



ECIO Efficient
Competitive
Innovative
Outstanding

Solid Carbide End Mills

The ideal option for efficient cutting

 **PT SOLO INTER SINERGI**

Ceper, Kec. Ceper, Kabupaten Klaten, Jawa Tengah 57465

Telepon: 0851-8313-8562

 **0851-8313-8562**

- | | | |
|----|----------------------------|---|
| 1 | 立銼刀柄(33-47)
徑銼端銼(34-77) | 2/4 Flutes Square End Mills 35°
4 Flutes Square End Mills 45° |
| 2 | 長柄立銼刀 (33-41) | 2/4 Flutes Square End Mills-Long Shank |
| 3 | 圓球立銼刀 (59-43) | 2/4 Flutes Round End Mills-Long Shank |
| 4 | 重負立銼刀 (39-80) | 2/4 Flutes Heavy Duty Operation Square(A12(U72°)) |
| 5 | 長柄立銼刀 (30-96) | 2/4 Flutes End Mills-Asymmetric Helix Angle(846/47°)-Unequaled Indexing
4 Flutes Square End Mills-For Stainless Steels |
| 6 | 不銹鋼立銼刀 (83-96) | 2/4 Flutes Square End Mills-Long Shank |
| 7 | 圓球鼻銼刀 (32-92) | 2/4 Flutes Ball Nose End Mills |
| 8 | 圓球鼻銼刀 (33-40) | 2/4 Flutes Ball Road End Mills-Long Shank |
| 9 | 圓球鼻銼刀 (83-92) | 2/4 Flutes Ball Nose End Mills-Long Shank |
| 10 | 銼刀(8-2) | 4 Flutes Square End Mills -Long Shank |
| 11 | 長柄立銼刀 (83-90) | 3 Flutes Square End Mills-Long Neck |
| 12 | 圓球鼻銼刀 (20-96) | 2 Flutes Square End Mills-Long Neck |
| 13 | 圓球鼻銼刀 (21-80) | 3 Flutes Radius End Mills-Long Shank |
| 14 | 圓球鼻銼刀 (93-90) | 4 Flutes Square End Mills 35° |
| 15 | 圓球鼻銼刀 (94-90) | 3 Flutes Square End Mills 35° |
| 16 | 圓球鼻銼刀(6.247) | 2 Flutes Round Squaar End Mills |
| 17 | 特殊銼頭(10) | Special Cutting Tools (3)73 |

》 24 Flutes Square End Mills 35°

- 適用材質：會鋼、工具鋼、調質鋼、難處理鋼
- WORK MATERIAL: Cast Iron / Alloy Steels / Tool Steels, Hardened Steels, Prehardened Steels

EAC26 系列 (款34-37)


Model 型號	FLUTES 4	Cut Length L1 (m)	Helix Angle (1-)	Shaft Diameter (mm)
EAC266005	4	4	35°	50
EAC269905	4	4	35	50
EAC268505	4	5	35	60
EAC268005	5	6	30	60
EAC268305	4	6	40	80
EAC206905	4	9	30	60
EAC268005	3	6	30	92
EAC203305	6	7	35	70
EAC204000	5	9	52	60
EAC206010	9	9	90	90
EAC206035	10	10	60	42
EAC264005	10	19	69	92
EAC263005	12	13	90	90
EAC264006	18	12	90	100

》 4 Flutes Square End Mills 45°

- 適用材質：會鋼、工具鋼、調質鋼、難處理鋼
- WORK MATERIAL: Cast Iron / Alloy Steels / Tool Steels, Hardened Steels, Prehardened Steels

EB4C 系列 (款55-47)


Model 型號	FLUTES 4	Cut Length L1 (m)	Helix Angle (1-)	Shaft Diameter (mm)
EBAC04405	4	4	40°	50
EBAC03505	4	4	45	52
EBAC06205	4	5	45	60
EBAC04505	5	6	30	60
EBAC03905	4	6	35	90
EBAC03346	4	9	30	60
EBAC04005	9	6	42	62
EBAC04005	10	7	55	70
EBAC04010	10	9	52	80
EBAC06016	10	9	80	90
EBAC06035	14	10	90	90
EBAC06055	12	18	90	70
EBAC43005	12	12	70	109

2/4 Flutes Square End Mills-Long Shank

EAC26 系列 (第38-40) (據4-47)

- WORK MATERIAL: Cast Iron / Alloy Steels / Tool Steels,
- Hardened Steels, Prehardened Steels

FLUTES 2	CUT LENGTH 4	DIAMETER 30	HELIX ANGLE 36°
-------------	-----------------	----------------	--------------------

Mode (後通刃)	Diameter 直徑	切刀全長 (徑深)	Helix Angle 傾角	Shaft Diameter (徑深)	全長 (徑深)
EAC260201	2	7	4	4	105
EAC260201	4	9	5	5	105
EAC260201	5	9	5	6	105
EAC260201	6	15	5	7	100
EAC260201	7	15	5	9	100
EAC260201	8	19	7	8	105
EAC260201	9	14	7	9	100
EAC260201	10	15	7	10	150

2/4 Flutes Square End Mills-Long Flute

EAC26 系列 (第41-43) (據75)

Mode (後通刃)	Diameter 直徑	切刀全長 (徑深)	Helix Angle 傾角	Shaft Diameter (徑深)	全長 (徑深)
EAC260405	4	20	4	4	125
EAC260405	5	20	5	4	100
EAC260205	5	25	5	5	100
EAC260205	6	30	5	6	105
EAC260905	9	35	8	7	100
EAC260205	10	40	6	8	100
EAC261010	10	50	10	9	150

2/4 Flutes Square End Mills-Long Flute

EAC26 系列 (第41-43) (據75)



Mode (後通刃)	FLUTES A	Cut Length (徑深)	Helix Angle 傾角	Shaft Diameter (徑深)	全長 (徑深)
EAC260405	4	20	35°	4	75
EAC260405	4	20	35°	5	160
EAC260405	5	20	35°	6	75
EAC260405	9	35	35°	5	90
EAC260405	6	35	35°	8	115
EAC260205	8	35	55°	10	100
EAC260405	10	35	35°	10	150
EAC260405	10	35	55°	10	150
EAC260805	10	35	30°	10	150
EAC260805	10	35	50°	10	150
EAC261010	10	35	50°	10	150

2/4 Flutes Square End Mills-Long Flute

EAC26 系列 (第41-43) (據75)



Mode (後通刃)	FLUTES A	Cut Length (徑深)	Helix Angle 傾角	Shaft Diameter (徑深)	全長 (徑深)
EAC260405	4	20	35°	4	75
EAC260405	4	20	35°	5	160
EAC260405	5	20	35°	9	150
EAC260405	9	35	55°	10	150
EAC260205	10	35	35°	10	150
EAC260205	10	45	50°	10	150
EAC261020	10	35	60°	16	150

- WORK MATERIAL: Cast iron / Alloy Steels / Tool Steels,
- Hardened Steels, Prehardened Steels

FLUTES 4	CUTLENGTH 35°	HELIX ANGLE 46°
-------------	------------------	--------------------



Mode 刃型号	Diameter 直径	Cut Length (mm)	刃刃角度 O (度)	Full Length (mm)
EBC8C0405	4	5	4	50
EBC8C0410	4	15	6	50
EBC8C0420	4	15	8	50
EBC8C0510	6	20	8	60
EBC8C0520	6	20	9	70
EBC8C0605	6	25	8	90
EBC8C0800	8	25	8	100

» 4 Flutes End Mills-Asymmetric Helix Angle(40°/42°)

EAC4M系列 (页50-51)



Mode 刃型号	Diameter 直径	刃刃长度 (mm)	HELIX ANGLE (度)		Shaft Diameter 轴径 (mm)	全长 (mm)
			A	B		
EAACM04015	4	15	40°	42°	4	65
EAACM04025	4	15	40°	42°	6	65
EAACM06015	6	25	40°	42°	6	70

4 Flutes End Mills-Asymmetric Helix Angle(40°/42°)/Unequal Indexed

EACAC系列 (页52-53)



Mode 刃型号	Diameter 直径	Cut Length (mm)	HELIX ANGLE (度)		Full Length (mm)
			A	B	
EAC4C04010	4	10	40°	42°	50
EAC4C05010	5	15	40°	42°	60
EAC4C06015	6	15	40°	42°	70

» 4 Flutes Square End Mills-For Stainless Steels

EAAC系列 (页46-47)



Mode 刃型号	Diameter 直径	Cut Length (mm)	HELIX ANGLE (度)	Shaft Diameter 轴径 (mm)	全长 (mm)
EAAC05015	5	15	45°	6	60
EAAC06015	6	15	43°	6	70

- WORK MATERIAL: Cast Iron / Alloy Steels / Tool Steels,
- Hardened Steels, Prehardened Steels

FLUTES 4	CUT LENGTH 3.4	DIAMETER 25	HELIX ANGLE 35°
-------------	-------------------	----------------	--------------------



Mode 点切类	Diameter 直径	Cut Length 刃长	Helix Angle 35°	Shaft Diameter 柄径	全长 全长
ECAC040092	0.4	0.3	35°	4	50
ECAC040010	0.6	0.2	35°	4	50
ECAC040020	0.8	0.3	35°	4	50
ECAC046020	0.8	0.2	35°	4	50
ECAC069013	0.6	0.2	35°	4	50
ECAC060130	0.8	0.3	35°	4	50
ECAC080015	0.8	0.2	35°	4	50
ECAC060126	0.8	0.2	35°	4	50
ECAC060113	0.6	0.2	35°	4	50
ECAC050129	0.8	0.2	35°	4	50
ECAC080220	0.8	0.2	35°	4	50
ECAC080130	0.6	0.2	35°	4	50
ECAC080136	0.8	0.2	35°	4	50
ECAC060100	0.8	0.2	35°	4	50
ECAC050105	2.0	3.2	35°	4	50
ECAC050123	2.0	3.0	35°	4	50
ECAC060130	2.0	6.0	35°	4	50
ECAC060130	2.0	8.0	35°	4	50
ECAC060150	2.0	6.0	35°	4	50
ECAC300190	2.0	8.2	35°	4	50
ECAC300320	2.0	8.2	35°	4	50
ECAC300322	2.0	3.2	35°	4	75

Mode 点切类	Diameter 直径	Cut Length 刃长	Helix Angle 35°	Flutes 齿数	Shaft Diameter 柄径	全长 全长
ECAC040009	0.4	0.2	35°	2	4	50
ECAC040002	0.8	0.2	35°	2	4	50
ECAC040003	0.6	0.2	35°	4	4	50
ECAC040004	0.6	0.2	35°	2	4	50
ECAC049005	0.8	0.3	35°	4	4	50
ECAC046008	0.6	0.2	35°	4	4	50
ECAC049066	0.8	0.2	35°	4	4	50
ECAC046009	0.8	0.2	35°	4	4	50
ECAC046010	0.6	0.2	35°	4	4	50
ECAC046012	0.8	0.2	35°	4	4	50
ECAC046016	0.8	3.2	35°	6	4	50
ECAC046019	0.8	2.2	35°	4	4	50
ECAC046015	0.6	2.2	35°	6	4	50
ECAC046027	0.8	2.2	35°	4	4	50
ECAC046032	0.6	3.2	35°	4	4	50
ECAC046079	0.8	3.2	35°	6	4	50
ECAC046020	0.8	3.2	35°	6	4	50



- WORK MATERIAL: Cast Iron / Alloy Steels / Tool Steels.
- Hardened Steels, Prehardened Steels

FLUTES 2	CUT LENGTH 36°	HELIX ANGLE 30°
-------------	-------------------	--------------------



Mode 序號	Diameter 直徑	Cut Length 刃長	傾角 (自旋)	Shaft Diameter [稱徑] (自旋)	選裝
BD2C06044	0.5	0.8	35°	4	50
BD2C06046	1.0	1.0	35°	4	50
BD2C06050	3.5	1.5	35°	4	50
BD2C05016	2.5	2.5	35°	4	50
BD2C06050	3.5	3.0	35°	4	50
BD2C06030	2.5	2.0	35°	4	50
BD2C05016	4.5	3.5	35°	4	50
BD2C06010	2.5	2.5	35°	4	50
BD2C08016	2.8	3.8	35°	4	50
BD2C08016	2.3	3.9	35°	4	50
BD2C08016	2.0	3.9	35°	4	50
BD2C09016	2.3	4.5	35°	4	50
BD2C08016	2.9	4.5	35°	4	50
BD2C08016	2.9	5.2	35°	4	50
BD2C08016	2.2	6.0	35°	4	50
BD2C09016	2.5	6.8	35°	4	50
BD2C09016	2.5	7.0	35°	4	50
BD2C08016	2.5	9.2	35°	4	50
BD4C09016	3.5	10	35°	4	50

» 2/4 Flutes Ball Nose End Mills-Long Shank

BD4C 系列 (真82-83)



Mode 序號	Diameter 直徑	Cut Length 刃長	Helix Angle 50°	Shaft Diameter 稱徑	全長 (自旋)
BD4C040040	0.4	0.4	35°	4	150
BD4C040059	4.0	1.0	35°	4	150
BD4C040070	8.0	1.5	35°	4	150
BD4C040015	6.0	2.9	35°	4	150
BD4C040016	6.5	3.0	35°	4	150
BD4C040016	3.0	3.2	35°	4	150
BD4C040016	6.0	3.2	35°	4	150
BD4C040016	5.0	3.2	35°	4	150
BD4C040016	6.0	3.3	35°	4	150
BD4C040016	8.0	3.2	35°	4	150
BD4C040016	9.0	3.2	35°	4	150
BD4C080016	6.5	3.5	35°	4	150
BD4C090016	4.5	3.5	35°	4	150
BD4C090012	6.5	3.9	35°	4	150
BD4C090012	7.0	3.5	35°	4	150
BD4C090012	8.0	3.8	35°	4	150
BD4C090016	8.0	3.8	35°	4	150
BD4C060014	6.5	3.8	35°	4	150
BD4C060030	5.0	3.5	35°	6	150



- WORK MATERIAL: Cast Iron / Alloy Steels / Tool Steels,
- Hardened Steels, Prehardened Steels

FLUTES 1	CUT LENGTH 3mm	HELIX ANGLE 30°
-------------	-------------------	--------------------



Mode 型號	Radius 半徑	半徑 全徑	Cut Length 切削長度	螺旋角 (度)	Shaft Diameter 軸徑	長度 (mm)
BD2NC04008	0.5	7	0.5	35°	4	50
BD2NC04015	0.5	7	1.0	35°	4	50
BD2NC04013	1.0	8	1.0	35°	4	50
BD2NC03038	1.0	8	1.0	35°	4	50
BD2NC03016	1.5	11	1.5	35°	4	50
BD2NC09008	1.2	10	2.5	35°	4	50
BD2NC09015	1.3	10	2.5	35°	4	50
BD2NC09018	1.3	15	2.5	35°	4	50

Mode 型號	Diameter 直徑	半徑 半徑	Cut Length (切削長度)	螺旋角 (度)	長度 (mm)	Shaft Diameter 軸徑
BD2NC04008	0.3	0.5	1.3	35°	4	50
BD2NC08015	1.1	1.0	1.5	35°	4	50
BD2NC08006	1.1	1.1	1.5	35°	4	50
BD2NC08086	1.5	1.3	2.0	35°	4	50
BD2NC09010	1.2	1.5	2.5	35°	4	50
BD2NC09016	1.5	4.0	2.3	35°	4	50
BD2NC09016	1.5	3.5	2.7	35°	4	75

» 4 Flutes Corner Radius End Mills

CA4C 系列 (頁86-87)



Mode 型號	Diameter 直徑	Radius 半徑	Cut Length 切削長度	Helix Angle 35°	Shaft Diameter 軸徑	長度 (mm)
C44C090063	0.4	3	17	35°	4	50
C44C080102	0.5	2	2.4	35°	4	50
C44C080123	1.0	3.2	2.3	35°	4	50
C44C080016	1.0	1.2	2.0	35°	4	50
C44C080180	2.0	1.5	2.5	35°	4	50
D44C080200	2.5	1.3	2.5	35°	4	50
D44C080025	4.0	1.5	2.3	35°	4	50
D44C080038	3.0	8.5	2.3	35°	4	75

» 4 Flutes Corner Radius End Mills-Long Shank

DA4C 系列 (頁88-89)



Mode 型號	Diameter 直徑	Radius 半徑	Cut Length 切削長度	Helix Angle 35°	Shaft Diameter 軸徑	長度 (mm)
D44C04083	0.4	2	10	35°	4	150
D44C01052	0.5	2	2.4	35°	4	150
D44C01048	1.0	3.2	2.5	35°	4	150
D44C01058	2.5	1.2	2.3	35°	4	150
D44C0101D	2.0	1.5	3.0	35°	4	150
D44C01086	2.0	1.5	2.5	35°	4	150
D44C01090	4.0	1.5	2.5	35°	4	150
D44C01036	5.0	8.5	2.5	35°	4	150
D44C01070	3.0	8.5	2.3	35°	4	150



CA2NC 系列 (頁91-92)

- WORK MATERIAL: Cast 鋁 鋼 1/5 teels / Tool Steels,
- Hardened Steels, Prehardened Steels



Mode 型號	Diameter 直徑	切長 刃長	Cut Length 切齒長	切齒角 (與底)	Shaft Diameter 柄徑	柄長 (與身)
CA2NC04008	0.4	1.2	1.3	33°	4	50
CA2NC04019	0.5	1.2	1.7	35°	4	50
CA2NC05006	1.5	1.2	1.7	35°	4	50
CA2NC09018	1.5	1.2	1.7	35°	4	50
CA2NC09018	1.5	1.2	2.5	35°	4	50
CA2NC09018	1.5	1.2	2.5	35°	4	50
CA2NC09016	1.5	1.5	2.5	35°	4	50
CA2NC09016	1.5	1.5	2.5	35°	4	50
CA2NC09124	1.5	1.5	2.5	35°	4	50
CA2NC09016	1.5	1.5	2.5	35°	4	50
CA2NC09016	1.5	1.5	2.5	35°	4	50
CA2NC09016	1.5	1.5	2.5	35°	4	50
CA2NC09016	1.5	1.5	2.5	35°	4	50
CA2NC09016	1.5	1.5	2.5	35°	4	50
CA2NC09124	1.5	1.5	2.5	35°	4	50
CA2NC09028	1.5	1.5	2.5	35°	4	50
CA2NC09018	1.5	1.5	2.5	35°	4	50
CA2NC09016	1.5	1.5	2.5	35°	4	50
CA2NC09016	1.5	1.5	2.5	35°	4	75

» 3 Flutes Square End Mills 45° for Aluminum

HB3CA 系列 (頁93-94)



Mode 型號	Diameter 直徑	Cut Length 切齒長	Helix Angle 30°	Shaft Diameter 柄徑	Full Length 全長
HE3CA0418	2	5	45	4	50
HE3CA0150	3	12	45	4	50
HE3CA0160	6	20	45	4	50
HE3CA0250	5	20	45	6	50
HE3CA0380	10	30	45	8	50
HE3CA0500	10	25	45	12	50
HE3CA0610	12	25	45	12	50

»» 3 Flutes Square End Mills-55° for Aluminum

HC3CA 系列 (頁55-97)



Mode 型號	Diameter 直徑	Cut Length 切齒長	Helix Angle 30°	Shaft Diameter 柄徑	Full Length 全長
HC3CA0412	2	6	45	4	50
HC3CA0150	3	12	45	4	50
HC3CA0180	6	20	45	6	50
HC3CA0912	6	30	45	12	50
HC3CA0550	6	30	45	10	50
HC3CA0610	10	25	45	12	50
HC3CA0610	10	25	45	10	100



- WORK MATERIAL : Aluminum, Copper alloy



Mode 型號	Diameter 直徑	刃長 牙徑	Flute Length 牙長	傾角 傾角	Shaft Diameter 軸徑
HB3ACA0012	4	12	12	45°	50
HB3ACA0012	5	1.2	20	45°	50
HB3ACA0020	6	20	32	45°	75
HB3ACA0832	8	32	32	45°	75

» Ø0.7/1.0/1.5 No Spot Drills

DP5CA系列 (頁99-99)



Mode 型號	Diameter 直徑	Reclia 牙徑	Cut Length 牙長	Helix Angle 45°	Shaft Diameter 軸徑	總長 (備註)
DP3CA0705	0.7	0.3	12	30°	4	50
DP3CA0002	0.8	0.2	1.5	30°	4	50
DP3CA0069	0.8	0.4	12	30°	4	50
DP3CA0610	0.5	0.6	12	30°	5	50
DP3CA0012	0.8	0.9	1.5	30°	4	50
DP3CA10015	1.1	2.5	1.5	35°	4	75

» 2 Flutes Miniature Square End Mills

ED2CA系列 (頁95-97)



- WORK MATERIAL : 正鈹 鍍硬 錳 5 工具鋼, 不銹鋼, 處理鋼
- Cast Iron, Alloy Steels, Tool Steels, Hardened Steels, Prehardened, Steels



Mode 型號	Diameter 直徑	刃長 牙徑	Flute Length 牙長	傾角 傾角	傾角 傾角	Shaft Diameter 軸徑
ED2CA03005	0.3	0.15	0.15	30°	4	50
ED2CA04006	0.4	0.23	0.23	30°	4	50
ED2CA05006	0.6	0.4	0.4	80°	4	50
ED2CA08010	0.8	0.3	0.6	30°	4	50
ED2CA08012	1.0	4.5	1.5	30°	4	50
ED2CA10015	1.1	1.5	1.5	30°	4	50

» Ø0.7/1.0/15 No Spot Drills

DP3CA系列 (頁99-95)

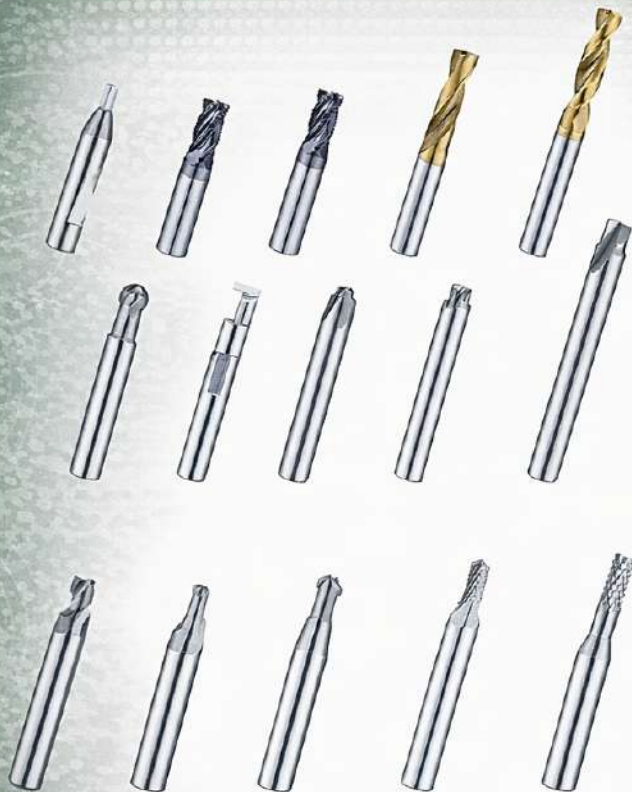


- WORK MATERIAL : 正鈹 鍍硬 錳 鋼, 工具鋼, 處理鋼
- Cast Iron, Alloy Steels Toels, Haredened Steels, Prehardened Steels



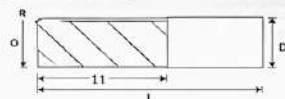
Mode 型號	Diameter 直徑	Flute Length 牙長	Helix Angle 20°	Shaft Diameter 軸徑	Full Length 全長
DP3CA0793	0.7	0.8	130°	4	50
DP3CA1016	0.9	0.8	120°	4	50
DP3CA1507	0.9	0.8	120°	4	50
DP3CA1988	1.2	0.8	120°	4	50
DP3CA1380	1.2	1.5	120°	4	50
DP3CA1385	1.5	1.5	120°	3	50



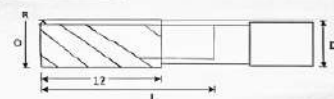


» **Pemintaan Customer/Contact Information**

S1031009/Mode: 001



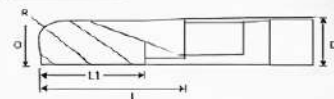
S1031010/Mode: 006



S1031009/Mode: 003



S1031010/Mode: 003



實情與Pisau Dissuaikan/carsat information

Perusahaan (Company Name)		
Nama Kontak	Tel. lenail	
Alamat Email		
Alamat (Address)		

Mode 型號	Diameter 直徑	Radius 半徑	Panjang 長度	Effective Length 有效長度	Bilah (Dasnet) 插齒(%)	Total Panjang (PCS)
			30			50
			30			50
			50			50

Pisau-potong untuk disesuaikan / baru Pemrograman / Alperatus Cutting Tools.

