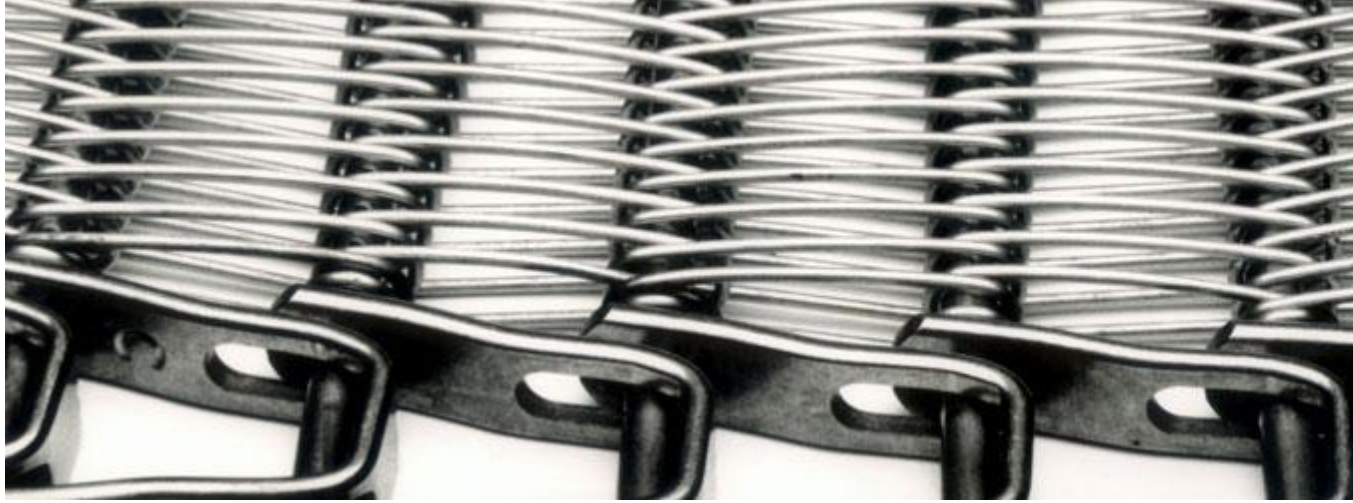


# grid belts



适合螺旋笼架系统的传送带

- 可折叠，因而易于清洗
- 保护产品质量和损失
- 仅有线材或配有网眼覆盖的可供使用

螺旋式®金属传送带是我们最受欢迎的应用 - 可修改螺旋笼架系统的传送带。

在全世界，在螺旋笼架系统中它们都得到了证明，允许平稳，能够年复一年地可靠使用。

凭借其正传送链轮驱动，螺旋式金属线传送带提供了光滑持续的产品流，它的温和处理适合易碎或精致产品。它们通过保护产品质量和减少浪费节约金钱。

可以完全折叠，因而易于清洗，标准（2.2）半径，减少（1.7）半径和紧密（1.1）半径的设计可供螺旋式金属传送带使用。它能用双节距覆盖，或塑料填充棒或条来制造以支持非常小的产品。

## 仅有线材的结构

仅有线材的结构提供了最大的空气流通，使这些螺旋式传送带成为面包房里炊具，检验台和冰箱的理想选择。他们也适合于其他应用，例如肉和家禽的大块冷冻，要求最小产品支撑的托盘或包装。

## 网眼覆盖

当需要产品支撑或较小开口时，添加与传送带重合的平衡针织网眼。要保持灵活，同时为特定应用采用螺旋式金属线传送带，例如冷冻软面皮产品，烤冻牛肉饼，冻鱼条和其他加工产品。

**关键行业:** 食品加工

**核心应用:** 炊具传送带，检验台传送带和冰箱传送带。

## 标准半径规格

带节距:	¾"或1" (19.1 MM 或 25.4 MM)
链接:	¾"节距标准负载或重载，1"节距标准负载或重载。
传送带带宽范围:	12"到48" (305MM 到1,219 MM 整体) ... 请联系我们获取其他可用宽度。
传送带转弯半径:	2.2倍带宽(公称) ... 特殊链接可供超大半径使用。
材料:	T-304不锈钢全部 - 配有弹簧回火网眼 ... T-316不锈钢或高碳钢也可用于线材和网眼... 退火网眼覆盖。
MESH OVERLAY:	14-18轨距线径可用于标准网眼覆盖... 规格可用于适应多种产品和应用需要，例如用于气流的开口的更紧密的网眼。
特殊结构:	¾"或1"节距标准侧板可用。

## 螺旋式传送带链轮齿 (Conveyor Belting Sprockets)

链轮齿名称	节距直径		底部直径		HUB 长度		内径	链轮齿厚度		大约重量
	IN	MM	IN	MM	IN	MM	IN	IN	MM	LBS

1" 节距传送带的 CAM-GRID® 链轮齿

	2.898	73.6	2.43	61.7	1.0	25.4	3/4 OR 1.0	1.0	25.4	1.2	0.5
	5.938	150.8	5.50	139.7	1.5	38.1	1 - 4	1.5	38.1	2.0	0.9

节距带的 CAM-GRID®链轮齿

	3.172	80.6	2.625	66.7	1.0	25.4	3/4 OR 1.0	1.0	25.4	1.3	0.5
	4.410	112.0	3.850	097.8	2.0	50.8	1.0 - 3.0	2.0	50.8	0.7	0.3
	6.117	155.4	5.617	142.7	2.0	50.8	1.0 - 4.0	2.0	50.8	1.6	0.7
	7.875	200.0	7.368	187.1	2.0	50.8	1.0 - 4.0	2.0	50.8	2.9	1.3

## 减少半径规格\*

BELT PITCH:	1" (25.4 MM) 公称
传送带转弯半径:	1.7 到 2.2倍带宽 (公称内转弯半径)
特殊结构:	完整侧板/链接可用于产品保持

\*不锈钢或碳钢可用于链轮齿。 \*\*UHMW 和不锈钢可用。

## 标准半径螺旋笼架传送带

螺旋式传送带的转弯半径由链接嵌套于转弯处内侧的能力以及金属传送带的宽度决定。因为槽长度决定嵌套量并且为固定尺寸，最小转弯半径变成带宽的一个因素。对于标准半径的传送带，公称内衬半径为带宽的2.2倍。

## 紧密半径螺旋笼架传送带

螺旋式紧密半径传送带配置有一个 ¾" 节距重载不可折叠链接的内部行，它能在转弯时承受驱动张力。这一行链接，位于以转弯半径为基础的位置，提供了两个同样宽度的带线路，同时允许一个带宽1.1倍的紧密转弯半径的存在。

张力轴承的内链接能够被移动去调整带转弯半径，然而，螺旋式紧密半径传送带应当只操作对带宽和驱动链接位置相符的半径。

紧密半径传送带的内缘是标准 $\frac{3}{4}$ " 节距链接, 而用于外缘的1" 节距链接允许额外伸展。

## 用于螺旋式金属传送带的张力范围

带类型	边缘结构	总容许拉力			
		直线运行申请		转弯或螺旋申请	
		LBS	KG	LBS	KG
<b>径</b>					
节距或1" 节距	标准负载链接	200	90.7	100	45.4
	$\frac{3}{4}$ " 重载链接 (A)	200	90.7	150	68.1
	1" 重载链接	300	136.1	150	68.1
<b>径</b>					
距	标准负载链接	200	90.7	100	45.4
	重载链接	200	90.7	150	68.1
<b>径</b>					
节距	重载链接 (B)	200	90.7	150	68.1

(a)  $\frac{3}{4}$ " 重载链接不可折叠并且仅用于传送带外缘。

(b) 重载链接位于传送带的中心承载部分, 而不是外缘。

## 紧密半径规格\*

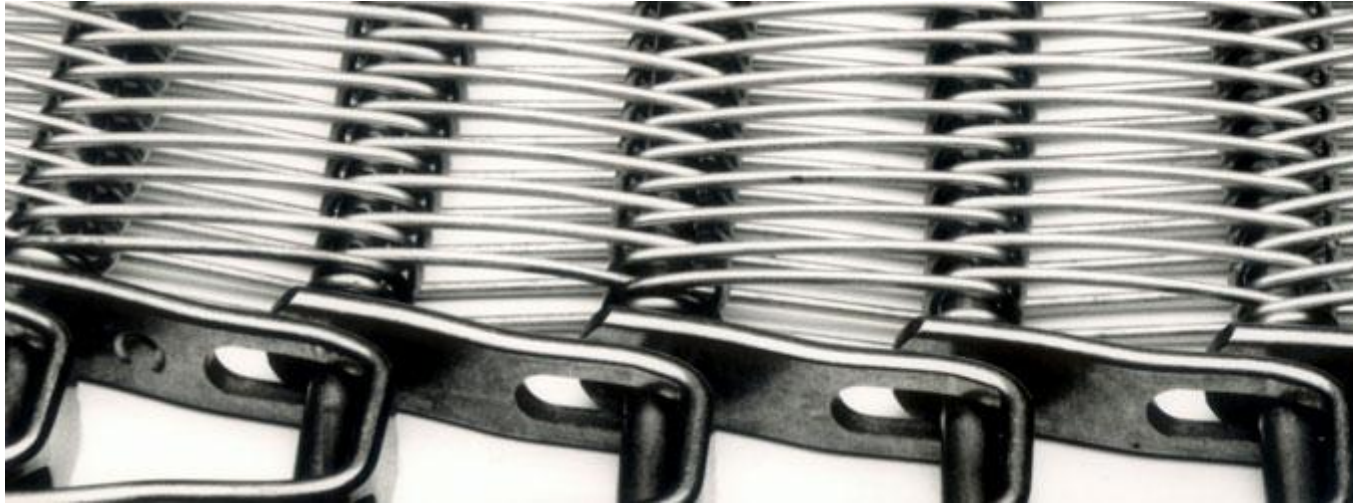
BELT PITCH:	$\frac{3}{4}$ " (19.1 MM)
带宽范围:	12"到48" (305 MM X 1,219 MM) ... 根据应用, 能够获得更宽的带宽。
带转弯半径:	1.1到1.7倍带宽 (公称内转弯半径) 当张力承载链接位于带中心)。 联系我们 获得关于其他转
传动链轮齿:	只位于带内部和中心链接。
特殊结构:	完整侧板/链接仅用于外部带边缘。

## 减少半径规格\*

带节距:	1" (25.4 MM) 公称
带转弯半径:	1.7到2.2倍带宽 (公称内转弯半径)

**\*注释:** 除非另有注明, 所有其他规格与螺旋式标准半径传送带相同。

## GRID BELTS



Adaptable conveyor belts for spiral cage systems

- Collapsible for easy cleaning
- Protects product quality and loss
- Available as rods-only or with a mesh overlay
- Metal Grid belts are our most popular application - adaptable spiral cage systems conveyor belts. They've proven themselves in spiral cage system applications throughout the world, running smoothly and dependably year after year.

With their positive conveyor sprocket drive, Metal Grid belts provide a smooth, continuous product flow that is gentle with fragile or delicate products. They save money by protecting product quality and reducing waste.

Fully collapsible for easy cleaning, C Metal Grid belts are available in standard (2.2) radius, reduced (1.7) radius, and tight (1.1) radius designs. It can be manufactured with a double pitch overlay, or with plastic filler rods or strips for supporting extremely small products.

## Rods-Only Construction

A rods-only construction provides maximum air circulation, making these Metal Grid belts ideal for cookers, proofers and freezers in bakeries. They are also suitable for other applications such as freezing of larger cuts of meat and poultry, and products in trays or packages where minimal product support is required.

## Mesh Overlay

When product support or smaller openings are needed, a balanced weave mesh overlay to the conveyor belt is added. Flexibility is maintained, while adapting the Metal Grid belts for a particular application such as freezing soft dough products, beef patties, fish sticks, and other prepared products.

**Key industries:** Food Processing

**Key applications:** Cooker belts, Proofer belt, Freezer belt

## Standard Radius Specifications

BELT PITCH:	¾" OR 1" (19.1 MM OR 25.4 MM)
LINKS:	¾" PITCH STANDARD DUTY OR HEAVY DUTY, 1" PITCH STANDARD DUTY OR HEAVY DUTY
CONVEYOR BELT WIDTH RANGE:	12" TO 48" (305MM TO 1,219 MM OVERALL) ... CONTACT US FOR OTHER AVAILABLE WIDTHS

CONVEYOR BELT TURNING RADIUS:	2.2 X BELT WIDTH (NOMINAL) ... SPECIAL LINKS ALSO AVAILABLE FOR OVERSIZED RAD
MATERIALS:	T-304 STAINLESS STEEL THROUGHOUT - WITH SPRING-TEMPERED MESH ... RODS AVAILABLE IN T-316 STAINLESS STEEL OR HIGH CARBON STEEL ... MESH OVERLAYS A ANNEALED STAINLESS STEEL.
MESH OVERLAY:	STANDARD MESH OVERLAYS AVAILABLE IN 14 - 18 GAUGE MESH WIRE SIZES ... SPE AVAILABLE TO FIT A VARIETY OF PRODUCT AND APPLICATIONS NEEDS, SUCH AS OR AIRFLOW OR TIGHTER MESHES FOR PRODUCT SUPPORT.
SPECIAL CONSTRUCTIONS:	STANDARD SIDE PLATES AVAILABLE FOR ¾" OR 1" PITCH.

## Reduced Radius Specifications\*

BELT PITCH:	1" (25.4 MM) NOMINAL
BELT TURNING RADIUS:	1.7 TO 2.2 X BELT WIDTH (NOMINAL INSIDE TURNING RADIUS)
SPECIAL CONSTRUCTIONS:	INTEGRAL SIDE PLATES/LINKS AVAILABLE FOR PRODUCT RETENTION.

\*Sprockets are available in stainless steel or carbon steel. \*\*Available in UHMW and stainless steel.

## Tight Radius Spiral Cage Belts

Metal Grid Tight Radius belts are available in Standard Duty and Heavy Duty configurations. With a tight turning radius of 1.1 x the belt width, these belts help you achieve maximum product throughput with a minimal footprint.

## Tight Radius Specifications - Standard Duty\*

BELT PITCH:	¾" (19.1 MM)
BELT WIDTH RANGE:	12" TO 48" (305 MM X 1,219 MM) ... WIDER WIDTHS AVAILABLE DEPENDING ON APPLICA
BELT TURNING RADIUS:	1.1 TO 1.7 X BELT WIDTH (NOMINAL INSIDE TURNING RADIUS WHEN TENSION-BEA LOCATED IN THE CENTER OF THE BELT). CONTACT US FOR APPLICATIONS INVOLV RADII.

DRIVE SPROCKETS:	LOCATED ON THE BELT' S INNER AND CENTER LINKS ONLY.
SPECIAL CONSTRUCTIONS:	INTEGRAL SIDE PLATE/LINKS AVAILABLE FOR OUTER BELT EDGE ONLY.

## Tight Radius Specifications - Heavy Duty

BELT PITCH:	1" (25.4 MM)
LINKS:	INNER: STANDARD COLLAPSIBLE 1" PITCH - 1/2" X .105" (12.7 MM X 2.7 MM) CENTER: HEAVY DUTY NON-COLLAPSING 1" PITCH - 7/16" X .105" (11.1 MM X 2.7 MM) OUTER: STANDARD COLLAPSIBLE 1.33" PITCH - 1/2" X .105" (12.7 MM X 2.7 MM)
BELT TURNING RADIUS:	NOMINAL INSIDE TURNING RADIUS IS 1.1 X BELT WIDTH
EFFECTIVE BELT CARRYING SURFACE:	4.0" (101.6 MM) LESS THAN THE OVERALL BELT WIDTH
BELT WIDTH RANGE:	12" TO 48" (305 MM TO 1,219 MM)
MESH OVERLAY:	STANDARD MESH OVERLAYS AVAILABLE IN 14 - 18 GAUGE MESH WIRE SIZES ... SPE AVAILABLE TO FIT A VARIETY OF PRODUCT AND APPLICATIONS NEEDS, SUCH AS OF AIRFLOW OR TIGHTER MESHES FOR PRODUCT SUPPORT.
SPECIAL CONSTRUCTIONS:	ONLY STANDARD CONSTRUCTION CURRENTLY AVAILABLE
SPROCKETS:	USES STANDARD SPROCKETS FOR 1" PITCH CAM-GRID BELTS (18E AND 23E ONLY) DRIVE SPROCKETS ARE LOCATED ONLY ON THE INNER AND CENTER LINKS OF THIS BE
TENSION LIMITS:	HEAVY DUTY LINK 500 LBS. (226.8 KG) STRAIGHT RUN 250 LBS. (113.4 KG) TURN OR SP HEAVY DUTY LINKS ARE LOCATED IN THE CENTER LOAD-BEARING SECTION OF THE E OUTER EDGE

## Tension Limits for Cam-Grid® Metal Conveyor Belts

TYPE OF BELT	EDGE CONSTRUCTION	TOTAL ALLOWABLE TENSION			
		STRAIGHT RUNNING APPLICATION		TURN OR SPIRAL APPLICATION	
		LBS	KG	LBS	KG
<b>STANDARD RADIUS</b>					
PITCH OR 1" PITCH	STANDARD DUTY LINK	200	90.7	100	45.4
	3/4" HEAVY DUTY LINK (A)	200	90.7	150	68.1
	1" HEAVY DUTY LINK	300	136.1	150	68.1



TURNING RADIUS					
TURNING RADIUS	STANDARD DUTY LINK	200	90.7	100	45.4
	HEAVY DUTY LINK	200	90.7	150	68.1
TURNING RADIUS					
PITCH	HEAVY DUTY LINK (B)	200	90.7	150	68.1
TURNING RADIUS	1.33 HEAVY DUTY LINK	500	226.8	250	113.4

(a) 3/4" Heavy Duty link is non-collapsing and is used only on outside edge of the conveyor belt.

(b) Heavy Duty Links are located in the center load-bearing section of the belt, not on the outer edge.

## Metal Grid Belting Sprockets

PITCH/SPROCKET DESIGNATION	PITCH DIA.		BOTTOM DIA.		HUB LENGTH		BORE SIZE	SPROCKET THICKNESS		APPROX. WEIGHT
	IN	MM	IN	MM	IN	MM	IN	IN	MM	LBS

### STANDARD RADIUS SPROCKETS FOR 3/4" PITCH BELTS

	2.898	73.6	2.43	61.7	1.0	25.4	3/4 OR 1.0	1.0	25.4	1.2
	5.938	150.8	5.50	139.7	1.5	38.1	1 - 4	1.5	38.1	2.0

### STANDARD RADIUS SPROCKETS FOR 1" PITCH BELTS

	3.172	80.6	2.625	66.7	1.0	25.4	3/4 OR 1.0	1.0	25.4	1.3
	4.410	112.0	3.850	97.8	2.0	50.8	1.0 - 3.0	2.0	50.8	0.7
	6.117	155.4	5.617	142.7	2.0	50.8	1.0 - 4.0	2.0	50.8	1.6
	7.875	200.0	7.368	187.1	2.0	50.8	1.0 - 4.0	2.0	50.8	2.9

## Standard Radius Spiral Cage Belts

The turning radius of a Metal Grid belt is determined by the ability of the links to nest on the inside edge of the turn and by the width of the metal conveyor belt. Since the slot length determines the amount of nesting and is a fixed dimension, the minimum turning radius becomes a factor of belt width. For a

standard radius Metal Grid belt, the nominal inside belt radius is 2.2 x the belt width.