



KINKELDER[®]
the cutting experts



HSS SERIES

ADVANCED

Cutting harder materials
at higher cutting speeds

Cutting harder materials at higher cutting speeds



Due to a special, wear resistant, multilayer PVD coating with a low friction coefficient, very high hardness and very high temperature resistance, Fusion 2.0 saw blades can be used for cutting medium to high tensile carbon steel on extremely demanding applications. Also very suitable for flying cut-off applications.

Advantages

- High blade life
- Increased uptime
- Reduced side pick-up
- Low friction coefficient
- Wear resistant
- Very high hardness and temperature resistance
- Suitable for extremely high cutting speeds and feeds

APPLICATIONS	Medium to high tensile (carbon) steel
PARAMETERS	Suggested cutting speed: 120 – 200 m/min. Feed: 0.04 – 0.18 mm/tooth
MACHINES	Automatic, semi-automatic and flying cut off applications



Fusion NX saw blades have specifically been designed for stainless steel applications and sticky materials, but they are also suitable for cutting (thin walled) steel tubes and stainless steel flying cut-off applications.

Advantages

- Ideal for (thin walled) stainless steel tubes and sticky materials
- Dedicated thin PVD coating
- Reduced side pick-up
- Very low friction coefficient
- Wear resistant
- Very high hardness
- Very high temperature resistance
- Suitable for extremely high cutting speeds and feeds

APPLICATIONS	Ideal for cutting (stainless) steel tubes and sticky materials	
PARAMETERS		Suggested cutting speed
	Steel	60 - 120 m/min
	Austenitic stainless steel (300 series)	30 - 50 m/min
	Ferritic w/o Ti (409 & 412)	220 - 260 m/min
	Ferritic with Ti (441)	60 - 120 m/min
MACHINES	Automatic, semi-automatic and flying cut off applications	

TYPICAL AVAILABE HSS FUSION 2.0 & FUSION NX SAW BLADES

Diameter (mm)	Kerf (mm)	Bore hole (mm)	Teeth
160	1,2 / 1,6 / 2,0	32	80 / 100 / 120 / 160
175	1,6 / 2,0	32	64 / 90 / 110 / 140 / 180
200	1,2 / 1,6 / 1,8 / 2,0	32	72 / 100 / 128 / 160 / 200
225	1,2 / 1,6 / 2,0 / 2,5	32 / 40	64 / 80 / 90 / 120 / 150 / 180 / 220
250	1,2 / 1,6 / 2,0 / 2,5	32 / 40	64 / 80 / 100 / 110 / 128 / 160 / 200 / 240
275	1,2 / 1,6 / 2,0 / 2,5 / 3,0	32 / 40	72 / 78 / 84 / 96 / 110 / 120 / 144 / 180 / 220 / 280
300	1,6 / 2,0 / 2,5 / 3,0	32 / 38 / 40	80 / 90 / 100 / 110 / 120 / 140 / 160 / 200 / 240 / 320
315	2,0 / 2,5 / 3,0	32 / 40	72 / 80 / 90 / 100 / 110 / 120 / 140 / 160 / 200 / 250 / 320
325	2,0 / 2,5 / 3,0	32 / 40	90 / 100 / 110 / 130 / 150 / 170 / 200 / 250 / 320
350	2,0 / 2,5 / 3,0 / 3,5	32 / 40 / 50	80 / 90 / 110 / 120 / 140 / 160 / 180 / 220 / 280 / 350
370	2,0 / 2,5 / 3,0 / 3,5	32 / 40 / 50	70 / 80 / 90 / 100 / 110 / 120 / 140 / 160 / 190 / 220 / 300
400	2,5 / 3,0 / 3,5 / 4,0 / 4,5	32 / 40 / 50	70 / 80 / 90 / 100 / 128 / 140 / 160 / 180 / 200 / 250 / 320
425	2,5 / 3,0 / 3,5 / 4,0	32 / 40 / 50	80 / 80 / 100 / 110 / 120 / 130 / 140 / 160 / 180 / 220 / 260 / 350
450	2,5 / 3,0 / 3,5 / 4,0	40 / 50	80 / 90 / 100 / 120 / 140 / 180 / 240 / 280
500	3,0 / 3,5	40 / 50	90 / 100 / 110 / 130 / 160 / 200 / 260 / 310
525	3,0 / 3,5	50	90 / 104 / 120 / 140 / 164 / 210 / 270 / 330
550	3,5 / 4,0	50 / 80	100 / 110 / 120 / 150 / 180 / 220 / 300 / 360
560	3,5 / 4,0	50 / 80	100 / 110 / 130 / 140 / 170 / 220 / 80 / 340
600	3,5 / 4,0	50 / 80	100 / 120 / 130 / 160 / 190 / 240 / 320 / 380
630	3,0 / 3,5	50 / 80	100 / 120 / 130 / 160 / 190 / 240 / 320 / 380

For more information:

www.kinkelder.com

Cutting thin walled & stainless steel tubes and profiles



Power 2.0 saw blades provide an optimal combination of a rigid saw blade and a vibration-reducing thin kerf for cutting thin walled tubes and profiles on very demanding applications. A superior surface finish and low friction multilayer PVD coating ensure low vibration, less burr and reduced risk of tube-end deformation.

Advantages

- Ideal for very thin walled tubes and profiles
- Low friction, high hardness and high temperature resistant multilayer PVD coating
- Very suitable for extremely demanding applications
- Reduced cutting resistance
- Low vibration
- Less burr
- Reduced risk of tube-end deformation
- Wear resistant

APPLICATIONS

Cutting thin walled steel tubes and profiles

PARAMETERS

Suggested cutting speed: 120 - 200 m/min.
Feed: 0.04 - 0.18 mm/tooth.

MACHINES

Automatic, semi-automatic and flying cut off applications



The Power NX saw blade has specifically been designed for cutting (very) thin walled (stainless) steel tubes and profiles. A special, temperature resistant, thin PVD coating, combined with a thinned cutting area, enables these blades to be used for extremely demanding applications, like fast cutting of thin walled products.

Advantages

- Especially designed for cutting stainless steel
- Thin PVD coating with a very low friction coefficient and high hardness
- Very suitable for extremely demanding applications
- Low vibration
- Less burr
- Reduced risk of tube-end deformation
- Very high temperature resistance

APPLICATIONS

Cutting thin walled (stainless) tubes and profiles, sticky materials

PARAMETERS

Austenitic stainless steel (300 series)	Suggested cutting speed 30 - 50 m/min
Ferritic w/o Ti (409 & 412)	220 - 260 m/min
Ferritic with Ti (441)	60 - 120 m/min

MACHINES

Automatic, semi-automatic and flying cut off applications

TYPICAL AVAILABE HSS POWER 2.0 & POWER NX SAW BLADES

Diameter (mm)	Kerf (mm)	Bore hole (mm)	Teeth
160	1,2	32	80 / 100 / 120 / 160
200	1,2	32	72 / 100 / 128 / 160 / 200
225	1,2	32 / 40	64 / 80 / 90 / 120 / 150 / 180 / 220
250	1,2 / 1,6 / 1,8 / 2,0	32 / 40	64 / 80 / 100 / 110 / 128 / 160 / 200 / 240
275	1,2 / 1,8 / 2,0 / 2,5	32 / 40	72 / 78 / 84 / 96 / 110 / 120 / 144 / 180 / 220 / 280
315	1,8 / 2,0 / 2,5	32 / 40	72 / 80 / 90 / 100 / 110 / 120 / 140 / 160 / 200 / 250 / 320
350	1,8 / 2,0 / 2,2 / 2,5 / 3,0	32 / 40 / 50	80 / 90 / 110 / 120 / 140 / 160 / 180 / 220 / 280 / 350
370	1,8 / 2,0 / 2,5 / 3,0	32 / 40 / 50	70 / 80 / 90 / 100 / 110 / 128 / 140 / 160 / 190 / 220 / 300
400	2,0 / 2,2 / 2,5 / 3,0	32 / 40 / 50	70 / 80 / 90 / 100 / 128 / 140 / 160 / 180 / 200 / 250 / 320
425	2,5 / 3,0	32 / 40 / 50	70 / 80 / 100 / 110 / 120 / 130 / 140 / 160 / 180 / 220 / 260 / 350
450	2,5 / 3,0	40 / 50	80 / 90 / 100 / 120 / 140 / 180 / 240 / 280
600	3,0	50 / 80	100 / 120 / 130 / 160 / 190 / 240 / 320

TUBES



- 1** Highest blade life
- 2** High blade life
- 3** Medium blade life
- 4** Working alternative

		Manual-semi/automatic machines						Automatic machines						Flying cut-off										
		Steel < 400 N/mm ²	Steel 400 - 650 N/mm ²	Steel 650 - 800 N/mm ²	Steel 800 - 1200 N/mm ²	Steel > 1200 N/mm ²	Stainless steel 300 series	Stainless steel 400 series	Steel < 400 N/mm ²	Steel 400 - 650 N/mm ²	Steel 650 - 800 N/mm ²	Steel 800 - 1200 N/mm ²	Steel > 1200 N/mm ²	Stainless steel 300 series	Stainless steel 400 series	Steel < 400 N/mm ²	Steel 400 - 650 N/mm ²	Steel 800 - 1200 N/mm ²	ID Scarf 800 - 1200 N/mm ²	Orbital 800 - 1200 N/mm ²	Stainless 300 series	Orbital Stainless 300 series	Stainless steel 400 series	
	Alpha	3	4				4	3																
	Solar	2	3				3	2	4	4				4	4	4	4				4			4
	FernoX	1	2				2	1	4	4				3	4	3	3				3			3
	Fusion 2.0		1						2	2				2	1	1								1
	Fusion NX						1		3	3				2	3	2	2				1			2

THIN WALLED TUBES



- 1** Highest blade life
- 2** High blade life
- 3** Medium blade life
- 4** Working alternative

		Manual-semi/automatic machines						Automatic machines						Flying cut-off										
		Steel < 400 N/mm ²	Steel 400 - 650 N/mm ²	Steel 650 - 800 N/mm ²	Steel 800 - 1200 N/mm ²	Steel > 1200 N/mm ²	Stainless steel 300 series	Stainless steel 400 series	Steel < 400 N/mm ²	Steel 400 - 650 N/mm ²	Steel 650 - 800 N/mm ²	Steel > 1200 N/mm ²	Stainless steel 300 series	Stainless steel 400 series	Duplex stainless steel	Steel < 400 N/mm ²	Steel 400 - 650 N/mm ²	Steel 800 - 1200 N/mm ²	ID Scarf 800 - 1200 N/mm ²	Orbital 800 - 1200 N/mm ²	Stainless 300 series	Orbital Stainless 300 series	Stainless steel 400 series	
	Alpha																							
	Solar																							
	FernoX																							
	Fusion 2.0																							
	Fusion NX																							
	Power 2.0																							
	Power NX																							

SOLIDS



- 1** Highest blade life
- 2** High blade life
- 3** Medium blade life
- 4** Working alternative

		Manual-semi/automatic machines						
		Steel < 400 N/mm ²	Steel 400 - 650 N/mm ²	Steel 650 - 800 N/mm ²	Steel 800 - 1200 N/mm ²	Steel > 1200 N/mm ²	Stainless steel 300 series	Stainless steel 400 series
	Alpha	4	4				4	4
	Solar	3	3				3	3
	FernoX	2	2				2	2
	Fusion 2.0	1	1				1	1

For more information about the Kinkelder Alpha, Solar and FernoX saw blades, please check our HSS Standard catalog.



With the Kinkelder saw blades app, you will be able to find all (technical) information regarding your specific steel cutting applications and the use of Kinkelder saw blades.





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