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.

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.

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, 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	70 / 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 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.

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.

APPLICATIONS	Cutting thin walled (stainless) tubes and profiles, sticky materials	
PARAMETERS		**Suggested cutting speed**
	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, 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

Cutting high tensile (stainless) steel tubes and profiles

X-treme 2.0 embodies the best features of both the Fusion and Power saw blades. Due to a stable, flat hub and improved conicity of the cutting area, X-treme 2.0 saw blades offer a stable and highly accurate solution when cutting high tensile steel tubes and profiles on a very high performance level.

APPLICATIONS	Cutting steel tubes and profiles with a tensile strength up to 1000 N/mm^2
PARAMETERS	Suggested cutting speed: 120 - 260 m/min Feed: 0.04 - 0.22 mm/tooth.
MACHINES	High quality automatic

A dedicated low friction, thin PVD coating with a very high temperature resistance, as well as a stable, flat hub and improved conicity of the cutting area enable the X-treme NX saw blade to cut stainless steel tubes and profiles.

APPLICATIONS	(Stainless) steel tubes, profiles and sticky materials	
PARAMETERS		**Suggested cutting speed**
	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	High quality automatic	

TYPICAL AVAILABE HSS X-TREME 2.0 & X-TREME NX SAW BLADES

Diameter (mm)	**Kerf** (mm)	**Bore hole** (mm)	**Teeth**
225	2,5	32 / 40	64 / 80 / 90 / 120 / 150 / 180 / 220
315	2,0 / 2,5	32 / 40 / 50	72 / 80 / 90 / 100 / 110 / 120 / 140 / 160 / 200 / 250 / 320
350	2,0 / 2,5	32 / 40 / 50	80 / 90 / 110 / 120 / 140 / 160 / 180 / 220 / 280 / 350
370	2,5	32 / 40 / 50	70 / 80 / 90 / 100 / 110 / 128 / 140 / 160 / 190 / 220 / 300
400	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

TUBES

1 Best product - Highest blade life
2 2nd best product - High blade life
3 3rd best product - Medium blade life
4 Working alternative

	Manual							High quality automatic							Flying cut-off							
	Steel < 400 N/mm²	Steel 400 - 650 N/mm²	Steel 650 - 800 N/mm²	Steel 800 - 1200 N/mm²	Steel > 1200 N/mm²	Stainless steel 300 series	Stainless steel 400 series	Steel < 400 N/mm²	Steel 400 - 650 N/mm²	Steel 650 - 800 N/mm²	Steel 800 - 1200 N/mm²	Steel > 1200 N/mm²	Stainless steel 300 series	Stainless steel 400 series	Steel < 400 N/mm²	Steel 400 - 650 N/mm²	Steel 800 - 1200 N/mm²	ID Scarf Steel 800 - 1200 N/mm²	Orbital Steel 800 - 1200 N/mm²	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
Eclipse	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
X-treme 2.0								1	1					1								
X-treme NX								3	3				1	3								

THIN WALLED TUBES

1 Best product - Highest blade life
2 2nd best product - High blade life
3 3rd best product - Medium blade life
4 Working alternative

	Manual							High quality automatic							Flying cut-off							
	Steel < 400 N/mm²	Steel 400 - 650 N/mm²	Steel 650 - 800 N/mm²	Steel 800 - 1200 N/mm²	Steel > 1200 N/mm²	Stainless steel 300 series	Stainless steel 400 series	Steel < 400 N/mm²	Steel 400 - 650 N/mm²	Steel 650 - 800 N/mm²	Steel > 1200 N/mm²	Stainless steel 300 series	Stainless steel 400 series	Duplex stainless steel	Steel < 400 N/mm²	Steel 400 - 650 N/mm²	Steel 800 - 1200 N/mm²	ID Scarf Steel 800 - 1200 N/mm²	Orbital Steel 800 - 1200 N/mm²	Stainless 300 series	Orbital Stainless 300 series	Stainless steel 400 series
Alpha	4																					
Solar	3	4				4	4	4	4			4	4		4	4				4		4
Eclipse	2	3				3	3	4	4			3	4		3	3				3		4
Fusion 2.0		2						3	2				2		1	1				2		3
Fusion NX						2	2	4	3			3	3		2	2				1		4
Power 2.0	1	1					2	1	1				1		1	1						1
Power NX						1	1	2	2			1	2		2	2				1		2
X-treme 2.0								1	1				1									
X-treme NX								2	3			1	3									

SOLIDS

1 Best product - Highest blade life
2 2nd best product - High blade life
3 3rd best product - Medium blade life
4 Working alternative

	Manual						
	Steel < 400 N/mm²	Steel 400 - 650 N/mm²	Steel 650 - 800 N/mm²	Steel 800 - 1200 N/mm²	Steel > 1200 N/mm²	Stainless steel 300 series	Stainless steel 400 series
Alpha	4	4				4	4
Solar	3	3				3	3
Eclipse	2	2				2	2
Fusion 2.0	1	1				1	1

For more information about the Kinkelder Alpha, Solar and Eclipse 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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For more information:
www.kinkelder.com

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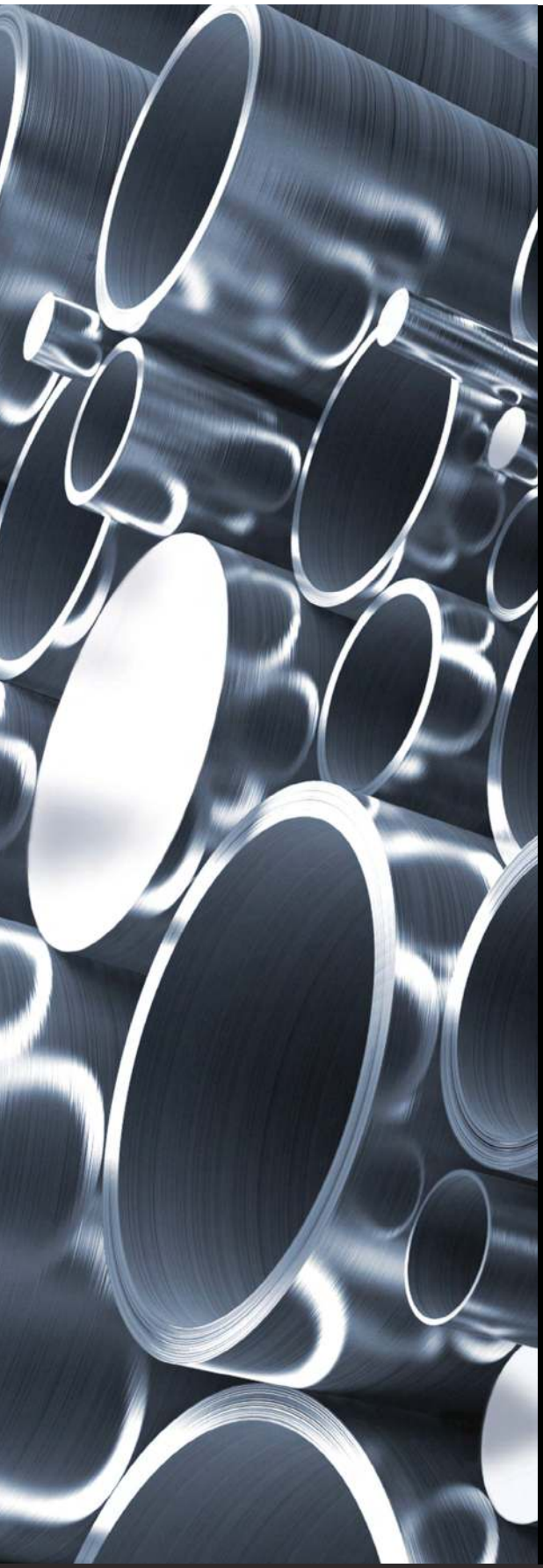

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