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CENTER
CIRCLE
INDUSTRIAL CO., LTD.

About Center Circle

Center Circle Industrial Co., LTD. was founded in 1984.

Beome the largest circular knitting machine sinker supplier in Taiwan.

Specialized in high quality and long lifespan knitting parts.

Spreading our services worldwide with our agencies over 30 countries.

We would like to be your close partners providing not only high quality products, but also our experience and skills from design to production.

中環針紡五金製品廠創立于1984年，是台灣最大的紡織機零件供應商。

致力於生產高品質、高壽命的產品。提供全世界的顧客最優質的服務。

我們希望為您最佳的夥伴，不僅提供高品質的產品，也提供我們從設計到生產的經驗和技能。

中环针纺五金制品厂创立于1984年年，是台湾最大的纺织机零件供应商。

致力于生产高品质，高寿命的产品。提供全世界的顾客最优质的服务。

我们希望为您最佳的伙伴，不仅提供高品质的产品，也提供我们从设计到生产的经验和技能。



Commitment

Best Quality 最佳品質
Reliable Service 最佳服務
Fast Delivery 迅速交期

Product range

Sinker 新克片/沉降片
Insert 插片
Pelerine 伯利連桿
Half needle 哈夫針
Selection pattern jack 提花片/齒版/花車針腳
Knitting machine parts 紡織零件
Customized parts 客製化零件



Features 特點

Center Circle dedicates in preserving researches, improving technologies, and testing materials. Our sinkers have longer lifespan than average, which contributes less replacement and higher productivity to customers.

中環致力於研發、精進技術、材料，出產之新克片壽命高於市場平均，減少耗損替換率，並提高生產力。

Nylon, elastic yarn user?

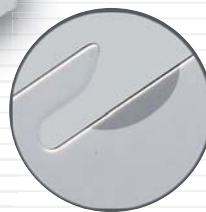
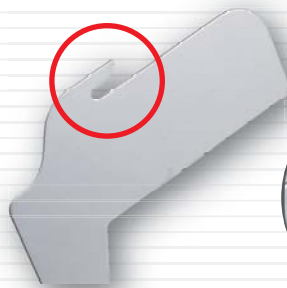
The Comparison of Yarn against Sinkers

Foy	Moderate	FDY, POY, HOY, DTY
Polyester Staple Fiber	Moderate	SPUN, T/C, CVC, T/R
Nylon	Extreme ★	Nylon 6, Nylon 66
Spandex	Extreme ★	Spandex, Lycra



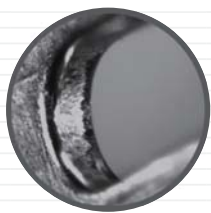
Wore sinker

- Disadvantage:
- Shutdown
 - Fabric loss
 - Frequent sinker replacement
 - Decrease on productivity



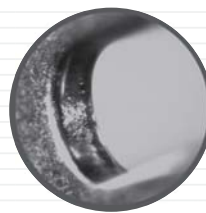
Partial Hardening ★

- More durable
- Reduced friction
- Rare replacement
- Increase on productivity
- Long lifespan



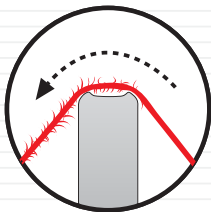
Traditional technology

- Disadvantage
- Slightly rounded edges
 - Stamping surface still exist
 - Rough yarn and loop formation

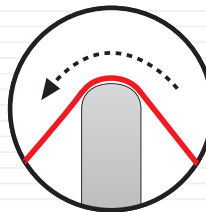


Advanced Technology ★

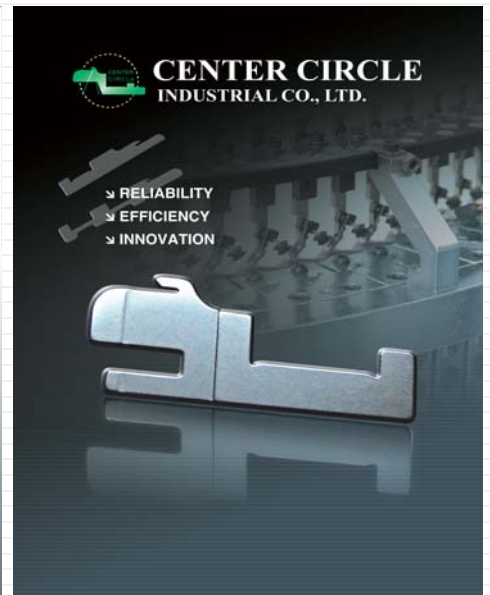
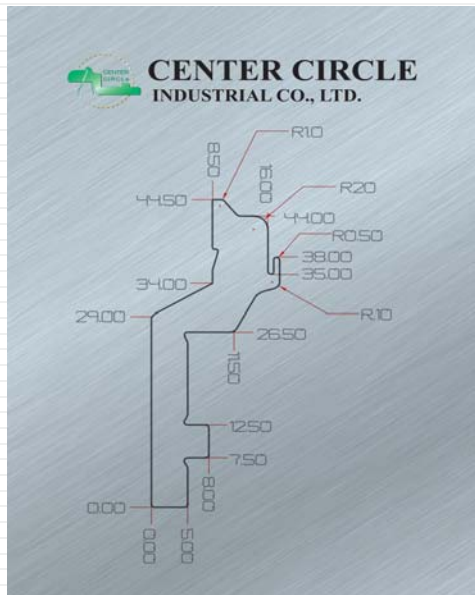
- Perfect deburring technology
- Fully rounded edges
- Removed stamping surface
- Extremely smooth and highly polished
- Precision of dimensions
- Perfect yarn and loop formation



Demonstration of Yarn against Sinker under Traditional technology



Demonstration of Yarn against Sinker under Advanced technology



Inspection 檢驗

To ensure all products meet the best quality, a series of inspections had been set up during and after the production.

為維持產品最高品質，所有產品都經過一系列嚴格標準檢驗。



Profile Projector 光學投影機

- >> The profile projector is the most commonly used machine. It projects to precise size of sinkers in a very short time.
- >> 此設備為一般最長使用之儀器，協助快速取得新克片精密尺寸。

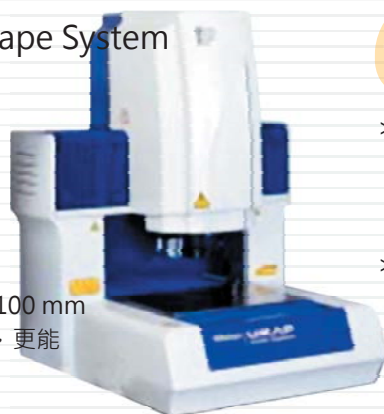


Vickers Hardness Tester 維克式硬度計

- >> When sinkers are too hard or too soft, it may cause the over attrition of cams and sinkers. Vicker tester is to maintain the hardness in the standards.
- >> 過軟或過硬的新克片，會造成三角及新克片的過渡磨損，因此我們的產品皆通過測試，確保達到標準值。

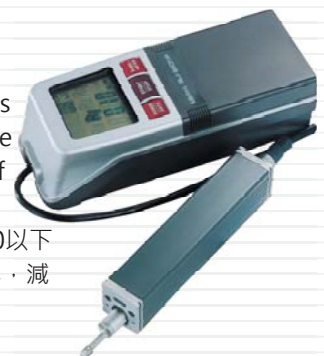
Measurement of Detailed Shape System 微細形狀量測系統

- >> This system will efficiently keep the tolerance of product size within 1/100 mm, especially to get the best precision for the tiny throat of sinkers.
- >> 此系統能有效將產品的尺寸確保在 1/100 mm 公差值內，尤其在新克片微小的喉部，更能達到最佳的精確度。



Surftest 表面粗度測定機

- >> Surftest is to ensure the Rz is below 1.0, which reduces the attrition and replacement of sinkers.
- >> 用以確保表面粗度(Rz)達到1.0以下之標準，此標準能使磨損更小，減少更換新克片。



FUKAHAMA



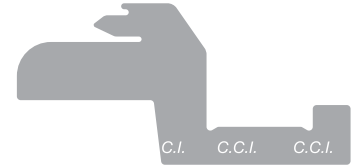
A-269

0.20 mm
0.25 mm



A-269P

0.20 mm
0.25 mm



FKH-FLK-B5

0.25 mm
0.28 mm
0.30 mm

FUKUHARA MONARCH



A-269

0.15-0.25 mm	E28-32
0.20 mm	E26-32
0.25 mm	E24
0.15-0.30 mm	E16-24



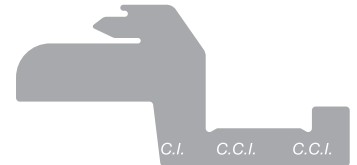
A-427

0.15-0.25 mm	E28-32
0.20 mm	E26-32
0.25 mm	E24
0.15-0.30 mm	E16-24



B-388LA

0.20 mm	E26-32
0.25 mm	E16-24



FKH-FLK-B5

0.20 mm	E26-28
0.25 mm	E18-24
0.30 mm	E16



ST-8912

0.20 mm	E26-28
0.25 mm	E16-24



SL-5784

0.20 mm	E26-28
0.25 mm	E18-24

JIUNN LONG



JS-001B

0.15-0.25 mm	E24-32
0.25 mm	E18-24
0.15-0.30 mm	E18-22



JS-003

0.20 mm
0.25 mm



JX-951213

0.15-0.25 mm	E24-32
0.25 mm	E18-24
0.15-0.30 mm	E18-22



JL-015-AR-2.9

0.25 mm	E24-28
0.30 mm	E20-24



VP-A06-LOP28-T25

0.25 mm	E20-28
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VP-A02-LOP28-B

0.20-0.30 mm	E18-28
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A-269

0.15-0.25 mm
0.20 mm
0.25 mm



FKH-FLK-B5

0.28 mm
0.30 mm



ST-22AD

0.15-0.25 mm
0.15-0.30 mm
0.20-0.30 mm



KY-WH-000SP8

0.20-0.35 mm	E26-28
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KY-WV-03402A

0.20-0.35 mm	E26-28
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KY-SKP1-J400

0.25-0.45 mm	E20-24
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KY-WH-000SP7

0.25-0.45 mm	E20-24
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KY-WV-03402B

0.25-0.45 mm	E20-24
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206000221

0.44 mm	28G
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206080101

0.44 mm	28G
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206000070

0.44 mm	28G
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206000218

0.50 mm	24G
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206085101

0.50 mm	24G
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206000080

0.50 mm	24G
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206000480

0.20 mm	E26-32
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206000661

0.30-0.40 mm	E16-24
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EL-PA

0.20 mm	E26-32
0.30-0.40 mm	E17-24



F43000008

0.20 mm	E28-36
0.25 mm	E17-26



MAYER-FLK

0.25 mm	E26-30
0.30-0.40 mm	E17-24
0.40 mm	E13-16



MAYER-N

0.20 mm	E26-30
0.30-0.40mm	E17-24
0.40 mm	E12-16



A-269

0.20 mm

0.15-0.25 mm

0.25 mm



ST-22AD

0.15-0.25 mm

0.15-0.30 mm

0.20-0.30 mm



ST-22AD-U

0.15-0.25 mm

0.15-0.30 mm

0.20-0.30 mm



ST-22AD

0.15-0.25 mm

0.15-0.30 mm



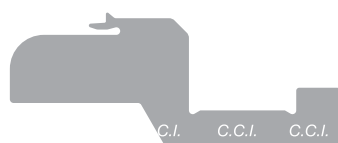
PL-EB

0.20-0.30 mm



PL-TS

0.15-0.30 mm



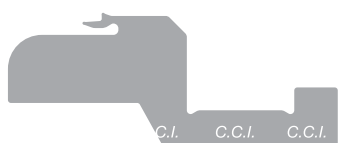
FA-002-H2.2

0.20 mm

E28

0.25 mm

E16-E22



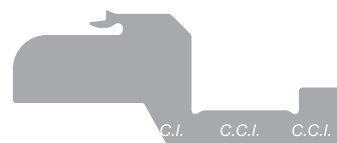
FA-002-H2.5

0.20 mm

E28

0.25 mm

E16-E22



FA-002-H3.1

0.20 mm

E28

0.25 mm

E16-E22



F46000002

0.20 mm

E24-28

0.25 mm

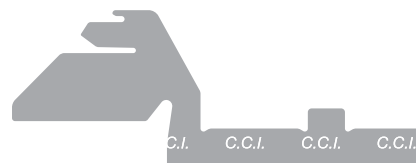
E16-22



F46000006

0.20 mm

E24-28



F46000018-L

0.20 mm

E24-28

0.25 mm

E16-22



OR-002-305N

0.20 mm

E24-28

0.25 mm

E16-22



OR-002-392N

0.20 mm

E24-28

0.20-0.40 mm

E24-28

0.25 mm

E16-22



OR-002-641N

0.20 mm

E24-28

0.20-0.40 mm

E24-28

0.25 mm

E16-22

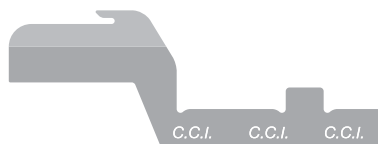


ED30-3108-00-014

0.25-0.40 mm

ED30-3108-0-015

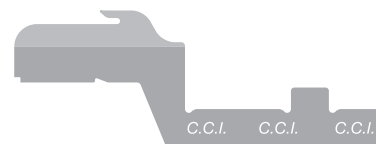
0.20-0.35 mm



I630-3108-00-009

0.20-0.30 mm

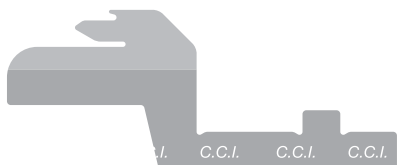
E14-28



PL-EB-A

0.20-0.30 mm

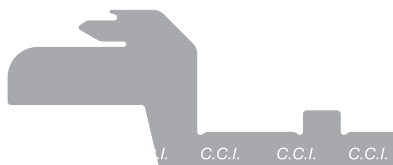
E14-28



PL-FLP

0.20-0.30 mm

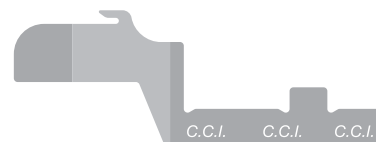
E14-24



PL-F3LP

0.30 mm

E18-24



PL-CB

0.15-0.25 mm

0.15-0.30 mm



PL-XSP-H2.2

0.20-0.30 mm

E14-28



PL-FPB-H2.0

0.20-0.30 mm

E14-28



PL-FSPB1-H2.2

0.20-0.30 mm

E14-28



PI-JVC-40104-H

0.20 mm

E24-34

0.25 mm

E14-22



PI-JVC-40105

0.20 mm

E24-34

0.25 mm

E14-22



PI-JVC-40377

0.20 mm

E24-30



A-269

0.20 mm

0.15-0.25 mm

0.25 mm



ST-22

0.15-0.25 mm

0.15-0.30 mm



ST-22AD

0.15-0.25 mm

0.15-0.30 mm

0.20-0.30 mm

SUN DA



EL-PA-FLK

0.30-0.40 mm E16-28



ST-22

0.15-0.25 mm E26
0.15-0.30 mm



ST-22AD

0.15-0.25 mm
0.15-0.30 mm



SD-EL-PAS-U

0.15-0.25 mm E20-28
0.20-0.30 mm E20-28
0.30 mm E14-18



SD-SL-005

0.15-0.25 mm E24-28



SD-2,2N

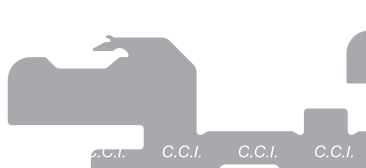
0.25 mm E20-24

SHIN TA



ST-22

0.15-0.25 mm
0.15-0.30 mm



STG4-B-2.6

0.25 mm



STM2-2.3G

0.25 mm

TERROT



TE-S00-354008

0.20-0.30 mm E26-36
0.25-0.30 mm E20-24



TE-S00-354008-C2

0.20-0.30 mm E26-36
0.25-0.30 mm E20-24



TE-S01-354036-C2

0.20-0.30 mm E26-36
0.25-0.30 mm E20-24



TE-S02-351208

0.20-0.35 mm E26-28
0.25-0.45 mm E20-24



TE-S00-351238

0.20-0.36 mm E26-28
0.25-0.45 mm E20-24



TE-S00-351413 (F45000015)

0.25-0.45 mm E20-24



TY-1207-C

0.15-0.30 mm



TY-071207-D4

0.20-0.30 mm



TY-071207-E6

0.15-0.25 mm

0.15-0.30 mm



W14B04

0.20-0.30 mm

E22-24

0.30 mm

E18-20



W14B07A

0.15-0.30 mm

E30-36

0.20-0.30 mm

E24-28

0.30 mm

E18-20



W14B07AB

0.15-0.30 mm

E30-36

0.20-0.30 mm

E24-28

0.30 mm

E18-20



VA-S933-000

0.20 mm

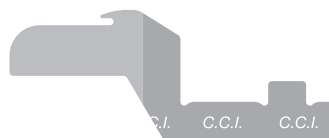
E26-28

0.25-0.50 mm

E16-24

0.25 mm

E16-24



VA-S933-420

0.20 mm

E26-28

0.20-0.40 mm

E26-28

0.25 mm

E16-24



VA-S934-000

0.20 mm

E26-28

0.25 mm

E16-24



VI-302-005346

0.20-0.34 mm

E24-28

0.25 mm

E14-22



VI-302-005346-C2

0.20-0.34 mm

E24-28

0.25 mm

E14-22



VI-5P3-001310

0.25 mm

E16-22



ST-22A7-U

0.15-0.25 mm

0.15-0.30 mm



ST-22AD-U

0.15-0.25 mm

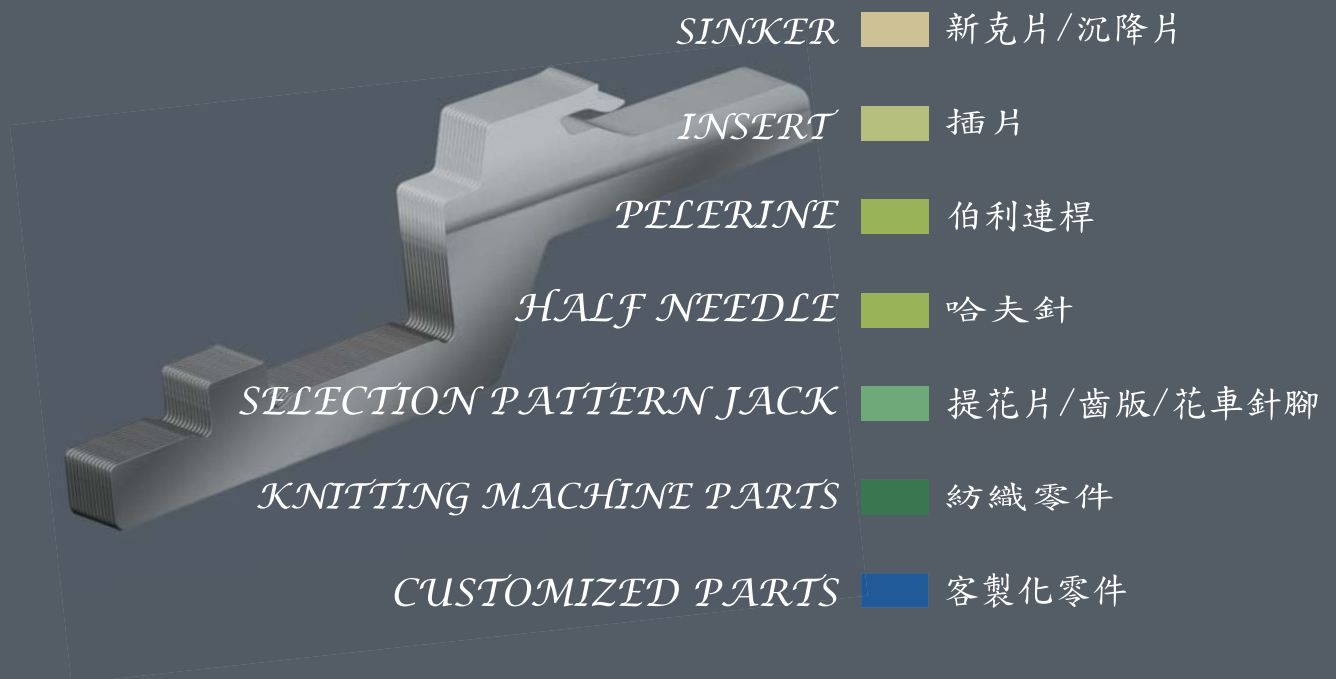
0.15-0.30 mm



ST-22HLB-U

0.15-0.25 mm

0.15-0.30 mm



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