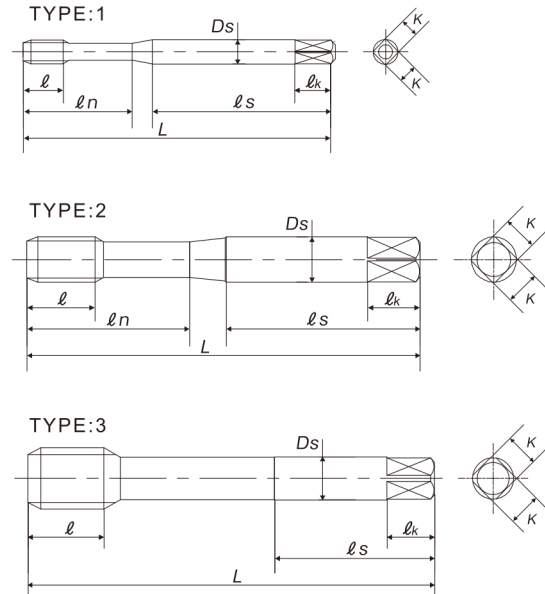
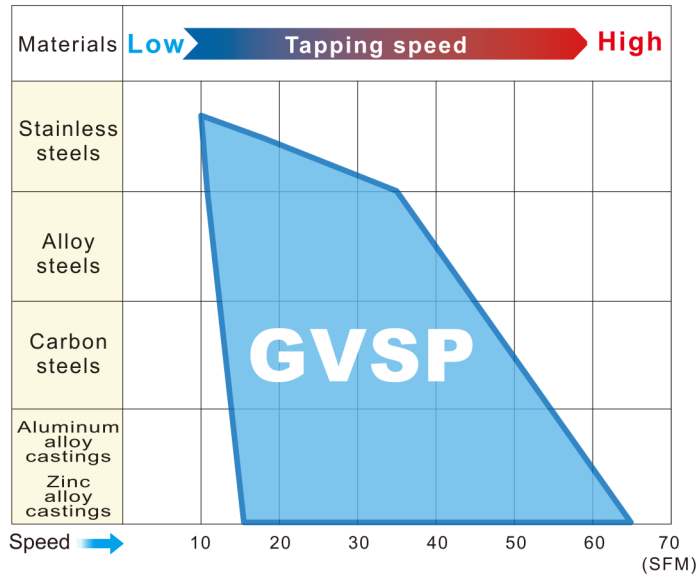




- Custom blended vanadium high speed steel taps with TiN coating achieve longer tool life and stable tapping process
- Optimum cutting edge design specially engineered for highly accurate pitch diameter tolerance and excellent thread surface

Blind holes

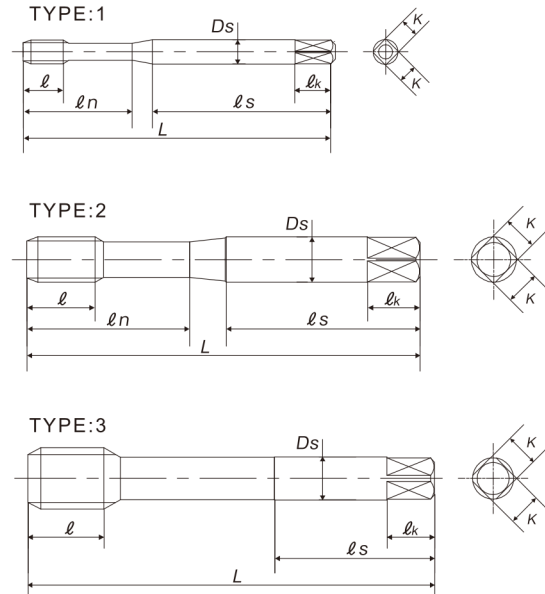
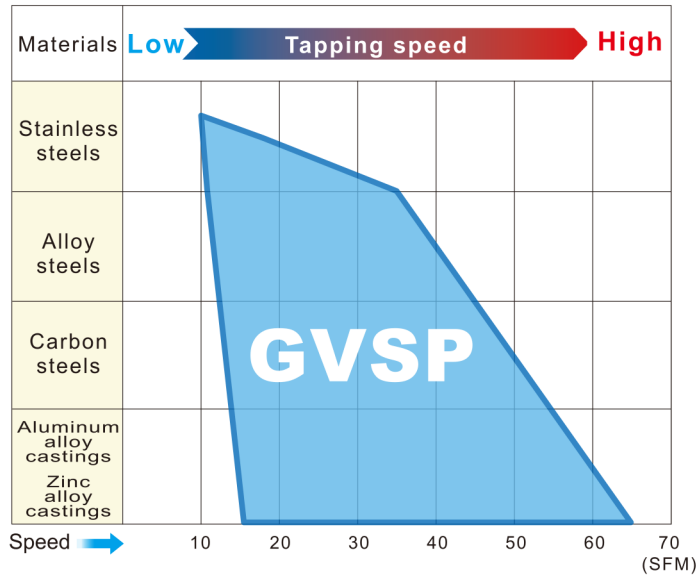


Thread	Class	Part Number	Chamfer	L	l	ln	ls	Ds	K	lk	No. of Flutes	TYPE
NO.2-56UNC	GH2	51AAB03007	2.5P	1.750	0.157	0.437	1.03	0.141	0.110	0.187	2	1
NO.2-64UNF	GH2	51AAB03008	2.5P	1.750	0.157	0.437	1.03	0.141	0.110	0.187	2	1
NO.3-48UNC	GH2	51AAB03012	2.5P	1.812	0.197	0.500	1.07	0.141	0.110	0.187	2	1
NO.3-56UNF	GH2	51AAB03013	2.5P	1.812	0.197	0.500	1.07	0.141	0.110	0.187	2	1
NO.4-40UNC	GH2	51AAB03015	2.5P	1.875	0.236	0.562	1.09	0.141	0.110	0.187	2	1
NO.4-48UNF	GH2	51AAB03016	2.5P	1.875	0.236	0.562	1.09	0.141	0.110	0.187	2	1
NO.5-40UNC	GH2	51AAB03021	2.5P	1.937	0.236	0.625	1.14	0.141	0.110	0.187	3	1
NO.5-44UNF	GH2	51AAB03022	2.5P	1.937	0.236	0.625	1.14	0.141	0.110	0.187	3	1
NO.6-40UNF	GH2	51AAB03024	2.5P	2.000	0.276	0.687	1.16	0.141	0.110	0.187	3	1
NO.6-32UNC	GH3	51AAC03023	2.5P	2.000	0.276	0.687	1.16	0.141	0.110	0.187	3	1
NO.8-32UNC	GH3	51AAC03029	2.5P	2.125	0.276	0.750	1.22	0.168	0.131	0.250	3	1
NO.8-36UNF	GH3	51AAC03030	2.5P	2.125	0.276	0.750	1.22	0.168	0.131	0.250	3	1
NO.10-24UNC	GH3	51AAC03039	2.5P	2.375	0.276	0.875	1.3	0.194	0.152	0.250	3	1
NO.10-32UNF	GH3	51AAC03041	2.5P	2.375	0.276	0.875	1.3	0.194	0.152	0.250	3	1
NO.12-24UNC	GH3	51AAC03047	2.5P	2.375	0.354	0.937	1.23	0.220	0.165	0.281	3	1
NO.12-28UNF	GH3	51AAC03048	2.5P	2.375	0.276	0.937	1.23	0.220	0.165	0.281	3	1
1/4-20UNC	GH3	51AAC03058	2.5P	2.500	0.433	1.000	1.25	0.255	0.191	0.312	3	2
1/4-28UNF	GH3	51AAC03062	2.5P	2.500	0.354	1.000	1.25	0.255	0.191	0.312	3	2
5/16-24UNF	GH4	51AAD03074	2.5P	2.718	0.394	1.125	1.32	0.318	0.238	0.375	3	3
5/16-18UNC	GH5	51AAE03071	2.5P	2.718	0.472	1.125	1.32	0.318	0.238	0.375	3	3
3/8-16UNC	GH5	51AAE03082	2.5P	2.937	0.551	1.250	1.32	0.381	0.286	0.437	3	3
3/8-24UNF	GH5	51AAE03085	2.5P	2.937	0.394	1.250	1.32	0.381	0.286	0.437	3	3
7/16-14UNC	GH5	51AAE03098	2.5P	3.156	0.591	-	1.31	0.323	0.242	0.406	3	4
7/16-20UNF	GH5	51AAE03101	2.5P	3.156	0.472	-	1.31	0.323	0.242	0.406	3	4
1/2-13UNC	GH5	51AAE03111	2.5P	3.375	0.63	-	1.33	0.367	0.275	0.437	3	4
1/2-20UNF	GH5	51AAE03115	2.5P	3.375	0.472	-	1.33	0.367	0.275	0.437	3	4
9/16-12UNC	GH5	51AAE03126	2.5P	3.593	0.709	-	1.55	0.429	0.322	0.500	3	4
9/16-18UNF	GH5	51AAE03129	2.5P	3.593	0.512	-	1.55	0.429	0.322	0.500	3	4
5/8-11UNC	GH5	51AAE03138	2.5P	3.812	0.748	-	1.61	0.480	0.360	0.562	3	4
5/8-18UNF	GH5	51AAE03142	2.5P	3.812	0.512	-	1.61	0.480	0.360	0.562	3	4

HSS	Coating			Low carbon steels 15~35 (SFM)	Medium carbon steels 15~35 (SFM)	High carbon steels 15~35 (SFM)	Alloy steels 15~35 (SFM)	Stainless steels ~15 (SFM)	Aluminum alloy castings 15~65 (SFM)	Zinc alloy castings 15~65 (SFM)
-----	---------	---	---	-------------------------------------	--	--------------------------------------	--------------------------------	----------------------------------	---	---------------------------------------

- Custom blended vanadium high speed steel taps with TiN coating achieve longer tool life and stable tapping process
- Optimum cutting edge design specially engineered for highly accurate pitch diameter tolerance and excellent thread surface

Blind holes

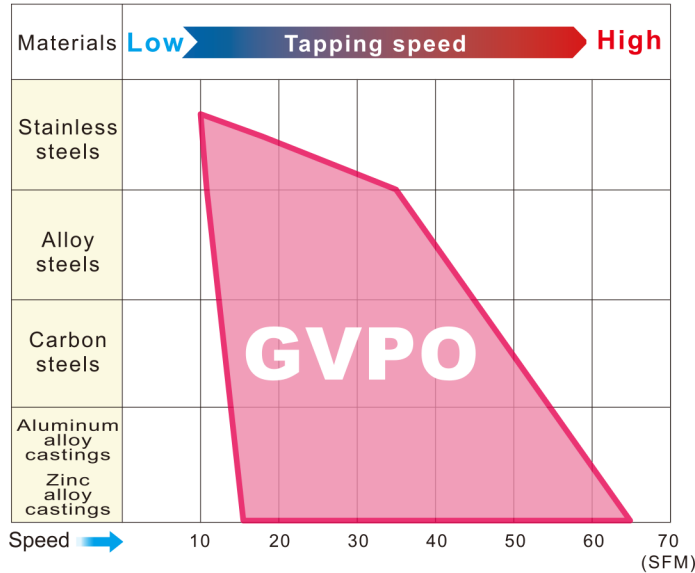


Thread	Class	Part Number	Chamfer	L	l	ln	ls	Ds	K	lk	No. of Flutes
M3X0.5	D3	51AAC01035	2.5P	1.937	0.197	0.625	1.14	0.141	0.11	0.187	1
M3.5X0.6	D4	51AAD01038	2.5P	2.000	0.276	0.687	1.16	0.141	0.11	0.187	1
M4X0.7	D4	51AAD01042	2.5P	2.125	0.276	0.750	1.22	0.168	0.131	0.250	1
M5X0.8	D4	51AAD01049	2.5P	2.375	0.354	0.875	1.3	0.194	0.152	0.250	1
M6X1	D5	51AAE01055	2.5P	2.500	0.433	1.000	1.25	0.255	0.191	0.312	2
M7X1	D5	51AAE01060	2.5P	2.718	0.433	1.125	1.22	0.318	0.238	0.375	3
M8X1.25	D5	51AAE01064	2.5P	2.718	0.472	1.125	1.32	0.318	0.238	0.375	3
M8X1	D5	51AAE01065	2.5P	2.718	0.472	1.125	1.32	0.318	0.238	0.375	3
M10X1.25	D5	51AAE01079	2.5P	2.937	0.472	1.250	1.43	0.381	0.286	0.437	3
M10X1.5	D6	51AAF01078	2.5P	2.937	0.512	1.250	1.43	0.381	0.286	0.437	3
M10X1	D5	51AAE01080	2.5P	2.937	0.512	1.250	1.43	0.381	0.286	0.437	3
M12X1.75	D6	51AAF01088	2.5P	3.375	0.591	-	1.33	0.367	0.275	0.437	3
M12X1.5	D6	51AAF01089	2.5P	3.375	0.591	-	1.33	0.367	0.275	0.437	3
M12X1.25	D5	51AAE01090	2.5P	3.375	0.551	-	1.33	0.367	0.275	0.437	3
M14X2	D7	51AAG01100	2.5P	3.593	0.709	-	1.55	0.429	0.322	0.500	3
M14X1.5	D6	51AAF01102	2.5P	3.593	0.551	-	1.55	0.429	0.322	0.500	3
M16X2	D7	51AAG01114	2.5P	3.812	0.709	-	1.61	0.480	0.360	0.562	3
M16X1.5	D6	51AAF01116	2.5P	3.812	0.551	-	1.61	0.480	0.360	0.562	3

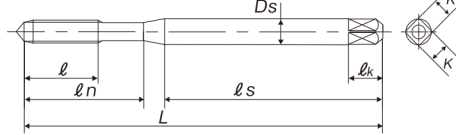


- Custom blended vanadium high speed steel taps with TiN coating achieve longer tool life and stable tapping process
- Optimum cutting edge design specially engineered for highly accurate pitch diameter tolerance and excellent thread surface

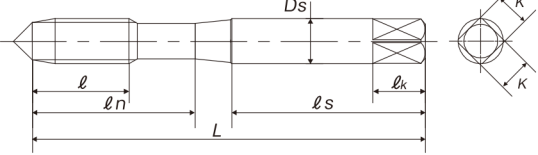
Through holes



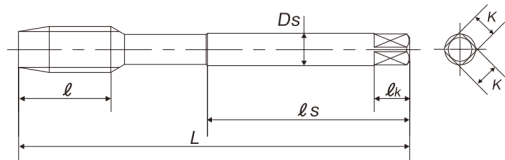
TYPE:1



TYPE:2



TYPE:3

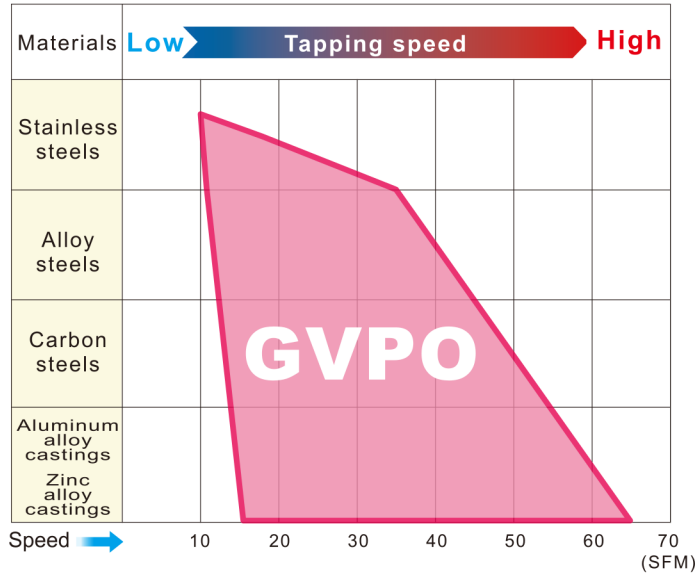


Thread	Class	Part Number	Chamfer	L	l	ln	ls	Ds	K	lk	No. of Flutes	TYPE
NO.2-56UNC	GH2	51ABB03007	5P	1.750	0.256	0.437	1.03	0.141	0.110	0.187	2	1
NO.2-64UNF	GH2	51ABB03008	5P	1.750	0.256	0.437	1.03	0.141	0.110	0.187	2	1
NO.3-48UNC	GH2	51ABB03012	5P	1.812	0.295	0.500	1.07	0.141	0.110	0.187	2	1
NO.3-56UNF	GH2	51ABB03013	5P	1.812	0.295	0.500	1.07	0.141	0.110	0.187	2	1
NO.4-40UNC	GH2	51ABB03015	5P	1.875	0.335	0.562	1.09	0.141	0.110	0.187	2	1
NO.4-48UNF	GH2	51ABB03016	5P	1.875	0.335	0.562	1.09	0.141	0.110	0.187	2	1
NO.5-40UNC	GH2	51ABB03021	5P	1.937	0.374	0.625	1.14	0.141	0.110	0.187	2	1
NO.5-44UNF	GH2	51ABB03022	5P	1.937	0.374	0.625	1.14	0.141	0.110	0.187	2	1
NO.6-40UNF	GH2	51ABB03024	5P	2.000	0.413	0.687	1.16	0.141	0.110	0.187	3	1
NO.6-32UNC	GH3	51ABC03023	5P	2.000	0.413	0.687	1.16	0.141	0.110	0.187	3	1
NO.8-36UNF	GH2	51ABB03030	5P	2.125	0.453	0.750	1.22	0.168	0.131	0.250	3	1
NO.8-32UNC	GH3	51ABC03029	5P	2.125	0.453	0.750	1.22	0.168	0.131	0.250	3	1
NO.10-24UNC	GH3	51ABC03039	5P	2.375	0.531	0.875	1.30	0.194	0.152	0.250	3	1
NO.10-32UNF	GH3	51ABC03041	5P	2.375	0.531	0.875	1.30	0.194	0.152	0.250	3	1
NO.12-24UNC	GH3	51ABC03047	5P	2.375	0.571	0.937	1.23	0.22	0.165	0.281	3	1
NO.12-28UNF	GH3	51ABC03048	5P	2.375	0.571	0.937	1.23	0.22	0.165	0.281	3	1
1/4-20UNC	GH3	51ABC03058	5P	2.500	0.591	1.000	1.25	0.255	0.191	0.312	3	2
1/4-28UNF	GH3	51ABC03062	5P	2.500	0.591	1.000	1.25	0.255	0.191	0.312	3	2
5/16-18UNC	GH5	51ABE03071	5P	2.718	0.669	1.125	1.32	0.318	0.238	0.375	3	3
5/16-24UNF	GH5	51ABE03074	5P	2.718	0.669	1.125	1.32	0.318	0.238	0.375	3	3
3/8-16UNC	GH5	51ABE03082	5P	2.937	0.748	1.250	1.32	0.381	0.286	0.437	3	3
3/8-24UNF	GH5	51ABE03085	5P	2.937	0.748	1.250	1.32	0.381	0.286	0.437	3	3
7/16-14UNC	GH5	51ABE03098	5P	3.156	0.866	-	1.31	0.323	0.242	0.406	4	4
7/16-20UNF	GH5	51ABE03101	5P	3.156	0.866	-	1.31	0.323	0.242	0.406	4	4
1/2-13UNC	GH5	51ABE03111	5P	3.375	0.984	-	1.33	0.367	0.275	0.437	4	4
1/2-20UNF	GH5	51ABE03115	5P	3.375	0.984	-	1.33	0.367	0.275	0.437	4	4
9/16-12UNC	GH5	51ABE03126	5P	3.593	0.984	-	1.55	0.429	0.322	0.500	4	4
9/16-18UNF	GH5	51ABE03129	5P	3.593	0.984	-	1.55	0.429	0.322	0.500	4	4
5/8-11UNC	GH5	51ABE03138	5P	3.812	1.083	-	1.61	0.480	0.360	0.562	4	4
5/8-18UNF	GH5	51ABE03142	5P	3.812	1.083	-	1.61	0.480	0.360	0.562	4	4
3/4-10UNC	GH5	51ABE03161	5P	4.250	1.201	-	1.85	0.590	0.422	0.687	4	4
3/4-16UNF	GH5	51ABE03164	5P	4.250	1.201	-	1.85	0.590	0.422	0.687	4	4
7/8-9UNC	GH5	51ABE03181	5P	4.687	1.339	-	2.13	0.687	0.523	0.750	4	4
7/8-14UNF	GH5	51ABE03184	5P	4.687	1.339	-	2.13	0.687	0.523	0.750	4	4

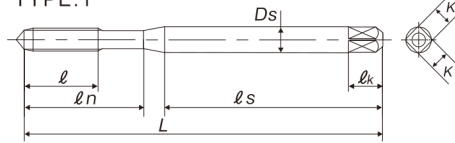


- Custom blended vanadium high speed steel taps with TiN coating achieve longer tool life and stable tapping process
- Optimum cutting edge design specially engineered for highly accurate pitch diameter tolerance and excellent thread surface

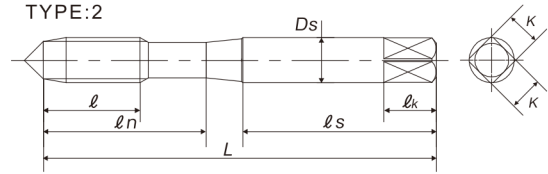
Through holes



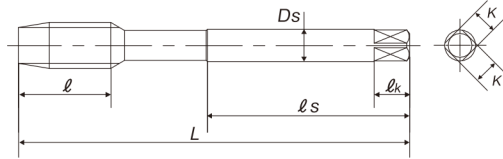
TYPE:1



TYPE:2



TYPE:3



Thread	Class	Part Number	Chamfer	L	l	ln	ls	Ds	K	lk	No. of Flutes	TYPE
M3X0.5	D3	51ABC01035	5P	1.937	0.374	0.625	1.14	0.141	0.110	0.187	1	1
M3.5X0.6	D4	51ABD01038	5P	2.000	0.413	0.687	1.16	0.141	0.110	0.187	1	1
M4X0.7	D4	51ABD01042	5P	2.125	0.453	0.75	1.22	0.168	0.131	0.250	1	1
M5X0.8	D4	51ABD01049	5P	2.375	0.531	0.875	1.30	0.194	0.152	0.250	1	1
M6X1	D5	51ABE01055	5P	2.500	0.591	1.000	1.25	0.255	0.191	0.312	2	2
M7X1	D5	51ABE01060	5P	2.718	0.669	1.125	1.22	0.318	0.238	0.375	3	3
M8X1.25	D5	51ABE01064	5P	2.718	0.669	1.125	1.32	0.318	0.238	0.375	3	3
M8X1	D5	51ABE01065	5P	2.718	0.669	1.125	1.32	0.318	0.238	0.375	3	3
M10X1.25	D5	51ABE01079	5P	2.937	0.748	1.250	1.43	0.381	0.286	0.437	3	3
M10X1.5	D6	51ABF01078	5P	2.937	0.748	1.250	1.43	0.381	0.286	0.437	3	3
M10X1	D5	51ABE01080	5P	2.937	0.748	1.250	1.43	0.381	0.286	0.437	3	3
M12X1.75	D6	51ABF01088	5P	3.375	0.984	-	1.33	0.367	0.275	0.437	4	4
M12X1.25	D5	51ABE01090	5P	3.375	0.984	-	1.33	0.367	0.275	0.437	4	4
M12X1.5	D6	51ABF01089	5P	3.375	0.984	-	1.33	0.367	0.275	0.437	4	4
M14X2	D7	51ABG01100	5P	3.593	0.984	-	1.55	0.429	0.322	0.500	4	4
M14X1.5	D6	51ABF01102	5P	3.593	0.984	-	1.55	0.429	0.322	0.500	4	4
M16X2	D7	51ABG01114	5P	3.812	1.083	-	1.61	0.480	0.360	0.562	4	4
M16X1.5	D6	51ABF01116	5P	3.812	1.083	-	1.61	0.480	0.360	0.562	4	4
M18X2.5	D7	51ABG01128	5P	4.031	1.083	-	1.79	0.542	0.406	0.625	4	4
M18X1.5	D6	51ABF01130	5P	4.031	1.083	-	1.79	0.542	0.406	0.625	4	4
M20X2.5	D8	51ABH01141	5P	4.468	1.201	-	2.05	0.625	0.489	0.687	4	4
M20X1.5	D6	51ABF01144	5P	4.468	1.201	-	2.05	0.625	0.489	0.687	4	4
M22X2.5	D8	51ABH01156	5P	4.688	1.339	-	2.13	0.697	0.523	0.750	4	4
M22X1.5	D6	51ABF01158	5P	4.688	1.339	-	2.13	0.697	0.523	0.750	4	4
M24X3	D8	51ABH01167	5P	4.906	1.339	-	2.24	0.760	0.570	0.750	4	4
M24X1.5	D6	51ABF01170	5P	4.906	1.339	-	2.24	0.760	0.570	0.750	4	4