

High Performance
Rare Earth Magnet
高性能稀土磁石

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速敏科技股份有限公司
SPIN TECHNOLOGY CORP

Integrity

Strategy

Sophisticated

<<<<<<



公司沿革 / History

2012	燒結40EH開發完成， $iHc+(BH)_{max} \geq 69$
2011	與中鋼CSC合作，新購氬碎機、燒結爐等燒結產線在台恢復營運 7月23日取得ANAB公司之ISO9001:2008認證#QA110262
2010	完成中山科學院ECB CVD電漿機台磁場及導磁框架製造合約
2009	完成中山科學院ECB CVD電漿機台/磁場設計合約
2008	取得含錯磁性材料台灣發明專利 NO.I 293064 取得流體磁化器日本專利 NO.3147987
2007	取得磁性滾輪台灣專利 NO.M307451 取得磁性滾輪中國專利 NO.ZL 2006 2 0149024.4 取得含混合稀土之雙向奈米晶硬磁材料台灣發明專利---NO.I 291454 6月2日取得ANAB公司之ISO9001:2000認證#QA70204
2006	取得磁性滾輪日本 NO.3128527專利
2005	取得流體磁化器台灣專利---NO.M279635
2003	購回海恩科技燒結生產線
2002	原團隊在台成立速敏科技股份有限公司
1999	5月19日取得SGS公司之ISO9002認證#QTW00115
1998	於新廠房設立自動電鍍線 開發射出膠磁
1997	正式獲得Neo日本專利2-118846
1995	正式獲得Neo德國專利P40142663
1993	正式取得Neo美國專利5217541號
1992	投入Voice Coil Motor市場
1991	完成”低溫係數高溫阻抗” (Low-temperature coefficient high temperature resist) 磁石的量產技術 開拓歐洲市場且獲得高品質好評
1990	提出Neo磁石專利權申請 (美國、德國、日本)
1989	自「工業技術研究院材料研究所」移轉燒結鈹鐵硼及膠磁鈹鐵硼生產技術



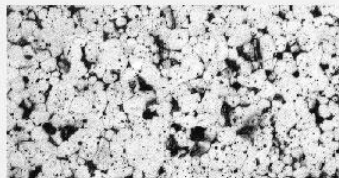
2012	Completed 40EH grade and iHC + (BH) max ≥ 69
2011	Cooperated with CSC, started to expand sintered magnet production Spin Tech was certified ISO9001:2008 # QA110262
2010	Finished a Design Contract with CSIST of ECB CVD
2009	Finished a Production Contract with CSIST of ECB CVD
2008	Obtained official approval of Neo Magnet for Taiwan Patent No. I 293064 Obtained official approval of Repure for Japan Patent NO. 3147987
2007	Obtained official approval of Magnetic Separator Roller for Taiwan Patent No. M307451 Obtained official approval of Magnetic Separator Roller for China Patent No. ZL 2006 2 0149024.4 Obtained the official approval of Neo Formula for Taiwan Patent No. I 291454 Spin Tech was certified ISO9001:2000 # QA070204
2006	Obtained official approval of Magnetic Separator Roller for Japan Patent No. 3128527
2005	Obtained official approval of Repure for Taiwan Patent NO.M279635
2003	Buys the NdFeB Sintered Magnet production line from High End Technology Corp.
2002	Spin Technology Corp was established in Hsinchu Industrial Park
1999	Obtained ISO9002 certification # QTW00115 of SGS Company on May 19,1999
1998	Sets up fully automatic production line of Ni-Plating. Developed Injected Bonded Magnet
1997	Obtained official approval of Neo for Japan Patent No. 2-118846
1995	Obtained official approval of Neo for Germany Patent No. P40142663
1993	Obtained official approval of Neo for USA Patent No. 5217541
1992	Entered into Voice Coil Motor market
1991	Completed "Low-temperature coefficient high temperature resist" mass production technique. Market product in Europe and set good quality image
1990	Filed for NdFeB Patent (U.S.A., Germany, Japan)
1989	Transferred NdFeB Sintered and Bonded Magnet Technology from ITRI



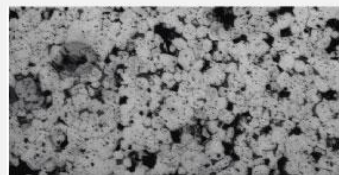
金相 / Micro Structures

他廠金相
Other Manufacturer

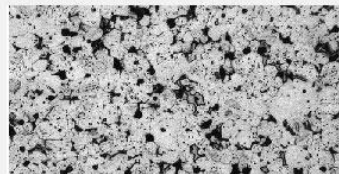
N52



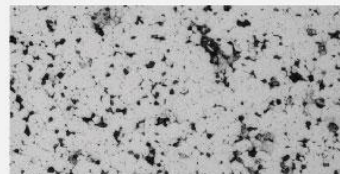
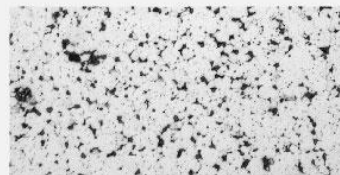
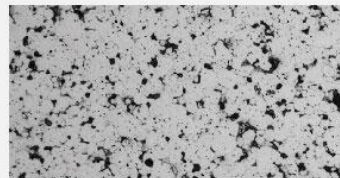
N48H

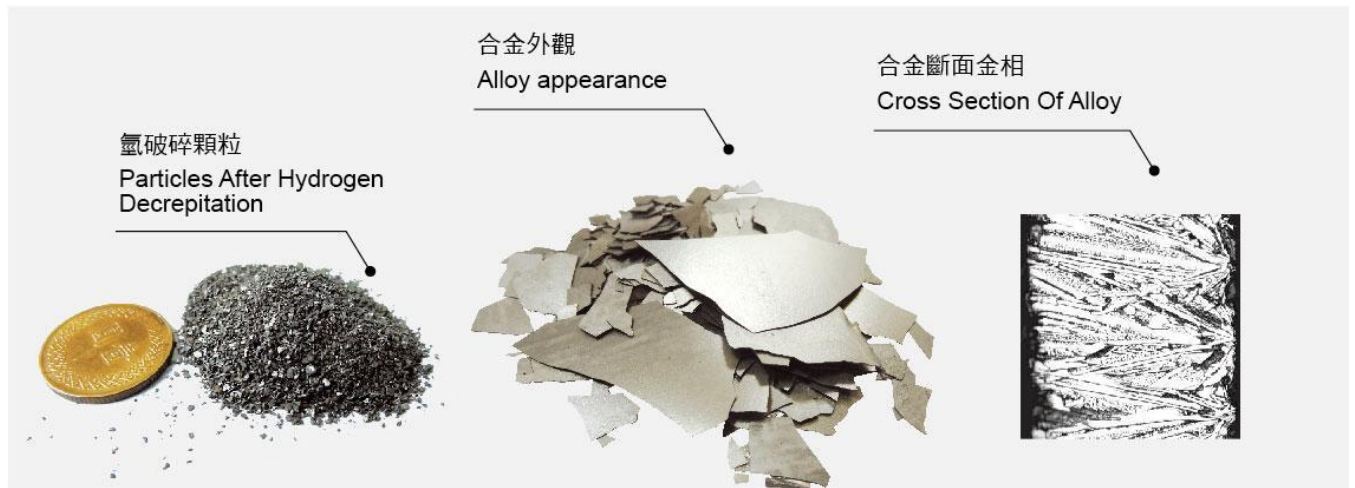


N45SH



速敏金相
SPIN Tech.





社會責任 / Social Responsibility

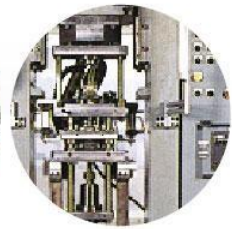
NdFeB 稀土材料開採、提煉，具有輕度的污染性。減少能源的開採，有效利用加工後的邊材、剩料，下腳料是減少能源開採污染的直接途徑，更是我們積極發展的核心技術之一。對環境的維護責任，我們勇於承坦。

There is a light pollution of NdFeB rare earth materials exploration and refining. Effectively using the edge and leftover material after processing is a way to reducing the exploitation of energy resources, and mining pollution, also is one of our main developing technology. Protect the environment from pollution has been our responsibility and belief.

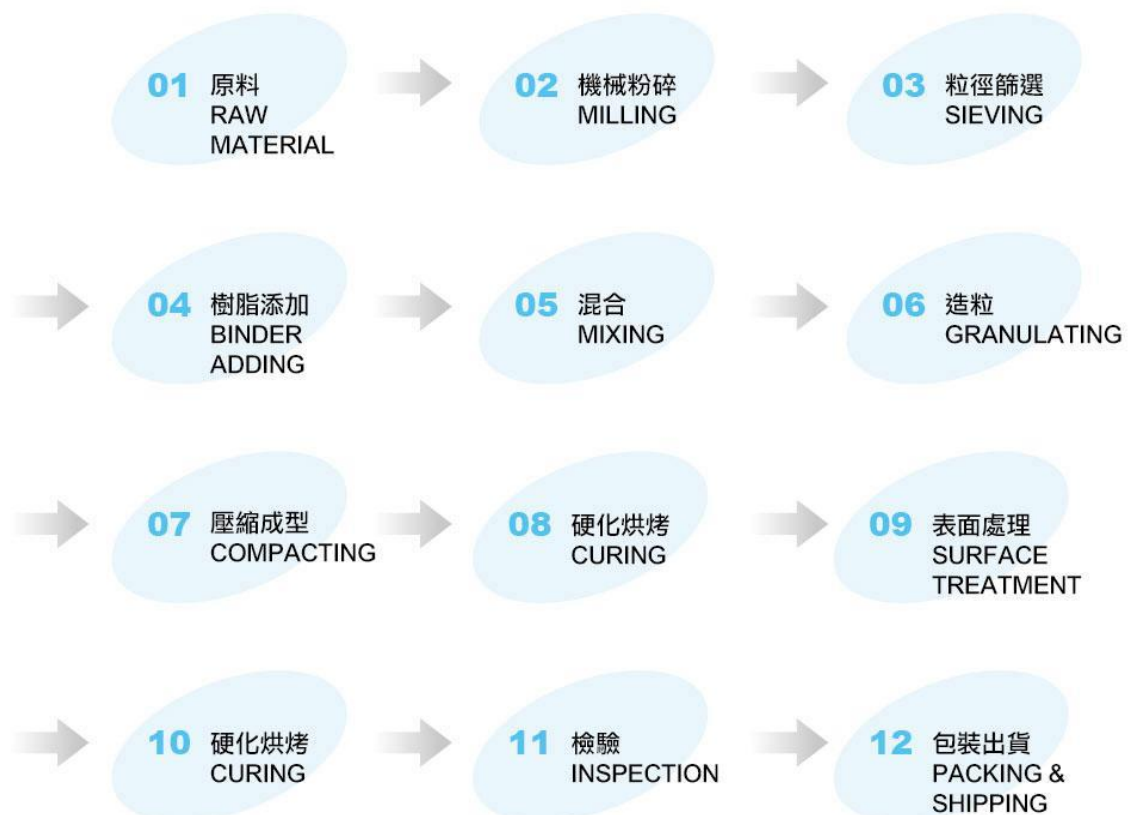


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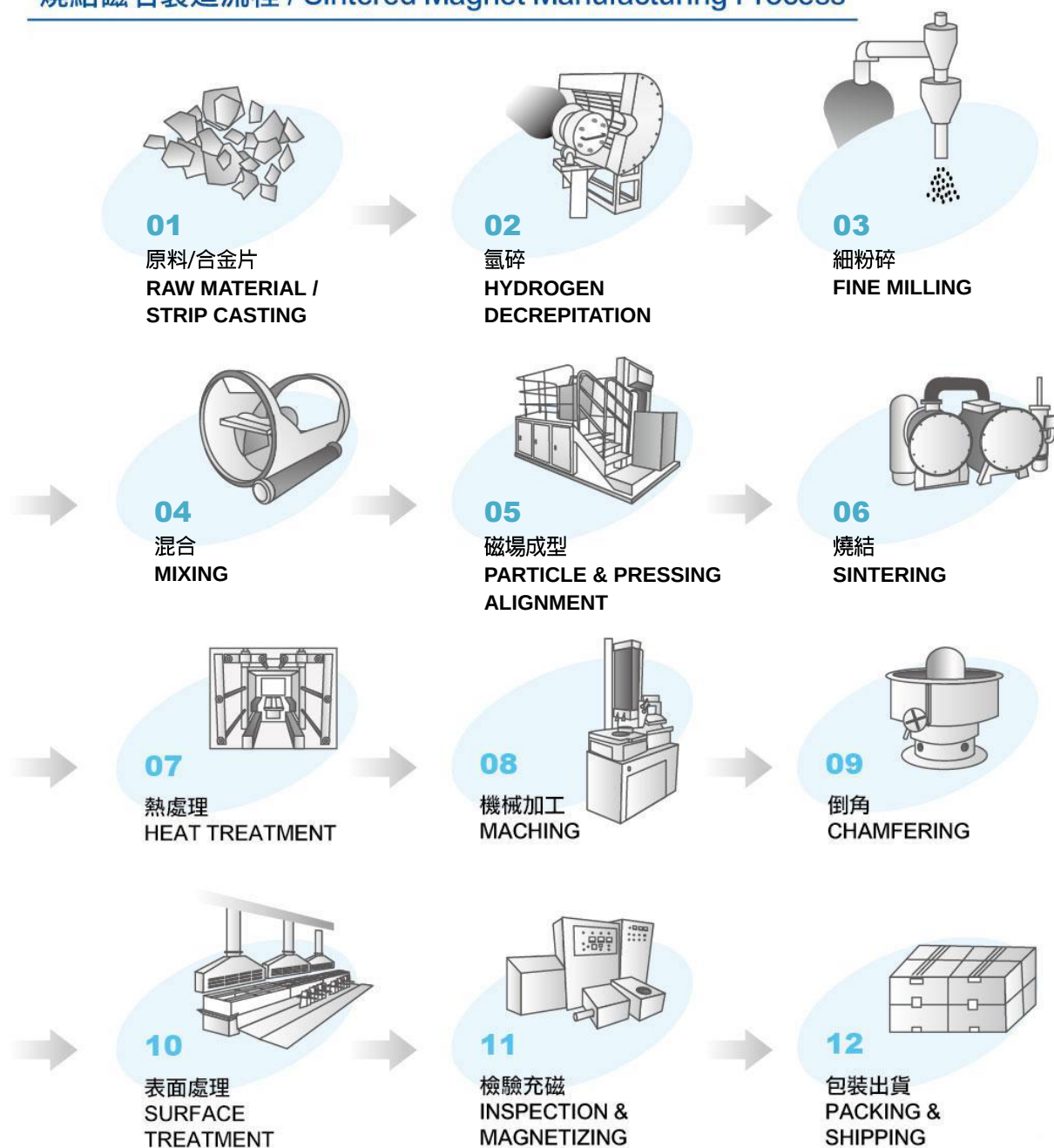


粘結磁石製造流程 / Bonded Magnet Manufacturing Process





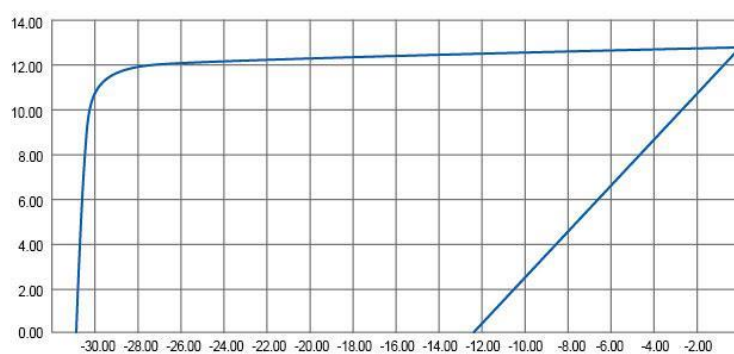
燒結磁石製造流程 / Sintered Magnet Manufacturing Process



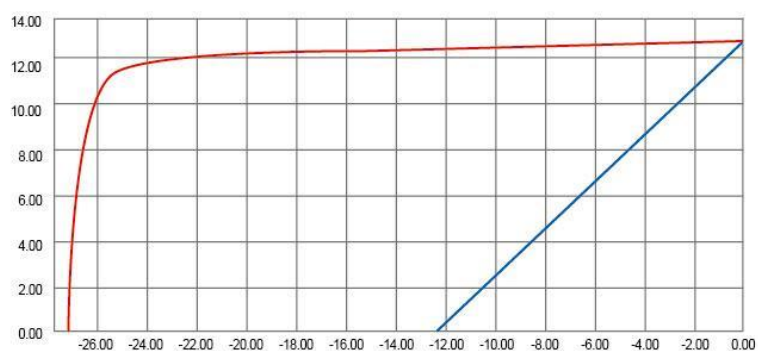


特性曲線圖 / B-H CURVE

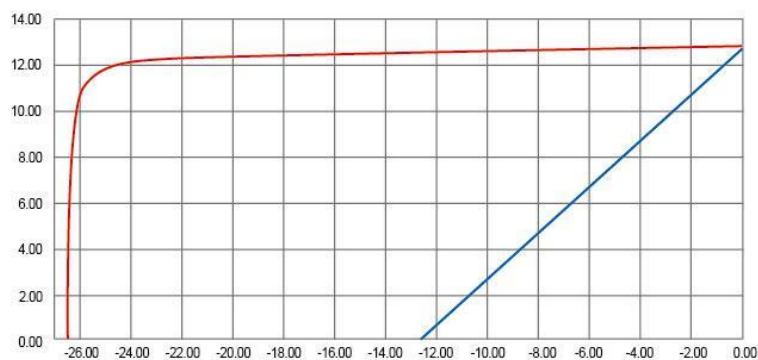
40 EH



40 UH



42 UH





NdFeB粘結磁石特性 / Characteristics Of NdFeB Bonded Magnets

磁特性 Property	殘留感應磁力 Residual Induction				矯頑力 Coercive Force				內秉矯頑力 Intrinsic Coercivity		最大磁能積 Maximum Energy Product				溫度係數 Temp. Coefficient		密度 Density
	Br				bHc				iHc		(BH)max				α	β	ρ
	kG		T		kOe		kA/m		kOe	kA/m	MGOe		kJ/m³		%/°C	%/°C	g/cm³
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.	Max.	Min.	Typical	Typical	Min.
SPNAH6	5.2	4.2	0.52	0.42	4.7	3.5	374	278	14	1114	6	4	47.8	31.8	-0.12	-0.4	5.2
SPNAH8	6.0	5.2	0.6	0.52	5.4	4.6	430	366	14	1114	8	6	63.7	47.8	-0.12	-0.4	5.6
SPNAH10	6.6	6.0	0.66	0.6	6.1	5.4	486	430	14	1114	10	8	79.6	63.6	-0.12	-0.4	5.8
SPNB6	5.4	4.2	0.54	0.42	4.6	3.4	366	270	8	636	6	4	47.8	31.8	-0.10	-0.4	5.2
SPNB8	6.2	5.2	0.62	0.52	5.2	4.2	414	334	8	636	8	6	63.7	47.8	-0.10	-0.4	5.6
SPNB10	7.0	6.2	0.7	0.62	5.7	5.0	454	398	8	636	10	8	79.6	63.6	-0.10	-0.4	5.8
SPNB12	7.6	7.0	0.76	0.7	6.4	5.7	509	454	8	636	12	10	95.5	79.6	-0.10	-0.4	6.2

其他等級亦可製作歡迎洽詢 Other grades can also be made and welcome to contact with us.

All specification are subject to change without notice.

NeFeB 燒結磁石特性 / Performance Indicator and Grade for major NeFeB Sintered magnets

材料 NdFeB		主要磁性能 Major Characteristics								其它性能 Other Characteristics			
系列號 Series	牌號 Grade	剩磁 Residual Induction		內秉矯頑力 Intrinsic Coercivity		矯頑力 Coercive Force		最大磁能積 Maximum Energy Product		密度 Density	溫度係數 Temp. Coefficient		工作溫度 Working Temp.
		Br		Hcj		Hcb		(BH)max		ρ	α	β	
		T	kGs	kA/m	kOe	kA/m	kOe	KJ/m³	MGOe	g/cm³	%/°C	%/°C	°C
		Scope		Min		Min		Scope		Min	Typical		Typical
N N系列	N48	1.35~1.42	13.5~14.2	955	12	875	11.0	358~390	45~49	7.4	-0.11	-0.57	80
	N50	1.38~1.44	13.8~14.4	955	12	875	11.0	374~406	47~51	7.4	-0.11	-0.57	80
	N52	1.41~1.47	14.1~14.7	876	11	836	10.5	390~422	49~53	7.4	-0.11	-0.57	80
M M系列	45M	1.30~1.37	13.0~13.7	1114	14	987	12.4	334~366	42~46	7.4	-0.11	-0.57	100
	48M	1.35~1.42	13.5~14.2	1114	14	1019	12.8	358~390	45~49	7.4	-0.11	-0.57	100
	50M	1.38~1.44	13.8~14.4	1035	13	1019	12.8	374~406	47~51	7.4	-0.11	-0.57	100
H H系列	42H	1.26~1.33	12.6~13.3	1353	17	955	12.0	310~342	39~43	7.4	-0.11	-0.57	120
	45H	1.30~1.37	13.0~13.7	1353	17	987	12.4	334~366	42~46	7.4	-0.11	-0.57	120
	48H	1.35~1.42	13.5~14.2	1274	16	1019	12.8	358~390	45~49	7.4	-0.11	-0.57	120
SH SH系列	38SH	1.19~1.26	11.9~12.6	1592	20	899	11.3	279~310	35~39	7.4	-0.11	-0.57	150
	40SH	1.23~1.30	12.3~13.0	1592	20	931	11.7	295~326	37~41	7.4	-0.11	-0.57	150
	42SH	1.26~1.33	12.6~13.3	1592	20	955	12.0	310~342	39~43	7.4	-0.11	-0.57	150
	45SH	1.30~1.37	13.0~13.7	1512	19	987	12.4	334~366	42~46	7.4	-0.11	-0.57	150
UH UH系列	35UH	1.14~1.22	11.4~12.2	1990	25	860	10.8	255~287	32~36	7.5	-0.10	-0.47	180
	38UH	1.19~1.26	11.9~12.6	1990	25	899	11.3	279~310	35~39	7.5	-0.10	-0.47	180
	40UH	1.23~1.30	12.3~13.0	1990	25	931	11.7	295~326	37~41	7.5	-0.10	-0.47	180
	42UH	1.26~1.33	12.6~13.3	1910	24	955	12.0	310~342	39~43	7.5	-0.10	-0.47	180
EH EH系列	30EH	1.05~1.13	10.5~11.3	2388	30	796	10.0	215~247	27~31	7.5	-0.09	-0.46	200
	32EH	1.09~1.17	10.9~11.7	2388	30	827	10.4	231~263	29~33	7.5	-0.09	-0.46	200
	35EH	1.14~1.22	11.4~12.2	2388	30	860	10.8	255~287	32~36	7.5	-0.09	-0.46	200
	38EH	1.19~1.26	11.9~12.6	2388	30	899	11.3	279~310	35~39	7.5	-0.09	-0.46	200
	40EH	1.23~1.30	12.3~13.0	2308	29	931	11.7	295~326	37~41	7.5	-0.09	-0.46	200



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