



WAGEN 和源®



Metal Cutting
Cold Sawblade
铁工冷锯

Precision Machining Expert
精密加工技术专家

关于我们 和源精密工具

公司发展历程

FERROTEC 集团公司是1996 于日本东京证券市场上市的跨国企业集团，业务涵盖半导体、新能源及精密电子等多项高新技术行业，公司在日本、中国、美国、欧洲等地设立多家子公司及研发机构。

2000年，FERROTEC（中国集团）杭州大和热磁电子有限公司成立刀具事业部，生产及销售“WAGEN和源”品牌硬质合金锯片。

2002年，“WAGEN和源”品牌锯片迅速成长，在国内二十多个城市拥有代理商，销售网络迅速覆盖全中国。

2004年，“WAGEN和源”品牌锯片全面进军国际市场，销售网络覆盖亚洲及欧美市场。

2005年，刀具事业部从杭州大和热磁电子有限公司独立出来，成立杭州和源精密工具有限公司，注册资本3.82亿日元。并凭借雄厚的生产及销售能力，成为FERROTEC（中国集团）的支柱子公司。

2006年，FERROTEC（中国集团）追加投资1.5亿日元，建立金刚石刀具生产线，丰富刀具产品种类，全面进入精密刀具市场。

2010年，FERROTEC（中国集团）追加投资3.2亿日元投资，扩充产能，满足客户对“WAGEN和源”刀具产品的需求。

公司实力

杭州和源精密工具有限公司生产“WAGEN和源”品牌硬质合金锯片和金刚石刀具产品。

公司引进国际先进技术和设备，建立研发、制造、销售一体化的完整服务体系。

从日本引进全自动专业锯片处理生产线，瑞士引进超精密激光切割机，德国引进的焊接和刃磨设备，日本引进的先进检测仪器，同时依靠公司完善的管理和精益生产管理体系，为客户提供高性价比、短交货期的硬质合金锯片和金刚石刀具产品。

“WAGEN和源”锯片广泛应用在家具制造、木材加工、铝合金型材、有机玻璃等行业，金刚石刀具普遍应用在家具、地板以及金属等加工领域。产品种类丰富，规格齐全，并可按需定制。

和源公司秉承FERROTEC（中国集团）传统，坚持勤勉、立志、开拓、创优的企业文化理念，不断进取，不断创新，为全球客户提供及时准确的服务。



About us

Wagen Precision Tooling China



History

Ferrotec is an international corporation listed on the Tokyo Stock Exchange in 1996, with its business scope covering several high-tech industries including semiconductor, new energy, and precision electronic. The company has set up several subsidiary companies and research institutes in Japan, China, America, and Europe.

2000, Cutting tools department was set up by Ferrotec (China) to produce and sell Wagen T.C.T saw blade.

2002, With agents in 20 cities, Wagen broadened its sales network all over China.

2004, Wagen saw blades entered the international market, and its sales network covers Asia, Europe and American Market.

2005, Wagen Precision Tooling Co.,Ltd became an independent company from former department

with registered capital of 382 million JPY. Because of its manufacturing and sales ability, Wagen Precision Tooling Co.,Ltd became a supporting branch company of Ferrotec Group China.

2006, Ferrotec Group China added 150 million JPY to Wagen to establish PCD cutting tools line, enrich cutting tools kinds, fully enter precision tools market.

2010, Ferrotec Group China added 320 million JPY to WAGEN for enlarging the production capacity, fulfilling customers' requirement of WAGEN products.

Strength

Hangzhou Wagen Precision Tooling Co.,Ltd produces Wagen brand T.C.T saw blades and PCD cutting tools.

Hangzhou Wagen Precision Tooling Co.,Ltd imported advanced technology and equipment, established full system of R&D, produce, sales and after-sales service.

With whole set heat treatment line from Japan, laser cutting machine from Switzerland, brazing and grinding machine from Germany, exact examining machine from Japan, advanced quality and production control system, Wagen can supply T.C.T saw blades and PCD cutting tools with high quality, high PPR, short lead time to our customers.

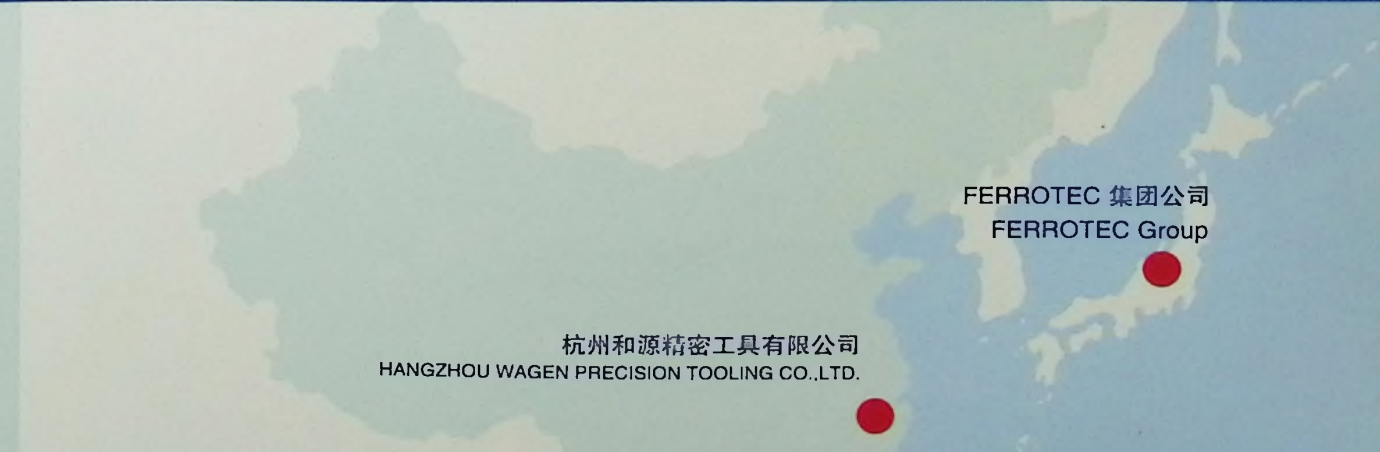
Wagen saw blades are widely used in field of furniture manufacturing, wood-working, aluminum cutting, Plexiglass cutting and others. Wagen can supply products with full kinds and specifications. Customer's special requirements are available too.

"WAGEN" Precision Tooling Co., Ltd. received traditions of FERROTEC Group China including the enterprise culture philosophy of being diligent, ambitious, innovative and creative. We will keep offering best products and services as we always did for our customers all around the world.



Laser Cutting Saw Blade Body
激光切割锯片本体

我们位于 Our Location



FERROTEC 集团公司
FERROTEC Group

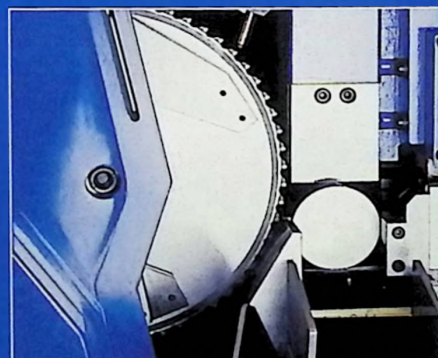
杭州和源精密工具有限公司
HANGZHOU WAGEN PRECISION TOOLING CO.,LTD.



Metal Cutting Cold Sawblade Is suitable for high-efficiency cutting steel 铁工冷锯适合高效切削钢材

Features for More use Value / 更高使用价值的特性

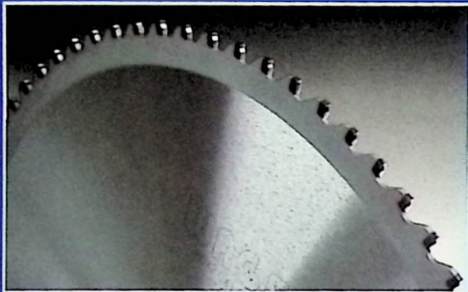
- Lower cutting forces: Lower temperature\noise\power consumption.
切割更轻快：切削热/切削噪声/设备功耗更低
- High resistance against chipping: Longer cutting life.
抗热震能力更好：更长的临界寿命
- Reasonable swarf curling design: Better cutting surface,
No cold welding into the gullet.
合理的铁屑卷曲设计：切割面更光洁，齿室不会堵屑
- Reduce subsequent manufacturing processes.
减少后续制造工艺
- Decrease the total product manufacturing cost.
降低客户产品制造成本



Cutting Condition Table / 切割条件表

Material Type / 材料类型	Steel Type / 钢种	Saw Code / 冷锯代码
Bar / 实心钢材	Low and Mild Carbon Steels / 中低碳钢	WST
	High Carbon Steels / 高碳钢	WTH
	Stainless Steels / 不锈钢	WST-S
Tube / 管材	Low and Mild Carbon Steels / 中低碳钢	WST-P
	High Carbon Steels / 高碳钢	WTH

铁工冷锯 / Metal Cutting Cold Sawblades



WST

用途: 切割中低碳钢

适合设备: 高精密金属圆锯机

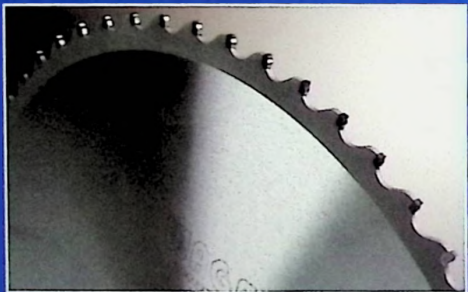
$V=70 \text{ m/min} \sim 120 \text{ m/min}$

$S_z=0.035 \text{ mm} \sim 0.070 \text{ mm}$

切割材料: C % $\leq 0.45\%$ 的结构用碳素钢、结构用合金钢

刀头材质: 金属陶瓷

特点: 选用超耐磨刀头材质, 抗震专利技术, 在切割中, 合金钢能获得稳定的寿命和良好的切割质量。



WTH

用途: 切割中高碳钢

适合设备: 高精密金属圆锯机

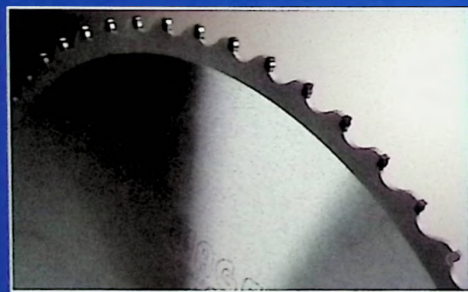
$V=70 \text{ m/min} \sim 120 \text{ m/min}$

$S_z=0.035 \text{ mm} \sim 0.070 \text{ mm}$

切割材料: C % $> 0.40\%$ 的结构用碳素钢、结构用合金钢、特钢 (不锈钢、耐热钢除外) 的切割

刀头材质: 硬质合金 (+ 涂层)

特点: 独特的涂层技术, 具备抗缺损性以及耐磨性, 切割高碳钢具有稳定的使用寿命及良好的切割品质。



WST-S

用途: 切割不锈钢

适合设备: 高精密金属圆锯机

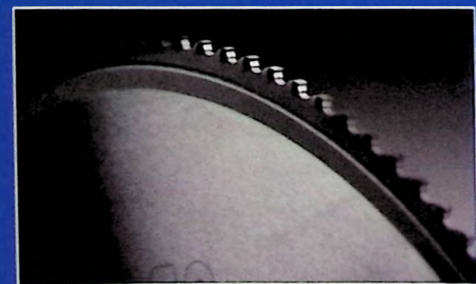
$V=50 \text{ m/min} \sim 70 \text{ m/min}$

$S_z=0.035 \text{ mm} \sim 0.060 \text{ mm}$

切割材料: 不锈钢

刀头材质: 硬质合金 (+ 涂层)

特点: 独特的涂层技术, 提升了高韧性刀头的抗磨损能力, 防粘刀, 具有稳定的使用寿命及良好的切割品质。



WST-P

用途: 切割普通钢管

适合设备: 高精密金属圆锯机

$V=100 \text{ m/min} \sim 200 \text{ m/min}$

$S_z=0.025 \text{ mm} \sim 0.060 \text{ mm}$

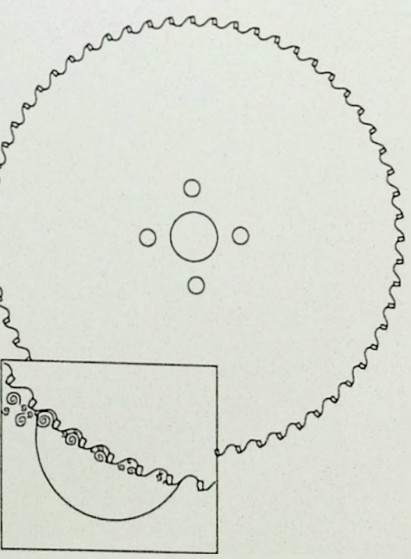
切割材料: C % $\leq 0.45\%$ 的钢管

刀头材质: 金属陶瓷

特点: 采用高韧性刀头, 防止因二次切削管材内部的积屑引起崩齿, 保证加工的稳定性和精度。

铁工冷锯 / Metal Cutting Cold Sawblades

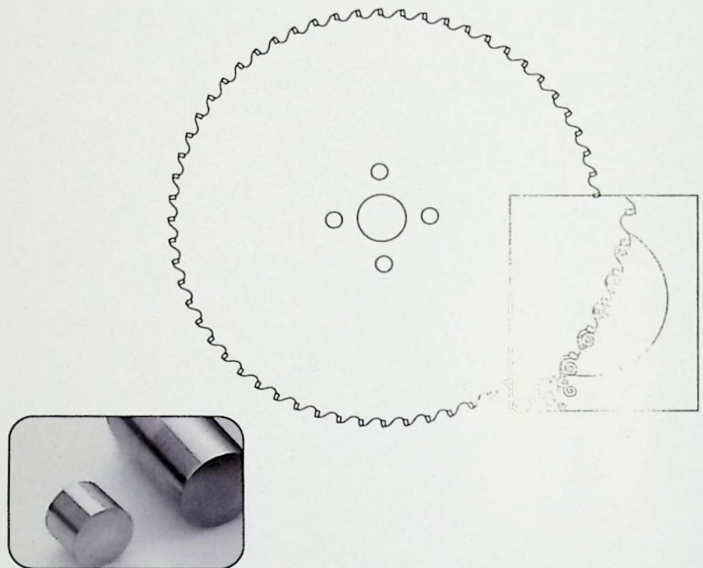
WST Carbon Steel Solids (C≤0.45%) / 中低碳钢



Diameter (mm) 外径(φD)	Kerf (mm) 刃厚(B)	Body (mm) 台厚(b)	Bore (mm) 内径(φd)	Number of teeth 齿数(P)	NLA 定位孔	Machine / (Model) 设备 / (型号)
240	1.8	1.50	32	60	2/10.8/63	Noritake (NCS-2/50)
250	2.0	1.70	32	54/72	4/11/63	Soco(SA-77NC)/Tsune(TK5C-50GL)/Nishijima(NHC-050NA)
250	2.0	1.70	32	54/72/80	4/9/50	Kasto(Wagner)WAC-70
250	2.0	1.75	32	54	4/9/50	Exact-Cut(MAC60)
280	2.0	1.75	32	60/80	4/11/63	EVERSING(P-65A)
285	2.0	1.70	32	60/80	4/11/63	Soco(SA-78NCE)/Tsune(TK5C-70GL)/Nishijima(NHC-070NA)
285	2.0	1.70	32	60/80	4/9/50	Kasto(Wagner)WAC-70
285	2.0	1.75	40	60/80	2/10.8/80	Noritake(NCS-2/65)/DATO DELTA(P-65A)
315	2.3	2.00	40	80	4/11/63	Bewo(Db-70)
360	2.5	2.25	40	80/100	4/10.8/90	Noritake(NCS-2/100)/DATO DELTA(P-100A)
360	2.5	2.25	40	80/100	2/15/80+4/12/90	Bewo(HCS-90)
360	2.5	2.25	50	80	4/16/80	Tsune(TK5C-101GL)/Nishijima(NHC-100NA)/ Kasto(Wagner)KASTOSPEEDC14/Endo(HS-36.SS-36)
360	2.5	2.25	50	100	4/16/80	Nishijima(NHC-100NA)/Kasto(Wagner)KASTOSPEEDC14/ Endo(HS-36.SS-36)/Tsune(TK5C-101GL)
360	2.6	2.25	40	60	4/10.8/90	Noritake(NCS-2/100)/DATO DELTA(P-100A)
360	2.6	2.25	40	80/100	4/10.8/90	EVERSING(P-100A)
360	2.6	2.25	50	60	4/16/80	Tsune(TK5C-100GL)/Nishijima(NHC-100NA) Sinico(TOP2000)/Endo(HS-36.SS-36)
360	2.6	2.25	50	60	4/14/80	Kasto(Wagner)KASTOSPEEDC14
380	2.5	2.25	50	48/80	4/16/80	Endo(HS-36.SS-36)
380	2.5	2.25	50	80/100	4/16/80	Nishijima(SPECIAL)
425	2.7	2.25	50	50/60	4/16/80	Kasto(Wagner)KASTOSPEEDC14
460	2.7	2.25	50	40/60	4/10.8/90	Noritake(NCS-2/150)
460	2.7	2.25	50	40/60	4/21/90	Nishijima(NHC-150NA)
560	3.0	2.50	50	44/60	4/21/120	Nishijima(NHC-180NA)

铁工冷锯 / Metal Cutting Cold Sawblades

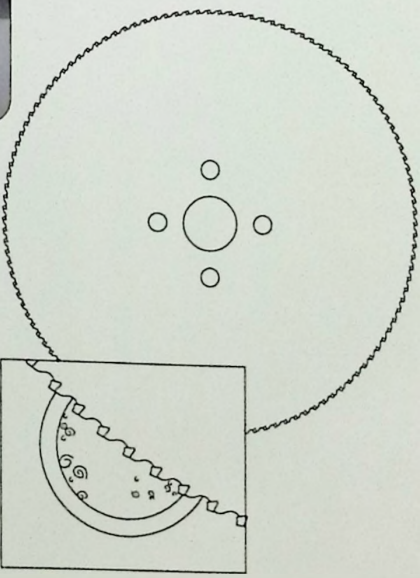
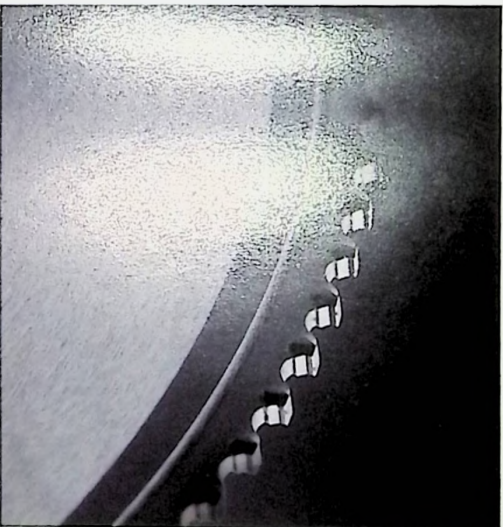
WST-S Stainless Steel Solids / 不锈钢



Diameter (mm) 外径(φD)	Kerf (mm) 刃厚(B)	Body (mm) 台厚(b)	Bore (mm) 内径(φd)	Number of teeth 齿数(P)	NIA 定位孔	Machine / (Model) 设备 / (型号)
240	1.8	1.50	32	60	2/10.8/63	Noritake(NCS-2/50)
250	2.0	1.70	32	54/72	4/11/63	Soco(SA-77NC)/Tsune(TK5C-50GL)/Nishijima(NHC-050NA)
250	2.0	1.70	32	54/72/80	4/9/50	Kasto(Wagner)WAC-70
250	2.0	1.75	32	54	4/9/50	Exact-Cut(MAC60)
280	2.0	1.75	32	60/80	4/11/63	EVERISING(P-65A)
285	2.0	1.70	32	60/80	4/11/63	Soco(SA-78NCE)/Tsune(TK5C-70GL)/Nishijima(NHC-070NA)
285	2.0	1.70	32	60/80	4/9/50	Kasto(Wagner)WAC-70
285	2.0	1.75	40	60/80	2/10.8/80	Noritake(NCS-2/65)/DAITO DELTA(P-65A)
315	2.3	2.00	40	80	4/11/63	Bewo(DB-70)
360	2.5	2.25	40	80/100	4/10.8/90	Noritake(NCS-2/100)/DAITO DELTA(P-100A)
360	2.5	2.25	40	80/100	2/15/80+4/12/90	Bewo(HCS-90)
360	2.5	2.25	50	80	4/16/80	Tsune(TK5C-101GL)/Nishijima(NHC-100NA)/ Kasto(Wagner)KASTOSPEEDC14/Endo(HS-36,SS-36)
360	2.5	2.25	50	100	4/16/80	Nishijima(NHC-100NA)/Kasto(Wagner)KASTOSPEEDC14/ Endo(HS-36,SS-36)/Tsune(TK5C-101GL)
360	2.6	2.25	40	60	4/10.8/90	Noritake(NCS-2/100)/DAITO DELTA(P-100A)
360	2.6	2.25	40	80/100	4/10.8/90	EVERISING(P-100A)
360	2.6	2.25	50	60	4/16/80	Tsune(TK5C-100GL)/Nishijima(NHC-100NA)/ Sinico(TOP2000)/Endo(HS-36,SS-36)
360	2.6	2.25	50	60	4/14/80	Kasto(Wagner)KASTOSPEEDC14
380	2.5	2.25	50	48/80	4/16/80	Endo(HS-36,SS-36)
380	2.5	2.25	50	80/100	4/16/80	Nishijima(SPECIAL)
425	2.7	2.25	50	50/60	4/16/80	Kasto(Wagner)KASTOSPEEDC14
460	2.7	2.25	50	40/60	4/10.8/90	Noritake(NCS-2/150)
460	2.7	2.25	50	40/60	4/21/90	Nishijima(NHC-150NA)
560	3.0	2.50	50	44/60	4/21/120	Nishijima(NHC-180NA)

铁工冷锯 / Metal Cutting Cold Sawblades

WST-P Steel Tubes / 管材



Diameter (mm) 外径(φD)	Kerf (mm) 刃厚(B)	Body (mm) 台厚(b)	Bore (mm) 内径(φd)	Number of teeth 齿数(T)	NLA 定位孔	Machine / (Model) 设备 / (型号)
250	2.0	1.70	32	100/120	4/11/63	Soco(SA-77NC)/Tsunek(TK5C-50GL)/Nishijima(NHC-050NA)
250	2.0	1.70	32	100/120	4/9/50	Kasio(Wagner)WAC-70
285	2.0	1.70	32	120/140	4/11/63	Soco(SA-78NCE)/Tsunek(TK5C-70GL)/Nishijima(NHC-070NA)
285	2.0	1.75	40	120/140	2/10.8/80	Noritake(NCS-2/65)
300	2.0	1.75	40	150	2/8/55+4/14/64	Bewo(ECH-108M)
360	2.5	2.25	40	130	4/10.8/90	Noritake(NCS-2/100)
350	2.5	2.25	50	130/160	4/15/80	Rattunde(ACS90/2)
360	2.5	2.25	50	160	4/16/80	Tsunek(TK5C-101GL)/Nishijima(NHC-100NA)

铁工冷锯 / Metal Cutting Cold Sawblades



Recommended Application / 推荐切削条件

JIS	AISI	DIN	GB	WST	WST-S		
10C	1010	C10E	10	○			
S15C	1015	C15E	15	○			
S20C	1020	C22E	20	○			
S25C	1025	C25	25	○		○	
S35C	1035	C35	35	○		○	
S45C	1045	C45	45	▲		▲	○
S50C	1050	C50	50	▲		▲	○
S55C	1055	C55	55	▲		▲	○
SCM415	●	15CrMo5	15CrMo	○		○	
SCM420	●	25CrMo4	20CrMo	○		○	
SCM430	4130	●	30CrMo	○		○	
SCM435	4135	34CrMo4	35CrMo	○		○	
SCM440	4140	42CrMo4	40CrMnMo	▲		▲	○
SCr415	5015	15Cr3	15Cr	○		○	
SCr420	5120	●	20Cr	○		○	
SCr435	5135	37Cr4	35Cr	○		○	
SCr440	5140	41Cr4	40Cr	▲		▲	○
SNCM220	8620	20NiCrMo2	20CrNiMo	○		○	
SNCM420	4320	●	●	○		○	
SNCM439	4340	40NiCrMo6	●	▲		▲	○
SMn420	1524	22Mn6	20Mn2	○		○	
SMn433	1536	34Mn5	30Mn2	○		○	
SUJ2	52100	100Cr6	GCr15	▲		▲	○
SUS303	303	X8CrNiS8-9	Y1Cr18Ni9		○		
SUS304	304	X5CrNi18-10	0Cr18Ni9		○		
SUS316	316	X3CrNiMo17-13-3	0Cr17Ni12Mo2		○		
SUS321	321	X6CrNiTi18-10	0Cr18Ni10Ti		○		
SUS403	403	X6Cr13	1Cr12		○		
SUS410	410	X12Cr13	1Cr13		○		
SUS420	420	X20Cr14	2Cr13		○		
SUS430	430	X6Cr17	●		○		
SUS434	434	X6CrMo17-1	●		○		

○ 适合 Suitable ▲ 可以使用 Possible to Use

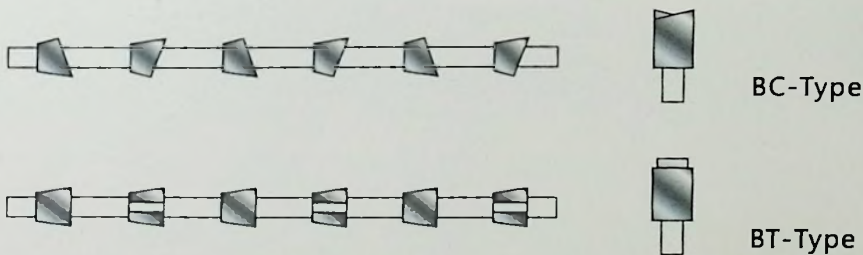
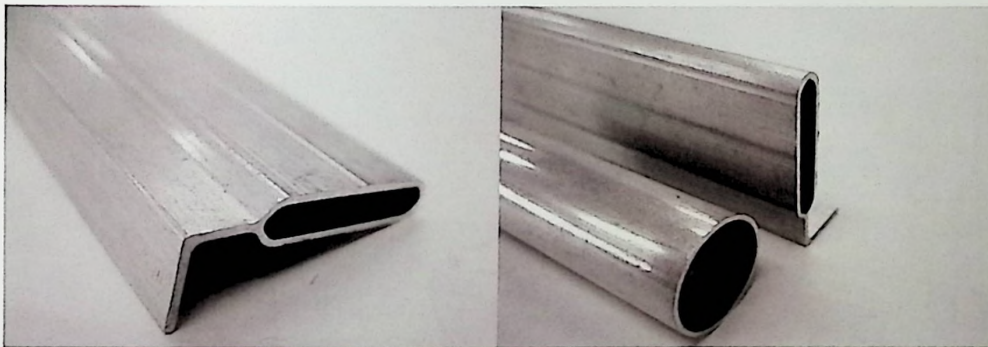
铁工冷锯 / Metal Cutting Cold Sawblades

MD-Model / MD 系列

Diameter (mm) 外径(φD)	Kerf (mm) 刃厚(B)	Body (mm) 台厚(b)	Bore (mm) 内径(φd)	Number of teeth 齿数(P)	NLA 定位孔	Machine / (Model) 设备 / (型号)
305	2.0	1.6	40	100	3/9/55非均布	●
405	2.8	2.2	40	70	2/12/65	ミタチ / (MSC405A)

铝合金锯 / Aluminum Alloy Cutting Saw

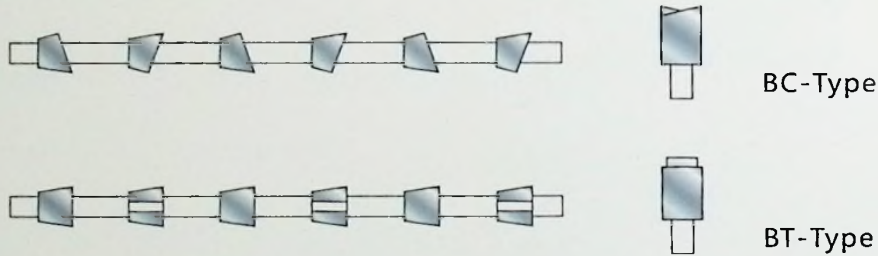
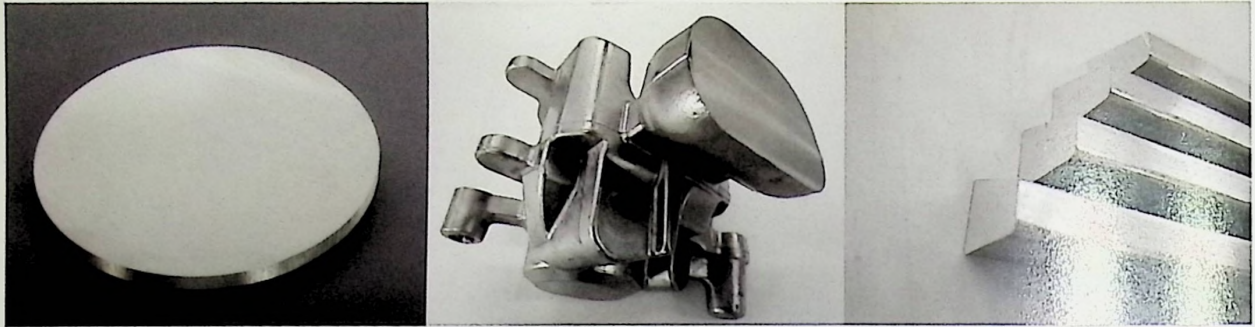
AG-Model / AG 薄片型



Diameter (mm) 外径(φD)	Kerf (mm) 刃厚(B)	Body (mm) 台厚(b)	Bore (mm) 内径(φd)	Number of teeth 齿数(P)	Teeth Patterns 刃型	NLA 定位孔	Hook Angle 前角
255	2.0	1.5	25.4	100	BT	●	5
305	2.2	1.8	25.4	80	BT	●	5

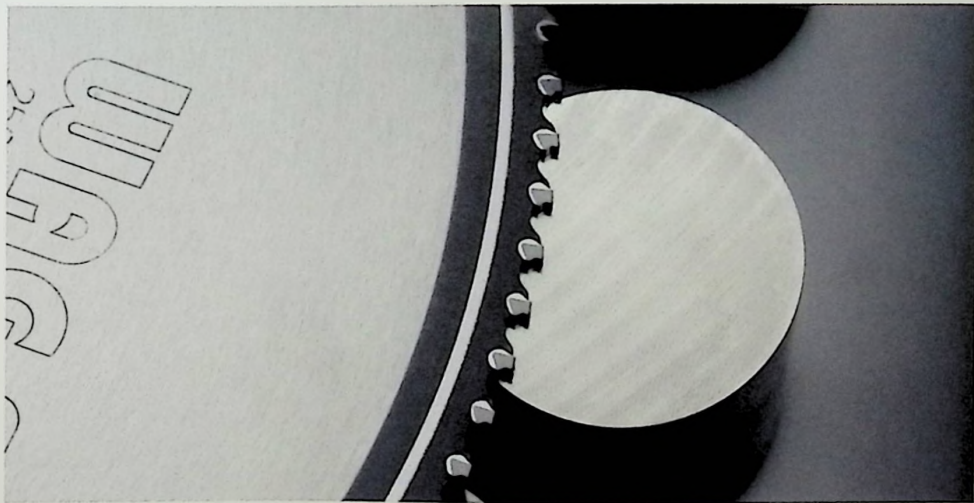
铝合金锯 / Aluminum Alloy Cutting Saw

AC-Model / AC 常规型



Diameter (mm) 外径(φD)	Kerf (mm) 刃厚(B)	Body (mm) 台厚(b)	Bore (mm) 内径(φd)	Number of teeth 齿数(P)	Teeth Patterns 刃型	NLA 定位孔	Hook Angle 前角
255	3.0	2.5	25.4	100	BT	●	5
305	3.0	2.5	25.4	80	BT	●	5
305	3.0	2.5	25.4	100	BT	●	5
305	3.0	2.5	25.4	120	BT	●	5
355	3.0	2.5	25.4	50	BT	●	5
355	3.0	2.5	25.4	80	BT	●	5
355	3.0	2.5	25.4	100	BT	●	5
355	3.0	2.5	25.4	120	BT	●	5
400	3.2	2.6	30	120	BT	●	5
405	3.2	2.6	25.4	50	BT	●	5
405	3.2	2.6	25.4	80	BT	●	5
405	3.2	2.6	25.4	100	BT	●	5
405	3.2	2.6	25.4	120	BT	●	5
405	3.2	2.6	30	120	BT	●	5
450	3.6	3.0	25.4	120	BT	●	5

Diameter (mm) 外径(ϕ D)	Kerf (mm) 刃厚(B)	Body (mm) 台厚(b)	Bore (mm) 内径(ϕ d)	Number of teeth 齿数(P)	Teeth Patterns 刃型	NLA 定位孔	Hook Angle 前角
450	3.6	3.0	30	120	BT	●	5
450	4.0	3.4	30	120	BT	●	5
455	3.4	2.8	25.4	50	BT	●	5
455	3.4	2.8	25.4	80	BT	●	5
455	3.4	2.8	25.4	100	BT	●	5
455	3.4	2.8	25.4	120	BT	●	5
455	3.6	3.0	25.4	100	BT	●	5
455	3.6	3.0	25.4	120	BT	●	5
500	3.8	3.2	30	100	BT	●	5
500	4.0	3.4	25.4	80	BT	●	5
500	4.0	3.4	25.4	100	BT	●	5
500	4.0	3.4	25.4	120	BT	●	5
500	4.0	3.4	30	120	BT	●	5
610	4.0	3.2	25.4	60	BT	●	5
610	4.0	3.4	25.4	120	BT	●	5
305	2.8	2.0	25.4	120	BC	●	5
355	3.0	2.4	25.4	120	BC	●	5
405	3.2	2.6	25.4	120	BC	●	5
450	4.0	3.0	30	120	BT	●	10
500	4.4	3.3	30	120	BT	●	10
500	4.4	3.8	30	120	BT	●	10





锯片使用注意事项 Instruction

为了更安全、有效地使用本产品，请仔细阅读本说明书。

In order to use the product safer and more effective, please read the instruction carefully.

● 危险 / DANGER!

- 运转时严禁碰触刀具。直接或间接被卷入会造成极大的人身伤害。
- 绝对不可徒手触碰切屑，有灼伤或划伤的可能。
- Touching saw blades when they are running is strictly prohibited! Be drawn into the machine directly or indirectly will badly hurt human body.
- Touching cutting dust without cover is prohibited, may get burned or hurt without cover.

● 作业环境 / Operating Condition

- 机械须安装保护罩，防止因锯片、切屑飞散造成人身伤害。作业场所应远离易燃、易爆品。
- Machine should install protective cover to prevent broken saw blade, flying dust from hurting people. Flammables and explosives should be kept away from the work shop.

● 服装、保护用具 / Dress, Safety appliance

- 作业者必须佩戴保护眼镜，穿戴工作服、工作帽、工作鞋。
- Operator should wear protective glasses, working dress, working hat and working shoes.

● 使用前准备 / Preparation before Using

- 确保机器良好、主轴无变形、无振动，轴径公差h7。
- 检查锯片有无缺损、脱落、异常磨损；锯片本体有无扭曲、破裂等异常现象，以防受伤害。
- 保证锯片按正确的回转方向安装，回转方向不正确会造成锯片的刀头损坏及人身安全事故。
- Ensure the machines are in good condition, no deformation and no spindle vibration, Spindle running tolerance h7.
- Make sure the blades are not excessively worn-out, blade body has no deformation or breaks to prevent injuries occur.
- Make sure saw blades are fixed in correct running direction. In-correct running direction will make the tip breaks and hurt people.

● 安装、拆卸 / Install and Dismounting

- 确认好锯片运转已完全停止并在无意状态下也不能被启动后，方可换片。
- 会有手指被划伤等危险。请务必注意谨慎操作。在搬运过程中请十分注意。



- Make sure saw blades totally stop when they can be started if some unmeant thing happens, then saw blades can be changed.
- Having danger of hurting fingers, please operate carefully. When moving pay much attention to it.
- When installing, keep the flange clean, do not have any foreign body.

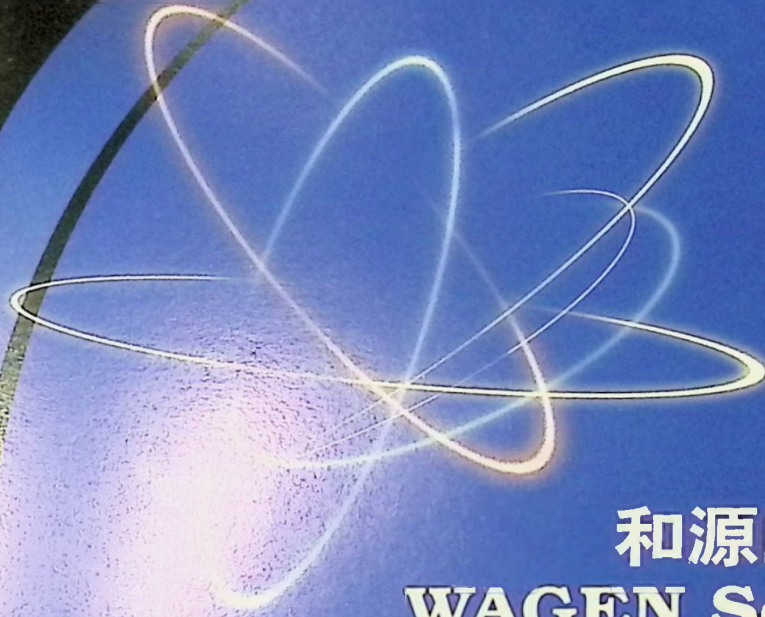
● 使用中 / In Using

- 锯片启动前必须确保设备保护罩已经盖好且锯片及设备的危险区域内无人员。
- 锯片不能用来做规定用途之外的工作，否则会影响使用效果，并可能发生人身伤害事故。
- 使用时，发现异常或异常振动、切割面粗糙或弯曲时，必须终止作业，及时检查并排除故障。
- 若刀头磨损严重(超出可正常使用的范围)请更换锯片。
- Make sure the protective cover already covered and there are no people stands in danger of area when start the machine.
- Saw blades can not be used for doing other works beyond it tells, otherwise, it will effect the result and may hurt human body.
- Operation must be stopped immediately and solve the problem once unusual noise or vibration happens, cutting surface not smooth or saw blades get burnt.
- If tips worn badly (beyond normal scope), please change the saw blade.

● 注意 / ATTENTION

- 请在锯片安装完毕后再去除刀头保护软管。
- 请在适用于切割材料的切切条件下使用。
- 存放、搬运、装卸时，要防止对人体造成伤害以及对刀具造成伤害。
- 关于锯片的操作规范请遵守机器操作说明书的要求进行。
- Please take off the tub after the saw blades has already been fixed.
- Using correct saw blades to cut correct material.
- Prevent from hurt human body and saw blades when stock, moving and installing.

Precision Machining Expert



和源的服务 WAGEN Service

采用领先的日本技术以及先进的刀具制造、检测设备，我们向客户提供优质的刀具制作和刀具修磨服务，主要包括木工刀具方案的定制，刀具的制造，安装和调试，刀具的检测、修磨等。

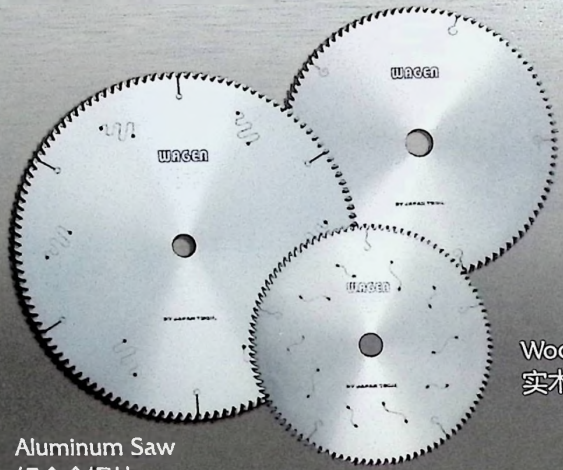
WAGEN的产品主要有硬质合金锯片，金刚石锯片，铁工冷锯，粉碎刀，金刚石铣刀，金刚石刨刀，金刚石镗铣刀等。

WAGEN致力于提供高质量的切削工具系统，竭诚为您服务！

With leading Japanese Technology, advanced producing and checking equipment, we supply tools manufacturing and re-grinding service to our customer. Mainly contain designing, manufacturing, installing, adjusting, checking, re-grinding and other service for woodworking tools.

The main products of WAGEN are: T.C.T saw blade, PCD saw blade, Metal cutting Cold sawblade, Hogger, PCD Profile cutter, PCD planing cutter, PCD router bits and etc.

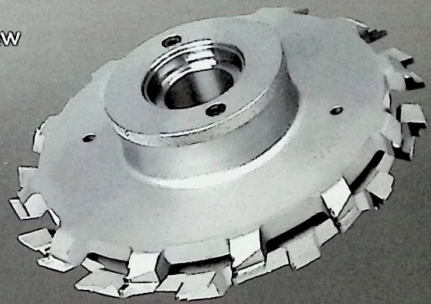
WAGEN devotes to supplying high quality cutting tools system and best service for you!



Aluminum Saw
铝合金锯片

Organic Glass Saw
有机玻璃锯片

Wood Saw
实木锯片



PCD Tools
金刚石刀具

WAGEN 和源®

HANGZHOU WAGEN PRECISION TOOLING CO.,LTD.
杭州和源精密工具有限公司

Ferrotec

Ferrotec Corporation
Ferrotec 集团

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