



上海金东
下海金东



数据电缆全套生产设备
Complete Equipment of Data Cable

SPL型 数据电缆拉丝-实心绝缘串列生产线 Wire Drawing / Solid Insulation Tandem Line for Data Cable

适用范围: 5e, 6, 6A 类数据电缆实心绝缘线芯
Suitable for Data cable Cat.5e, 6 and 6A (solid insulation)



拉丝-退火-预热一体机, 退火及预热温度随速度自动跟踪, 采用德国整流装置。
Integrated wire drawing machine with continuous annealer and pre-heater.
Automatic speed synchronization for annealing / pre-heating temperature.



高质量螺杆及套筒, 保证出胶均衡, 线性良好。
Extruders are equipped with high quality screw and barrel
to ensure homogeneous output with good linearity.

技术参数 TECHNICAL PARAMETERS

型号 Type	SPL 2000-2S (全能高速型)	SPL 1500-3S (经济型)
导体直径 Inlet diameter	0.30 ~ 0.90 mm (美规26-19号)	0.30 ~ 0.90 mm (美规26-19号)
铜线进线直径 dia. of conductor	2.6 (3.0) mm	2.6 (3.0) mm
绝缘种类 insulating material	PE彩皮或彩条实心绝缘线芯 color skin or color strip solid PE insulation	PE彩皮或彩条实心绝缘线芯 color skin or color strip solid PE insulation
最高机器线速 max. line speed	2000 m/min	1500 m/min
绝缘线芯质量指标 Tolerance of insulated wire		
a) 铜线外径偏差 dia. of Cu. conductor	± 0.001 mm	± 0.001 mm
b) 绝缘外径偏差 dia. of insulated wire	± 0.005 mm	± 0.005 mm
c) 同心度 concentricity	≥ 0.95	≥ 0.95
冷却装置 cooling device	总冷却长度90米, 全不锈钢结构 Total cooling length 90 m	总冷却长度70米, 全不锈钢结构 Total cooling length 70 m
双盘自动收线装置 Automatic double spooler	ASPS 500型 全自动双盘收线 Type ASPS-500 for 500 spool. Full automatic 自动换盘, 自动上下及进出盘	ASPS 500/3型 自动双盘收线 Type SPS 500/3 for 500 spools Automatic 自动换盘, 上下盘及气动进出盘
在线控制 Online control	2000系列监控处理系统, 17英寸液晶显示屏, 3个测量接口: 铜线外径, 绝缘外径, 电容 2000 series processing, monitoring and control system with 17 inch LED display. (3 I/O for conductor dia., dia. of insulation X-Y, Capacitance)	



SKS不仅为您提供高品质的全套数据缆生产设备 (5e至8类)
并为您提供完整和成熟的生产工艺

SKS can supply the high quality equipment for complete plant for Data Cable (Cat. 5e to 8)
production, but also provide the complete proven know-how

SPL 2000-2S (全能高速型)



计算机化电控及瑞士仲巴赫在线控制系统
Computerized electric control and In-line control (Zumbach)



多道回线冷却牵引轮
Multi-pass cooling capstan



ASPS 500型 全自动双盘收线装置
Full automatic Double spooler

SPL 1500-3S (经济型)



瑞士高精度双履共挤定心色条/色皮机头
Swiss high accuracy centered cross-head for color skin or stripping



3S线用电控及瑞士仲巴赫在线控制系统
Electric control and In-line control (Zumbach) for Line 3S



3S线用SPS 500/3型 自动双盘收线装置
Automatic Double spooler for Line 3S

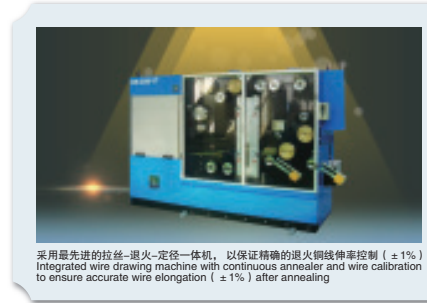


SFS 1200/3G型 拉丝-皮泡皮绝缘串列生产线 SFS 1200-3G Wire Drawing / SFS Insulation Tandem Line

适用于: 6A/7/7A/8类缆皮泡皮绝缘, 至兆兆(10GHz)高速数据电缆皮泡皮绝缘, HDMI线皮泡皮绝缘及小型宽带同轴电缆。
Suitable for Data cable Cat. 6A/7/7A/8 (SFS insulation), SFS insulation for high speed data cable up to 10 GHz,
SFS insulation for HDMI wire and Broadband Mini-coaxial cables

技术参数 TECHNICAL PARAMETERS

最大进线 Max. Entry Diameter	2.6(硬) / 3.0(软) mm
出线直径范围 Finish Diameter	0.30 ~ 0.90 mm
最大绝缘外径 Max. Diameter over insulation	3.0 mm
绝缘形式 Type of insulation	PE 皮泡皮三层共挤 PE skin-foam-skin
最高机器线速 Max. Line speed	1500 m/min
绝缘外径最大平均偏差 Max. Tolerance over insulation	± 0.01 mm (绝缘厚度 < 0.3 mm), ± 1% (绝缘厚度 > 0.3 mm)
水中电容最大平均偏差 Water capacitance	± 1 ~ 1.5 pF/m
同心度 Concentricity	> 96 ~ 98%
发泡度范围 Foaming degree	35 ~ 70%
双盘自动收线 Automatic Dual spooler	500 线盘全自动双盘收线及换盘 Full automatic dual spooler for 500 spools with spool change
电控及在线控制 Electric Control and in line control	全线工控机控制, 15英寸薄膜功能键式及彩色液晶屏。在线控制: 铜丝直径, 绝缘外径, 电容, 偏心, 发泡度, C/D综合处理智能控制 Computerized control for whole line. 15" touch screen monitor. In-line Control: Cu wire diameter, Diameter of insulation, Capacitance, Eccentricity, Foaming degree, Automatic C-D control.



采用最先进的拉丝-退火-定径一体机, 以保证精确的退火铜线伸率控制 (±1%)
Integrated wire drawing machine with continuous annealer and wire calibration
to ensure accurate wire elongation (±1%) after annealing



主挤出机采用国际最先进的注气发泡螺杆(最新设计), 以达到出胶及发泡均匀
Main extruder is equipped with most advanced screw for gas injection to ensure
uniform output and foaming.



特殊设计的计算机化电控及瑞士伸巴赫最新在线控制系统, 包括C-D综合智能
控制及FFT在线频谱分析仪, 以保证工艺高度稳定
Computerized electric control and latest design in-line control (Zumbach) with
intelligent C-D control and FFT system to ensure high stabilized process.



内皮及外皮挤出机采用变频电机及矢量控制, 以使内外薄皮厚度十分稳定
Frequency inverter vector control motors are used for inner and outer layer extrusion
to ensure very uniform thin layers.



欧洲高精度氮气加压注气系统及精密气针, 以产生微细均匀气泡
Europe high accuracy nitrogen injection system and precision injection nozzle
to ensure uniform micro foaming

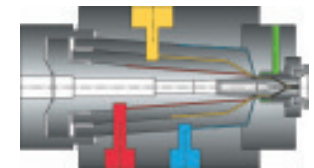


专用的导体高频预热装置及预热控制, 确保最佳的导体粘附力
Special high frequency preheating system for conductor and preheating control
to ensure best adhesion of conductor.

瑞士原装微米调节定心皮泡皮三层共挤机头
Swiss 3 layer SFS co-extrusion fix center cross-head with micro-adjustment



用作微米调节定心三层共挤机头时
Used for 3 layer SFS co-extrusion fix center cross-head with micro-adjustment



用作皮泡皮加色条定心三层共挤机头时
Used for 3 layer SFS co-extrusion fix center cross-head with color stripping

PTB 500型 卧式退扭绞对机

PTB 500 Horizontal Pair Twisting Machine with backtwist

适用于数据电缆5e, 6类 For Cat. 5e, 6 Data Cable



技术参数 TECHNICAL PARAMETERS

芯线导体直径 Diameter of conductor	0.40 - 0.65 mm
最大芯线绝缘外径 Max dia. over insulation	1.40 mm
最大绞合外径 Max dia. of twisted pair	2.80 mm
节距范围 Lay range	10 ~ 30 mm 每档0.5 mm, 特殊要求可定制 Each step 0.5 mm, special pitch on request
退扭范围 Range of backtwist	0 ~ 50% 任意可调 adjustable
绞合速度 Twisting speed	400 ~ 4500 T/min
最大线速度 max. line speed	150 m/min
收放线盘尺寸 Spool sizes of Take-up & Pay-off	Φ500 x Φ250 x 300 x Φ56 mm (盘径 x 筒径 x 外宽 x 轴孔) (fla. x barrel x OW x bore)

绞合节距稳定, 精度高

High accuracy and stabilized twisting pitch

收线张力恒定, 在线可调

Constant winding tension, adjustable during running

操作方便, 噪音低

Easy operation, Low noise

生产效益高

High production output

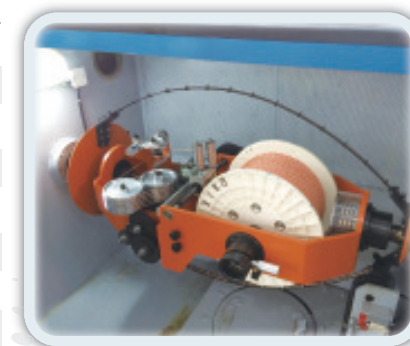
PTB 500-B型 高精度卧式退扭绞对机

PTB 500-B High Accuracy Horizontal Pair Twisting Machine with backtwist

适用于数据电缆5e, 6, 6A, 7, 7A, 8类 For Cat. 5e, 6, 6A, 7, 7A, 8 Data Cable

技术参数 TECHNICAL PARAMETERS

芯线导体直径 Diameter of conductor	0.40 - 0.65 mm
最大芯线绝缘外径 Max dia. over insulation	1.40 mm
最大绞合外径 Max dia. of twisted pair	2.80 mm
节距范围 Lay range	10 ~ 30 mm 每档0.5 mm, 特殊要求可定制 Each step 0.5 mm, special pitch on request
退扭范围 Range of backtwist	0 ~ 50% 任意可调 adjustable
绞合速度 Twisting speed	400 ~ 5200 T/min
最大线速度 max. line speed	150 m/min
收放线盘尺 Spool sizes of Take-up & Pay-off	Φ500 x Φ250 x 300 x Φ56 mm (盘径 x 筒径 x 外宽 x 轴孔) (fla. x barrel x OW x bore)



PTB 500-V 立式退扭绞对机

PTB 500-V Vertical Pair Twisting Machine with backtwist

适用于数据电缆5e, 6类 For Cat. 5e, 6 Data Cable



CT 800/4型 四对双扭成缆生产线

CT 800/4 Double Twist Cabling Line

适用于数据电缆5e, 6, 6A类数据电缆实心绝缘对线成缆
 For Cat, 5e, 6, 6A Data Cable (solid insulation)



800 四对单扭成缆生产线

800 Single Twist Cabling Line

CTS 800型 适用于6, 6A类UTP 数据电缆 For Cat.6, 6A UTP type Data cable
 CTS 800-S型 适用于6, 6A, 7, 7A类SFTP / FTP 数据电缆, 带对线屏蔽 For Cat. 6, 6A, 7, 7A SFTP / FTP type Data cable with shielding of pairs
 CTS 800-BS型 适用于7A, 8类SFTP 数据电缆, 退扭放线 For Cat. 7A, 8 SFTP / FTP type Data cable with backtwist pay-off

■ 技术特征 TECHNICAL FEATURES

- ◆ 旋转牵引装置, 可精确控制线速度和成缆节距。
Rotating pulling capstan outside the cabler gives precise master control of line speed and lay synchronization
- ◆ 绞合节距由电子数码控制, 节距长度精确
Lay length is accurately controlled by digital control
- ◆ 在成缆过程中, 可将四对线之间的十字形骨架插入, 并能进行精确的张力控制
Xtype separator between the pairs is inserted during the cabling process with precise tension control
- ◆ 四对包带装置将屏蔽带重叠包覆在每一线对上, 包带张力自动控制, 保证包带均匀光滑
The shielding tape is covered on each pair with overlap by the 4 pair tape applicator, automatic tension control of each tape to ensure uniform smooth covering
- ◆ 采用人机对话互动操作站, 主要工作参数可在此设定和显示
Man-machine interactive operator's workstation for set-up and display of main operating parameters

■ 技术参数 TECHNICAL PARAMETERS

成缆芯数:	6A / 7 / 8类缆四对成缆	Cable core to be produced:	For 4 pairs cable Cat. 6A / 7 / 8
对线外径:	1.80 - 3.6 mm	Diameter of paired wires:	1.80 to 3.6 mm
最大成缆外径:	8.0 mm	max.diameter after cabling:	8.0 mm
成缆节距范围:	80 - 300 mm (电子控制)	Lay length	80 to 300 mm (electronic control)
成缆绞合方向:	左绞和右绞	Twisting direction:	LH or RH
旋转叉最大转速:	800 转 / 分	max. speed of rotating fork:	800 rpm
最大成缆线速:	150 米 / 分	Max. line speed:	150 m / min
放线盘尺寸:	500 × 250 × 300 (盘径×筒径×外宽)	Pay-off spool dimensions:	500 × 250 × 300 (flange × barrel × OW)
收线盘尺寸:	800 × 400 × 600 或 630 × 315 × 475 (盘径×筒径×外宽)	Take-up spool dimensions:	800 × 400 × 600 or 630 × 315 × 475 (flange × barrel × OW)

■ 技术参数 TECHNICAL PARAMETERS

绝缘对线外径	1.80 - 3.0 mm	Diameter of wire pair :	1.80 - 3.0 mm
成缆对数	4 对	Cable core to be produced:	4 pairs
成缆最大外径	6.0 mm	Max diameter after cabling:	6.0 mm
绞合节距范围	80 - 120 mm (变换齿轮)	Lay range:	80 - 120 mm (by change gears)
最大扭绞速度	1200 扭/分	Max. twisting speed:	1200 twists per minute
最大出线速度	150 m/min	Max. line speed:	150 m/min
放线盘尺寸	500 × 250 × 300 × 56 mm (外径×筒径×外宽×轴孔)	Pay-off spool dimensions:	500 × 250 × 300 × 56 mm (flange dia. × barrel × OW × bore)
收线盘尺寸	800 × 400 × 600 × 80 mm (外径×筒径×外宽)	Take-up spool dimensions:	800 × 400 × 600 × 80 mm (flange dia. × barrel × OW × bore)



CT 1000/25型 单扭成缆生产线

CT 1000/25 Single Twist Cabling Line

适用范围：4对至25对各种数据电缆，200对及以下的的数据缆及宽带通信电缆的子单位绞合，控制电缆及特种电缆的成缆
 Suitable for the cabling of various Data cables with 4 to 25 pairs, unit stranding of Data cables or Broadband Telecommunication cables up to 200 pairs, cabling of control cables and specials cables



技术特征 TECHNICAL FEATURES

- ◆ 八盘500/630主动放线架，由单独调频交流电机驱动，由张力摆杆控制同步，张力均匀。
Eight 500/630 Pay-off bobbins driven by independent AC motors controlled by dancers.
- ◆ 7头分色扎纱装置，伺服电机驱动（选用件）
Thread binding station for colour separation of subunits (max.7) with servo-motor drive (option)
- ◆ 两台斜包带装置，将屏蔽带包复于子单元或缆芯上。
Two longitudinal tape units for applying screen tapes on sub-unit or overall screening of the cable core.
- ◆ 旋转牵引装置，可精确控制线速度和成缆节距。
Rotating pulling capstan outside the cabler gives precise master control of line speed and lay synchronization.
- ◆ 采用人机对话互动操作站（触摸屏显示），主要工作参数可在此显示。
Man-machine interactive Operator's Workstation (touch screen type) for set-up and display of main operating parameters.

技术参数 TECHNICAL PARAMETERS

成缆芯数	Cable core to be produced	5e类缆4-25对成缆；6/6A/7类缆4对成缆 For 4 to 25 pairs cable Cat. 5e, 4 pairs cable Cat. 6/6A/7
最大成缆外径	Max. diameter after cabling	12 mm
成缆节距范围	Lay length	80 to 300 mm 可根据客户要求选定 (other ranges upon request)
绞弓最大转速	Max. speed of rotating fork	500 rpm
最大成缆线速	Max. line speed	150 m / min
放线盘尺寸	Pay-off spool dimensions	500 x 250 x 300 DIN 46395 盘径 x 筒径 x 外宽 or 630 x 315 x 475 DIN 46395 (flange dia.x barrel x overall width)
收线盘尺寸	Take-up spool dimensions	1000 x 500 x 750 DIN 46395 盘径 x 筒径 x 外宽 or 630 x 315 x 475 DIN 46395 (flange dia.x barrel x overall width)

SJ 65-25型 护套挤出生产线

SJ 65-25 Sheathing Extrusion Line

适用范围：各种数据电缆及轻型电缆的护套包覆
 Suitable for the sheathing of various Data cables and light cables



选用件 Options:

1. 尺码及标记喷印装置 Equipped with Jet printer for meter counting and marking
2. 可带FTP数据缆用屏蔽带包覆装置及放带装置 Longitudinal tape covering device with pay-off for FTP Data cables

技术参数 TECHNICAL PARAMETERS

大缆芯外径	Max. dia. of cable core:	10 mm
最大电缆成品外径	Max. dia. of finished cable:	12 mm
护套材料	Sheathing materials:	聚氯乙烯，聚乙烯，阻燃聚合物等 PVC, PE, HFFR
最大线速	Max. line speed:	150 m/min
放线盘	Pay-off reel:	800 x 400 x 600 mm (盘径 x 筒径 x 外宽)，或1000 x 500 x 750 线盘 800 x 400 x 600 mm (Flange x Barrel x OW) or 1000 x 500 x 750 reel
收线盘	Take-up reel:	1000 x 500 x 750 mm (盘径 x 筒径 x 外宽) 1000 x 500 x 750 mm (Flange x Barrel x OW)





BW 500型 数据电缆匣式成圈机 BW 500 Coiling Machine for Data Cable

适用于数据电缆5e, 6类 For Cat. 5e, 6 Data Cables



技术参数

成圈线径	1.8 ~ 8.0 mm (软线缆)
成圈内径	150 ~ 250 mm
成圈外径	最大 500 mm
成圈长度	100 ~ 305 m
成圈主轴转速	最大 250 rpm (无级调速)
成圈电机	伺服电机
放线盘尺寸	1000 × 500 × 750 mm (外径×筒径×外宽)

TECHNICAL PARAMETERS

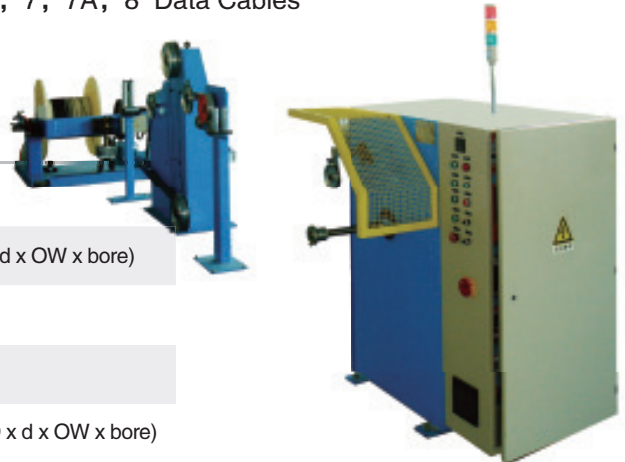
Cable diameter:	1.8 ~ 8.0 mm (flexible cable)
Inner diameter of coil :	150 ~ 250 mm
Outer diameter of coil:	max. 500 mm
Coiling length:	100 ~ 305 m
Coiling speed:	max. 250 rpm (stepless adjustable)
Coiling motor:	Servo-motor
Pay-off reel dimensions:	1000 × 500 × 750 mm (flange dia. x barrel x OW)

BW 400型 数据电缆成盘机 BW 400 Spooling Machine for Data Cables

适用于数据电缆 6A, 7, 7A, 8 类 For Cat. 6A, 7, 7A, 8 Data Cables

技术参数 TECHNICAL PARAMETERS

成盘线径 Cable diameter:	Ø1.8 ~ 8.0 mm
成盘尺寸 Take-up spool dimensions:	Ø300 × Ø100 × 220 × Ø30 (D × d × OW × bore)
成盘长度 spooling length:	100 ~ 305 m (305 ~ 1000 ft)
成盘最大转速 max. rotating speed of Take-up	400 rpm
放线盘尺寸 Pay-off reel dimensions:	Ø1000 × Ø500 × 750 × Ø125 (D × d × OW × bore)





上海金东线缆设备有限公司
SHANGHAI KINGSTONE CABLE & EQUIPMENT CO., LTD.

上海市浦东新区沪南公路4955号
No. 4955 Hunan Road, Pudong Shanghai P.R. China
邮编 / PC: 201317
Tel: +86 (21) 5814 5191 Fax: +86 (21) 5814 3355
E-mail: sks58@sohu.com
<http://www.chinasks.com>
