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**FLYING
CUT-OFF**

01 COMPANY PROFILE

企业简介

Your partner to improve productivity.

石家庄腾迪机械设备有限公司位于河北省会石家庄，是一家集设计研发、生产销售和服务于一体的高新技术企业，成立伊始，一直致力于为全球客户提供可靠的产品和服务。公司通过了ISO9001认证。腾迪的主要产品有ERW焊管生产线、带钢卷纵剪线、横切线等，产品通过了CE认证、SGS认证。

腾迪拥有一支稳固、强大的技术团队。工程师30余人，高级工程师6人。技术团队遵循公司自主创新的先进理念，优化吸收了机械制造业之精华，同时借鉴国外先进技术，设计了一系列操作简单、维护方便的生产线。为客户实现了低投资，高收益的梦想。

经过多年的发展，腾迪团队积累了丰富的谈判经验，能够及时准确地了解投资者的具体需求，并利用腾迪的综合实力来满足投资者的多样化需求。因此，腾迪赢得了用户的一致好评，并逐渐成长为全球客户的重要供应商。

腾迪实施国际化战略，在海外设立了三个办事处，服务于中东、东欧、南美等50个国家和地区的客户。产品广泛应用于石油管道、钢结构、低压流体、汽车、家具等行业。

在未来发展中，腾迪将继续以“今天的质量，明天的市场”为宗旨，打造腾迪机械知名品牌形象。让世界热爱中国造！

Shijiazhuang Tengdi Machinery Trading Co., Ltd., located in Shijiazhuang, the capital of Hebei Province, is a high-tech enterprise integrating design, research, production, sale and service and is committed to providing reliable products and service to global customers since the first of day of incorporation. Having been certified by ISO9001, TENGDI supplies ERW pipe mill, slitting line, and cut to length line, which have passed the certification of CE and SGS.

There is a stable and strong technical team, including 30 engineers and 6 senior engineers. Following the concept of independent innovation, the team has optimized and absorbed the essence of China's machinery manufacturing industry, while referring to advanced foreign technologies to design a series of production lines with simple operation and convenient maintenance, which will help our customers to realize the dream of low investment and high return.

During the past years, TENGDI team has accumulated rich experience in negotiation, and can timely and accurately understand the specific needs of investors. We can also rely on our comprehensive capabilities to meet the diversified needs of investors. As a result, TENGDI has won unanimous praise from clients, and has gradually grown into an important supplier for global customers.

Following the international strategy, TENGDI has set up three overseas offices serving customers in 50 countries and regions in Middle East, Eastern Europe and South America. The products are widely used in oil pipeline, steel structure, low-pressure fluid, automobiles and furniture.

In the future, TENGDI will adhere to the tenet that "today's quality is tomorrow's market" to cultivate the famous brand of TENGDI MACHINERY so that the world will love what is made in China.



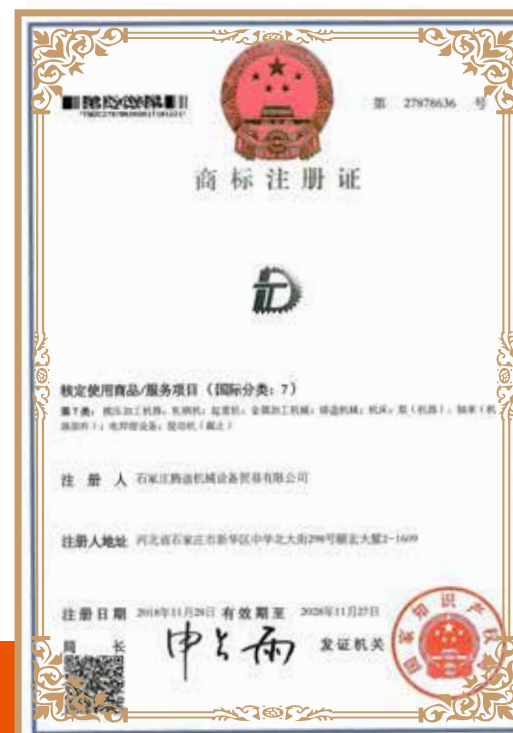
02 ENTERPRISE QUALIFICATION

企业资质



荣誉源于用心。
 每一份认可的资质证书都是凝聚我们奋力拼搏的结晶，每一份荣誉都是一个路标，一次历程。
 我们也将以每次荣誉为起点，不断锐意进取，超越自我。
 团队自主研发获得20多项专利，通过ISO9001质量管理体系认证，环境管理体系认证。

Honor comes from hard work.
 Each recognized qualification certificate is the crystallization of our hard work, and each honor is a signpost and a journey.
 We will also take each honor as a starting point, and continue to forge ahead and surpass ourselves.
 The team independently developed and obtained more than 20 patents, passed ISO9001 quality management system certification and environmental management system certification.



03 FLYING SAW CLASSIFICATION

飞锯分类

Flying sawing machine is an indispensable component of the longitudinal welded pipe production line. Its function is to automatically cut various shapes of pipes at high speed according to customer requirements.

Flying saws for welded pipe equipment generally fall into the following categories: hot-cut saws, cold-cut saws, and milling saws.

锯切飞锯机是直缝焊管生产线不可缺少的组成设备,它的功能是将高速行进中的各种形状的管材按照客户要求自动精度定尺锯切。

焊管设备飞锯一般有几个分类:热切锯、冷切锯、铣切锯。



热切锯



冷切锯



铣切锯

ADVANTAGES

Low Noise: Reduce noise by means of isolation and attraction.

High sizing accuracy: the sizing error is less than 5mm, generally $6000 \pm 2\text{mm}$.

Small sawing burrs: profiling guide sleeves are added to the entrance and exit, and installed close to the saw blade to ensure that the steel pipe will not deviate during sawing, and the saw blade will not shift when sawing

Do not scratch steel pipe ports. This significantly reduces burrs on the hot saw.

Fast speed: Servo tracking has a short starting distance and fast tracking speed.

Good stability: The wheels are installed externally, with good stability and convenient maintenance.

Communication interface can be added to facilitate data transmission and monitoring. It adopts Kinco or Kunlun Tongtai touch screen, leaving a communication interface to facilitate the transmission of various data.

优势特点

低噪声：采用隔离和吸引方式降低噪声。

定尺精度高：定尺误差小于5MM,一般 $6000 \pm 2\text{MM}$ 。

锯切毛刺小：对入口和出口加仿形导向套，近锯片安装，保证在锯切时钢管不会偏移，抬锯时锯片。不刮蹭钢管端口，由此大幅度减少热锯的毛刺。

速度快：伺服跟踪起车距离短，跟踪速度快。

稳定性好：车轮外置安装，稳定性好，维修方便。

可增加通讯接口，方便数据传送和监控。采用步科或昆仑通泰触摸屏，留通讯接口，方便传送各种数据。

03 HOT SAW 热锯



HOT SAW

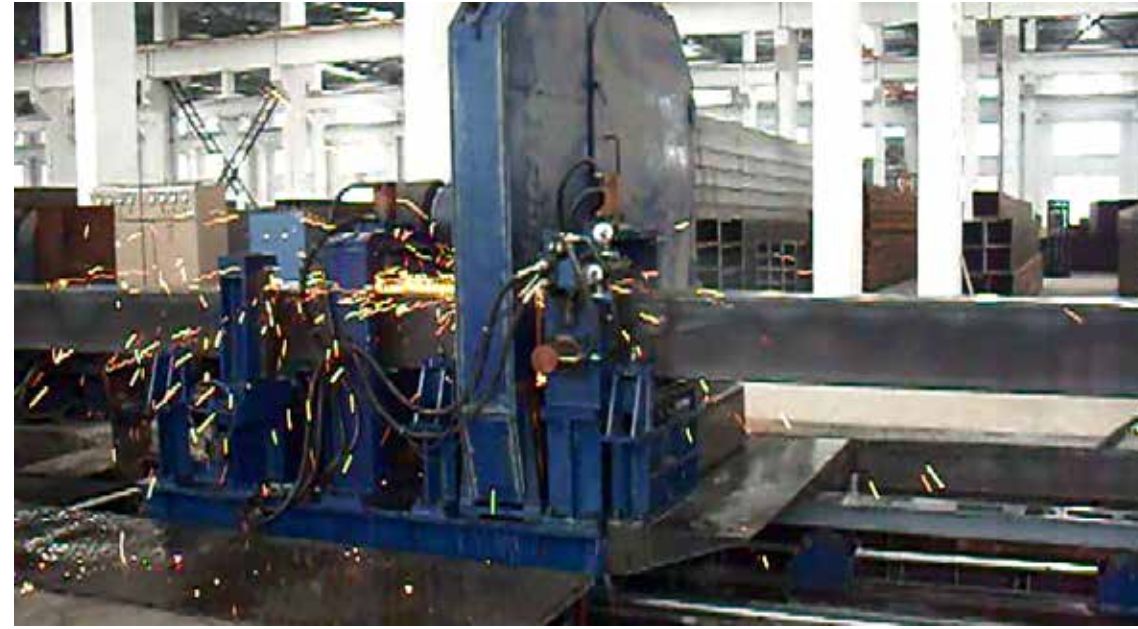
PARAMETER CONFIGURATION OF SQUARE AND ROUND PIPE FLYING SAWS

方管 and 圆管 飞锯参数配置

HOT SAW

热锯

序号 No.	规格 Specification	跟踪直流 Track DC	锯切电机 Sawing Motor	液压电机 Hydraulic Motor	速度范围 Speed Range	设计重量 Design Weight
1	150方×6 150 Square × 6	55KW	110KW	30KW	45-55m/min	10.5T
2	150方×8 150 Square × 8	55KW	132KW	30KW	35-45m/min	12.5T
3	200方×6 200 Square × 6	55KW	110KW	30KW	25-35m/min	11.5T
4	200方×8 200 Square × 8	55KW	132KW	30KW	20-30m/min	13.5T
5	200方×10 200方×8 200 Square × 10	55KW	160KW	30KW	15-25m/min	14.0T
6	250方×8 250 Square × 8	55KW	160KW	30KW	20-35m/min	15.0T
7	250方×10 250 Square × 10	55KW	180KW	30KW	15-30m/min	15.5T
8	250方×12 250 Square × 12	55KW	220KW	45KW	10-25m/min	16.5T
9	250方×14 250 Square × 14	55KW	250KW	45KW	10-20m/min	17.5T
10	165方×4 165 Square × 4	55KW	75KW	30KW	60-75m/min	7.5T
11	165方×6 165 Square × 6	55KW	90KW	30KW	50-65m/min	8.0T
12	219方×6 219 Square × 6	55KW	110KW	30KW	30-50m/min	10.5T
13	219方×8 219 Square × 8	55KW	132KW	30KW	25-40m/min	12.5T
14	219方×10 219 Square × 10	55KW	160KW	30KW	20-30m/min	13.0T
15	273方×10 273 Square × 10	55KW	160KW	30KW	10-25m/min	15.0T
16	273方×12 273 Square × 12	55KW	220KW	30KW	10-20m/min	16.0T
17	273方×14 273 Square × 14	55KW	250KW	45KW	10-15m/min	19.5T
18	273方×16 273 Square × 16	55KW	280KW	45KW	8-12m/min	21.5T



我们的业绩 Our performance

国内大型钢管企业用我们热切飞锯占比较大,例如:友发集团,京华集团,正大集团,天创集团,国强集团等。济钢冷弯U肋、无锡六龙450方,韩国450方等超大型热锯,都是我们生产的。

Large domestic steel pipe companies use our eager flying saws for a relatively large proportion, such as Youfa Group, Jinghua Group, Chia Tai Group, Tianchuang Group, Guoqiang Group, etc. Jinan Steel cold-formed U-rib, Wuxi Liulong 450 square, South Korea 450 square and other super-large hot saws are all made by us.



04 COLD SAW 冷锯

The sawing principle of cold saw

In the process of metal sawing, the heat generated when the saw blade is sawing the workpiece is transferred to the sawdust through the saw teeth, and the sawing workpiece and the saw blade are kept cool, so it is called cold sawing.

The cold-cut saw has many advantages:

Cold cut saws have many advantages:

1. The rotation speed of the saw blade is low, and the welded pipe can be milled off without burrs, which reduces the next processing procedure;
2. The workpiece will not change the material due to the high temperature generated by friction;
3. There is no spark, no dust, and very little noise during the sawing process;
4. Environmental protection and energy saving;
5. The deflection of the saw blade is small, which improves the sawing accuracy of the workpiece and reduces the frequency of saw blade damage;
6. The saw blade has a small pressure on the steel pipe, which will not cause deformation of the pipe wall orifice;
7. Fast sawing speed and high work efficiency.

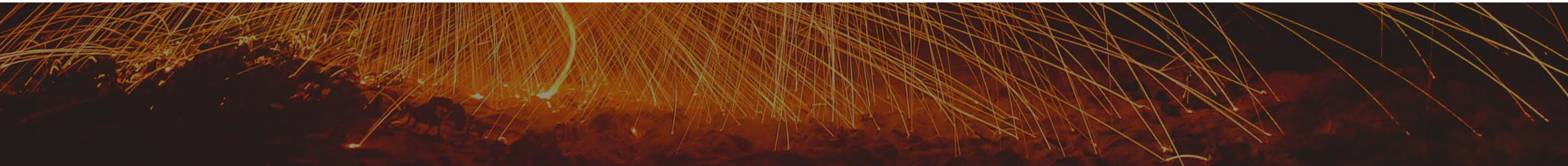
冷锯的锯切原理

在金属锯切的过程中, 锯片锯齿锯切工件时产生的热量通过锯齿转移到锯屑上, 锯切工件和锯片保持冷却, 故名冷锯切。

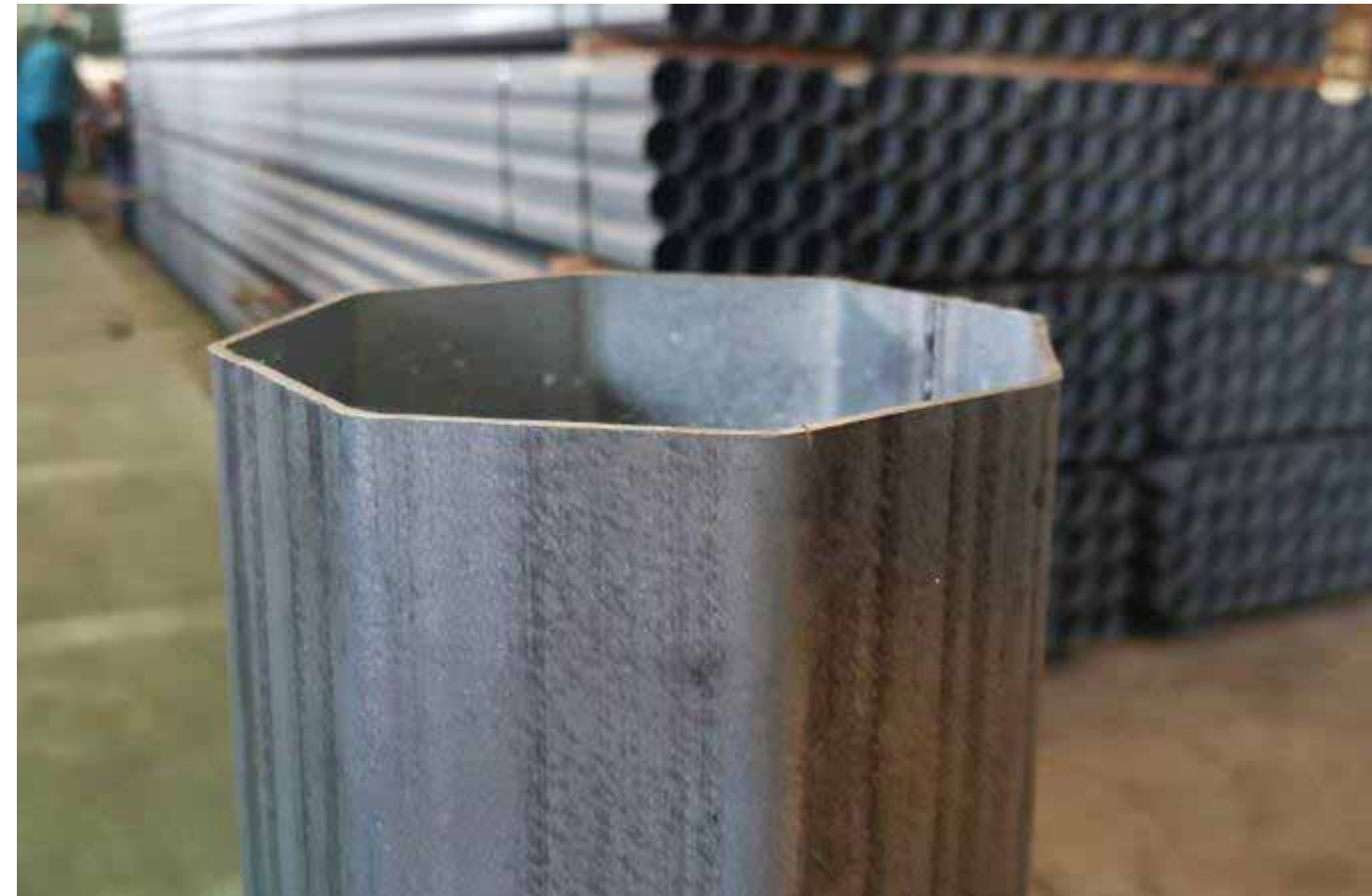
冷切锯有很多优点:

1. 锯片旋转速度低, 铣断焊管, 可以做到无毛刺, 减少了下道工序;
2. 工件不会因为摩擦产生的高温改变材质;
3. 锯切过程没有火花, 没有灰尘, 噪音很小;
4. 环保节能;
5. 锯片偏摆度小, 提高工件锯切精度, 减少了锯片损坏的频率;
6. 锯片对钢管有很小的压力, 不会造成管壁管口变形;
7. 锯切速度快, 工作效率高。

	td 25	td 32	td 50	td 76	td 89	td 114	td 165
型号 Type	KK-5-25	KK-5-32	KK-5-50	KK-5-76	KK-5-89	KK-5-114	KK-5-165
圆管规格 Round tube specification	Φ6-30	Φ6-38	Φ16-63.5	Φ25-76	Φ25-105	Φ50-130	Φ80-165
壁厚(mm) Thickness (mm)	0.3-2.0	0.3-2.0	0.6-2.5	0.8-3.0	0.8-4.0	1.2-5.0	2.0-6.0
适用材质 Applicable material	Q235 及以下(特殊材质请说明) Q235 and below (please specify for special materials)						
拖动电机 Drive motor	11KW 伺服(安川) 11KW servo (Yaskawa)		15KW 伺服(安川) 15KW servo (Yaskawa)		20KW 伺服(德国路斯特) 20KW servo (Germany Luster)		
进给电机 Feed motor	2.9KW 伺服(安川) 2.9KW servo (Yaskawa)		4.4KW 伺服(安川) 4.4KW servo (Yaskawa)		5.5KW 伺服(德国路斯特) 5.5KW servo (Germany Luster)		
锯切电机(交流变频) Sawing motor (AC frequency conversion)	5.5KW	7.5KW	15KW	22KW	20KW 伺服 20KW servo	25KW 伺服 25KW servo	
进给方式 Feed mode	伺服多段速进给 Servo multi-speed feed						
最高速度 Maximum speed	120米/分 120m/min		100米/分 100m/min	80米/分 80m/min	60米/分 60m/min		
夹具 Fixture	2组、气动 2 sets, Pneumatic		3组、气动 3 sets, Pneumatic		3组、液压 3 sets, Hydraulic		
拖链 Drag chain	塑料拖链 Plastic drag chain				钢制拖链 Steel drag chain		
锯片(高速钢) Saw blade (high speed steel)	Φ350mm	Φ400mm	Φ450mm	Φ500mm	Φ550mm	Φ600mm	
锯车行程(齿条长度) Saw car travel (rack length)	3米 3 meters		4米 4 meters		4.5米 4.5 meters	5米 5 meters	



04 COLD SAW
冷锯



05 MILLING SAW

铣切锯

Parameter Configuration | 参数配置

Advantages:

Tengdi copying milling flying saw is mainly used in large-diameter thick-walled pipes, profile online cutting, sophisticated mechanical equipment equipped with advanced Siemens control system, to ensure the cutting accuracy and better cutting effect of copying milling flying saw, with operation The stable failure rate is low, and the advanced technology makes the service life of the TCT saw blade much higher than that of similar domestic equipment. Adopt double milling cutter rotary cold cutting technology; fully automatic control (manual); LCD screen man-machine interface; smooth incision without burrs, eliminating the need for secondary processes such as flat head chamfering and deburring, greatly reducing procurement costs & labor costs.

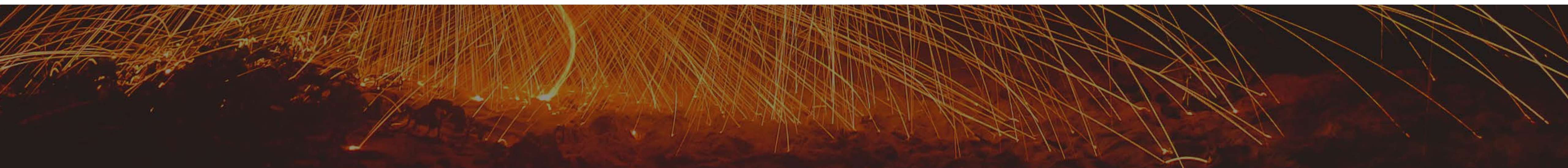
优势特点:

腾迪仿型铣飞锯主要应用于大管径厚壁管材, 型材在线切割, 精良的机械设备配置先进的西门子控制系统, 保证仿型铣飞锯的切割精度以及更好的切割效果, 具有运行稳定故障率低的技术, 使得TCT锯片的使用寿命远远高于国内同类设备。

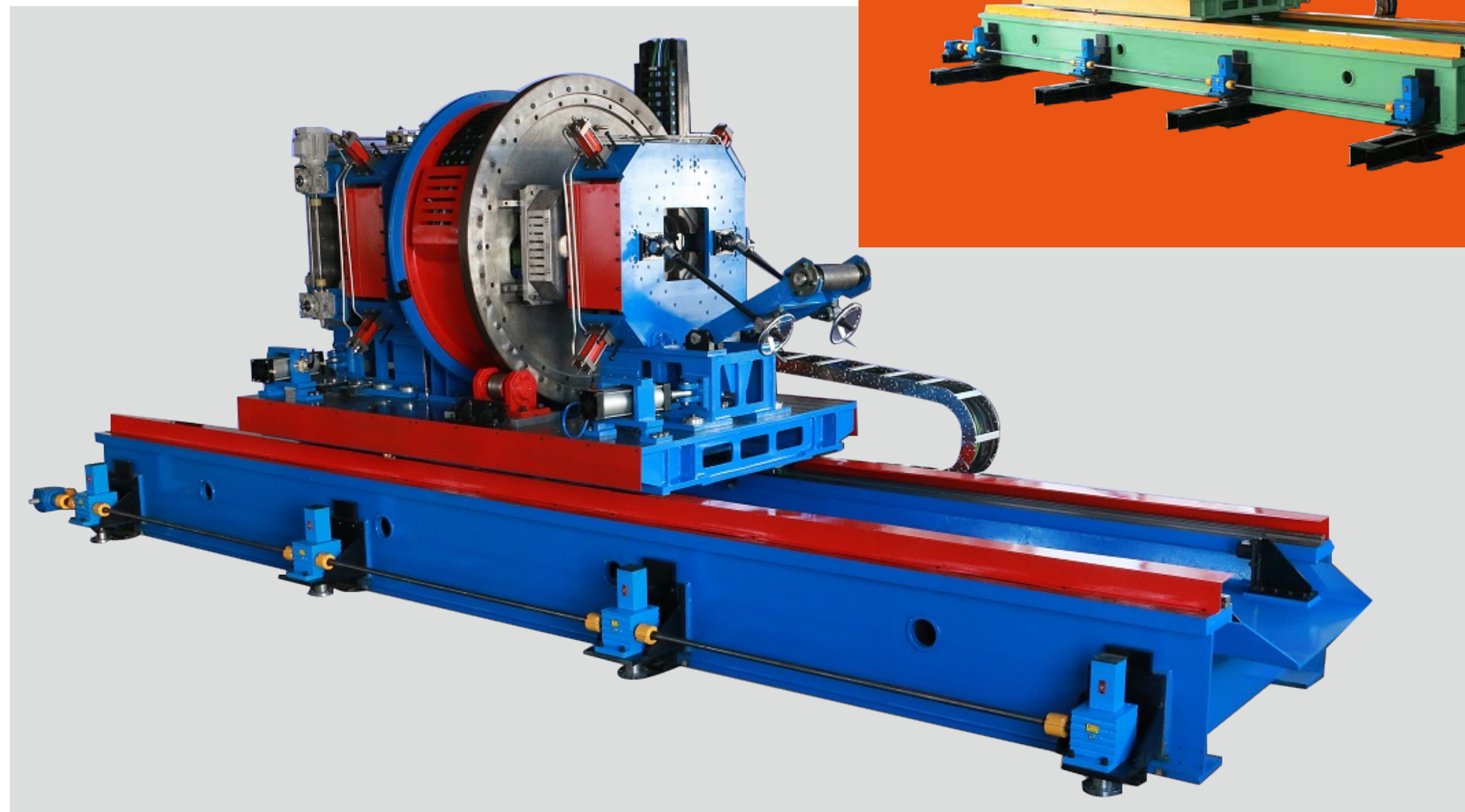
采用双铣刀旋转冷切技术; 全自动控制(可手动); 液晶屏人机界面;

切口光滑无毛刺, 省去平头倒角去毛刺等二次工序, 大大降低降低采购成本和人工成本。

型号 Model	范围 Range	厚度 Thickness	最高速度 Max speed	总功率 Total power	锯片直径 Diameter
165	φ76-168 φ80-130 MAX80*120	4.0-6.0	55	82KW	355
219	φ89-219 φ100-170 MAX120*150	6.0-8.0	50	100KW	355
273	φ114-273 φ100-200 MAX150*200	6.0-12.0	40	120KW	355
426	φ273-426 φ200-300 MAX200*300	8.0-16.0	30	140KW	355



05 MILLING SAW 铣切锯





THANKS

Tengdi is looking forward to your joining!