060 - 06	0267	87	147	32	44	60
	90		YGWC3 - 30S32F090 - 06	0310	117	177			
	120		YGWC4 - 30S32F120 - 06	0353	147	207			
30.5	90		YGWC3 - 30.5S32F090 - 06	0750	117	177			
31	62		YGWC2 - 31S32F062 - 06	0268	89	149			
	93		YGWC3 - 31S32F093 - 06	0311	120	180			
31.5	124		YGWC4 - 31S32F124 - 06	0354	151	211			
	93		YGWC3 - 31.5S32F093 - 06	0751	120	180			
32	64		YGWC2 - 32S32F064 - 06	0269	91	151			
	96		YGWC3 - 32S32F096 - 06	0312	123	183			
32.5	128		YGWC4 - 32S32F128 - 06	0252	155	215			
	96		YGWC3 - 32.5S32F096 - 06	0752	123	183			
33	66		YGWC2 - 33S32F066 - 06	0753	93	153			
	99		YGWC3 - 33S32F099 - 06	0754	126	186			
33.5	132		YGWC4 - 33S32F132 - 06	0755	159	219			
	99		YGWC3 - 33.5S32F099 - 06	0756	126	186			
34	132		YGWC4 - 33.5S32F132 - 06	0757	159	219			
	68		YGWC2 - 34S32F068 - 06	0271	95	155			
34.5	102		YGWC3 - 34S32F102 - 06	0314	129	189			
	136		YGWC4 - 34S32F136 - 06	0357	163	223			
35	102		YGWC3 - 34.5S32F102 - 06	0758	129	189			
	70		YGWC2 - 35S32F070 - 06	0272	97	157			
35.5	105		YGWC3 - 35S32F105 - 06	0315	132	192			
	140		YGWC4 - 35S32F140 - 06	0358	167	227			
36	105		YGWC3 - 35.5S32F105 - 06	0759	132	192			
	72		YGWC2 - 36S32F072 - 06	0273	99	159			
36.5	108		YGWC3 - 36S32F108 - 06	0316	135	195			
	144		YGWC4 - 36S32F144 - 06	0359	171	231			
37	108		YGWC3 - 36.5S32F108 - 06	0760	135	195			
	74		YGWC2 - 37S32F074 - 06	0274	101	161			
37	111		YGWC3 - 37S32F111 - 06	0317	138	198			
	148		YGWC4 - 37S32F148 - 06	0360	175	235			

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Drilling - Drill Holder
WCMX 06T308 Drill (DC 30~44.5)

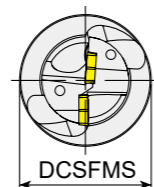
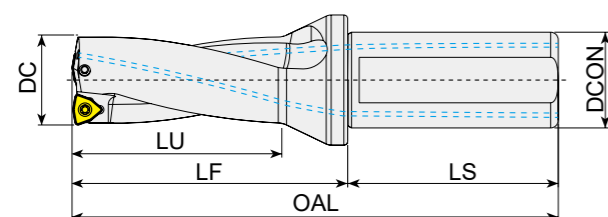


Screw Y3010-M3.5x9
 Wrench Y80-T10

△: p.147 unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
37.5	111		YGWC3 - 37.5S32F111 - 06	0761	138	198	32	44	60
	76		YGWC2 - 38S32F076 - 06	0275	103	163			
38	114		YGWC3 - 38S32F114 - 06	0318	141	201			
38.5	152		YGWC4 - 38S32F152 - 06	0361	179	239			
	114		YGWC3 - 38.5S32F114 - 06	0762	141	201			
39	152		YGWC4 - 38.5S32F152 - 06	0763	179	239			
	78		YGWC2 - 39S32F078 - 06	0276	105	165			
39.5	117		YGWC3 - 39S32F117 - 06	0319	144	204			
	156		YGWC4 - 39S32F156 - 06	0362	183	243			
40	117		YGWC3 - 39.5S32F117 - 06	0764	144	204			
	80		YGWC2 - 40S32F080 - 06	0277	107	167			
40.5	120		YGWC3 - 40S32F120 - 06	0320	147	207			
	160		YGWC4 - 40S32F160 - 06	0363	187	247			
41	120		YGWC3 - 40.5S32F120 - 06	0765	147	207			
	82		YGWC2 - 41S32F082 - 06	0278	109	169			
41.5	123		YGWC3 - 41S32F123 - 06	0321	150	210			
	164		YGWC4 - 41S32F164 - 06	0364	191	251			
42	123		YGWC3 - 41.5S32F123 - 06	0766	150	210			
	84		YGWC2 - 42S32F084 - 06	0279	111	171			
42.5	126		YGWC3 - 42S32F126 - 06	0322	153	213			
	168		YGWC4 - 42S32F168 - 06	0365	195	255			
43	126		YGWC3 - 42.5S32F126 - 06	0767	153	213			
	86		YGWC2 - 43S32F086 - 06	0280	113	173			
43.5	129		YGWC3 - 43S32F129 - 06	0323	156	216			
	172		YGWC4 - 43S32F172 - 06	0366	199	259			
44	129		YGWC3 - 43.5S32F129 - 06	0768	156	216			
	88		YGWC2 - 44S32F088 - 06	0281	115	175			
44.5	132		YGWC3 - 44S32F132 - 06	0324	159	219			
	176		YGWC4 - 44S32F176 - 06	0367	203	263			
44.5	132		YGWC3 - 44.5S32F132 - 06	0769	159	219			

Drilling - Drill Holder
WCMX 080412 Drill (DC 45~60)



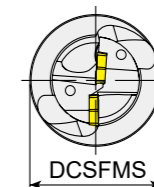
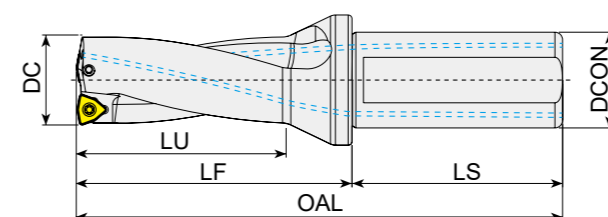
Screw Y4015-M4x11
 Wrench Y80-T15

△: p.147 unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
WCMX 080412	45	90	YGWC2 - 45S40F090 - 08	0282	122	192	40	54	70
		135	YGWC3 - 45S40F135 - 08	0325	167	237			
		180	YGWC4 - 45S40F180 - 08	0368	212	282			
	45.5	135	YGWC3 - 45.5S40F135 - 08	0770	167	237			
		92	YGWC2 - 46S40F092 - 08	0283	124	194			
	46	138	YGWC3 - 46S40F138 - 08	0326	170	240			
		184	YGWC4 - 46S40F184 - 08	0369	216	286			
		94	YGWC2 - 47S40F094 - 08	0284	126	196			
	47	141	YGWC3 - 47S40F141 - 08	0327	173	243			
		188	YGWC4 - 47S40F188 - 08	0370	220	290			
		96	YGWC2 - 48S40F096 - 08	0285	128	198			
	48	144	YGWC3 - 48S40F144 - 08	0328	176	246			
		192	YGWC4 - 48S40F192 - 08	0371	224	294			
		98	YGWC2 - 49S40F098 - 08	0286	130	200			
	49	147	YGWC3 - 49S40F147 - 08	0329	179	249			
		196	YGWC4 - 49S40F196 - 08	0372	228	298			
		100	YGWC2 - 50S40F100 - 08	0287	132	202			
	50	150	YGWC3 - 50S40F150 - 08	0330	182	252			
		200	YGWC4 - 50S40F200 - 08	0373	232	302			
	51	102	YGWC2 - 51S40F102 - 08	0288	134	204			

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Drilling - Drill Holder
WCMX 080412 Drill (DC 45~60)

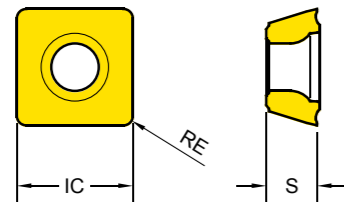


Screw Y4015-M4x11
 Wrench Y80-T15

△: p.147 unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
WCMX 080412	51	153	YGWC3 - 51S40F153 - 08	0331	185	255	40	54	70
		104	YGWC2 - 52S40F104 - 08	0289	136	206			
	52	156	YGWC3 - 52S40F156 - 08	0332	188	258			
		106	YGWC2 - 53S40F106 - 08	0290	138	208			
	53	159	YGWC3 - 53S40F159 - 08	0333	191	261			
		108	YGWC2 - 54S40F108 - 08	0291	140	210			
	54	162	YGWC3 - 54S40F162 - 08	0334	194	264			
		110	YGWC2 - 55S40F110 - 08	0292	142	212			
	55	165	YGWC3 - 55S40F165 - 08	0335	197	267			
		112	YGWC2 - 56S40F112 - 08	0293	144	214			
	56	168	YGWC3 - 56S40F168 - 08	0336	200	270			
		114	YGWC2 - 57S40F114 - 08	0294	146	216			
	57	171	YGWC3 - 57S40F171 - 08	0337	203	273			
		116	YGWC2 - 58S40F116 - 08	0295	148	218			
	58	174	YGWC3 - 58S40F174 - 08	0338	206	276			
		118	YGWC2 - 59S40F118 - 08	0771	150	220			
	59	177	YGWC3 - 59S40F177 - 08	0772	209	279			
		120	YGWC2 - 60S40F120 - 08	0773	152	222			
	60	180	YGWC3 - 60S40F180 - 08	0774	212	282			

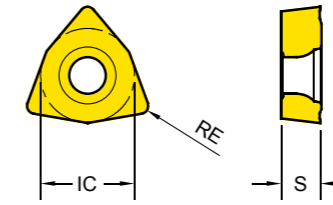
Drilling - Inserts Drilling Inserts (SPMX)



Series	Metric	
	IC	S
SPMX 0502	5.00	2.38
SPMX 0602	6.00	2.41
SPMX 07T3	7.94	3.97
SPMX 0904	9.80	4.30
SPMX 1104	11.50	4.90
SPMX 1405	14.30	5.30

SPMX		Designation	Fn (mm/rev.)	EDP 3200..	
				YG602	
SPMX General		SPMX 050204	0.07~0.14	●	0005
		SPMX 060204	0.08~0.14	●	0006
		SPMX 07T308	0.08~0.16	●	0007
		SPMX 090408	0.08~0.16	●	0008
		SPMX 110408	0.10~0.18	●	0009
		SPMX 140512	0.10~0.20	●	0010
-ST Stainless Steel		SPMX 050204 - ST	0.03~0.10	●	0011
		SPMX 060204 - ST	0.04~0.11	●	0012
		SPMX 07T308 - ST	0.04~0.11	●	0013
		SPMX 090408 - ST	0.05~0.12	●	0014

Drilling - Inserts Drilling Inserts (WCMX)



Series	Metric	
	IC	S
WCMX 0402	6.35	2.38
WCMX 0503	7.94	3.18
WCMX 06T3	9.53	3.97
WCMX 0804	12.70	4.76

WCMX		Designation	Fn (mm/rev.)	EDP 3200..	
				YG602	
WCMX General		WCMX 040208	0.05~0.11	●	0003
		WCMX 050308	0.06~0.14	●	0001
		WCMX 06T308	0.08~0.14	●	0002
		WCMX 080412	0.08~0.14	●	0004

Cutting Speed			Vc (m/min.)	
ISO	VDI	Sub Group	YG602	
			Min	Max
P	1~5	Non-Alloyed Steel	140	380
	6~9	Low-Alloyed Steel	120	300
	10~11	High-Alloyed Steel	70	150
M	12~13	Ferritic & Martensitic	120	200
	14	Austenitic Stainless Steel	130	250
K	15~16	Grey Cast Iron	120	250
	17~18	Nodular Cast Iron	130	220

Cutting Speed			Vc (m/min.)	
ISO	VDI	Sub Group	YG602	
			Min	Max
P	1~5	Non-Alloyed Steel	140	380
	6~9	Low-Alloyed Steel	120	300
	10~11	High-Alloyed Steel	70	150
M	12~13	Ferritic & Martensitic	120	200
	14	Austenitic Stainless Steel	130	250
K	15~16	Grey Cast Iron	120	250
	17~18	Nodular Cast Iron	130	220