

LARC (LIST AUTHORISED RACKET COVERINGS) N°32B 1 JANUARY 2012 – 30 JUNE 2012

Also available on the Internet: www.ittf.com (Home, Equipment, Racket Coverings)

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The new rubbers entering LARC 32B appear in **bold italics**, whilst other changes appear in **bold**, and both are valid with immediate effect. Dark sponge (black, blue, brown, green, purple, red) should not be used under translucent red coverings (most red coverings are translucent). It is the player's responsibility to use a racket covering which appears bright red, and the use of a dark sponge under a translucent top sheet is likely to make the rubber illegal. Even if racket coverings appear in this LARC without reference to sponge, the Law 2.4.3. governs the use of sponge.

Many racket coverings contain additional text in the rubber mould apart from the brand name and suppliers name and this does not disqualify them from the LARC. However, the brand name given in the LARC must be there (for example, Butterfly Sriver L and Butterfly Sriver S have the addition "D13"). Such texts could be positioned anywhere in the area reserved for the text on the rubber.

How to acknowledge a racket covering from LARC:

1. Make certain that you have the correct LARC (see date of validity, it is published twice a year, in April and October).

Pdf files to be found on our website at all times: www.ittf.com.

2. The supplier and brand names as well as the ITTF logo and eventually ITTF number should be clearly visible on the rubber.

3. These names should appear in the LARC. If in doubt, check the images/pictures on the ITTF web site.

LEGEND

[R] or [B] Indicates that this brand name is available in only red or black respectively.

"Long" Under 'Pimple Type', this is used where the aspect ratio (= pimple height / pimple diameter) is larger than 0.89.

‡ Indicates a version available with a textile reinforcement, intended to be used without sponge.

01) Supplier number, may appear in the rubber mould together with the ITTF logo.



ITTF N°) SUPPLIER		ITTF N°) SUPPLIER		ITTF N°) SUPPLIER		ITTF N°) SUPPLIER	
Brand	Pimple Type	Brand	Pimple Type	Brand	Pimple Type	Brand	Pimple Type
115) 61 SECOND		007 Sensation	Long	Attack 3 Type L	Out	Super Champ	In
001 Wind FT	Long	008 Surprise	Long	Attack 3 Type M	Out	07) AVALOX / AVX	
002 Lightning DS	In	009 Victory	In	Attack 8 Type L	Out	001 Purot	In
003 Thunder LM	In	010 Shot	Out	Attack 8 Type M	Out	002 Sogno	In
01) 999		03) ANDRO		Attack 8 Type M EXX	Out	Athlos	In
"999" is also used as part of a brand name for "CRACK", "GLOBE", "JUIC", "THREE NINE", "XIYING" and "XUSHAOFA".		001 Roxon	In	Conqueror	In	Horme	In
889	Out	002 Roxon 500 Pro	In	Conqueror SS	In	Mo	Long
999 T-2	In	003 Roxon 330	In	Hikari Drive	In	Pronte	In
999 T-3	In	004 Blowfish	Out	Hikari SR7	In	Purot	In
Super 999 T	In	005 Blowfish +	Out	Long Pimple	Out	Sogno	In
105) ADIDAS		006 Chaos	Long	New Anti Spin	Anti	Sterco	In
001 Repulse 500	In	007 Hexer	In	New Chopper	In	08) BANCO	
002 Repulse 700	In	008 Hexer +	In	New Spirit Hi	In	001 Extreme	In
003 P 3	In	009 Revo Fire	In	Red Mark	In	002 Dynamic	In
004 R 4	In	010 Hexer Duro	In	Red Mark Type 1-3	Out	003 Ouragan	In
005 P 5	In	011 Hexer Pips	Out	Red Mark Type 1-4	Out	004 Megaspin	In
006 R 6	In	012 Hexer Pips +	Out	Red Mark Type 1-5	Out	Allstar	In
007 Tenzone	In	013 Sonnentau	In	Rosin	Out	Diva Energie	In
008 Tenzone SF	In	014 Shifter	In	Twister	Long	Dreamfire	In
009 Syntec	In	015 Shifter Powersponge	In	Twister EXT	Out	Excellence	In
010 Syntec SF	In	016 Backside 2.0	In	Vector	In	Feeling	In
011 P 7	In	017 Nightmare	In	W-α Ex x	Out	Furio	In
02) AHUAYI		018 Hexer HD	In	Warrior	In	Futura Energie	In
001 666	In	Backside	In	05) ARTENGO		Impact Energie	Out
106) AIR		Classic	Out	001 930 A	In	Perfect	In
"AIR" is also used as part of a brand name for "JOOLA".		EX - 8	In	003 920 S	In	Puissance	In
001 Scirocco	In	Focus	In	004 950 S	In	Start **	In
002 Panamera	Out	Impuls	In	005 900 C	In	Start ***	In
003 Upupupup	Long	Impuls Speed	In	007 851 O	In	Variation Energy	In
004 Classique	Out	Logo	Out	008 861 O	In	10) BEST	
005 Illumina	In	LP - 22	Long	009 881 O	In	"BEST" is also used as part of a brand name for "NITTAKU".	
89) AMSIR		Plasma	In	010 703 O	In	**	In
002 Fantasy	In	Revolution	In	011 853 O	In	***	In
003 Flutter	Long	Revolution C.O.R.	In	012 863 O	In	12) BOMB	
005 Glory	In	Revolution C.O.R. ²	In	013 883 O	In	001 Oscule	In
006 Luxury	In	Revolution C.O.R Pips	Out	702 O	In	Apex	In
		Revolution Fire	In	930 S	In	Bombard	In
		Revolution Quad	In	06) ATEMI		Hammer	Out
		Rocket	In	Ace	In	King Roc	Out
		Start	In	Advantage	In	Mopha	In
		Trophy	In	Challenge	In		
		Upgrade	In	Debut	In		
		Zenith-G	In	Fight Power	In		
		04) ARMSTRONG		Ippon	In		
		Aka Mark Max	Out				

ITTF N°) SUPPLIER		ITTF N°) SUPPLIER		ITTF N°) SUPPLIER		ITTF N°) SUPPLIER	
Brand	Pimple Type	Brand	Pimple Type	Brand	Pimple Type	Brand	Pimple Type
Raider	In	Stayer	In	99) CTT		Desto F1-S	In
Rex	In	Super Anti	Anti	001 National Pride	In	Desto F2	In
Talent	Long	Super-Srifer	In	002 National Strike	In	Desto F3	In
Tensa	In	Tackifire-C	In	003 National Pogo	Long	Duo	In
Ufo	In	Tackifire-D	In	004 National Hero	In	Easy-Slick	In
Violent	In	Tackifire SP	In	19) DARKER		Gallardo Power Sound	In
14) BUTTERFLY		Tackiness-C	In	Provine	In	Gallardo Sound	In
001 Tenergy 05	In	Tackiness-C II	In	Spalbird	In	Gallardo Speed	In
002 Tenergy 25	In	Tackiness-D	In	Vlon-S	In	J.O. Waldner	In
003 Tenergy 64	In	Tempest	In	20) DAWEI		Liga	In
004 Pan Asia - X	In	Tenergy	In	2008	In	Piranja FD TEC	Long
005 Spinart	In	Wakaba	In	388A	In	Quattro	In
006 Sriver G3	In	West Will	Out	388A-4	In	Quattro A'Conda	In
007 Sriver G3 FX	In	Yuki	In	388A-4	In	Quattro Formula	In
008 Roundell	In	15) CARREFOUR		388C-1	Out	Slice 40	In
009 Tenergy 05 FX	In	Top Life	In	388D	Long	Solo	In
010 Tenergy 25 FX	In	16) CHAMPION		388D-1	Long	Sonex JP	In
011 Tenergy 64 FX	In	"CHAMPION" is used as		Inspirit	In	Sonex JP Gold	In
012 Flarestorm II	Out	part of a brand name for		Saviga	In	Sonex JP Soft	In
013 Addoy	In	"SCHILDKRÖT".		Saviga V	Long	Supersonic	In
014 Wakaba	In	Apache	In	118) DER-		Twingo	In
015 Pan Asia	In	Aragorn	In	MATERIALSPEZIALIST		Twister 40	Out
016 Yuki	In	Cyclops	In	001 Nightmare	Anti	Vari-Slick	In
017 Dignics	In	ElySION	In	21) DONIC		Vario	In
Addoy	In	Hexa	In	001 Coppa JO Platin	In	Vario Cooper S	In
Biriba	In [R]	Iason	In	002 Vario Gold	In	Vario Soft	In
Black	In [B]	Khan	In	003 Alligator Def	Long	22) DONIER	
Bryce	In	Mercury	In	006 Baracuda	In	Black Spin	In
Bryce FX	In	Next	In	007 Coppa Speed	In	Max	In
Bryce Speed	In	Partizan	In	008 Baxster LB	Out	Max Attack	In
Bryce Speed FX	In	Quantum	In	009 Twister LB	Out	SP 2	In
Catapult	In	Spartan	In	010 Vario Big Slam	In	SP 4	In
Cermet	In	Trident	In	011 Acuda S1	In	SP 8	In
Challenger Attack	Out	Trojan	In	012 Acuda S2	In	SP 12	In
Challenger Large	Out	Tron	In	013 Acuda S3	In	Ultimate Fighting	In
D'Or	In	Ulyssis	In	014 Coppa X1	In	Versus	In
Driver	In [R]	17) CORNILLEAU		015 Coppa X2	In	23) DOUBLE FISH	
Ekrips	In	001 ★	In	016 Coppa X3	In	001 A One	In
Feint AG	Long	002 ★★	In	017 Traction HS	In	002 FA 213	In
Feint Long II	Long	003 ★★★	In	018 Traction MS	In	003 FC 218	In
Feint Long III	Long	004 ★★★★	In	019 Waldner Legend	In	004 FS 232	In
Feint-Ox	Long	005 ★★★★★	In	020 Vario Platin	In	005 FL 233	In
Feint-Soft	Long	006 ★★★★★★	In	021 Vario Sound	In	006 8338	In
Flarestorm	Out	007 Performa 1	In	022 Alligator Anti	Anti	007 8484	In
Flextra	In	008 Performa 2	In	023 Anti Classic	Anti	008 1615	Long
Fräulein	In	009 Pilot Advance	In	024 Acuda S1 Turbo	In	009 815	In
Large 44 DX	Out	010 Pilot Power	In	66 GS	In	010 820 A	Out
Lemuria	In	011 Pilot Style	In	77 GS	In	011 830	In
Magnitude	Long	012 Pilot Control	In	★	In	012 Volant	In
Morim	In	013 Drive Style	In	★★	In	013 Volant 2	In
NS 44	Out	014 Drive Control	In	★★★	In	014 Volant 3	In
Orthodox-DX,103	Out	015 Start Up'	In	Akkadi Java	In	815	In
Pan Asia	In	016 Pulse Racer	In	Akkadi K 1	Out	820A	Out
Pecular	Out	017 Pulse Rider	In	Akkadi K 2	Out	830	In
Raystorm	Out	018 Target Ultim	In	Akkadi L 1	Long	1615	Long
Rein	Out	019 Target Sound	In	Akkadi L 2	Long	8338	In
Relop Attack	Long	020 Target Force	In	Akkadi Taichi	In	8484	In
Relop Large	Out	★ ★	In	Alpha-Slick	In	F.A. 213	In
Sapphira	In	★ ★ ★	In	Anti 40	Anti	F.C. 218	In
Selvid	In	★ ★ ★ ★	In	Baxster	Out	F.L. 233	In
Soft	In	★ ★ ★ ★ ★	In	Blues	In	F.S. 232	In
Solcion	In	★ ★ ★ ★ ★ ★	In	Blues F5	In	Volant	In
Speedy-P.O.	Out	★ ★ ★ ★ ★ ★ ★	In	Coppa	In	24) DOUBLE	
Sprier	In	18) CRACK		Coppa JO	In	HAPPINESS / DHS	
Sriver EL	In	999	In	Coppa JO Gold	In	001 Hurricane	In
Sriver FX	In	Master	In	Coppa JO Silver	In	002 Hurricane II	In
Sriver G2	In	SP	In	Coppa Tagora	In	004 PF 4	In
Sriver G2 FX	In	Twister	In	Coppa Tenero	In	005 Skyline II	In
Sriver L	In			Desto F1	In	006 Skyline III	In
Sriver S	In						

ITTF N°) SUPPLIER		ITTF N°) SUPPLIER		ITTF N°) SUPPLIER		ITTF N°) SUPPLIER	
Brand	Pimple Type	Brand	Pimple Type	Brand	Pimple Type	Brand	Pimple Type
008 Memo	In	003 Monster Classic	Long	R.I.T.C. 802	Out	31) GKI	
009 Memo II	In	004 Boomerang Classic	Long	R.I.T.C. 802-1	Out	001 Nano Sting	Long
010 Memo III	In	005 Gorilla	Anti	R.I.T.C. 802-40	Out	002 Euro Chelonz	In
013 6512	In	006 Grizzly	Anti	R.I.T.C. 804	Anti	004 ChelonZ HybridZ	In
014 PF 4-1	In	007 Anti Special	Anti	R.I.T.C. 837	Long	005 HybridZ GX	In
018 G 888	In	008 A - B - S	Anti	R.I.T.C. 2000 Tack-Speed	In	Euro *	In
027 C 8	Long	009 Fighter	Long	Sky-Wing	In	Euro Jumbo	In
028 Cloud & Fog II	Out	010 Inferno Classic	Long	Super 729 FX	In	Euro Spintec	In
040 PF 4 Nittaku	In	011 Desperado	Long	Top Point	In	Euro V	In
041 G 888 Nittaku	In	012 Terminator	Out	28) GAMBLER		Euro XX	In
045 Tin Arc	In	Diamant	Out	001 Wraith	In	Nano Attack	Out
046 Tin Arc II	In	Domination	In	002 Shadow	In	Nano Force	In
047 Tin Arc III	In	Leopard	Out	003 Reflectoid	In	32) GLOBE	
048 Gold Arc	In	Pistol	Out	4 Kings	In	"GLOBE" is also used as part of a brand name for "XUSHAOFA".	
049 Gold Arc II	In	Tornado Ultra	Out	Aces	In		001 Mo Wang
050 Gold Arc III	In	111) DSP.CUP		Outlaw	In	002 Mo Wang II	Long
054 Hurricane 8	In	001 Superwave.AX	In	Peace Keeper	Out	888	Out
055 Hurricane 9	In	107) DUNLOP		Six Shooter	In	889	Out
108 Hurricane III	In	001 Blackstorm Nitro	In	120) GEILI		889-2	Out
651	Out	002 Blackstorm Nemesis	In	003 Quicken	In	979	Long
652	Out	003 Venom Control	In	112) GENOTE		999	In
6512	In	004 Venom Power	In	001 Peak-power	In	999T	In
874	Out	005 Venom Attack	In	29) GEWO		Awala	In
C - 8	Long	006 Venom Spin	In	001 Proton	In	Jinxuanfeng II	In
Cloud & Fog II	Long	007 4D Ultimate	In	002 Stratos	In	Jinxuanfeng III	In
Cloud & Fog III	Long	008 Evolution Max	In	003 Reflexx	In	Liqin	In
Dipper	In	009 Revolution Max	In	004 Thunderball ²	In	Magicwand	In
Dipper II	In	010 Revolution Max II	In	Mega Flex Control	In	Prize	In
Dipper III	In	27) FRIENDSHIP		Nano	In	Taiphoon Gold	In
Dragonow	Out	"FRIENDSHIP" is also used as part of a brand name for "KOKUTAKU", "WINNING".		Target airTEC	In	Tropy	In
G555	In		001 R.I.T.C 729 - 5	In	Target Energy	In	Trump Card
G666	In	002 R.I.T.C. 755 - 2	Long	Viper celltec	In	86) GUO AO	
G666 Nittaku	In	003 Kokutaku New 729-2	In	30) GIANT DRAGON		001 718	In
G777	In	004 R.I.T.C 729 - 08	In	001 Taichi	In	34) GUOQIU	
G888	In	005 729 105	Out	002 Karate	In	001 Gong Fu	In
G888 Nittaku	In	006 729 Battle	In	003 Meteorite	Long	AB	In
Hurricane	In	007 729 Battle II	In	004 Giant Long	Long	FF	In
Hurricane II	In	008 729 Origin	In	005 Allround	In	HB	In
Hurricane III	In	729 Focus	In	006 Guard	Anti	MG	Long
Magican	In	729 Focus II	In	007 Submarine	In	MG II	Long
Magican II	In	729 Focus III	In	008 Topenergy	In	SS	Out
Magican III	In	729 High Point	In	009 Superspin G3	In	90) HAIFU	
Memo	In	729 High Point	In	010 Superspin G4	In	001 Whale	In
Memo II	In	Kokutaku 563 - 1	Out	011 Superveloce V12	In	002 Shark	In
Memo III	In	Kokutaku 729-40 H	In	012 Dragon Talon	Long	003 Penguin	Out
Nittaku C 7	Out	Kokutaku 729-40 S	In	013 Snowflake	Long	004 Dolphin	Out
Nittaku Hurricane II	In	Kokutaku 755	Long	014 Cropcircles	Long	005 Whale III	In
Nittaku Hurricane III	In	Kokutaku 802-40	Out	015 Blast	Out	006 Shark III	In
Nittaku Hurricane Pro II	In	Kokutaku R.I.T.C. 729 SP	In	016 612	Out	007 Pirates 07	In
Nittaku Hurricane Pro III	In	R.I.T.C. 563	Out	017 Attack Long	Long	008 Pirates 08	In
PF 4	In	R.I.T.C. 563-1	Out	018 Commander	In	009 Octopus	Long
PF 4-1	In	R.I.T.C. 729	In	019 Storm	In	010 O. Orca	In
PF 4 Nittaku	In	R.I.T.C. 729-2	In	020 Future	In	011 Otariidae	In
Sharping	Out	R.I.T.C. 729-3	In	021 Soft Anti	In	97) HALEX	
Sharping Nittaku	Out	R.I.T.C. 729-40H	In	022 Peril Anti	In	(no other mark)	In
Skyline	In	R.I.T.C. 729-40S	In	807	In	XR - 3000	In
Skyline II	In	R.I.T.C. 729 Cream	In	8086	In	35) HALLMARK	
Skyline III	In	R.I.T.C. 729 Dr. Evil	Out	8087	In	002 Podium	In
Surpass	In	R.I.T.C. 729 Faster	In	8088	In	003 Friction Super Special	Long
TNT	In	R.I.T.C. 729 GeoSpin	In	8228 A	Out	004 Pheonix	Long
TNT II	In	R.I.T.C. 729 GeoSpin Tacky	In	8228 B	In	005 Friction Special 2	Long
TNT III	In	R.I.T.C. 729 Higher	In	Extsped	In	006 Green Power	In
TNT Nittaku	In	R.I.T.C. 729 SP	In	Maxspin	In	Frustration	Long
25) DOUBLE POWER		R.I.T.C. 729 SST	In	Superspeed	In		
No. 3080	In	R.I.T.C. 755	Long	Superspin	In		
26) DR NEUBAUER		R.I.T.C. 799	Out	Superspin G2	In		
001 Special Defence	In						
002 Goliath	In						

ITTF N°) SUPPLIER		ITTF N°) SUPPLIER		ITTF N°) SUPPLIER		ITTF N°) SUPPLIER	
Brand	Pimple Type	Brand	Pimple Type	Brand	Pimple Type	Brand	Pimple Type
Half Long	Out	Teacher	In	004 Golden Star	In	003 Quasar	In
Magic Pips	Out	Thema	In	005 Magic Powers	Out	004 Quasar MF	In
Mirage	Anti	Topspin	In	102) KTS		Booster EV	Out
Panther	Out	Tramp	In	002 Galaxy	In	Booster SA	Out
Power Spin	In					Charge	In
104) HUARUITE		41) JUIC		46) LION		Charge MF	In
001 Wujilong	In	001 Aircondle	In	001 Roar	In	ChargePro	In
36) IMPERIAL		004 Nanospin	In	002 Claw	Long	HyperZone	In
001 Factor	In	005 Patisuma III	Out	003 Star	In	Plaudit	In
China	In	006 Nano Spin II	In	004 2 Stars	In	Polaris	Out
Crash	In	999	In	005 3 Stars	In	Unison	In
Cyber Tacky	In	999 Élite	In	006 Super 3	In		
Force	In	Anti Super Spin	Anti	007 5 Stars	In	51) NB ENEBE	
Rubber 11 20 one	In	Couga	In [B]	008 Aggressor	In	★	In
Rubber 45 20 one	In	Dany III	In	009 Allrounder	In	★★	In
Super Strike	In	Dany V	In	010 Elite Control	In	★★★	In
Swift	In	DrivaSmash	In	011 Rebirth	Out	Pro	In
38) JAPTEC		DrivaSmash SV	In	2 Stars	In	91) NEOTTEC	
Balance	In	Driva Smash Ultima	In	3 Stars	In	001 Hinomi	In
DL - 01	Long	Leggy R	Long	5 Stars	In	002 Iken	In
Experience	In	Masterspin	Out	Aggressor	In	003 Katana	In
Performance	In	Masterspin II	Out	Allrounder	In	004 Tokkan	Long
Precision	In	NanoCannon	In	Elite Control	In	005 Maxima	In
40) JOOLA		Neo Anti	Anti	International	In	006 Enkei	In
001 Express	In	Offense	Out	Scirocco	In	94) NEXY	
002 Shark	Long	Patisuma	Out	SS 800	In	001 Demian	In
003 Orca	Long	Patisuma II	Out	Star	In	002 Kairos	Out
004 Amy	Anti	PipsAce	Out ≠	Super Attack	In	003 Chaos	Long
005 Express X-Plode	In	Scramble	In	Super 3	In	53) NIMATSU	
006 Express Ultra	Out	Scramble 21	In	Typhoon	In	001 Chimera	In
007 Phénix	In	Shenron	In	XA 900	In	002 Zerberus	Long
008 X-Plode	In	Spark	In	47) LKT		Hurricane	In
009 Brave	In	SpinSpiel	In	001 Rapid Speed	In	Pegasus	In
010 Turbo	In	Varites	In	002 Rapid Power	In	Scorpion	In
011 Samba +	In	42) KETTLER		003 Rapid Sound	In	Spinfighter ★★★	In
012 timeless	Anti	Coach	In	004 Rapid Soft	In	XX5	In
013 Rhyzm	In	Master	In	005 Black Power	In[B]	54) NITTAKU	
4 all	In	Professional	In	006 Red Diamond	In[R]	<p>“NITTAKU” is also used as part of some brand names for “DOUBLE HAPPINESS/DHS”.</p>	
4 You	In	43) KILLERSPIN		Pro XP	In		
air !	In	001 Blast	In	Pro XT	In	001 Moristo RS	In
Anti Topspin Toni Hold	Anti	002 Fortissimo	In	Recoil	In	002 Renanos Bright	In
Badman	Long	003 GT 2	In	Torrent E.G.S.	In	003 Specialist Hibiki	Out
Basic	In	Nitrx-4Z	In	48) METEOR		004 Narucross 44	Out
Compass	In	44) KINSON		575	Out	005 Annsort	In
Drum	In	Perfect	In	71-1	Long	006 Hammond FA Speed	Out
Energy	In	Super Spin	In	71-2	Out	007 Hammond Pro β	In
Energy X-tra	In	45) KOKUTAKU		813	In	008 Renanos BS	In
Fiesta	In	<p>“KOKUTAKU” is also used as part of a brand name for “FRIENDSHIP”.</p>		835	In	009 Renanos Hold	In
GX 75	In		Big Star	In	845	Out	011 Narucross GS
Mambo	In	BLütenkirsche 868	In	8512	Long	012 Learner	In
Mambo C	In	BLütenkirsche 868 Tokyo	In	9012	Long	013 Wallest	Long
Mambo GP	In	Clitter	Out	49) MILKY WAY		015 Fastarc G-1	In
Mambo H	In	Friendship 729 Super	In	001 Apollo	In	016 Fastarc S-1	In
Octopus	Long	Spec-V	In	002 Sun	In	017 Galze	In
orbit ICU	In	Spindle	In	003 Moon	In	018 Royallarge	Out
Peking	In	Synchron	In	955	Long	019 Retora	In
Samba	In	Tuple 007	In	9000	In	020 Flyatt	In
Samba NTec	In	Tuple 007 Taiwan	In	Earth	In	021 Pimple Slide	Out
Smart	In	Tuple 110	Out	Jupiter	In	022 Revspin	In
Smash	In	Tuple 119	Out	Mars	In	023 Jewllarge	Out
Snabb	Out	Tuple 911	Long	Mercury	In	024 P 12	In
Spring Thunder	In	110) KTL		Neptune	Long	Arufeel	In
Staccato	Out	001 Black Power	In [B]	Pluto	Out	Best Anti	Anti
Tango	In	002 Red Diamond	In [R]	Saturn	In	Express	Out
Tango Extrem	In	003 Stranger	Long	Venus	In	Graffiti	In
Tango Ultra	Out			50) MIZUNO		Hammond	In
				001 Charge SS	In		4
				002 Plaudit MF	In		

ITTF N°) SUPPLIER		ITTF N°) SUPPLIER		ITTF N°) SUPPLIER		ITTF N°) SUPPLIER	
Brand	Pimple Type	Brand	Pimple Type	Brand	Pimple Type	Brand	Pimple Type
Hammond FA	Out	57) POINT BLANK		Energy	In	Destroyer	Long
Hammond Pro α	In	Illusion	In	Jade	In	Doer	In
Hammond X	In	One Star	In	Prestige	In	Drive	In
Hi-Super Drive	In	Star	In	Spinmax	In	Energy Absorber	Anti
Japan Original	In	Super Star	In	108) SPINLORD		Evo	In
J.O. Pen	In	Three Star	In	001 Marder	In	Future	In
J.O. Shake	In	Topgun	In	002 Tiger	In	Innova	In
J.O. Waldner	In	Top Star	In	003 Adler	In	Innova Premium	In
J.O. Waldner S.C.	In	Two Star	In	004 Zeitgeist	Long	Innova Ultra Light	In
Magic Carbon	In	58) PRASIDHA		005 Stachelfeuer	Long	Innova Ultra Light Synergy Tech	In
Micro	In	001 Apple	In	006 Dornenglanz	Long	Magic	In
Moristo 2000	In	820	Out	007 Irbis	In	Magna	In
Moristo 44	Out	830	In	93) SPOKEY		Mendo	In
Moristo DF	In	838	In	001 Master	In	Mendo Energy	In
Moristo FG	In	1615	Long	66) SPORTCRAFT		Mendo MP	In
Moristo LP	Long	Action	Out	★★★★	In	Neos	In
Moristo LP One	Long	Frankfurt	In	★★★★★	In	Neos Sound	In
Moristo SP	Out	Hamburg	In	67) STAG		Neos Sound Synergy Tech	In
Narucross	In	Long A	Long	001 Peter Karlsson	In	Neos Synergy Tech	In
Narucross EX	In	Osaka	In	002 Peter Karlsson Training	In	Neos Tacky	In
Narucross tension	In	Speed - F	Out	003 High Tension Explosive	In	Optimum MP	In
Nodias	In	Tokyo	In	004 Championship	In	Premium	In
Pimplemini	Out	Twister 8338	In	005 International	In	Radical	Out
Pimplemini One	Out	60) REACTOR		006 Power Drive Plus	In	Royal	Out
Refoma	In	001 Mirage	Out	007 Official	In	Stream	In
Renanos	In	002 Rafale	Out	008 Peter Karlsson Gen-II	In	Triumph	In
Screw	Long	003 Pioneer	Out	009 Tec	In	69) SUNFLEX	
Screw One	Long	Boaz	In	All Round	In	001 Expert Xonox	In
Specialist Chikara	Out	Ckylin	In	Ninja Attack	In	002 Expert Zeno	In
Specialist One	Out	Corbor	In	Ninja Fire	In	003 Anti Loop	Anti
Specialist Soft	Out	Novar	In	Power Drive	In	AF 50	In
Specialist Soft HS	Out	Sonix	In	Thunder Spin	In	BZ 60	In
Spiral	In	Thunder	In	121) STARWOOD		Mandarin	In
Super Large	Out	Tornado	In	001 Speed	In	Mikado	In
Tracer	In	61) RUCANOR		002 Spin	In	Mogul	In
Universal- Ribbon	In	001 Competition	In	003 Power	In	Samurai	In
Universal- Ribbon	Out	Competition	In	68) STIGA		Shogun	In
55) PALIO		Mogi Ura	In	001 Boost TP	In	Sun-Control	In
001 Macro ERA	In	Orient	In	002 Boost TC	In	Sun-Power	In
002 Conqueror	In	TTB-150	In	003 Boost TS	In	Taipan	In
003 Flying Dragon	Out	87) SAN - EI		004 Boost TX	In	70) SWORD	
004 Power Dragon	Out	001 Taipan	In	005 JMS EVO 1	In	001 Break	In
005 Thor's	In	002 Samurai	In	006 Magna TC II	In	002 Paladin	In
006 Blit'z	In	003 Shogun	In	007 Magna TS II	In	003 Scylla	Long
AK47	In	62) SANWEI		008 Calibra LT	In	005 Maze	In
Amigo	In	001 Target	In	009 Calibra LT Sound	In	006 Nano	In
CJ8000	In	002 Rings Link	In	010 Power LT	In	007 Flute	In
CK531A	Long	003 Gears	In	011 S	In	2000-F	In
Drunken Dragon	In	005 Ghost	Out	012 S1	In	Hero	In
Emperor Dragon	In	006 Code	Long	013 S2	In	King	In
Hadou	In	007 T88 Taiji	In	014 S3	In	RG	In
Hidden Dragon	In	008 T88	In	015 S4	In	72) TECNOPRO	
HK1997	In	009 T88 - I	In	016 S5	In	Competition	In
Macro	In	010 T88 - II	In	017 Calibra LT Plus	In	Expert	In
Macro Pro	In	011 T88 - III	In	018 Calibra LT Spin	In	Supercom	In
Maximo	In	113) SAVIGA		019 Magna TX	In	Tournament	In
Wildish Dragon	In	"SAVIGA" is also used		Almana	In	73) THREE NINE	
WP1013	Out	as part of a brand name		Almana Sound	In	999 T-1	In
56) PEACE		for "GAMBLER".		Almana Sound Synergy Tech	In	127) THREE SWORD	
001 LGO 44	Out	001 Turbo	In	Carbo	In	001 Gallop	In
C'oma	In	002 Fantasy	Long	Carbo MC	In	002 Prompt	In
Leo	In	63) SCHILDKRÖT		Carbo Sound	In	003 Leap	In
Nova	In	Avantgarde ★★★	In	China Extreme	In	74) TIBHAR	
Vela	In	Champion ★★★★★	In	Chop & Drive	In	001 Sinus	In
		Elite	In	Clippa	Out	002 Grass Flex	Out
				Cobra 2000	In	003 Grass Ultra	Long

ITTF N°) SUPPLIER		ITTF N°) SUPPLIER		ITTF N°) SUPPLIER		ITTF N°) SUPPLIER	
Brand	Pimple Type	Brand	Pimple Type	Brand	Pimple Type	Brand	Pimple Type
004 Primus	In	Bolt	In	124) WILSON		999 Yang	In
005 Genius	In	Brio	In	003 Hammer 3.0	<i>In</i>	999 ZCD	In
006 Nianmor	In	Cesalo	In	109) WIN		Globe 999	In
007 Aurus	In	Curl P-1 R	Long	001 Spear	In	82) YAPING	
008 Grip - S	In	Curl P-2	Out	002 Aegis	In	139	In
009 Genius +	In	Curl P-3	Long	003 Axe	In	83) YASAKA	
010 Mythik	Long	Curl P-3α R	Long	004 Bow	In	001 Pryde	In
011 Karisma	In	Cut Man	In	78) WINNING		002 Pryde 30	In
012 Evolution FX - P	In	D-Top	In	738 Super	In	003 Xtend LB	Out
013 Evolution MX - P	In	Giant	In	Friendship 729 Super TSS	In	004 Cadet	In
014 Grip - S Europe	In	Hiyaku	In	King Power Komann	In	005 Marvelous	Out
015 1Q	In	L Catcher	Out	Komann	In	006 Pryde 40	In
Black Techno	In [B]	Milli Tall II	Out	Komann Super Fit	In	007 Rakza 7	In
Bungee	In	Miracle	Out	NP - 1	Out	008 Rakza 9	In
Dang	In	Miracle Super	Out	NP - 2	Out	009 Rakza 7 Soft	In
Ellen	Anti	Real	In	NP - 6	Out	010 Rakza 9 Soft	In
Extra Long	Long ‡	Spectol	Out	NP - 8	Out	011 Mark V HPS	In
Grass	Long	Summit	In	79) XIOM		012 Mark V HPS Soft	In
Grass D. TecS	Long	Super Spinpips	Out	001 Sigma	In	013 Rakza PO	Out
Learn Cont	In	Tarbit	In	002 Zeta	In	Anti Power	In
Learn Spin	In	Tation	In	003 Omega IV	In	A-1-2 A-1	Out
Legend	In	T - Rex	In	004 Flamenco	In	A-1-2 A-2	Out
Makss	In	Triple	In	005 Sigma I	In	Cobalt α	Out
Nimbus	In	Tyranno	Out	006 Sigma II	In	Cobalt X1	Out
Norm	In	U Q	In	007 Sigma III	In	Cobalt X2	Out
Phantom	In	X's	In	008 Vega Europe	In	Extreme Speed	In
Rapid	In	X's F-1	In	009 Vega Asia	In	Fusion	In
Rapid D. TecS	In	X's F-1 V	In	010 Sigma I Japan Special	In	Large Pro	Out
Rapid Soft	In	126) TTATOZ		011 Zava 1	Out	Mark V	In
Rapid X-Press	In	001 TTATOZ Spin	<i>In</i>	012 Vega Pro	In	Mark V AD	In
Rookie D. TecS	In	002 TTATOZ Speed	<i>In</i>	013 Vega Elite	In	Mark V GPS	In
Samurai	In	003 TTATOZ 44	<i>Out</i>	014 Tau I	In	Mark V M ²	In
Serie 2000	In	004 TTATOZ Out	<i>Out</i>	015 Tau II	In	Mark V XS	In
Speedy S/L	In	005 TTATOZ Long	<i>Out</i>	016 Tau III	In	New Era	In
Speedy Soft	Out	006 TTATOZ Basic	<i>In</i>	017 Omega IV Pro	In	Original	In
Speedy Soft D. TecS	Out	007 TTATOZ Power	<i>In</i>	018 Omega IV Asia	In	Original	Out
Speedy Spin	In	96) TUTTLE		019 Omega IV Europe	In	Original A-1	Out
Speedy Spin Premium	In	001 Beijing	In	020 Omega IV Elite	In	Original A-2	Out
Standard	In	002 World No. 1	In	023 Vega China VH	In	Original Extra	In
Storm	In	003 AAA	In	024 Vega China VM	In	PB-1	Out
Super Defense 40	In	004 LV	In	025 Zava II	Out	Phantom 007	Long
Torpedo	In	005 888	In	026 Sigma I Pro	In	Phantom 008	Long
Vari Spin	In	006 Spring - 3B	In	027 Sigma I Europe	In	Phantom 009	Long
Vari Spin D. TecS	In	007 Summer - 3C	Out	Guillotine - S	Long	Phantom 0011 ∞	Long
Volcano	In	008 Autumn - 3D	Long	Max - Leverage	In	Phantom 0012 ∞	Long
		009 Winter - 3E	Out	Omega I	In	Top 12	In
75) TONI HOLD		119) UNOAMI		Omega II	In	Vision	In
"TONI HOLD" is also used as part of a brand name for "JOOLA".		001 Hanma	In	Omega III	In	V Stage	In
Anti Topspin New 40 Anti		85) V 3 TEC		Pro - Exclusive	In	Wallie	In
76) TSP		001 Spin Attack X3	In	Pro - Z	In	Xtend	In
001 Curl P-H	Long	002 Fast Control S1	In	Styx - SP	Out	Xtend HS	In
003 Deus	In	003 Power Drive Y5	In	True - Innovation	In	Xtend PO	Out
004 Grandy	In	123) VALOR		Yanus - DF	In	Zap	In
005 Agrit	In	001 Premier	<i>Out</i>	80) XIYING		84) YASHIMA	
006 Agrit Speed	In	117) VICTAS		001 999 Sharing Limbo	<i>In</i>	Competition XR3000	In
007 Rise	In	001 VO - 101	Out	889	Out	Go Sport XR3000	In
008 Rise Speed	In	002 VLB - 301	Out	979	Long	Go Sport XX5	In
009 Curl P-4	<i>Long</i>	003 VS - 401	In	999	In	Upper Spin	
730	In	004 VS - 402	In	81) XUSHAOFA		Competition XR7	In
Actor	In	005 VO - 102	Out	999	In	XX3	In
Barri - Up	In			999 LSZ	In	XX-5	In
Bjorn	In						



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