

# STRAUSS & CO.

## INDUSTRIAL DIAMONDS LTD.

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# STRAUSS & CO.

## INDUSTRIAL DIAMONDS LTD.

"Strauss & Co." manufactures high quality electroplated diamond & CBN tools. Since 1970 the company has been active in the manufacture and distribution of diamond & CBN tools.

"Strauss & Co." dedicates itself to the development of unique products and strives to keep it's products on the "quality edge".

Our quality system is ISO 9001:2000, ISO 14001, ISO 13485 certified, and all our dental tools meet rule 93/42 EU and are CE certified.

Strauss & Co.'s products are distributed in approximately 40 countries via our global sales organization, which keeps track of the latest innovations, developments and materials in the cutting & grinding fields with super abrasives products.

"Strauss & Co." consists of 3 divisions:

### 1. Industrial Diamond & CBN Tools:

"Strauss & Co." presents the industrial markets with a wide range of electro-plated tools for grinding, cutting, filing and polishing of a variety of metals and composites.

Amongst our various products are:

- Diamond files in various shapes and sizes.
- Diamond & CBN grinding pins for internal grinding in standard and non-standard sizes.
- Diamond & CBN grinding wheels in standard shapes and custom made to clients' specifications.

### 2. Dental Diamond Tools:

- FG burs for dentists. We carry a wide range of profiles and 6 types of grit sizes, suitable for most profiles: - Super coarse; Coarse; Medium; Fine; Super fine and Extra extra fine.
- Hp dental tools for dental laboratories.





### 3. Vacuum Brazed Diamond & CBN Tools:

This new and unique manufacturing technology offers numerous advantages in the production of custom made profile tools for the ceramics, metalworking and stone grinding industries.

This line of products includes diamond routers in various shapes for the stone and marble industry; profile tools for fiberglass and re-inforced plastics industries; and dressing rolls for the dressing of conventional grinding wheels in precision profile grinding.

"Strauss & Co." continues to strive for a better understanding of its customers' needs, and is recognized as a flexible and customer-oriented company. Our goal is to serve our customer with the highest quality tools and as

*"The composer of tools"* we trust you will enjoy our performance.



*The composer of tools*

Strauss & co.

The composer of tools





# Diamond Files

**STRAUSS & CO.**  
INDUSTRIAL DIAMONDS LTD.





# STRAUSS & CO.

STRAUSS & CO. offers a comprehensive range of diamond files in various shapes and grit sizes. This enables the end user to choose the most suitable file for any given application, including hard to reach areas.

The Strauss diamond file blanks are precision swiss made blanks of hardened steel. These blanks are electroplated with ultra high concentration of precisely graded diamond particles specifically designed for abrasive surfaces.



## MI - Escapement Files

### Description & Use:

*STRAUSS & CO.'s Mini Files* are used in a variety of applications where fine and accurate work is necessary. They are manufactured in 7 popular profiles. The dimensions of the Mini set and its compact package enable the user to carry it in his pocket for immediate use.

### Size:

Total length 140mm. Diamond coated length 40mm.



Profile	Description	Size mm*	Cat. No.
	Half Round	4.3X1.8	MI8608
	Crossing	4.2X1.8	MI8609
	Barrette	3.9X1.4	MI8610
	Three Square	3.1	MI8614
	Equalling	3.9X1.1	MI8617
	Square	2.0	MI8619
	Round	1.7	MI8621



Half Round 4.3X1.8 MI8608



Crossing 4.2X1.8 MI8609



Barrette 3.9X1.4 MI8610



Three Square 3.1 MI8614



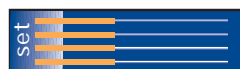
Equalling 3.9X1.1 MI8617



Square 2.0 MI8619



Round 1.7 MI8621



Cat. No. MI8632

The Mini set includes the following 5 files: 8608, 8614, 8617, 8619, 8621.

### Grit Size:

Available in grit sizes: D30 (#600), D54 (#325/400), D91 (#170/200), D126 (#120/140), D181 (#80/100). Other grit sizes are available upon request.

### Remarks:

Tolerance: Length  $\pm 1.0$ mm. Profile  $\pm 0.3$ mm.

\* Above sizes are for D126



## NF - Diamond Needle Files

### Description & Use:

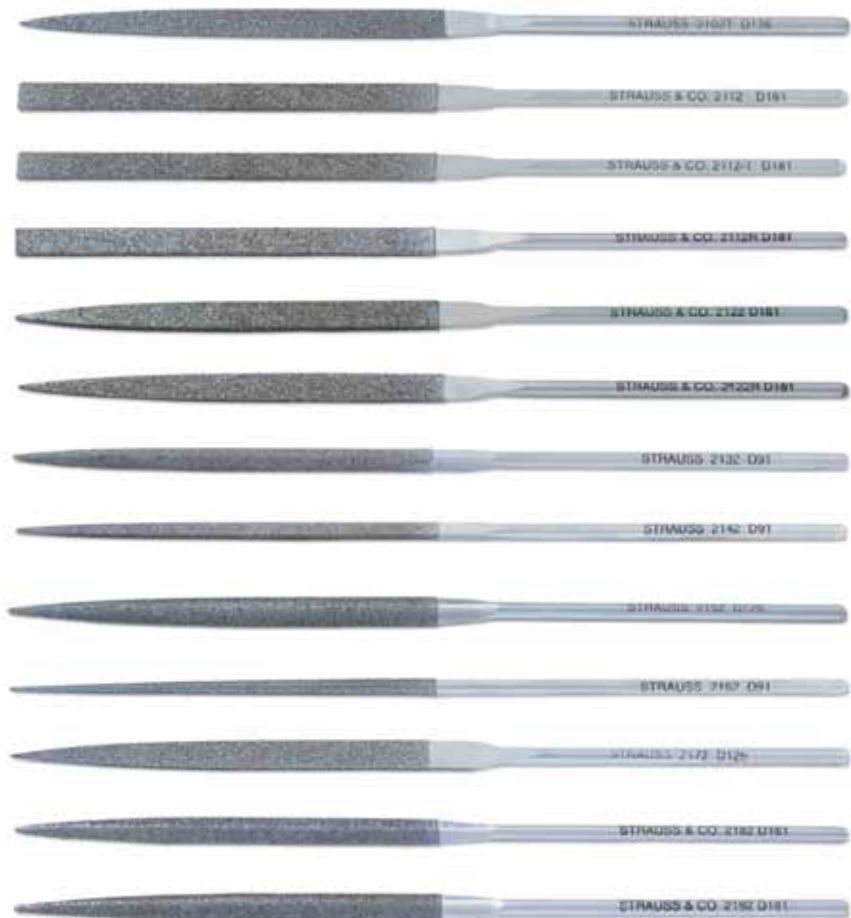
STRAUSS & CO.'s medium sized **Needle Files** are the most popular files. Used for grinding different metals and hard materials such as: Tungsten carbide, steels of 40Hrc and harder, ceramic materials, glass etc. A must for any tool and die shop, extruders and repairs of hardened alloys and ceramics. The NF File has a round shank of  $\varnothing 3.0\text{mm}$ , suitable for handle, Cat. No. handlenf. (Page no.23)

### Size:

The Needle Files are manufactured in 2 dimensions:  
 NF - Total length 140mm. Diamond coated length 70mm .  
 NFB - Total length 160mm. Diamond coated length 85mm.



Profile	Description	Size mm*	Cat. No.
	Barrette	5.0X1.7 5.2X2.0	2102T 2102TB
	Equalling	5.1X1.4 5.7X1.6	2112 2112B
	Equalling One Side	4.8X1.3	2112-1
	Equalling Round Edge	5.1X1.5	2112R
	Warding	5.2X1.4	2122
	Crochet	5.0X1.5	2122R
	Three Square	3.9 4.3	2132 2132B
	Square	2.5 2.7	2142 2142B
	Half Round	5.4X1.9 5.9X2.2	2152 2152B
	Round	3.0 3.2	2162 2162B
	Knife	5.4X1.6	2172
	Slitting	5.1X2.3	2182
	Crossing	4.7X2.2	2192



### Grit size:

Standard grit sizes: D91 (#170/200), D126 (#120/140), D181 (#80/100).  
 Other grit sizes are available upon request.

**Other profiles available per request.**

### Remarks:

Tolerance: Length  $\pm 1.0\text{mm}$ . Profile  $\pm 0.3\text{mm}$ .

\* Above sizes are for D126.





# NF - Sets

STRAUSS & CO. offers a wide variety of Needle File sets:



Cat. No.: 4205 Includes the following 5 profiles:

2112 , 2132 , 2142 , 2152 , 2162 .  
Available in grit sizes: D30, D54, D91, D126, D181.



Cat. No.: 4205B Includes the following 5 profiles:

2112B , 2132B , 2142B , 2152B , 2162B .  
Available in grit sizes: D91, D126, D181.



Cat. No.: E4205 Includes the following 5 profiles:

E2112 , E2132 , E2142 , E2152 , E2162 .  
Available in grit sizes: D91, D126, D181.



Cat. No.: 4206 Includes the following 6 profiles:

2112 , 2132 , 2142 , 2152 , 2162 ,  
2192 . Available in grit sizes: D91, D126, D181.





Cat. No.: 4206D91/D126  
Includes the following 3 profiles in 2 grit sizes:

2112D91, 2112D126 , 2152D91, 2152D126 ,  
2162D91, 2162D126 .





Cat. No.: 4216SET  
Includes the following 2 profiles in 3 grit sizes:

2112D91, 2112D126, 2112D181 ,  
2152D91, 2152D126, 2152D181 .



Cat. No.: 4226SET  
Includes the following 2 profiles in 3 grit sizes:

2112D91, 2112D126, 2112D181 ,  
2162D91, 2162D126, 2162D181 .



## ES - NF Extra Slim

### Description & Use:

STRAUSS & CO.'s **extra slim** Needle Files allow easy access to complicated areas. They are used for grinding different metals and hard materials such as: Tungsten Carbide, Steels of 40 Hrc and harder, ceramic materials, glass etc.

### Size:

The ES Files are manufactured in total length of 140 mm. Diamond coated length 70 mm.



Profile	Description	Size mm*	Cat. No.
	Equalling	5.1X0.9	2112ES
	Three Square	2.7	2132ES
	Square	2.9	2142ES
	Half Round	3.8X1.5	2152ES
	Round	2.8	2162ES



Equalling

5.1X0.9

2112ES



Three Square

2.7

2132ES



Square

2.9

2142ES



Half Round

3.8X1.5

2152ES



Round

2.8

2162ES



Set 4205ES

Includes the following 5 profiles:

2112ES, 2132ES, 2142ES, 2152ES, 2162ES.



### Grit Size:

Available in grit sizes: D54 (#325/400), D91 (#170/200), D126 (#120/140).

### Remarks:

Tolerance: Length +/- 1.0mm. Profile +/- 0.3mm.

**Minimum Order: 30 files per profile.**

\*Above sizes are for D126.





## HBB - Files

### Description & Use:

*STRAUSS & CO.'s HBB Files* are medium sized, for filing large areas. HBB Files are manufactured in 5 popular profiles and can be used for filing various hard metals and epoxy materials. The HBB file has a round shank, suitable for handle, Cat. No. handlehbb. (page no.23)

### Size:

Total length 180mm. Diamond coated length 90mm. Shank  $\varnothing$ 5.0mm.



Profile	Description	Size mm*	Cat. No.
---------	-------------	----------	----------



Equalling	9.3X2.0	HBB112
-----------	---------	--------



Three Square	6.5	HBB132
--------------	-----	--------



Square	4.3	HBB142
--------	-----	--------



Half Round	8.8X2.7	HBB152
------------	---------	--------



Round	5.3	HBB162
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Cat. No. HBB200

The HBB set includes one of each of the above files.

### Grit Size:

Standard grit sizes: D91 (#170/200), D126 (#120/140), D181 (#80/100).

Other grit sizes are available upon request.

### Remarks:

Tolerance: Length  $\pm$ 1.0mm. Profile  $\pm$ 1.0mm.

\*Above sizes are for D126.



# HB - Files

## Description & Use:

*STRAUSS & CO.'s HB Files* are manufactured in large dimensions for heavy duty purposes and are widely used for filing large areas of different metals as well as hard plastics, fiberglass, graphite and epoxy materials. Along with tackling these heavy duty applications, the long set has a long service life. The HB file has a square shank, suitable for handle, Cat. No. handlehb. (page no.23)

## Size:

Total length 220mm. Diamond coated length 110mm.



Profile	Description	Size mm*	Cat. No.
---------	-------------	----------	----------



Equalling

10.4X2.8

HB2601



Half Round

12.6X3.9

HB2602



Three Square

9.7

HB2607



Square

6.1

HB2608



Round

6.8

HB2610



Cat. No. HB2627

The HB set includes one of each of the above files.

## Grit Size:

Standard grit sizes: D91 (#170/200), D126 (#120/140), D181 (#80/100).

Other grit sizes are available upon request.

## Remarks:

Tolerance: Length  $\pm 1.0$ mm. Profile  $\pm 0.3$ mm.

\* Above sizes are for D126.





# Files for reciprocating filing machines

All files on pages 13-16 can be used either by hand or in any reciprocating filing machine.

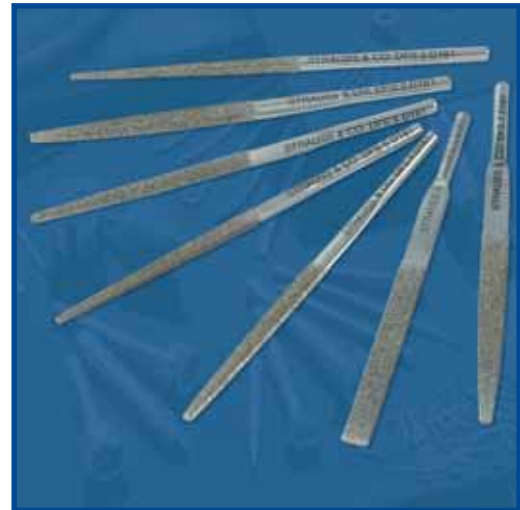
## DFS - Files

**Description & Use:**

STRAUSS & CO.'s **DFS Files** are suitable for hand filing machines as well as regular hand files. Particularly adapted for dies, molds and most other tool shop requirements. For use with reciprocating machines, such as the PJ120K.

**Size:**

Total length 85mm. Diamond coated length 45mm. Shank  $\varnothing$  3.0mm.



Profile	Description	Size mm*	Cat. No.
	Equalling	4.8X1.4	DFS1
		4.8X1.6	DFS11
		5.1X1.6	DFS112
	Round	$\varnothing$ 3.0	DFS2
	Half Round	5.1X1.9	DFS3
		5.1X2.1	DFS31
	Crossing	4.7X2.3	DFS4
	Three Square	3.6	DFS5
		3.6	DFS51
	Square	2.6	DFS6
		2.6	DFS61
	Warding	5.2X1.5	DFS7



**Grit Size:**

Standard grit sizes: D91 (#170/200), D126 (#120/140), D181 (#80/100). Other grit sizes are available upon request.

**Remarks:**

Tolerance: Length  $\pm$ 1.0mm. Profile  $\pm$ 0.3mm. \*Above sizes are for D126. Shank  $\pm$ 0.3mm.

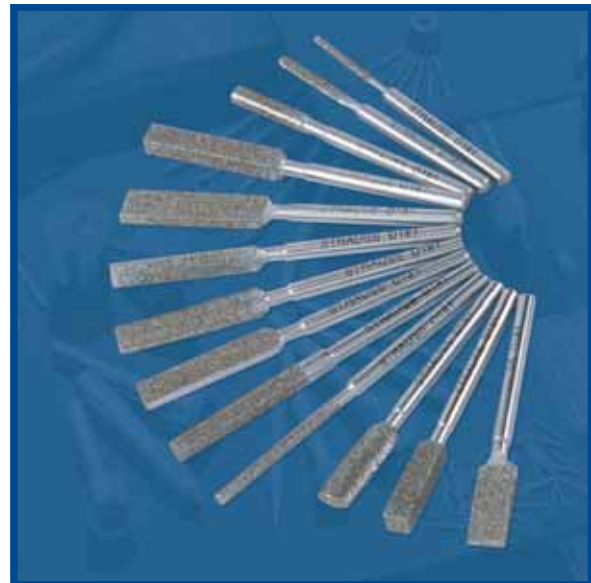
# HF - Hand Machine Files

**Description & Use:**

STRAUSS & CO.'s wide range of **Hand Machine Files** is ideal for use in polishing of plastic molds and carbide dies either by hand or in any reciprocating filing machine such as the PJ120K.

**Size:**

Shank  $\varnothing$  3.0mm.



Profile	Diamond Coated Length	Total Length	Size mm*	Cat. No.
	15	50	2.2 x 1.1	HF1
	15	50	3.2 x 1.1	HF2
	15	50	4.2 x 1.1	HF3
	15	50	5.2 x 2.1	HF4
	25	60	5.2 x 2.1	HF5
	15	50	2.2 x 1.3	HF11
	15	50	3.2 x 1.3	HF12
	15	50	4.2 x 1.3	HF13
	15	50	5.2 x 2.3	HF14
	25	60	5.2 x 2.3	HF15
	15	50	0.6 x 4.0	HF21
	15	50	1.2 x 4.3	HF23
	15	50	1.3	HF31
	15	50	2.3	HF32
	15	50	3.3	HF33
	15	50	2.3	HF51
	15	50	3.3	HF52
	15	50	4.3	HF53



**Grit Size:**

Standard grit sizes: D91 (#170/200), D126 (#120/140), D181 (#80/100).

Other grit sizes are available upon request.

**Remarks:**

Tolerance: Length  $\pm$ 1.0mm. Profile  $\pm$ 0.3mm. Shank  $\pm$ 0.3mm.

\*Above sizes are for D126.

**Other profiles available upon request.**



## CF - Files

### Description & Use:

STRAUSS & CO.'s **CF Files** are mainly used in internal grinding operations where access is difficult. Used by hand or in any reciprocating filing machine such as the PJ120K.

### Size:

Total length 55mm. Shank  $\varnothing$  3.0mm.



Profile	Size mm*	Cat. No.
	1.9X15	CF-1
	2.2X32	CF-2
	3.6X1.9X17	CF-3
	4.7X1.7X17	CF-4
	1.1X3.5X17	CF-5
	4.0X1.9X32	CF-6
	2.6X20	CF-7
	2.8X20	CF-8
	3.6X1.6X22	CF-9
	4.6X1.6X22	CF-10
	4.2X1.8X22	CF-11
	4.6X1.5X17	CF-12



1.9X15

CF-1



2.2X32

CF-2



3.6X1.9X17

CF-3



4.7X1.7X17

CF-4



1.1X3.5X17

CF-5



4.0X1.9X32

CF-6



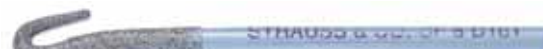
2.6X20

CF-7



2.8X20

CF-8



3.6X1.6X22

CF-9



4.6X1.6X22

CF-10



4.2X1.8X22

CF-11



4.6X1.5X17

CF-12



### Grit Size:

Standard grit sizes: D91 (#170/200), D126 (#120/140), D181 (#80/100).  
Other grit sizes are available upon request.

### Remarks:

Tolerance: Length  $\pm$ 1.0mm. Profile  $\pm$ 0.3mm. Shank  $\pm$ 0.3mm.

\* Above sizes are for D126.



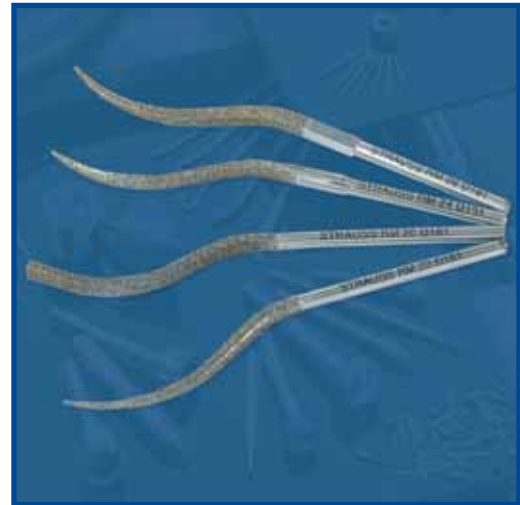
## RM - Files





### Description & Use:

*STRAUSS & CO.'s RM Files* are used mainly on especially large curved areas where access is difficult. Used by hand or in any reciprocating filing machine. They are used for filing of plastic molds or carbide dies.

### Size:

Total length 85mm. Diamond coated length 45mm.  
Shank  $\varnothing$ 3.0mm



Profile	Size mm*	Cat. No.
	4.3X1.7X45	RM20
	3.3X45	RM22
	4.9X2.5X45	RM24
	3.3X3.1X45	RM26



### Grit Size:

Standard grit sizes: D91 (#170/200), D126 (#120/140), D181 (#80/100).  
Other grit sizes are available upon request.

### Remarks:

Tolerance: Length  $\pm$ 1.0mm. Profile  $\pm$ 0.3mm. Shank  $\pm$ 0.3mm.

\*Above sizes are for D126.

# FILING





## RF - Riffle Files

### Description & Use:

STRAUSS & CO.'s **Riffle Files** are used for grinding different metals, where access by other files is difficult. The wide range allows the user to choose the most suitable file for any given application.

### Size:

Total length 155mm. Diamond coated length 2X25mm.

RF29 - Diamond coated length 2X40mm.



Profile	Size mm*	Cat. No.
---------	----------	----------



3.8X2.1

RF15



3.7X2.1

RF16



3.1X2.9

RF18



2.6

RF20



2.9

RF22



2.7

RF24



3.2

RF26



3.7X1.8

RF27



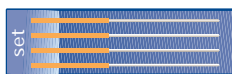
4.2X2.0

RF28



5.4X1.7

RF29



**Cat. No. RFSETP-** In plastic pouch. **Cat. No. RFSETW-** In wooden box. The RF set includes the following files: RF15, RF18, RF22, RF26, RF28.



**Cat. No. RFSETA**  
The RF set includes the following files: RF16, RF18, RF20, RF22, RF24.

### Grit Size:

Standard grit sizes: D91 (#170/200), D126 (#120/140), D181 (#80/100).

Other grit sizes are available upon request.

### Remarks:

Tolerance: Length  $\pm 1.0$ mm. Profile  $\pm 0.5$ mm.

\*Above sizes are for D126.



## TF -Turbine Diamond Files

### Description & Use:




STRAUSS & CO.'s special precision conical **Turbine Diamond Files** are designed for extremely fine and small applications.




### Application:

- Injecting holes
- Cleaning holes in gas turbines
- Accurate finishing in molds
- Filing hardened or abrasive surfaces in jewellery and watch making industries

TF are available in sets of 3 pieces, or as individual units.



Cat. No.	Size mm.				Grit size
	size	Shank	Coated Length	Total Length	
TF1-40 	0.56	1.0mm	40	70	D54 (#325/400)
TF2-50 	0.56	1.0mm	50	80	D54 (#325/400)
TF3-60 	0.65	1.6mm	60	110	D91 (#170/200)
TFSET	Set of all above 3 files				

Cat. No.	Size mm.				Grit size
	size	Shank	Coated Length	Total Length	
TF4-40 	0.56	1.0mm	40	70	D54 (#325/400)
TF5-50 	0.56	1.0mm	50	80	D54 (#325/400)
TF6-60 	0.65	1.6mm	60	110	D91 (#170/200)
TFSET SQUARE	Set of all above 3 files				

## CT - Contact Files

### Description & Use:


STRAUSS & CO.'s **Contact Files** are widely used for fine contact surfaces in the electric and the electronic industries, as well as the car industry. The CT files are commonly used in the die & mold industries for very accurate applications.


### Size:

Total length 116mm. Diamond coated length 20mm.

For CT-3 total length 140mm. Diamond coated length 25mm.

**Profile Size mm\* Cat. No.**

 5.0X0.4 CT-1

 5.0X0.4 CT-2

 8.5X0.5 CT-3



### Grit Size:

Standard grit sizes: D30 (#600), D54 (#325/400), D91(#170/200), D126 (#120/140).

Other grit sizes are available upon request.

### Remarks:

Tolerance: Length  $\pm 1.0$ mm. Profile  $\pm 0.15$ mm.

\*Above sizes are blank sizes.



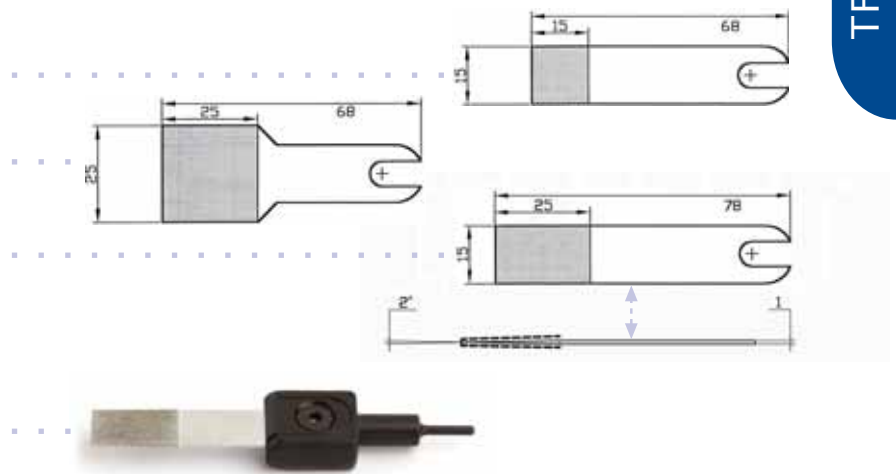
# MS - Multi File System

## Description & Use:

STRAUSS & CO.'s unique **Multi File System** kit is widely used in the plastic molds and aluminium extruders industries. The unique design of the holding system allows "STRAUSS & CO." to manufacture these very **wide**, but still very **thin** flat files. The special design enables full contact between the whole surface of the file and the work piece. All the MS files are available individually (replacements) or as part of a kit.



Cat. No.	Size
MS15	15X15X68
MS25	25X25X68
MS15X1°	15X1°X25X78
MSHANDLE	Special Multi Grip Holder
MS-HOLDER3	Holder For Filing Machine 3 mm Shank



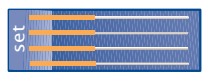
## Grit size:

The files are available in the following 4 grit sizes: D30 (#600), D54 (#325/400), D91 (#170/200), D126 (#120/140). Also available with coating on one side only.

## Thickness of files:

MS15-D30 = 0.4mm.	MS25-D30 = 0.4mm.
MS15-D54 = 0.5mm.	MS25-D54 = 0.5mm.
MS15-D91 = 1.0mm.	MS25-D91 = 1.0mm.
MS15-D126 = 1.2mm.	MS25-D126 = 1.2mm.

Files are available in the following kits, (each kit includes a wrench and is packed in a specially designed case):



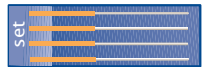
**Cat. No. MSSET1:** One of each of the following: MSHANDLE, MS15-D30, MS15-D54, MS25-D30 AND MS25-D54.



**Cat. No. MSSET2:** One of each of the following: MSHANDLE, MS15-D91, MS15-D126, MS25-D91 AND MS25-D126.



**Cat. No. MSSET3:** One of each of the following: MSHANDLE, MS25-D30, MS25-D54, MS25-D91 AND MS25-D126.



**Cat. No. MSSET-SVC:** One of each of the following: MSHANDLE, MS15X1°-D54, MS15X1°-D91, AND MS15X1°-D126.

Tolerance: Thickness  $\pm 0.15$ mm. Profile  $\pm 0.3$ mm.





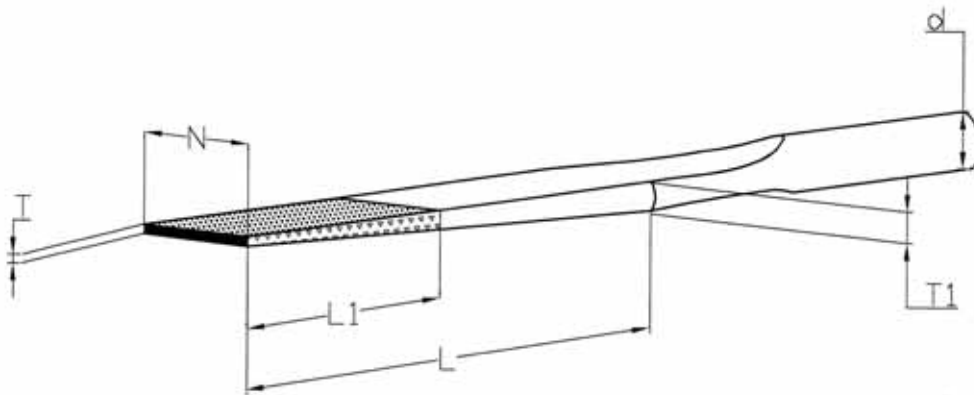
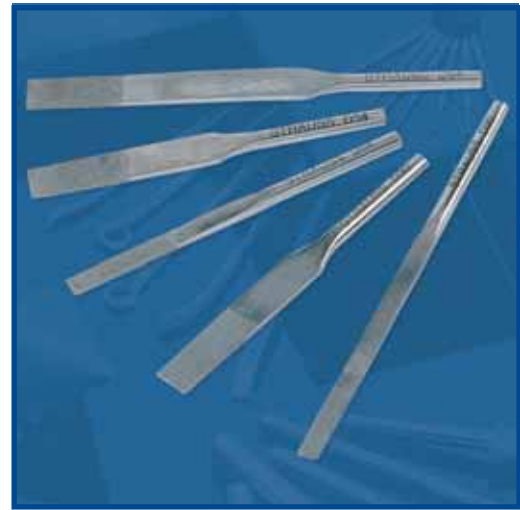
## DHB - Files

### Description & Use:

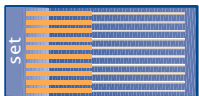
STRAUSS & CO.'s **DHB Files** can be used by hand or in any reciprocating filing machine such as the PJ120K. These files are specially designed for the aluminum extruders industry as well as for the plastic mold industry. Main application of these tapered files is internal filing in slots and grooves, where access with parallel files is impossible. The set of DHB files includes 10 files in 3 different grit sizes and offers a comprehensive solution to all filing and finishing jobs inside slots.

### Size:

Total length 72/56mm. Diamond coated length 15mm.



Cat. No.	Grit Size	T	N	L	L1	T1	d	Total Length
DHB31530	D54	0.55	3.15	30	15	1.8	3.0	57
DHB31530	D91	0.65	3.25	30	15	1.8	3.0	57
DHB31545	D30	0.45	3.05	45	15	1.5	3.0	73
DHB31545	D54	0.55	3.15	45	15	1.5	3.0	73
DHB31545	D91	0.65	3.25	45	15	1.5	3.0	73
DHB61530	D30	0.45	6.05	30	15	1.0	3.0	57
DHB61530	D54	0.55	6.15	30	15	1.0	3.0	57
DHB61545	D30	0.45	6.05	45	15	1.0	3.0	73
DHB61545	D54	0.55	6.15	45	15	1.0	3.0	73
DHB61545	D91	0.65	6.25	45	15	1.0	3.0	73



Cat. No. DHB36SET

The DHB set includes one of each of the above files.

### Remarks:

Tolerance: Length  $\pm 1.0$ mm. Profile  $\pm 0.5$ mm.



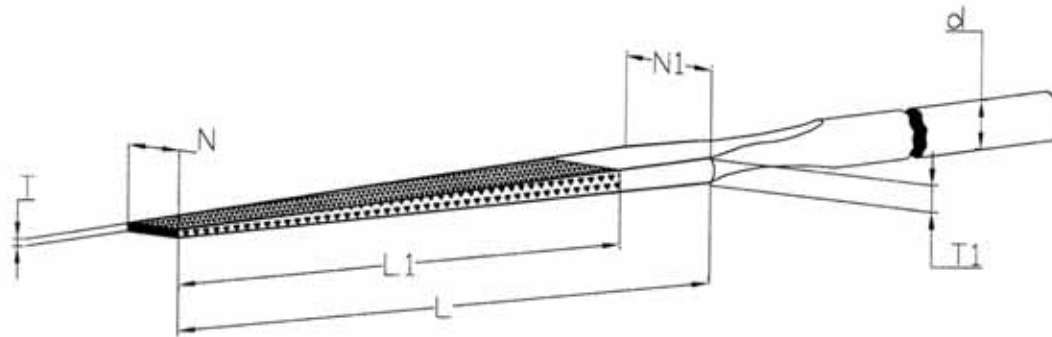
## DHM - Files

### Description & Use:

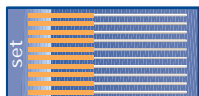
*STRAUSS & CO.'s DHM Files* are specially designed for the aluminum extruders industry as well as the plastic mold industry. Main applications of these tapered files are filing inside slots and grooves, where access with parallel files is impossible. The set of DHM files includes 10 files in 3 different grit sizes and offers a comprehensive solution to all filing and finishing jobs inside slots. The DHM files have a round shank and can be used either by hand or in any reciprocating filing machine.

### Size:

Total length 130mm. Diamond coated length 30mm. Shank  $\varnothing$  3.0mm.



Cat. No.	Grit Size	T	N	N1	L	L1	T1	d	Total Length
DHM2	D30	0.35	2.05	2.0	44	30	2.70	3.0	130
DHM2	D54	0.45	2.15	2.0	44	30	2.70	3.0	130
DHM2	D91	0.55	2.25	2.0	44	30	2.70	3.0	130
DHM4	D30	0.35	4.05	4.0	38	30	1.30	3.0	130
DHM4	D54	0.45	4.15	4.0	38	30	1.30	3.0	130
DHM4	D91	0.55	4.25	4.0	38	30	1.30	3.0	130
DHM6	D30	0.35	5.55	5.5	38	30	1.35	3.0	130
DHM6	D54	0.45	5.65	5.5	38	30	1.35	3.0	130
DHM6	D91	0.55	5.75	5.5	38	30	1.35	3.0	130



Cat. No. DHM246SET

The DHM set includes one of each of the above files and one MI8610D54 (see page no.7).

### Remarks:

Tolerance: Length  $\pm$ 1.0mm. Profile  $\pm$ 0.5mm.



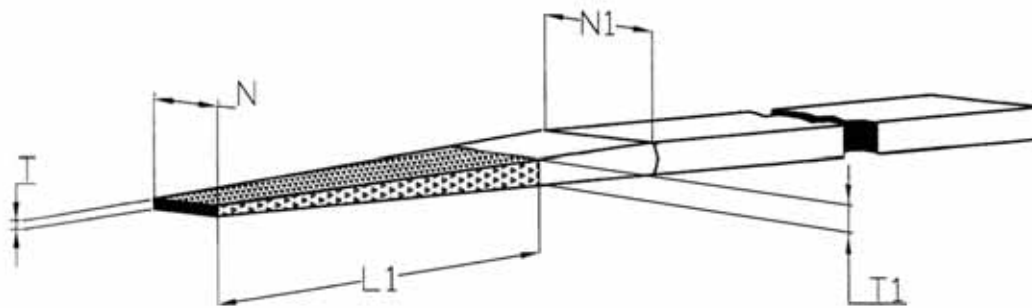
## DH - Files

### Description & Use:

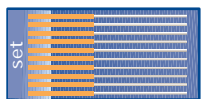
*STRAUSS & CO.'s DH Files* are specially designed for the aluminum extruders industry as well as the plastic mold industry. Main applications of these tapered files are filing inside slots and grooves, where access with parallel files is impossible. The set of DH files includes 10 files in 3 different grit sizes and offers a comprehensive solution to all filing and finishing jobs inside slots.

### Size:

Total length 170mm. Diamond coated length 50mm.



Cat. No.	Grit Size	T	T1	N	N1	L1	Total Length
DH17042K	D91	0.65	2.25	2.25	4.00	50	170
DH17042	D54	0.55	2.15	3.15	4.00	50	170
DH17042	D91	0.65	2.25	3.25	4.00	50	170
DH17042	D126	0.70	2.30	3.30	4.00	50	170
DH170624	D91	0.65	2.25	6.25	6.00	50	170
DH170824	D54	0.55	2.15	8.45	8.00	50	170
DH170824	D91	0.65	2.75	8.25	8.00	50	170



### Cat. No. DH170468SET

The DH set includes:

2 pieces of each of the following files:

DH17042D126, DH17042D91, DH170642D91.

1 piece of each of the following files:

DH17042KD91, DH17042D54, DH170824D54, DH170824D91.

### Remarks:

Tolerance: Length  $\pm 1.0$ mm. Profile  $\pm 0.5$ mm.











## MF - Machine Files

### Description & Use :

STRAUSS & CO.'s **Machine Files** are employed in applications where mechanical filing is required.

Our wide range of files allows the operator to choose the most suitable file for any given application.



Profile Length	Diamond Coated	Total Length	Size mm*	Cat. No.
	80	150	4.9 x 2.4	MF23
	80	150	9.5 x 3.7	MF24
	120	200	11.6 x 4.4	MF25
	80	150	7.2	MF35
	120	200	9.0	MF36
	120	200	10.4	MF46

### Grit Size:

Standard grit sizes: D91 (#170/200), D126 (#120/140), D181 (#80/100).

Other grit sizes are available upon request.

### Remarks:

Tolerance: Length  $\pm 1.0$ mm. Profile  $\pm 0.3$ mm.

\* Above sizes are for D126.

**Other profiles available upon request.**

## Handles



Cat. No.: handlehbb



Cat. No.: handlenf















Cat. No.: handlehb

## HD\THD - Heavy Duty Files

### Description & Use:

STRAUSS & CO.'s **Heavy Duty Files** are exceptionally wide and are used for filing large surfaces. Especially effective on hard steels, carbide and ceramic materials.



Profile	Diamond Coated Length	Total Length	Size mm*	Cat. No.
	90	145	7.7	HD-1
	90	175	8	THD-1
	90	143	12.7X4.0	HD-2
	90	175	13X4	THD-2
	90	175	5	THD-3
	90	142	12.3X3.0	HD-4
	90	142	12.7X3.2	HD-4 S
	90	175	11X4	THD-4
	110	172	15.4X3.6	HD-5
	100	172	15.7X3.8	HD-5 S
	120	204	18.6X4.1	HD-6
	110	204	18.9X4.3	HD-6 S



### Grit Size:

Standard grit sizes: D91 (#170/200), D126 (#120/140), D181 (#80/100). Other grit sizes are available upon request.

### Remarks:

Tolerance: Length  $\pm 1.0$ mm. Profile  $\pm 0.5$ mm.

\* Above sizes are for D126.





## Tool Shop Files

### Description & Use:

*STRAUSS & CO.'s Tool Shop Files* are suitable for heavy duty applications. These files are widely used for filing large surfaces. The wide plated area facilitates easy filing of large surfaces of hardened steels, hard plastic and epoxy materials. The large plated area saves filing time and is cost effective.

### Size:

Total length 250mm. Diamond coated length 180mm.



Profile	Size mm*	Cat. No.
	19.9X5.0	P1112
	14.9	P1132
	8.1	P1142
	19.75X6.0	P1152
	8.0	P1162



19.9X5.0

P1112



14.9

P1132



8.1

P1142



19.75X6.0

P1152



8.0

P1162



### Grit size:

Standard grit sizes: D126 (#120/140), D181 (#80/100), D252 (#60/80).

Other grit sizes are available upon request.

### Remarks:

\*Above sizes are for D181.

Strauss & co.

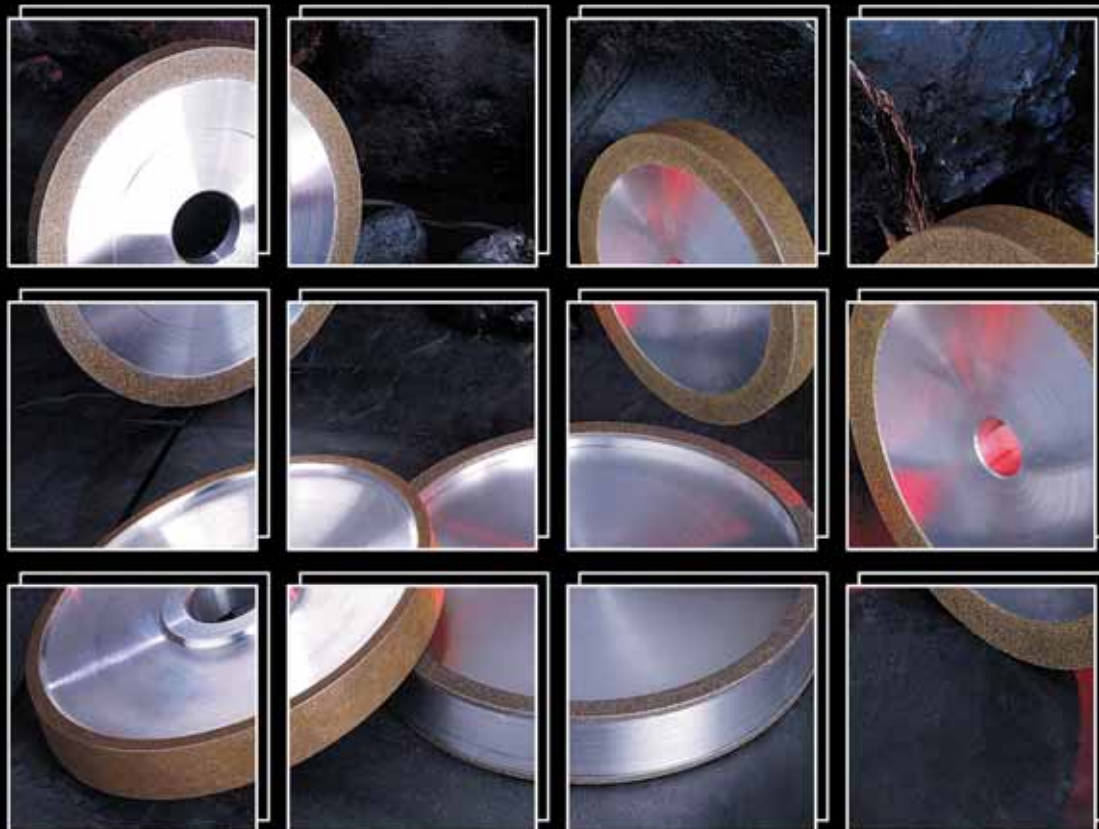
The composer of tools





# Diamond & CBN Grinding Wheels

**STRAUSS & CO.**  
INDUSTRIAL DIAMONDS LTD.



# Standard Profiles

## Description & Use:

STRAUSS & CO.'s **Grinding Wheels** are manufactured both in diamond and CBN abrasives.

The diamond wheels are employed in grinding materials such as tungsten carbide, ceramics and fiberglass.

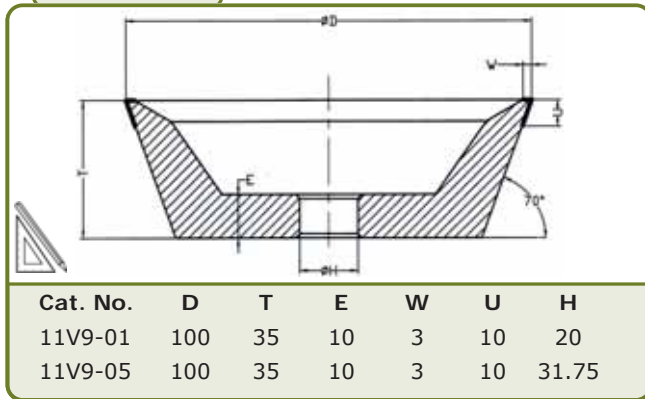
The CBN plated wheels are widely used for grinding materials such as high speed steel, high carbon steel and materials of 40Hrc and harder.

Strauss & Co. supplies grinding wheels in various shapes and sizes. Please consult us for any specific designs and applications required.

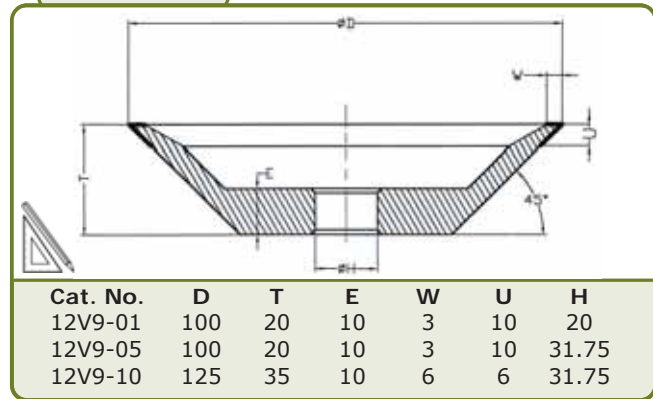
**Strauss & Co. manufactures & supplies grinding wheels with a diameter up to 1000mm.**



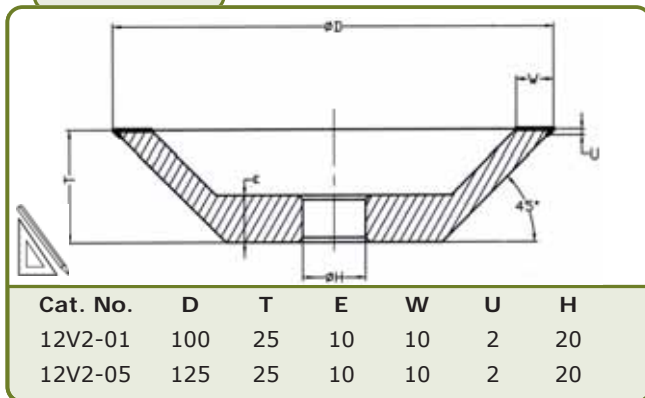
11V9



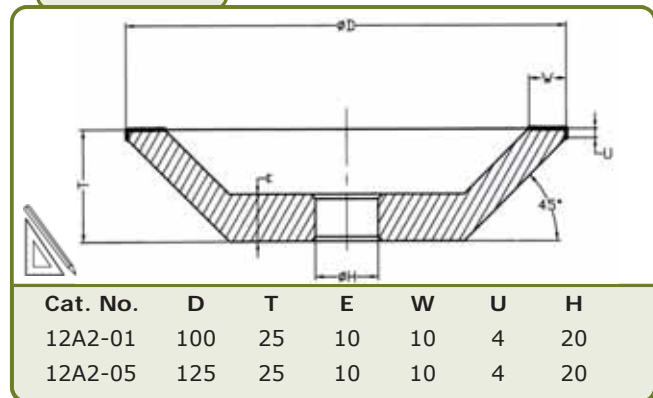
12V9



12V2-45DEG.



12A2-45DEG.



## Grit Size:

Available in D or B54 (#325/400), D or B91 (#170/200), D or B126 (#120/140), D or B181 (#80/100), D or B252 (#60/80), D or B427 (#40/50).

## Remarks:

For any grinding wheel order, please attach detailed drawing.

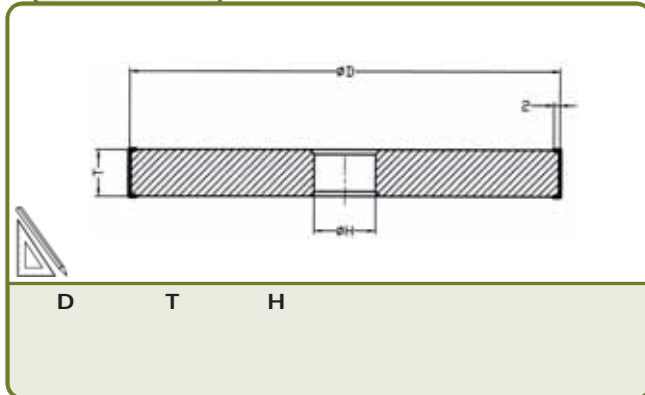
Tolerance:  $D \pm 3.0\text{mm}$ ,  $T \pm 2.0\text{mm}$ ,  $W \pm 3.0\text{mm}$ ,  $E \pm 1.0\text{mm}$ ,  $U \pm 2.0\text{mm}$ ,  $H = h7$ .

# Standard Profiles

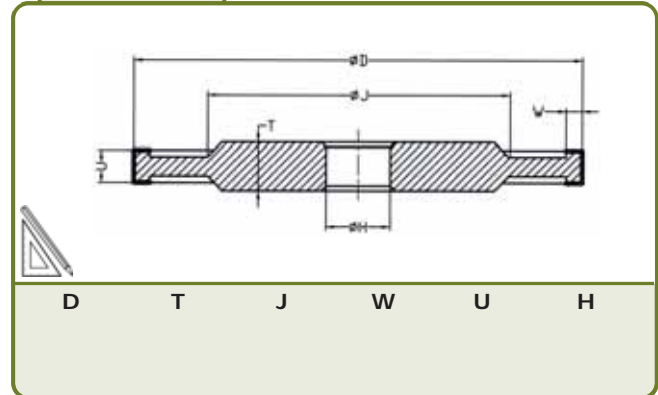


For custom made grinding wheels, please refer to one of the following drawings with required measurements.

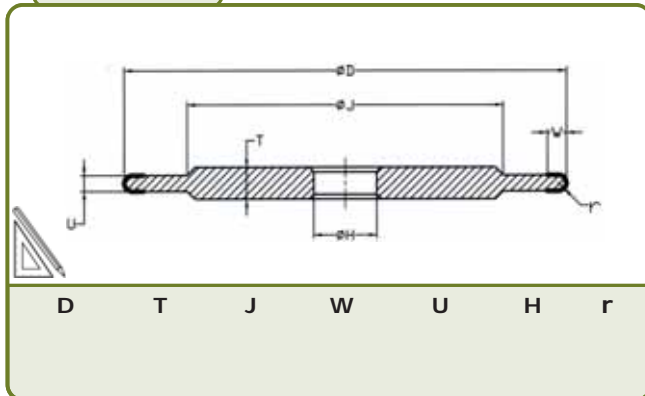
1A1



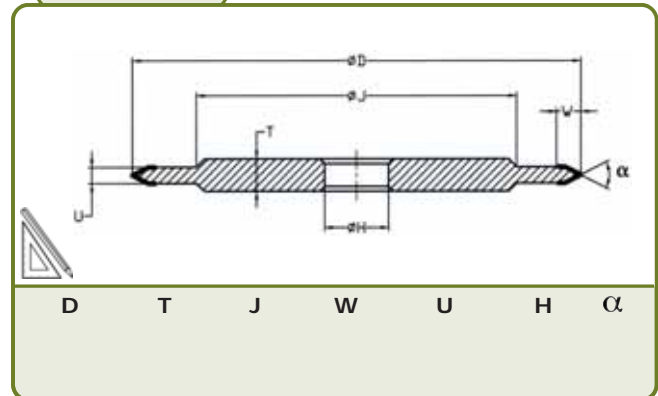
14U1



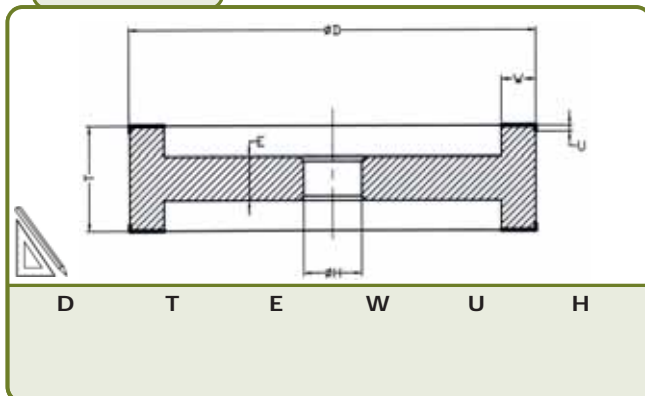
14F1



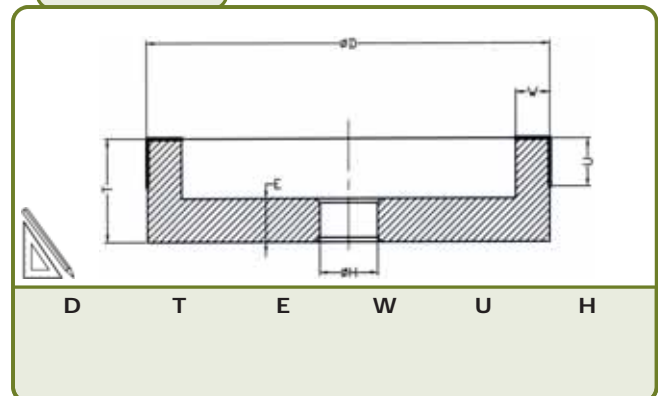
14EE1



9A3



6A2



**Grit Size:**

Available in D or B54 (#325/400), D or B91 (#170/200), D or B126 (#120/140), D or B181 (#80/100), D or B252 (#60/80), D or B427 (#40/50).

**Remarks:**

For any grinding wheel order, please attach detailed drawing.





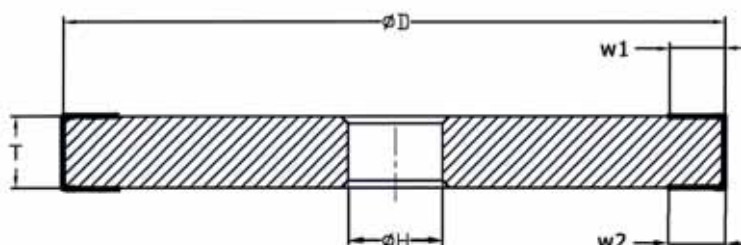
## Super Grinder (UDGW)

### ALUMINUM CORE !!!

#### Description & Use:

STRAUSS & CO.'s **Super-Grinder** wheel is plated with diamond grains, to be used on any Bench grinding machine. Commonly adapted on one side of the machine while a conventional grinding wheel is adapted on the other side. Thus allows the user to grind a wider spectrum of materials. For the grinding and sharpening of tools made of tungsten carbide, hss and hardened materials. Minimum RPM = 1500 RPM ( for Ø150mm) Maximum RPM = 6500 RPM ( for Ø150mm)

- Supplying a comprehensive solution for grinding materials of 40hrc and harder.
- Low weight-protects the axes of the machine.
- Aluminum core reduces the grinding temperature - no need for coolant.
- No need for dressing.
- Wheel's diameter is not reduced during the entire wheel's life.
- No dust generated - keeps the work place clean.



#### mm Sizes

Cat. No.	D	T	W1	W2	H
SG-01	150	25	15		20
SG-05	150	25	15	15	20
SG-10	150	25	25		20
SG-15	150	25	25	25	20
SG-20	200	25	15		20
SG-25	200	25	15	15	20
SG-30	200	25	25		20
SG-35	200	25	25	25	20
SG-40	150	13	13	13	31.75

#### Inch Sizes

Cat. No.	D	T	W1	W2	H
SG-02	6"	1"	0.590"		1"
SG-06	6"	1"	0.590"	0.590"	1"
SG-11	6"	1"	1"		1"
SG-16	6"	1"	1"	1"	1"
SG-21	8"	1"	0.590"		1.25"
SG-26	8"	1"	0.590"	0.590"	1.25"
SG-31	8"	1"	1"		1.25"
SG-36	8"	1"	1"	1"	1.25"
SG-41	6"	1/2"	1/2"	1/2"	1.25"

#### Grit Size:

Most popular grit is D181.

Available in D or B54 (#325/400), D or B91 (#170/200),

D or B126 (#120/140), D or B181 (#80/100), D or B252 (#60/80),

D or B427 (#40/50).

#### Remarks:

The aluminium plated wheels are available in different shapes.

Hole size: upon request.



# Diamond & CBN Internal Grinding Tools

**STRAUSS & CO.**  
INDUSTRIAL DIAMONDS LTD.





# STRAUSS & CO.

STRAUSS & CO. offers a wide range of diamond and CBN grinding pins. This category features pins designed to offer the end user safe, superior quality and cost effective pins. A wide selection provides a choice of the most suitable grinding pin for any given application in terms of head size, shank size, length and grit size.

For vibration-free work one can choose the closest head diameter to hole diameter, and shortest length.

All standard shanks are hardened to 42-55 Hrc and are center-less ground, to ensure a rigid, accurate, concentric and parallel pin blank. STRAUSS & CO.'s grinding pins are all electro plated by a very precise and environmentally safe process.

Diamond and CBN powders are carefully selected and treated for precision and consistency.

STRAUSS & CO.'s production is subject to stringent in-process and final control, resulting in an internationally recognized reputation for high quality and extremely long life grinding pins.

STRAUSS & CO.'s Diamond & CBN pins are widely used on jig and internal grinding machines, cylindrical grinding machines and hand tools. These pins are used for internal grinding operations of dies, special punches, cutting tools, as well as numerous parts of stainless steel, exotic super alloys, etc.

STRAUSS & CO.'s Diamond pins are used for grinding tungsten carbide; ceramics; glass & non-ferrous materials.

STRAUSS & CO.'s CBN pins are used for grinding high-carbon; high-chrome steel; high speed steels such as M2, M3; and die steels such as D2.





# PM- Grinding Pins Metric Sizes

For description & use refer to page 32.

## PM - Grinding Pins Overview

● - Fine grits    
 ● - Medium grits    
 ● - Coarse grits

Cat. No.	D	T	L1	Y	L	Grit Size D or B	Stock*
PM0.3-01	0.3	2	5	3	40	30 46 54	3
PM0.4-01	0.4	2	5	3	40		2
PM0.5-01	0.5	2	5	3	40		1
PM0.5-05	0.5	3	7	3	50		2
PM0.6-01	0.6	3	5	3	40	46 54 91	1
PM0.6-05	0.6	3	7	3	50		2
PM0.7-01	0.7	3	5	3	40		1
PM0.7-05	0.7	3	7	3	50		2
PM0.8-01	0.8	3	5	3	40		1
PM0.8-05	0.8	4	10	3	50		2
PM0.9-01	0.9	4	7	3	40	46 54 91 126	1
PM0.9-05	0.9	4	10	3	50		2
PM1.0-01	1.0	5	10	3	40		2
PM1.0-05	1.0	5	10	3	55		1
PM1.2-01	1.2	5	12	3	40		2
PM1.2-05	1.2	5	12	3	55	54 91 126 181	1
PM1.3-01	1.3	5	12	3	55		2
PM1.4-01	1.4	5	12	3	55		2
PM1.5-01	1.5	5	12	3	40		2
PM1.5-05	1.5	5	12	3	55		1
PM1.6-01	1.6	5	12	3	55		2
PM1.8-01	1.8	5	12	3	55		1
PM2.0-01	2.0	5	12	3	40		2
PM2.0-05	2.0	5	12	3	55		1
PM2.2-01	2.2	5	16	3	55		2
PM2.3-01	2.3	5	16	3	55		2
PM2.4-01	2.4	5	16	3	55		2
PM2.5-01	2.5	5	16	3	40		2
PM2.5-05	2.5	5	16	3	55		1
PM2.6-01	2.6	5	16	3	55		2
PM2.8-01	2.8	5	16	3	55		1
PM3.0-01	3.0	5	16	3	40	91 126 181	2
PM3.0-05	3.0	5	16	3	55		1
PM3.0-10	3.0	5	30	3	80		3
PM3.5-01	3.5	5		3	40		2
PM3.5-05	3.5	5		3	55		1
PM3.5-10	3.5	5		3	80		3
PM3.5-15	3.5	5	20	6	60		2
PM3.5-20	3.5	5	30	6	80		3
PM4.0-01	4.0	5		3	40		2
PM4.0-05	4.0	5		3	55		1
PM4.0-10	4.0	5	20	4	80		3
PM4.0-15	4.0	5	20	6	60		2
PM4.0-20	4.0	5	30	6	80		2
PM4.5-01	4.5	5		3	55		1
PM4.5-05	4.5	5	20	6	60		1



Cat. No.	D	T	L1	Y	L	Grit Size D or B	Stock*
PM5.0-01	5.0	6		3	55		1
PM5.0-05	5.0	6	20	6	60		1
PM5.0-10	5.0	6	30	6	80		2
PM5.5-01	5.5	6		3	55		2
PM5.5-05	5.5	6	20	6	60		2
PM6.0-01	6.0	6		3	55		2
PM6.0-05	6.0	8	20	6	60		1
PM6.0-10	6.0	8	30	6	80		2
PM6.5-01	6.5	8		6	60	91 126 181	2
PM6.5-05	6.5	8		6	80		3
PM7.0-01	7.0	8		6	60		2
PM7.0-05	7.0	8		6	80		2
PM7.5-01	7.5	8		6	60		3
PM8.0-01	8.0	10		6	60		1
PM8.0-05	8.0	10		6	80		2
PM8.0-10	8.0	10	40	8	80		2
PM8.0-15	8.0	10	45	8	100		2
PM9.0-01	9.0	10		6	60		2
PM9.0-05	9.0	10		6	80		2
PM9.0-10	9.0	10		8	80		3
PM9.0-15	9.0	10		8	100		3
PM10-01	10	5		6	60		3
PM10-05	10	10		6	60		1
PM10-10	10	10		6	80		2
PM10-15	10	10		8	80		2
PM10-20	10	10	45	10	100		2
PM11-01	11	10		6	60		3
PM12-01	12	5		6	60		3
PM12-05	12	10		6	60	91 126 181 252	1
PM12-10	12	10		6	80		2
PM12-15	12	10		8	80		2
PM12-20	12	10		10	100		2
PM13-01	13	10		6	60		3
PM14-01	14	10		6	60		3
PM15-01	15	10		6	60		1
PM15-05	15	10		6	80		3
PM15-10	15	10		8	80		3
PM15-20	15	10		10	100		2
PM16-01	16	10		6	60		3
PM16-05	16	10		10	100		3
PM18-01	18	10		6	60		3
PM18-05	18	10		10	100	126 181 252	3
PM20-01	20	10		8	80		2
PM20-05	20	10		10	100		2
PM22-01	22	10		10	100		3
PM25-01	25	10		10	100		2

### Remarks:

\*Guide lines for stock availability please refer to page 34.

All PM grinding pins are available in other diameters, grit sizes and different measurements upon request.

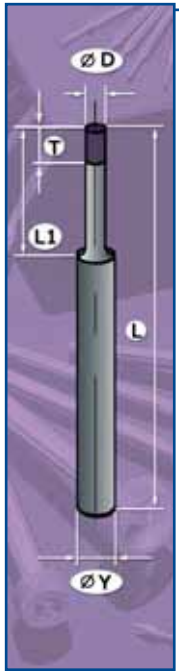
Minimum clamping length = Half of total length:  $L_c = 0.5 \times L$ .

Tolerance:  $D < \varnothing 2\text{mm} = \pm 0.05\text{mm}$ ,  $D > \varnothing 2\text{mm} = \pm 0.15\text{mm}$ ,

$T = \pm 1.0\text{mm}$ ,  $L1 = \pm 1.0\text{mm}$ ,  $Y = h6$ ,  $L = \pm 1.0\text{mm}$ .

## PM - Grinding Pins Shank $\varnothing$ 3mm

For description & use refer to page 32.



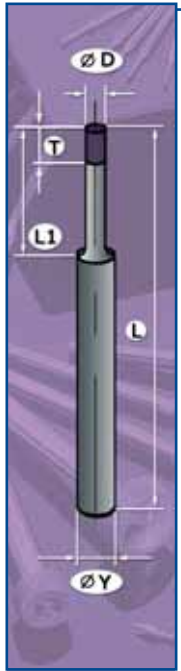
Cat. No.	D	T	L1	Y	L	Grit Size D or B	Stock*
PM0.3-01	0.3	2	5	3	40		3
PM0.4-01	0.4	2	5	3	40	30 46 54	2
PM0.5-01	0.5	2	5	3	40		1
PM0.5-05	0.5	3	7	3	50		2
PM0.6-01	0.6	3	5	3	40		1
PM0.6-05	0.6	3	7	3	50	46 54 91	2
PM0.7-01	0.7	3	5	3	40		1
PM0.7-05	0.7	3	7	3	50		2
PM0.8-01	0.8	3	5	3	40		1
PM0.8-05	0.8	4	10	3	50	46 54 91 126	2
PM0.9-01	0.9	4	7	3	40		1
PM0.9-05	0.9	4	10	3	50		2
PM1.0-01	1.0	5	10	3	40		2
PM1.0-05	1.0	5	10	3	55		1
PM1.2-01	1.2	5	12	3	40		2
PM1.2-05	1.2	5	12	3	55		1
PM1.3-01	1.3	5	12	3	55	54 91 126 181	2
PM1.4-01	1.4	5	12	3	55		2
PM1.5-01	1.5	5	12	3	40		2
PM1.5-05	1.5	5	12	3	55		1
PM1.6-01	1.6	5	12	3	55		2
PM1.8-01	1.8	5	12	3	55		1
PM2.0-01	2.0	5	12	3	40		2
PM2.0-05	2.0	5	12	3	55		1
PM2.2-01	2.2	5	16	3	55		2
PM2.3-01	2.3	5	16	3	55		2
PM2.4-01	2.4	5	16	3	55		2
PM2.5-01	2.5	5	16	3	40		2
PM2.5-05	2.5	5	16	3	55		1
PM2.6-01	2.6	5	16	3	55		2
PM2.8-01	2.8	5	16	3	55		1
PM3.0-01	3.0	5	16	3	40	91 126 181	2
PM3.0-05	3.0	5	16	3	55		1
PM3.0-10	3.0	5	30	3	80		3
PM3.5-01	3.5	5		3	40		2
PM3.5-05	3.5	5		3	55		1
PM3.5-10	3.5	5		3	80		3
PM4.0-01	4.0	5		3	40		2
PM4.0-05	4.0	5		3	55		1
PM4.5-01	4.5	5		3	55		1
PM5.0-01	5.0	6		3	55		1
PM5.5-01	5.5	6		3	55		2
PM6.0-01	6.0	6		3	55		2



### \*PM- Guide lines for stock availability

- #1. Stock item – delivery within 2 weeks. No minimum quantity.
- #2. Delivery as per production schedule. Normally within 1 month, minimum quantity 5-20 pcs. according to the diameter. Delivered quantity may vary by  $\pm 10\%$  from order quantity.
- #3. Special manufacturing per order. Delivery according to order confirmation, minimum quantity 5-20 pcs. according to the diameter. Delivered quantity may vary by  $\pm 10\%$  from order quantity.

## PM - Grinding Pins Shank $\varnothing$ 6mm



Cat. No.	D	T	L1	Y	L	Grit Size D or B	Stock*
PM3.5-15	3.5	5	20	6	60		2
PM3.5-20	3.5	5	30	6	80		3
PM4.0-15	4.0	5	20	6	60		2
PM4.0-20	4.0	5	30	6	80		2
PM4.5-05	4.5	5	20	6	60		1
PM5.0-05	5.0	6	20	6	60		1
PM5.0-10	5.0	6	30	6	80		2
PM5.5-05	5.5	6	20	6	60		2
PM6.0-05	6.0	8	20	6	60	91 126 181	1
PM6.0-10	6.0	8	30	6	80		2
PM6.5-01	6.5	8		6	60		2
PM6.5-05	6.5	8		6	80		3
PM7.0-01	7.0	8		6	60		2
PM7.0-05	7.0	8		6	80		2
PM7.5-01	7.5	8		6	60		3
PM8.0-01	8.0	10		6	60		1
PM8.0-05	8.0	10		6	80		2
PM9.0-01	9.0	10		6	60		2
PM9.0-05	9.0	10		6	80		2
PM10-01	10	5		6	60		3
PM10-05	10	10		6	60		1
PM10-10	10	10		6	80		2
PM11-01	11	10		6	60		3
PM12-01	12	5		6	60	91 126 181 252	3
PM12-05	12	10		6	60		1
PM12-10	12	10		6	80		2
PM13-01	13	10		6	60		3
PM14-01	14	10		6	60		3
PM15-01	15	10		6	60		1
PM15-05	15	10		6	80		3
PM16-01	16	10		6	60		3
PM18-01	18	10		6	60	126 181 252	3



PM- Grinding Pins mm Sizes

### Remarks:

\*Guide lines for stock availability please refer to page 34.

All PM grinding pins are available in other diameters, grit sizes and different measurements upon request.

**Minimum clamping length = Half of total length:  $L_c = 0.5 \times L$ .**

Tolerance:  $D < \varnothing 2\text{mm} = \pm 0.05\text{mm}$ ,  $D > \varnothing 2\text{mm} = \pm 0.15\text{mm}$ ,

$T = \pm 1.0\text{mm}$ ,  $L1 = \pm 1.0\text{mm}$ ,  $Y = h6$ ,  $L = \pm 1.0\text{mm}$ .

# THE COMPOSER OF TOOLS



## PM - Grinding Pins Shank $\varnothing$ 8mm

For description & use refer to page 32.



Cat. No.	D	T	L1	Y	L	Grit size D or B	Stock*
PM8.0-10	8	10	40	8	80		2
PM8.0-15	8	10	45	8	100		2
PM9.0-10	9	10		8	80	91 126 181	3
PM9.0-15	9	10		8	100		3
PM10-15	10	10		8	80		2
PM12-15	12	10		8	80	91 126 181 252	2
PM15-10	15	10		8	80		3
PM20-01	20	10		8	80	126 181 252	2

## PM - Grinding Pins Shank $\varnothing$ 10mm

Cat. No.	D	T	L1	Y	L	Grit size D or B	Stock*
PM10-20	10	10	45	10	100		2
PM12-20	12	10		10	100	91 126 181 252	2
PM15-20	15	10		10	100		2
PM16-05	16	10		10	100		3
PM18-05	18	10		10	100		3
PM20-05	20	10		10	100	126 181 252	2
PM22-01	22	10		10	100		3
PM25-01	25	10		10	100		2

### Remarks:

All PM grinding pins are available in other diameters, grit sizes and different measurements upon request.

**Minimum clamping length = Half of total length:  $L_e = 0.5 \times L$ .**

Tolerance:  $D < \varnothing 2\text{mm} = \pm 0.05\text{mm}$ ,  $D > \varnothing 2\text{mm} = \pm 0.15\text{mm}$ ,

$T = \pm 1.0\text{mm}$ ,  $L1 = \pm 1.0\text{mm}$ ,  $Y = h6$ ,  $L = \pm 1.0\text{mm}$ .

### \*PM- Guide lines for stock availability

#1. Stock item – delivery within 2 weeks. No minimum quantity.

#2. Delivery as per production schedule. Normally within 1 month, minimum quantity 5-20 pcs. according to the diameter. Delivered quantity may vary by  $\pm 10\%$  from order quantity.

#3. Special manufacturing per order. Delivery according to order confirmation, minimum quantity 5-20 pcs. according to the diameter. Delivered quantity may vary by  $\pm 10\%$  from order quantity.



## GR - Round Grinding Pins

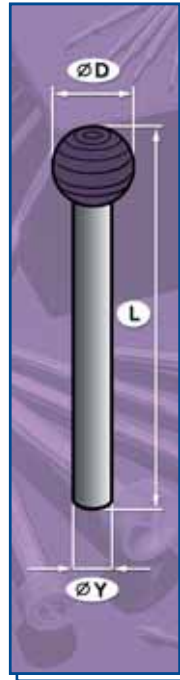
### Description & Use:

STRAUSS & CO.'s round GR pins are used for grinding carbide, ceramics, glass and hardened steels. Widely used in a hand-grinding machine (such as the AM24K or similar). Also used in internal grinding machines.

Commonly used also in the jewellery industry.

### GR - mm sizes

Cat. No.	D	Y	L
GR1	1	3	45
GR1.5	1.5	3	45
GR2	2	3	45
GR2.5	2.5	3	45
GR3	3	3	45
GR3.5	3.5	3	45
GR4	4	3	45
GR5	5	3	45
GR6	6	3	45
GR7	7	6	60
GR8	8	6	60
GR9	9	6	60
GR10	10	6	60
GR11	11	6	60
GR12	12	6	60
GR13	13	6	60
GR14	14	6	60
GR15	15	6	60
GR20	20	6	60



### GR - Inch sizes

Cat. No.	Inch Size			mm. Equivalence		
	D	Y	L	D	Y	L
GR0039	0.039	0.125	1.772	1.00	3.18	45
GR0079	0.079	0.125	1.772	2.00	3.18	45
GR0118	0.118	0.125	1.772	3.00	3.18	45
GR0138	0.138	0.125	1.772	3.50	3.18	45
GR0157	0.157	0.125	1.772	4.00	3.18	45
GR0197	0.197	0.125	1.772	5.00	3.18	45
GR0236	0.236	0.125	1.772	6.00	3.18	45
GR0276	0.276	0.250	2.362	7.00	6.35	60
GR0315	0.315	0.250	2.362	8.00	6.35	60
GR0354	0.354	0.250	2.362	9.00	6.35	60
GR0394	0.394	0.250	2.362	10.0	6.35	60

**Grit Size:** Available in D or B91 (#170/200), D or B126 (#120/140), D or B181 (#80/100). Other grit sizes are available upon request.

### Remarks:

**Minimum clamping length = Half of total length:  $L_c = 0.5 \times L$ .**

Tolerance: D =  $\pm 0.2\text{mm} (\pm 0.008\text{'})$ , Y = h6, L =  $\pm 1.0\text{mm} (\pm 0.040\text{'})$ .



## PA - Grinding Pins With Recess

### Description & Use:

STRAUSS & CO.'s PA pins have all the advantages and fetuers described in page 32 in our catalog. In addition these pins are specially made for Jig Grinding of blind holes, as the Debrée evacuating and the cooling is better then straight pins.

Cat. No.	D	T	N	Y	L
PA6.0-05	6	8	3.5	6	60
PA7.0-05	7	8	4.5	6	80
PA8.0-05	8	10	5.5	6	80
PA10-10	10	10	7.5	6	80
PA12-10	12	10	9.5	6	80
PA15-20	15	10	12.5	10	100

**Grit Size:** Available in D or B91 (#170/200), D or B126 (#120/140), D or B181 (#80/100). Other grit sizes are available upon request.

### Remarks:

**Minimum clamping length = Half of total length:  $L_c = 0.5 \times L$ .**

**Minimum order: 10 pcs. Per profile/grit.**

**Standard CBN pins is plated in ABN 300.**

Tolerance:  $D = \pm 0.15\text{mm}$ ,  $T = \pm 1.0\text{mm}$ ,  $N = \pm 1.0\text{mm}$ ,  $Y = h6$ ,  $L = \pm 1.0\text{mm}$ .



## GT-Grinding Pins With Tungsten Carbide Shank

### Description & Use:

STRAUSS & CO.'s GT pins have all the advantages and fetuers described in page 32 in our catalog. All GT pins are plated on a tungsten Carbide shank. This minimizes the vibrations to almost vibration free grinding. The result is extra precise grinding.

Code No.	Description					Min. order
	D	T	L1	Y	L	
GT2.0-05	2.0	5	12	3	55	20
GT2.5-05	2.5	5	16	3	55	20
GT3.0-05	3.0	5	16	3	55	20
GT3.5-05	3.5	5		3	55	20
GT4.0-05	4.0	5		3	55	20
GT4.0-15	4.0	5	20	6	60	10
GT4.5-01	4.5	5		3	55	20
GT5.0-01	5.0	6		3	55	20
GT5.0-05	5.0	6	20	6	60	10
GT6.0-05	6.0	8	20	6	60	10



Code No.	Description					Min. order
	D	T	L1	Y	L	
GT6.0-10	6.0	8	30	6	80	10
GT8.0-01	8.0	10		6	60	10
GT8.0-15	8.0	10	30	8	100	5
GT10-05	10	10		6	60	10
GT10-20	10	10	30	10	100	5
GT12-05	12	10		6	60	10
GT12-20	12	10		10	100	5
GT15-01	15	10		6	60	10
GT15-20	15	10		10	100	5

**Grit Size:** Available in D or B91 (#170/200), D or B126 (#120/140), D or B181 (#80/100). Other grit sizes are available upon request.

### Remarks:

**Standard CBN pins is plated with CBN570.**

Tolerance:  $D = \pm 0.15\text{mm}$ ,  $T = \pm 1.0\text{mm}$ ,  $L1 = \pm 1.0\text{mm}$ ,  $Y = h6$ ,  $L = \pm 1.0\text{mm}$ .

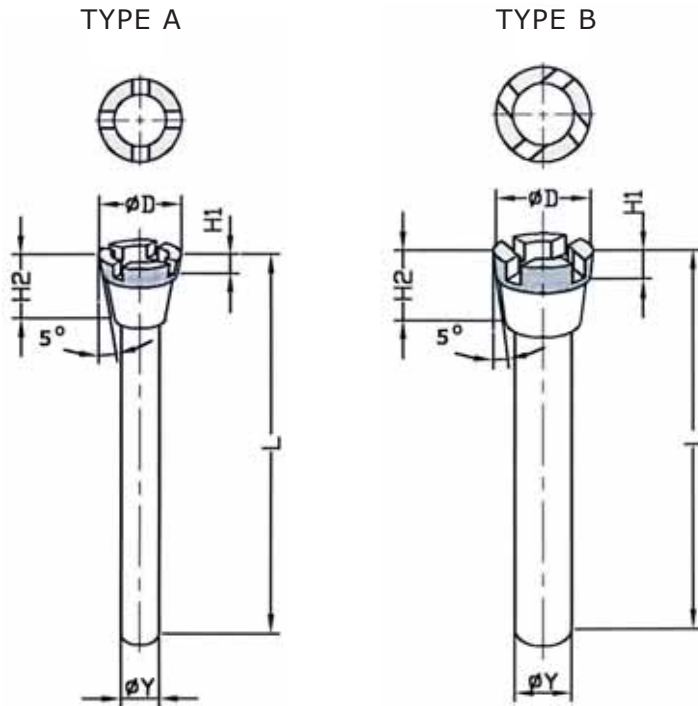




## BH-Bottoming Pins

### Description & Use:

STRAUSS & CO.'s **BH Series** are manufactured for *bottoming* and *shoulder* Grinding. They have a back taper, recessed center, and grinding dust exit slots. Two types are provided. Widely used on jig grinding machines.



Cat. No.	Inch Size					mm Equivalence				
	D	H1	H2	Y	L	D	H1	H2	Y	L
6909BH	0.315"	0.155"	0.500"	1/4"	3.000"	8.00	3.937	12.7	6.35	76.2
6910FBH	0.335"	0.155"	0.500"	1/4"	3.000"	8.50	3.937	12.7	6.35	76.2
6911BH	0.394"	0.155"	0.500"	1/4"	3.000"	10.00	3.937	12.7	6.35	76.2
6913DBH	0.473"	0.155"	0.500"	1/4"	3.000"	12.00	3.937	12.7	6.35	76.2
6915XLBH	0.591"	0.155"	0.500"	3/8"	3.500"	15.00	3.937	12.7	9.52	88.9
6917XLBH	0.730"	0.155"	0.500"	3/8"	3.500"	18.55	3.937	12.7	9.52	88.9
6919XLBH	1.000"	0.155"	0.500"	3/8"	3.500"	25.40	3.937	12.7	9.52	88.9

### Grit Size:

Available in D or B91 (#170/200), D or B181 (#80/100).  
For Diamond please indicate 2 at the beginning of the cat. no.  
(exp.2909BH=Diamond)

6909BH=CBN

Other grit sizes are available upon request.




### Remarks:

Minimum clamping length = Half of total length:  $L_c = 0.5 \times L$ .

Tolerance: D =  $\pm 0.006$ , H1 =  $\pm 0.040$ , H2 =  $\pm 0.040$ , Y = h6, L =  $\pm 0.040$ .

# PT - Grinding Pins Inch Sizes - Shank $\varnothing 1/8''$

For PT grinding pins series *Strauss & Co.* offers 3 types of super-abrasive coating:

-  - Pins plated with De Beers A.B.N 300 series.
-  - Pins plated with GE Borazon 570 series.
-  - Diamond plated pins.

- #400 = grit #325/400 (D54)
- #200 = grit #200/230 (D76)
- #170 = grit #170/200 (D91)
- #140 = grit #140/170 (D107)
- #120 = grit #120/140 (D126)
- #100 = grit #100/120 (D151)
- #80 = grit #80/100 (D181)
- #60 = grit #60/80 (D252)

Cat. No.	Inch Size					Grit Size	mm Equivalence				
	D	T	L1	Y	L		D	T	L1	Y	L
PT0016-01	0.016	0.079	0.125	0.125	2.000	#400 #400	0.40	2.00	3.18	3.18	50
PT0020-01	0.020	0.063	0.125	0.125	1.378	#200 #140	0.50	1.60	3.18	3.18	35
PT0020-05	0.020	0.079	0.250	0.125	2.000	#170 #170	0.50	2.00	6.35	3.18	50
PT0025-01	0.025	0.094	0.250	0.125	1.378	#200 #140 #140	0.65	2.38	6.35	3.18	35
PT0025-05	0.025	0.079	0.250	0.125	2.000	#400 #170 #400 #170	0.65	2.00	6.35	3.18	50
PT0030-01	0.030	0.094	0.250	0.125	1.378	#200 #140 #140	0.75	2.38	6.35	3.18	35
PT0030-05	0.030	0.079	0.250	0.125	2.000	#170 #120 #170 #120	0.75	2.00	6.35	3.18	50
PT0035-01	0.035	0.094	0.250	0.125	1.378	#200 #140 #140	0.90	2.38	6.35	3.18	35
PT0035-05	0.035	0.118	0.250	0.125	2.000	#170 #120 #120	0.90	3.00	6.35	3.18	50
PT0039-01	0.039	0.125	0.375	0.125	1.378	#200 #100 #80	1.00	3.18	9.52	3.18	35
PT0039-05	0.039	0.079	0.250	0.125	2.165	#170 #120 #170 #80	1.00	2.00	6.35	3.18	55
PT0039-10	0.039	0.125	0.375	0.125	2.500	#200 #100 #80	1.00	3.18	9.52	3.18	63.5
PT0045-01	0.045	0.125	0.375	0.125	1.378	#200 #100 #80	1.14	3.18	9.52	3.18	35
PT0045-05	0.045	0.118	0.250	0.125	2.165	#170 #120 #170 #120	1.14	3.00	6.35	3.18	55
PT0045-10	0.045	0.125	0.375	0.125	2.500	#200 #100 #80	1.14	3.18	9.52	3.18	63.5
PT0049-01	0.049	0.079	0.250	0.125	2.165	#170 #80 #170 #80	1.25	2.00	6.35	3.18	55
PT0050-01	0.050	0.125	0.375	0.125	1.378	#200 #100 #80	1.27	3.18	9.52	3.18	35
PT0050-05	0.050	0.118	0.500	0.125	2.165	#170 #120 #170 #120	1.27	3.00	12.7	3.18	55
PT0050-10	0.050	0.118	1.000	0.125	2.165	#120 #120	1.27	3.00	25.4	3.18	55
PT0050-15	0.050	0.125	0.375	0.125	2.500	#200 #100 #80	1.27	3.18	9.52	3.18	63.5
PT0050-20	0.050	0.125	1.000	0.125	2.500	#200 #100 #80	1.27	3.18	25.4	3.18	63.5
PT0055-01	0.055	0.125	0.375	0.125	1.378	#200 #100 #80	1.40	3.18	9.52	3.18	35
PT0055-05	0.055	0.118	0.500	0.125	2.165	#120 #120	1.40	3.00	12.7	3.18	55
PT0055-10	0.055	0.125	0.375	0.125	2.500	#200 #100 #80	1.40	3.18	9.52	3.18	63.5
PT0059-01	0.059	0.125	0.375	0.125	1.378	#200 #100 #80	1.50	3.18	9.52	3.18	35
PT0059-05	0.059	0.118	0.500	0.125	2.165	#170 #80 #170 #80	1.50	3.00	12.7	3.18	55
PT0059-10	0.059	0.157	1.000	0.125	2.165	#120 #120	1.50	4.00	25.4	3.18	55
PT0059-15	0.059	0.125	0.375	0.125	2.500	#200 #100 #80	1.50	3.18	9.52	3.18	63.5
PT0059-20	0.059	0.125	1.000	0.125	2.500	#200 #100 #80	1.50	3.18	25.4	3.18	63.5



## PT - Grinding Pins Inch Sizes - Shank $\varnothing$ 1/8"

Cat. No.	Inch Size					Grit Size	mm Equivalence				
	D	T	L1	Y	L		D	T	L1	Y	L
PT0065-01	0.065	0.157	0.500	0.125	2.165	#120 #120	1.65	4.00	12.7	3.18	55
PT0069-01	0.069	0.118	0.500	0.125	2.165	#170 #80 #170 #80	1.75	3.00	12.7	3.18	55
PT0070-01	0.070	0.157	0.500	0.125	1.378	#200 #100 #80	1.80	4.00	12.7	3.18	35
PT0070-05	0.070	0.157	0.500	0.125	2.165	#120 #120	1.80	4.00	12.7	3.18	55
PT0070-10	0.070	0.157	1.000	0.125	2.165	#120 #120	1.80	4.00	25.4	3.18	55
PT0070-15	0.070	0.157	0.500	0.125	2.500	#200 #100 #80	1.80	4.00	12.7	3.18	63.5
PT0070-20	0.070	0.157	1.000	0.125	2.500	#200 #100 #80	1.80	4.00	25.4	3.18	63.5
PT0075-01	0.075	0.157	0.500	0.125	2.165	#120 #120	1.90	4.00	12.7	3.18	55
PT0079-01	0.079	0.157	0.500	0.125	1.378	#200 #100 #80	2.00	4.00	12.7	3.18	35
PT0079-05	0.079	0.157	0.500	0.125	2.165	#170 #120 #80 #170 #120 #80	2.00	4.00	12.7	3.18	55
PT0079-10	0.079	0.157	1.000	0.125	2.165	#120 #120	2.00	4.00	25.4	3.18	55
PT0079-15	0.079	0.157	0.500	0.125	2.500	#200 #100 #80	2.00	4.00	12.7	3.18	63.5
PT0085-01	0.085	0.157	0.500	0.125	2.165	#120 #120	2.16	4.00	12.7	3.18	55
PT0089-01	0.089	0.157	0.500	0.125	2.165	#170 #80 #170 #80	2.25	4.00	12.7	3.18	55
PT0089-05	0.089	0.157	1.000	0.125	2.165	#120 #120	2.25	4.00	25.4	3.18	55
PT0091-01	0.091	0.157	0.500	0.125	1.378	#200 #100 #80	2.30	4.00	12.7	3.18	35
PT0091-05	0.091	0.157	0.500	0.125	2.500	#200 #100 #80	2.30	4.00	12.7	3.18	63.5
PT0091-10	0.091	0.157	1.000	0.125	2.500	#200 #100 #80	2.30	4.00	25.4	3.18	63.5
PT0095-01	0.095	0.157	0.500	0.125	2.165	#120 #120	2.40	4.00	12.7	3.18	55
PT0098-01	0.098	0.157	0.500	0.125	1.378	#200 #100 #80	2.50	4.00	12.7	3.18	35
PT0098-05	0.098	0.157	0.500	0.125	2.165	#170 #80 #170 #80	2.50	4.00	12.7	3.18	55
PT0098-10	0.098	0.157	0.500	0.125	2.500	#200 #100 #80	2.50	4.00	12.7	3.18	63.5
PT0098-15	0.098	0.157	1.000	0.125	2.500	#200 #100 #80	2.50	4.00	25.4	3.18	63.5
PT0105-01	0.105	0.157	0.500	0.125	2.165	#120 #120	2.65	4.00	12.7	3.18	55
PT0105-05	0.105	0.157	1.000	0.125	2.165	#120 #120	2.65	4.00	25.4	3.18	55
PT0108-01	0.108	0.157	0.500	0.125	2.165	#170 #80 #170 #80	2.75	4.00	12.7	3.18	55
PT0110-01	0.110	0.157	0.500	0.125	1.378	#200 #100 #80	2.80	4.00	12.7	3.18	35
PT0110-05	0.110	0.157	0.500	0.125	2.165	#120 #80 #120 #80	2.80	4.00	12.7	3.18	55
PT0110-10	0.110	0.157	1.000	0.125	2.165	#120 #120	2.80	4.00	25.4	3.18	55
PT0110-15	0.110	0.157	0.500	0.125	2.500	#200 #100 #80	2.80	4.00	12.7	3.18	63.5
PT0110-20	0.110	0.157	1.000	0.125	2.500	#200 #100 #80	2.80	4.00	25.4	3.18	63.5


**Remarks:**

All PT grinding pins are available in other diameters, grit sizes and different measurements, upon request.

**Minimum clamping length = Half of total length:  $Le=0.5xL$ .**

Tolerance:  $D \leq \varnothing 0.079 = \pm 0.002$ ,  $D > \varnothing 0.079 = \pm 0.006$ ,

$T = \pm 0.040$ ,  $L1 = \pm 0.040$ ,  $Y = h6$ ,  $L = \pm 0.040$ .

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# PT - Grinding Pins Inch Sizes - Shank $\varnothing$ 1/8"

For PT grinding pins series *Strauss & Co.* offers 3 types of super-abrasive coating:

- - Pins plated with De Beers A.B.N 300 series.
- - Pins plated with GE Borazon 570 series.
- - Diamond plated pins.

- #400 = grit #325/400 (D54)
- #200 = grit #200/230 (D76)
- #170 = grit #170/200 (D91)
- #140 = grit #140/170 (D107)
- #120 = grit #120/140 (D126)
- #100 = grit #100/120 (D151)
- #80 = grit #80/100 (D181)
- #60 = grit #60/80 (D252)

Cat. No.	Inch Size					Grit Size	mm Equivalence				
	D	T	L1	Y	L		D	T	L1	Y	L
PT0115-01	0.115	0.157	0.500	0.125	2.165	<span style="color: blue;">#170</span> <span style="color: blue;">#120</span> <span style="color: grey;">#170</span> <span style="color: grey;">#120</span>	2.90	4.00	12.7	3.18	55
PT0118-01	0.118	0.157	0.500	0.125	2.165	<span style="color: blue;">#170</span> <span style="color: blue;">#120</span> <span style="color: grey;">#170</span> <span style="color: grey;">#120</span>	3.00	4.00	12.7	3.18	55
PT0118-05	0.118	0.157	0.626	0.125	2.165	<span style="color: blue;">#170</span> <span style="color: blue;">#80</span> <span style="color: grey;">#170</span> <span style="color: grey;">#80</span>	3.00	4.00	15.9	3.18	55
PT0125-01	0.125	0.157	0.500	0.125	1.378	<span style="color: red;">#200</span> <span style="color: blue;">#100</span> <span style="color: red;">#80</span>	3.18	4.00	12.7	3.18	35
PT0125-05	0.125	0.157	0.500	0.125	2.165	<span style="color: blue;">#170</span> <span style="color: blue;">#120</span> <span style="color: grey;">#170</span> <span style="color: grey;">#120</span>	3.18	4.00	12.7	3.18	55
PT0125-10	0.125	0.157	0.500	0.125	2.500	<span style="color: blue;">#200</span> <span style="color: blue;">#100</span> <span style="color: red;">#80</span>	3.18	4.00	12.7	3.18	63.5
PT0125-15	0.125	0.157	1.000	0.125	2.500	<span style="color: blue;">#200</span> <span style="color: blue;">#100</span> <span style="color: red;">#80</span>	3.18	4.00	25.4	3.18	63.5
PT0130-01	0.130	0.157	0.500	0.125	2.165	<span style="color: blue;">#120</span> <span style="color: blue;">#120</span>	3.30	4.00	12.7	3.18	55
PT0130-05	0.130	0.197	0.626	0.125	2.165	<span style="color: blue;">#170</span> <span style="color: blue;">#80</span> <span style="color: grey;">#170</span> <span style="color: grey;">#80</span>	3.30	5.00	15.9	3.18	55
PT0135-01	0.135	0.236		0.125	2.165	<span style="color: blue;">#120</span> <span style="color: blue;">#120</span>	3.43	6.00		3.18	55
PT0140-01	0.140	0.197		0.125	2.165	<span style="color: blue;">#170</span> <span style="color: blue;">#80</span> <span style="color: grey;">#170</span> <span style="color: grey;">#80</span>	3.55	5.00		3.18	55
PT0140-05	0.140	0.250		0.125	2.500	<span style="color: blue;">#200</span> <span style="color: blue;">#100</span> <span style="color: red;">#80</span>	3.55	6.35		3.18	63.5
PT0157-01	0.157	0.197		0.125	2.165	<span style="color: blue;">#170</span> <span style="color: blue;">#80</span> <span style="color: grey;">#170</span> <span style="color: grey;">#80</span>	4.00	5.00		3.18	55
PT0157-05	0.157	0.250		0.125	2.500	<span style="color: blue;">#200</span> <span style="color: blue;">#100</span> <span style="color: red;">#80</span>	4.00	6.35		3.18	63.5
PT0171-01	0.171	0.236		0.125	2.165	<span style="color: blue;">#120</span> <span style="color: blue;">#80</span>	4.34	6.00		3.18	55
PT0177-01	0.177	0.236		0.125	2.165	<span style="color: blue;">#170</span> <span style="color: blue;">#80</span> <span style="color: grey;">#170</span> <span style="color: grey;">#80</span>	4.50	6.00		3.18	55
PT0187-01	0.187	0.275		0.125	2.165	<span style="color: blue;">#120</span> <span style="color: blue;">#120</span>	4.75	7.00		3.18	55
PT0187-05	0.187	0.250		0.125	2.500	<span style="color: blue;">#200</span> <span style="color: blue;">#100</span> <span style="color: red;">#80</span>	4.75	6.35		3.18	63.5
PT0197-01	0.197	0.236		0.125	2.165	<span style="color: blue;">#170</span> <span style="color: blue;">#80</span> <span style="color: grey;">#170</span> <span style="color: grey;">#80</span>	5.00	6.00		3.18	55
PT0203-01	0.203	0.275		0.125	2.165	<span style="color: blue;">#120</span> <span style="color: blue;">#120</span>	5.16	7.00		3.18	55
PT0219-01	0.219	0.275		0.125	2.165	<span style="color: blue;">#120</span> <span style="color: blue;">#120</span>	5.56	7.00		3.18	55
PT0219-05	0.219	0.250		0.125	2.500	<span style="color: blue;">#200</span> <span style="color: blue;">#100</span> <span style="color: red;">#80</span>	5.56	6.35		3.18	63.5
PT0236-01	0.236	0.276		0.125	2.165	<span style="color: blue;">#170</span> <span style="color: blue;">#80</span> <span style="color: grey;">#170</span> <span style="color: grey;">#80</span>	6.00	7.00		3.18	55
PT0250-01	0.250	0.275		0.125	2.165	<span style="color: blue;">#170</span> <span style="color: blue;">#120</span> <span style="color: blue;">#80</span> <span style="color: grey;">#170</span> <span style="color: grey;">#120</span> <span style="color: grey;">#80</span>	6.35	7.00		3.18	55
PT0250-05	0.250	0.125		0.125	2.500	<span style="color: blue;">#140</span> <span style="color: blue;">#100</span> <span style="color: red;">#80</span>	6.35	3.18		3.18	63.5
PT0250-10	0.250	0.250		0.125	2.500	<span style="color: blue;">#200</span> <span style="color: blue;">#100</span> <span style="color: red;">#80</span>	6.35	6.35		3.18	63.5



PT - Grinding Pins Inch Sizes - Shank  $\varnothing$  1/4"

Cat. No.	Inch Size					Grit Size	mm Equivalence				
	D	T	L1	Y	L		D	T	L1	Y	L
PT0079-20	0.079	0.157	0.500	0.250	2.165	#170 #80 #170 #80	2.00	4.00	12.7	6.35	55
PT0089-10	0.089	0.157	0.500	0.250	2.165	#170 #80 #170 #80	2.25	4.00	12.7	6.35	55
PT0098-20	0.098	0.157	0.500	0.250	2.165	#170 #80 #170 #80	2.50	4.00	12.7	6.35	55
PT0108-05	0.108	0.157	0.500	0.250	2.165	#170 #80 #170 #80	2.75	4.00	12.7	6.35	55
PT0118-10	0.118	0.157	0.626	0.250	2.165	#170 #80 #170 #80	3.00	4.00	15.9	6.35	55
PT0118-15	0.118	0.157	1.500	0.250	3.500	#170 #80 #170 #80	3.00	4.00	38.1	6.35	88.9
PT0130-10	0.130	0.197	0.626	0.250	2.165	#170 #80 #170 #80	3.30	5.00	15.9	6.35	55
PT0130-15	0.130	0.197	1.500	0.250	3.500	#170 #80 #170 #80	3.30	5.00	38.1	6.35	88.9
PT0140-10	0.140	0.197	0.626	0.250	2.165	#170 #80 #170 #80	3.55	5.00	15.9	6.35	55
PT0140-15	0.140	0.250	1.000	0.250	3.000	#140 #100 #80	3.55	6.35	25.4	6.35	76.2
PT0140-20	0.140	0.197	1.500	0.250	3.500	#170 #80 #170 #80	3.55	5.00	38.1	6.35	88.9
PT0157-10	0.157	0.197	0.626	0.250	2.165	#170 #80 #170 #80	4.00	5.00	15.9	6.35	55
PT0157-15	0.157	0.250	1.000	0.250	3.000	#140 #100 #80	4.00	6.35	25.4	6.35	76.2
PT0157-20	0.157	0.197	1.500	0.250	3.500	#170 #80 #170	4.00	5.00	38.1	6.35	88.9
PT0177-05	0.177	0.236	0.626	0.250	2.165	#170 #80 #170 #80	4.50	6.00	15.9	6.35	55
PT0177-10	0.177	0.236	1.500	0.250	3.500	#170 #80 #170 #80	4.50	6.00	38.1	6.35	88.9
PT0187-10	0.187	0.250	1.000	0.250	3.000	#140 #100 #80	4.75	6.35	25.4	6.35	76.2
PT0197-05	0.197	0.236	0.626	0.250	2.165	#170 #80 #170 #80	5.00	6.00	15.9	6.35	55
PT0197-10	0.197	0.236	1.500	0.250	3.500	#170 #80 #170 #80	5.00	6.00	38.1	6.35	88.9
PT0203-05	0.203	0.250	1.000	0.250	3.000	#120 #80	5.16	6.35	25.4	6.35	76.2
PT0219-10	0.219	0.250	1.000	0.250	3.000	#140 #100 #80	5.56	6.35	25.4	6.35	76.2
PT0236-05	0.236	0.276	1.000	0.250	3.000	#170 #80 #60 #170 #80 #60	6.00	7.00	25.4	6.35	76.2
PT0250-15	0.250	0.125	1.000	0.250	3.000	#140 #100 #80	6.35	3.18	25.4	6.35	76.2
PT0250-20	0.250	0.250	1.000	0.250	3.000	#140 #100 #80	6.35	6.35	25.4	6.35	76.2
PT0256-01	0.256	0.276	1.000	0.250	3.000	#170 #80 #60 #170 #80 #60	6.50	7.00	25.4	6.35	76.2
PT0282-01	0.282	0.250		0.250	3.000	#120 #80 #80	7.16	6.35		6.35	76.2


**Remarks:**

All PT grinding pins are available in other diameters, grit sizes and different measurements, upon request.

**Minimum clamping length = Half of total length:  $L_c = 0.5 \times L$ .**

Tolerance:  $D < \varnothing 0.079 = \pm 0.002$ ,  $D > \varnothing 0.079 = \pm 0.006$ ,

$T = \pm 0.040$ ,  $L1 = \pm 0.040$ ,  $Y = h6$ ,  $L = \pm 0.040$ .

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# PT - Grinding Pins Inch Sizes - Shank $\varnothing 1/4"$

For PT grinding pins series *Strauss & Co.* offers 3 types of super-abrasive coating:

 - Pins plated with De Beers A.B.N 300 series.

 - Pins plated with GE Borazon 570 series.

 - Diamond plated pins.

#400 = grit #325/400 (D54)

#140 = grit #140/170 (D107)

#80 = grit #80/100 (D181)

#200 = grit #200/230 (D76)

#120 = grit #120/140 (D126)

#60 = grit #60/80 (D252)

#170 = grit #170/200 (D91)

#100 = grit #100/120 (D151)

Cat. No.	Inch Size					Grit Size	mm Equivalence				
	D	T	L1	Y	L		D	T	L1	Y	L
PT0315-01	0.315	0.250		0.250	3.000	#140 #80	8.00	6.35		6.35	76.2
PT0315-05	0.315	0.315		0.250	3.000	#170 #80 #170 #80	8.00	8.00		6.35	76.2
PT0315-10	0.315	0.375		0.250	3.000	#140 #100 #80	8.00	9.52		6.35	76.2
PT0315-15	0.315	0.374		0.250	3.500	#80 #80	8.00	10.0		6.35	88.9
PT0335-01	0.335	0.315		0.250	3.000	#170 #80 #60 #170 #80 #60	8.50	8.00		6.35	76.2
PT0375-01	0.375	0.125		0.250	3.000	#140 #100 #80	9.52	3.18		6.35	76.2
PT0375-05	0.375	0.250		0.250	3.000	#140 #100 #80	9.52	6.35		6.35	76.2
PT0375-10	0.375	0.375		0.250	3.000	#140 #100 #80	9.52	9.52		6.35	76.2
PT0375-15	0.375	0.394		0.250	3.500	#170 #120 #80 #170 #120 #80	9.52	10.0		6.35	88.9
PT0394-01	0.394	0.197		0.250	3.500	#170 #80 #170 #80	10.0	5.00		6.35	88.9
PT0394-05	0.394	0.394		0.250	3.500	#170 #80 #170 #80	10.0	10.0		6.35	88.9
PT0406-01	0.406	0.394		0.250	3.500	#80	10.3	10.0		6.35	88.9
PT0437-01	0.437	0.394		0.250	3.500	#80 #80	11.0	10.0		6.35	88.9
PT0472-01	0.472	0.394		0.250	3.500	#170 #80 #170 #80	12.0	10.0		6.35	88.9
PT0500-01	0.500	0.250		0.250	3.000	#80	12.7	6.35		6.35	76.2
PT0500-05	0.500	0.375		0.250	3.000	#140 #100 #80	12.7	9.52		6.35	76.2
PT0500-10	0.500	0.500		0.250	3.000	#140 #100 #80	12.7	12.7		6.35	76.2
PT0500-15	0.500	0.394		0.250	3.500	#170 #120 #80 #170 #120 #80	12.7	10.0		6.35	88.9
PT0591-01	0.591	0.197		0.250	3.500	#170 #80 #170 #80	15.0	5.00		6.35	88.9
PT0591-05	0.591	0.394		0.250	3.500	#170 #80 #170 #80	15.0	10.0		6.35	88.9
PT0728-01	0.728	0.394		0.250	3.500	#170 #80 #170 #80	18.5	10.0		6.35	88.9
PT0750-01	0.750	0.250		0.250	3.000	#140 #100 #80	19.1	6.35		6.35	76.2
PT0750-05	0.750	0.500		0.250	3.000	#140 #100 #80	19.1	12.7		6.35	76.2
PT0865-01	0.864	0.394		0.250	3.500	#80 #120 #80	22.0	10.0		6.35	88.9





# PT - Grinding Pins Inch Sizes - Shank $\varnothing$ 3/8"



PT- Grinding Pins Inch Sizes

Cat. No.	Inch Size					Grit Size	mm Equivalence				
	D	T	L1	Y	L		D	T	L1	Y	L
PT0394-10	0.394	0.197		0.375	3.500	#170 #80 #170 #80	10.0	5.00		9.52	88.9
PT0394-15	0.394	0.394		0.375	3.500	#170 #80 #60 #170 #80 #60	10.0	10.0		9.52	88.9
PT0394-20	0.394	0.394		0.375	3.937	#80 #100	10.0	10.0		9.52	100
PT0406-05	0.406	0.394		0.375	3.500	#80 #80	10.3	10.0		9.52	88.9
PT0437-05	0.437	0.394		0.375	3.500	#60 #60	11.0	10.0		9.52	88.9
PT0472-05	0.472	0.394		0.375	3.500	#170 #80 #60 #170 #80	12.0	10.0		9.52	88.9
PT0472-10	0.472	0.394		0.375	3.937	#80 #100	12.0	10.0		9.52	100
PT0500-20	0.500	0.394		0.375	3.500	#80 #60 #80 #60	12.7	10.0		9.52	88.9
PT0562-01	0.562	0.394		0.375	3.500	#60 #60	14.3	10.0		9.52	88.9
PT0591-10	0.591	0.197		0.375	3.500	#170 #80 #170 #80	15.0	5.00		9.52	88.9
PT0591-15	0.591	0.394		0.375	3.500	#170 #80 #60 #170 #80 #60	15.0	10.0		9.52	88.9
PT0591-20	0.591	0.394		0.375	3.937	#80 #60 #100 #60	15.0	10.0		9.52	100
PT0625-01	0.625	0.394		0.375	3.500	#60 #60	15.9	10.0		9.52	88.9
PT0687-01	0.687	0.394		0.375	3.500	#60 #60	17.5	10.0		9.52	88.9
PT0728-05	0.728	0.394		0.375	3.500	#170 #80 #60 #170 #80 #60	18.5	10.0		9.52	88.9
PT0750-10	0.750	0.394		0.375	3.500	#60 #60	19.1	10.0		9.52	88.9
PT0787-01	0.787	0.394		0.375	3.937	#80 #60 #100 #60	20.0	10.0		9.52	100
PT0865-05	0.875	0.394		0.375	3.500	#60 #60	22.0	10.0		9.52	88.9
PT1000-01	1.000	0.394		0.375	3.500	#170 #80 #60 #170 #80 #60	25.4	10.0		9.52	88.9
PT1000-05	0.984	0.394		0.375	3.937	#80 #60 #100 #60	25.0	10.0		9.52	100
PT1260-01	1.260	0.394		0.375	3.500	#170 #80 #60 #170 #80 #60	32.0	10.0		9.52	88.9
PT1500-01	1.500	0.394		0.375	3.500	#170 #80 #60 #170 #80 #60	38.1	10.0		9.52	88.9



### Remarks:

All PT grinding pins are available in other diameters, grit sizes and different measurements, upon request.

**Minimum clamping length = Half of total length:  $L_c = 0.5 \times L$ .**

Tolerance: D=  $\pm 0.006$ , T=  $\pm 0.040$ , L1=  $\pm 0.040$ , Y= h6, L=  $\pm 0.040$ .

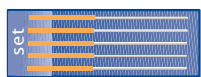
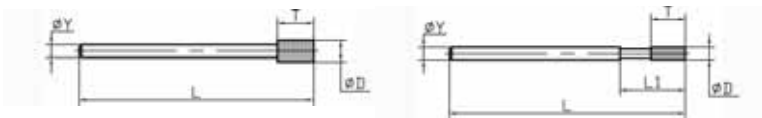


# Grinding Pins Sets

STRAUSS & CO. Offers a wide variety of grinding pin sets:



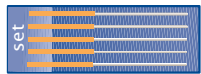
Cat. No.	D	T	L1	Y	L
PM2.0-05	2	5	12	3	55
PM4.0-05	4	5		3	55
PM6.0-05	6	8	20	6	60
PM8.0-01	8	10		6	60
PM10-05	10	10		6	60



**Cat. No. GPS10SET**

The GPS10SET includes one of each of the above 5 pins in D91 **and** 5 of each in D126..

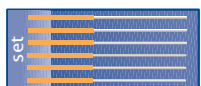
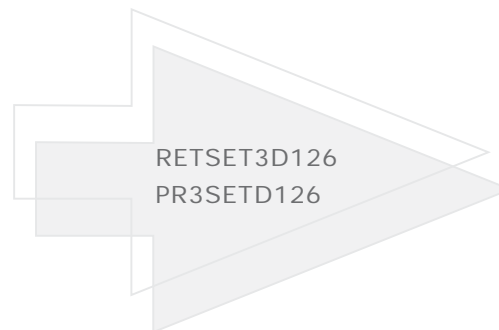
Also available in B91/B126=GPS10BSET.



**Cat. No. GPS5**

The GPS5 includes one of each of the above 5 pins.

GPS5 is available in D126 or B126.

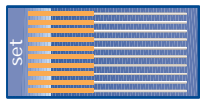
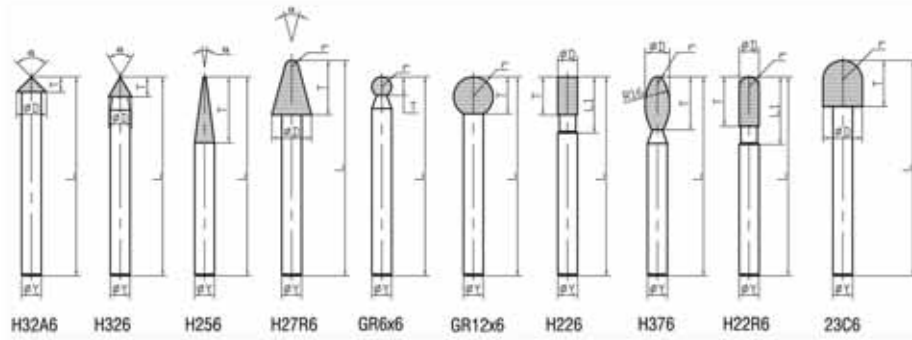


**Cat. No. RET.PR3.SETD126**

Includes the two sets: RETSET3D126 & PR3SETD126.



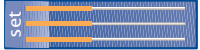
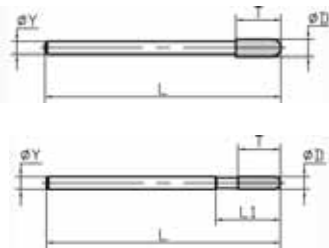
# Grinding Pins Sets



**Cat. No. HP6SET10D126**

Includes one of each of the following pins:  
GR12D126, H23C6D126, H256D126, H22R6D126,  
H226D126, H27R6D126, H326D126, H32A6D126,  
H376D126, GR6X6D126.

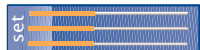
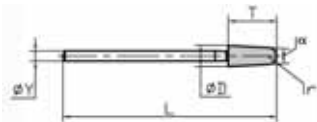
Cat. No.	D	T	$\alpha$	Y	r	L
H32A6	9.0	4.7	90	6.0		60
H326	7.0	6.0	60	6.0		60
H256	6.0	20.0	15	6.0		60
H27R6	12.0	16.5	30	6.0	2.1	60
GR6X6	6.0	5.6		6.0	3.0	60
GR12X6	12.0	11.2		6.0	6.0	60
H226	6.0	11.5		6.0		60
H376	7.5	16.0		6.0	2.2	60
H22R6	6.0	15.0		6.0	3.0	60
H23C6	12.0	14.0		6.0	6.0	60



**Cat. No. PR3SETD126**

Includes one of each of the following pins:  
PR3X10-01D126, PR4X10-01D126, PR6X13-01D126.

Cat. No.	D	T	L1	r	Y	L
PR3X10-01	3.0	10	15	1.5	3.0	55
PR4X10-01	4.0	10		2.0	3.0	55
PR6X13-01	6.0	13		3.0	3.0	55



**Cat. No. RETSET3D126**

Includes one of each of the following pins:  
H27RD126, H27R4.8X3D126, H27R6X3D126.

Cat. No.	D	T	$\alpha$	Y	r	L
H27R3	3.4	9.2	6.0	3.0	1.3	48.5
H27R4.8X3	4.8	11.0	6.0	3.0	1.9	48.5
H27R6X3	6.0	13.0	6.0	3.0	2.5	48.5





# HP – Hand Pieces

## Description & Use :

STRAUSS & CO.'s **HP** range of burs is available for profile grinding where a non-cylindrical shape is required. Available in 29 different shapes, which are widely used in hand grinders for grinding and deburring applications. Also used in dental and jewellery industries.

## Size:

Total length 44.5mm. Shank (Y)  $\varnothing$ 3.00mm. or  $\varnothing$ 2.35mm. When ordering please indicate shank  $\varnothing$ .

**Example For Order:** H11=shank  $\varnothing$  2.35mm. H113=shank  $\varnothing$  3.00mm.

	Cat.No.	D1	D2	T		Cat.No.	D1	D2	T	
<b>Ball</b> 	H11	1.0			<b>Inverted Cone 25°</b> 	H15	1.5	1.3	1.8	
	H12	1.8				H16	2.6	2.1	2.3	
	H13	2.0				H17	2.3	1.9	6.2	
	H14	2.9								
	H14B	5.0								
<b>Flat End Taper</b> 	H18	1.0	1.6	4.6	<b>Cylindrical</b> 	H20	1.6		4.6	
	H19	1.3	2.1	7.7		H21	1.9		5.0	
	H26	1.7	2.1	4.6		H22	2.5		5.2	
	H27*	2.5	3.3	9.4		H23	3.5		5.8	
* Total Length 48.5mm						H23B	4.9		7.4	
<b>Flame</b> 	H25	2.2		9.0	<b>Round End Taper</b> 	H27R	3.4	2.6	9.2	
<b>Wheel</b> 	H28	5.3		0.8	<b>Knife</b> 	H31	6.1		2.3	
	H29	5.4		2.0						
	H30	6.4		2.0						
<b>Cone</b> 	H24	2.5		6.9	<b>Inverted Cone 75°</b> 	H33	6.2		3.1	
	H32	5.1		4.3		H34	8.2		4.0	
<b>Grit Size:</b> D126 (#120/140). <b>Remarks:</b> Other grit sizes are available upon request. Minimum clamping length = Half of total length: $L_c = 0.5 \times L$ .					<b>Inverted Cone 75°</b> 	H35	6.4		2.3	
						H36	9.4		4.5	



# SP- Special Profile Pins

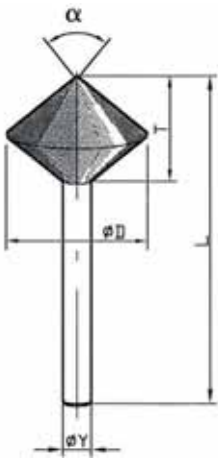


Strauss & Co. offers its clients numerous shapes of pins as standard items. Still, we recognize the need for a custom made product. Please choose a shape from these drawings, and ask for a quotation. Please indicate the exact sizes you require.

**Available in all grit sizes.**

**Other shapes are available - please send a drawing or a sketch for quotation.**

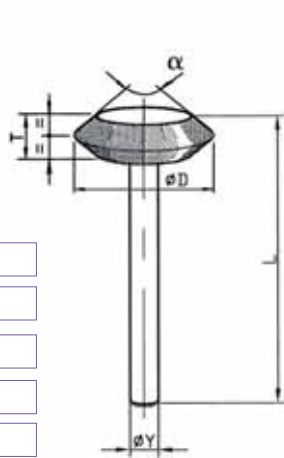
Cat. No.: SP-1



D =   
 T =   
 $\alpha$  =   
 Y =   
 L =

Remarks: .....

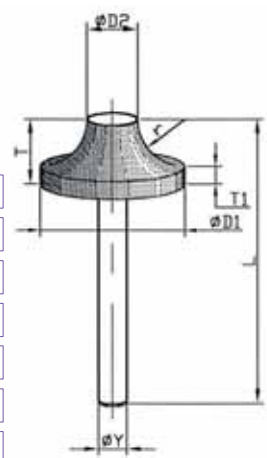
Cat. No.: SP-2



D =   
 T =   
 $\alpha$  =   
 Y =   
 L =

Remarks: .....

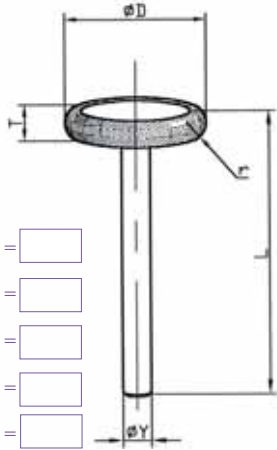
Cat. No.: SP-3



D1 =   
 D2 =   
 T =   
 T1 =   
 r =   
 Y =   
 L =

Remarks: .....

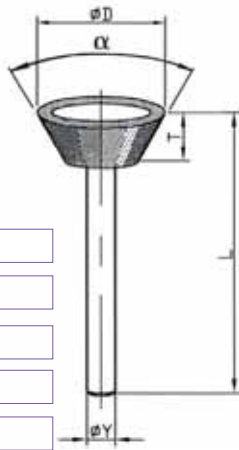
Cat. No.: SP-4



D =   
 T =   
 r =   
 Y =   
 L =

Remarks: .....

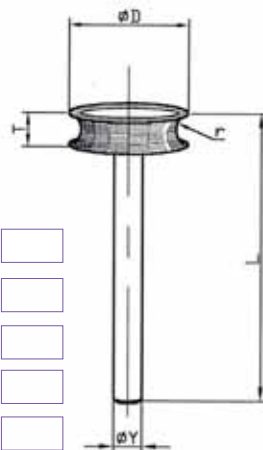
Cat. No.: SP-5



D =   
 T =   
 $\alpha$  =   
 Y =   
 L =

Remarks: .....

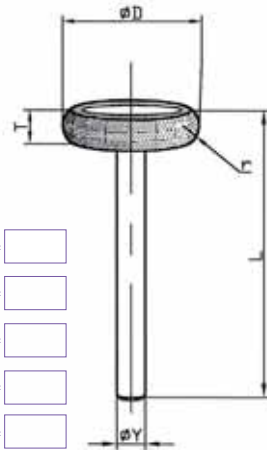
Cat. No.: SP-6



D =   
 T =   
 r =   
 Y =   
 L =

Remarks: .....

Cat. No.: SP-7



D =   
 T =   
 r =   
 Y =   
 L =

Remarks: .....



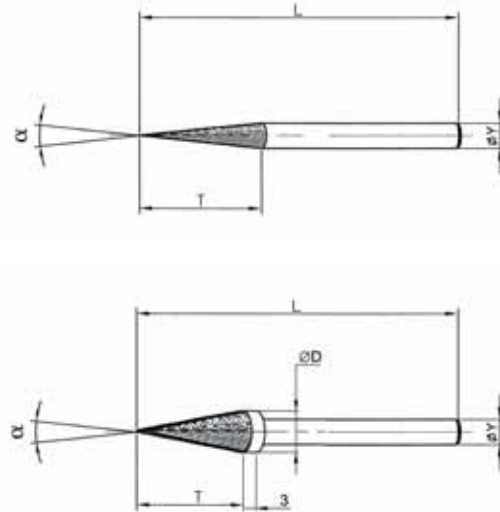
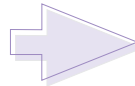
# Profile Grinding Pins

## PK- Pins for grinding tungsten carbide drawing dies

### Description & Use:

STRAUSS & CO.'s diamond plated tapered pins are ideal for grinding or ripping tungsten carbide drawing dies for the wire and tube industries. It is also used for cold heading dies.

Cat No.	D	T	Y	L	$\alpha$
PK3X8-01	3	19	3	55	8
PK3X10-01	3	17	3	55	10
PK3X12-01	3	14	3	55	12
PK3X15-01	3	11	3	55	15
PK3X20-01	3	8.5	3	55	20
PK5X8-01	5	36	6	75	8
PK6X10-01	6	33	6	100	10
PK6X12-01	6	29	6	100	12
PK6X14-01	6	24	6	100	14
PK6X16-01	6	21	6	62	16
PK6X20-01	6	18	6	58	20
PK6X30-01	6	12	6	52	30
PK $\frac{1}{8}$ X8-01	$\frac{1}{8}$	21	$\frac{1}{8}$	63	8
PK $\frac{1}{8}$ X10-01	$\frac{1}{8}$	17	$\frac{1}{8}$	63	10
PK $\frac{1}{8}$ X12-01	$\frac{1}{8}$	14	$\frac{1}{8}$	63	12
PK $\frac{1}{4}$ X8-01	$\frac{1}{4}$	44	$\frac{1}{4}$	76	8
PK $\frac{1}{4}$ X10-01	$\frac{1}{4}$	35	$\frac{1}{4}$	76	10
PK $\frac{1}{4}$ X12-01	$\frac{1}{4}$	29	$\frac{1}{4}$	76	12
PK $\frac{3}{8}$ X8-01	$\frac{3}{8}$	67	$\frac{1}{4}$	100	8
PK $\frac{3}{8}$ X10-01	$\frac{3}{8}$	53	$\frac{1}{4}$	89	10
PK $\frac{3}{8}$ X12-01	$\frac{3}{8}$	44	$\frac{1}{4}$	76	12
special					



### Remarks:

Available in D91 (#170/200), D126 (#120/140), D151 (#100/120), D181 (#80/100).

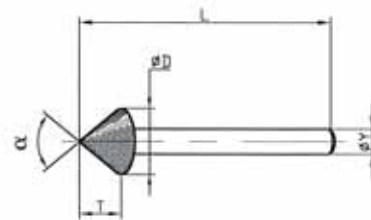
Other sizes and grit sizes are available upon request.

For this type of custom-made shape pin, please refer to the PK drawing.

Minimum clamping length = Half of total length:  $Le=0.5xL$

## PK(2) - Conical Grinding Pins

Cat No.	D	T	Y	L	$\alpha$
PK6X45-01	6	9	6	60	45
PK6X60-01	6	6	6	60	60
PK6X90-01	6	3	6	60	90
PK8X30-01	8	13	6	60	30
PK8X45-01	8	8.5	6	60	45
PK8X60-01	8	6.6	6	60	60
PK8X60-02	8	6.6	3	55	60
PK8X90-01	8	4	6	60	90
PK10X30-01	10	20	6	60	30
PK10X45-01	10	12	6	52	45
PK10X60-01	10	9	6	50	60
PK10X90-01	10	5	6	45	90
PK12X30-01	12	24	6	64	30
PK12X45-01	12	15	6	55	45
PK12X60-01	12	10	6	60	60
PK12X90-01	12	6	6	46	90
PK15X45-01	15	18	6	58	45
PK15X60-01	15	14	6	54	60
PK15X90-01	15	8	6	48	90
PK20X45-01	20	24	6	64	45
PK20X60-01	20	18	6	58	60
PK20X90-01	20	10	6	50	90
PK30X90-01	30	15	6	55	90
special					
special					



### Remarks:

Available in D or B91 (#170/200), D or B126 (#120/140), D or B181 (#80/100).

Other sizes and grit sizes are available upon request.

For this type of custom-made shape pin, please refer to the PK drawing.

Minimum clamping length = Half of total length:  $Le=0.5xL$





### PF - Flat End Taper Grinding Pins

Cat No.	D1	D2	T	Y	L
PF3X1-01	3	1	11.5	6	46
PF4X2-01	4	2	11.5	6	46
PF5X3-01	5	3	11.5	6	46
PF6X4-01	6	4	11.5	6	46
PF7X5-01	7	5	11.5	6	46
PF8X6-01	8	6	11.5	6	46
PF11X9-01	11	9	11.5	6	46
PF12X10-01	12	10	11.5	6	46
PF13X11-01	13	11	11.5	6	46

special

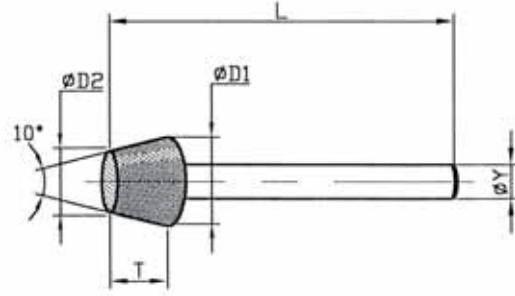
#### Remarks:

Available in D151 (#100/120).

Other sizes and grit sizes are available upon request.

For this type of custom-made shape pin, please refer to the PF drawing.

Minimum clamping length = Half of total length:  $Le=0.5xL$ .



### PR - Radius Shaped Grinding Pins

Cat No.	D	T	Y	L	r
PR6X20-01	6	20	6	60	3.0
PR10X15-01	10	15	6	55	5.0
PR15X30-01	15	30	6	70	7.5

special

#### Remarks:

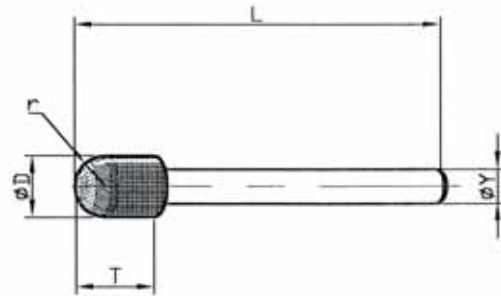
Available in D or B91 (#170/200),

D or B126 (#120/140), D or B181 (#80/100).

Other sizes and grit sizes are available upon request.

For this type of custom-made shape pin, please refer to the PR drawing.

Minimum clamping length = Half of total length:  $Le=0.5xL$ .



### PH - Inverted Cone Pins

Cat No.	D	T	Y	L	α
PH12X60-01	12	4	6	44	60
PH20X45-01	20	10	6	50	45
PH20X90-01	20	5	6	45	90
PH30X90-01	30	10	6	50	90

special

#### Remarks :

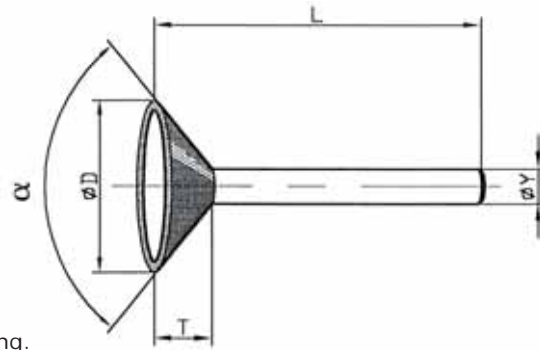
Available in D or B91 (#170/200),

D or B126 (#120/140), D or B181 (#80/100).

Other sizes and grit sizes are available upon request.

For this type of custom-made shape pin, please refer to the PH drawing.

Minimum clamping length = Half of total length:  $Le=0.5xL$ .



### GPR - Radius Shaped Grinding Pins

Cat No.	D	T	Y	L	r
GPR2X4	2.0	4	2.0	60	0.5
GPR2.5X4	2.5	4	2.0	60	1.0
GPR3X5	3.0	5	2.5	60	1.0
GPR3.5X5	3.5	5	3.0	80	1.0
GPR4.5X6	4.5	6	4.0	80	1.0
GPR5.5X6	5.5	6	5.0	80	1.5
GPR6.5X8	6.5	8	6.0	100	1.5
GPR8.5X10	8.5	10	8.0	100	1.5
GPR10.5X12	10.5	12	10	100	1.5
GPR12X12	12.0	12	10	100	1.5
GPR15X15	15.0	15	10	100	1.5

special

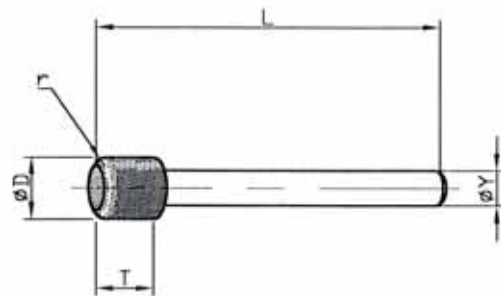
#### Remarks:

Available in D151 (#100/120).

Other sizes and grit sizes are available upon request. .

For this type of custom-made shape pin, please refer to the GPR drawing.

Minimum clamping length = Half of total length:  $Le=0.5xL$ .



## W1-Internal Grinding Wheels

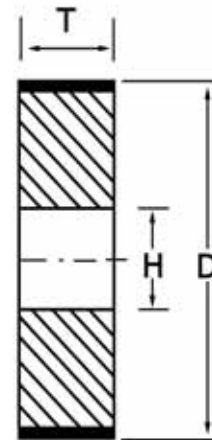
### Description & Use:

STRAUSS & CO.'S Small diameter grinding wheels are used for internal grinding. Commonly mounted on a shank by the user. The applications are similar to those of grinding pins, usually for bigger holes. The tight tolerance of hole and outer diameter offers the user very accurate grinding and excellent surface finishing.

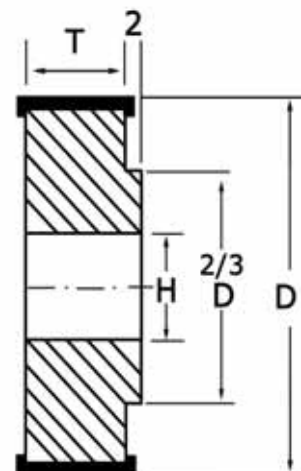


Cat No.	D	T	H	Available Type
A1-10-01	10	10	6	W1A1
A1-10-05	10	15	6	
A1-12-01	12	10	6	
A1-12-05	12	15	6	
A1-15-01	15	10	6	
A1-15-05	15	10	8	W1A1 or W1A2
A1-15-10	15	20	8	
A1-20-01	20	5	6	
A1-20-05	20	10	6	
A1-20-10	20	10	8	
A1-20-15	20	15	8	
A1-25-01	25	10	6	
A1-25-05	25	10	8	
A1-25-10	25	10	10	
A1-25-15	25	15	8	
A1-25-20	25	15	10	
A1-30-01	30	10	8	
A1-30-05	30	10	10	
A1-30-10	30	15	8	
A1-30-15	30	15	10	
A1-35-01	35	15	16	
A1-35-05	35	20	16	
A1-40-01	40	10	8	
A1-40-05	40	10	10	
A1-40-10	40	10	13	
A1-40-15	40	12	10	
A1-40-20	40	12	16	
A1-40-25	40	15	16	
A1-40-30	40	20	16	
A1-40-35	40	20	20	
A1-50-01	50	10	10	
A1-50-05	50	10	13	
A1-50-10	50	10	20	
A1-50-15	50	12	13	
A1-50-20	50	15	20	
A1-50-25	50	16	16	
A1-50-30	50	20	20	
A1-60-01	60	10	20	
A1-60-05	60	15	20	
A1-60-10	60	20	20	
A1-75-01	75	10	20	
A1-75-05	75	15	20	
A1-75-10	75	20	20	

### W1A1



### W1A2



### Grit Size:

Available in D or B91 (#170/120), D or B126 (#120/140), D or B181 (#80/100).

### Remarks:

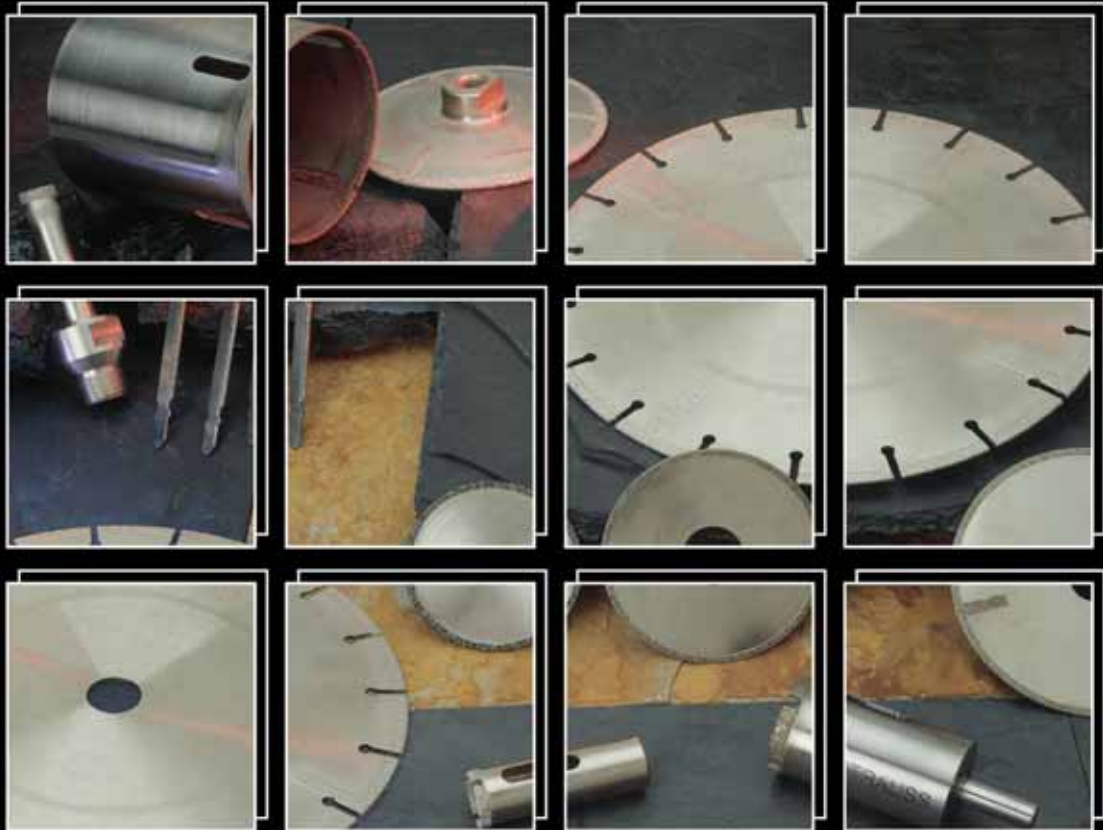
Tolerance: D=  $\pm 0.15$ , T=  $\pm 0.2$ , H= h7.

**Available in type W1A2. To order please indicate A2 As the Cat. No. instead of A1. (For example A2-50-01 is 50X10X20 in form A2)**



# Diamond & CBN Saws

**STRAUSS & CO.**  
INDUSTRIAL DIAMONDS LTD.





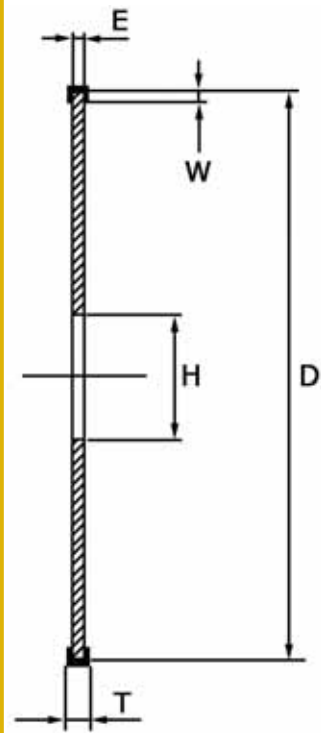
# SW- Sawing Wheels

## Description & Use:

*STRAUSS & CO.'S* Circular Saws are employed in sawing materials such as tungsten carbide, hardened steels, fiberglass, ceramics, epoxy and re-inforced plastics. Also widely used for marble cutting.



Cat. No.	Diameter (Size D)	Available sizes for thickness (Size E)				Available sizes for hole (Size H)					
SW030	30	0.30	0.50	1.00		6					
SW1	40	0.30	0.50	1.00		6 8					
SW 2	50	0.30	0.50	1.00		6 8 10 1/2"					
SW 3	60	0.30	0.50	0.75	1.00	8 10 1/2"					
SW 4	65	0.30	0.50	0.75	1.00	10 1/2"					
SW 5	70	0.30	0.50	0.75	1.00	10 1/2"					
SW 6	75	0.30	0.50	0.75	1.00	3/8"	10	12	1/2"	16	20
SW 7	80	0.30	0.50	0.75	1.00	3/8"	10	12	1/2"	16	20
SW 8	100	0.30	0.50	0.75	1.00	12	16	20	22.2	1"	1 1/4"
SW 9	115	0.30	0.50	0.75	1.00	12	16	20	22.2	1"	1 1/4"
SW 10	125	0.30	0.50	0.75	1.00	1/2"	20	22.2	1"	1 1/4"	32
SW 11	150	0.30	0.50	0.75	1.00	20	22	22.2	1"	1 1/4"	32
SW 12	160	0.50	0.75	1.00		20	22	22.2	1"	1 1/4"	32
SW 13	180	0.50	0.75	1.00		20	22	22.2	1"	1 1/4"	32
SW 14	200	0.50	0.75	1.00		20	22	22.2	1"	1 1/4"	32
SW 15	230										
SW 16	240										
SW 17	250										
SW 18	300										
SW 19	350										
SW 20	400										
		Please indicate size <b>E</b> when ordering				Please indicate size <b>H</b> when ordering					



**Grit Size:**

Available in :

D or B54 (#325/400), D or B91 (#170/200), D or B126 (#120/140),  
D or B181 (#80/100), D or B252 (#60/80), D or B427 (#40/50).

**Remarks:**

Other sizes and grit sizes are available. Please refer to the drawing while asking for a quotation.

*STRAUSS & CO.* 'S production capacity for sawing wheels is up to Ø1000mm.

Slotted sawing wheels are available upon request.

**All sawing wheels are available with side pads. Standard size of a pad is 15mm. 3 pads on each side of the saw. Adding side pads is highly recommended while cutting in depth or while cutting fiberglass and re-inforced plastic.**

For calculating the cutting width (size T) please add the following size (per grit) to the blank thickness (size E).

**For D or B54 please add 0.2mm**

**For D or B91 please add 0.3mm**

**For D or B126 please add 0.4mm**

**For D or B181 please add 0.5mm**

**For D or B252 please add 0.7mm**

**For D or B427 please add 1.0mm**

Standard size for "W" is 2.0mm. Other sizes are available upon request.

**Tolerance:**

D= ±2.0mm, E= ±0.15mm, H= h7.



## JS - Jig Saw

### Description & Use:

*STRAUSS & CO.'S Jig Saw* blade is used in a standard handcutting machine.

The main application of the jig saw blade is for cutting fiberglass and other hard plastic materials.

### Size:

Blade dimension:

*Cat. No. JS100* - Total length 100mm. Diamond coated length 70mm. Width 8.0mm. Thickness 1.2mm.

*Cat. No. JS120* - Total length 120mm. Diamond coated length 95mm. Width 8.0mm. Thickness 1.2mm.



### Grit Size:

Available in all grit sizes upon request.

### Remarks:

When used in fiberglass applications, diamond grit size D427 (#40/50) is recommended.

For ordering please add to Cat. No. grit size.

## DW - Diamond Wire

### Description & Use:

*STRAUSS & CO.'S Diamond Wire* can be easily applied to a hand bow saw. Mainly used in the glass and jewellery industry (for cutting gold and other precious metals).

### Size:

Available in different measurements.

When ordering please indicate the following sizes: D1, D2, L1, L.



### Grit Size:

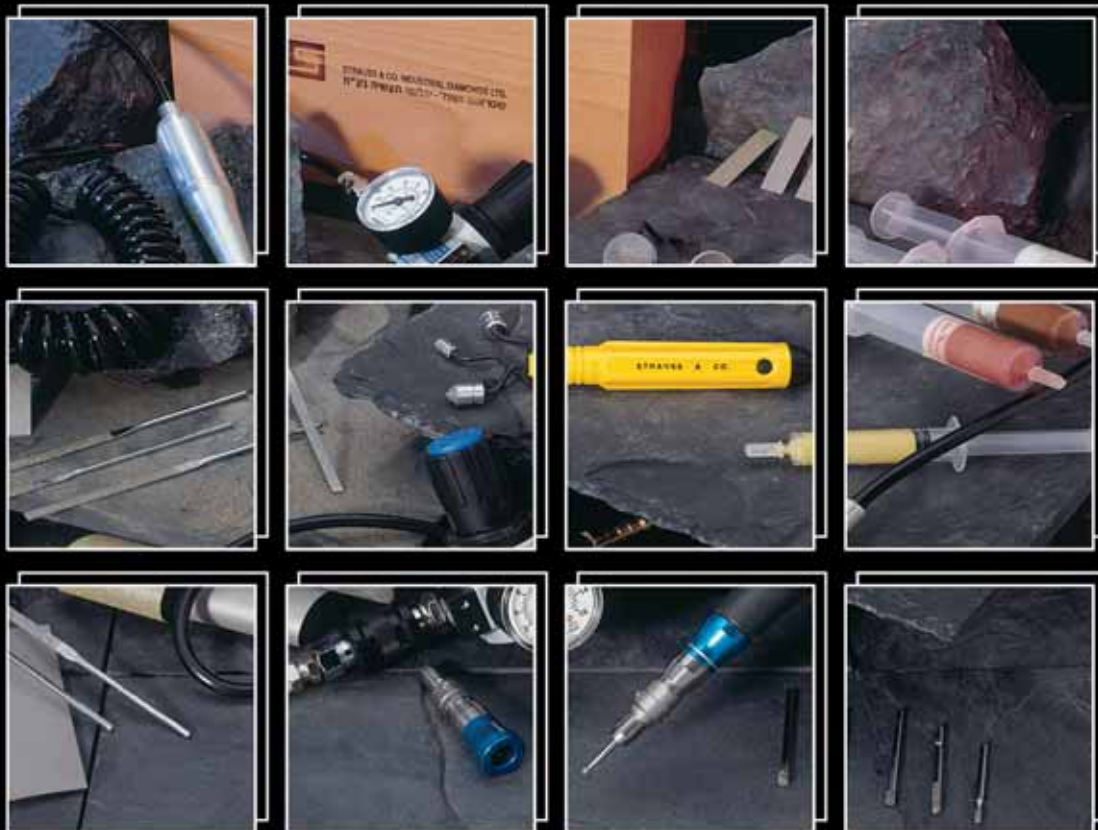
Available in all grit sizes upon request.





# Diamond Tools For Surface Finishing

**STRAUSS & CO.**  
INDUSTRIAL DIAMONDS LTD.



## AM24K- Pneumatic Rotary Polishing Machine



### Description & Use:

STRAUSS & CO.'S AM24K is light weight and balanced like a pen. In operation it minimizes operator's discomfort and eliminates arm and hand fatigue.

### Technical Data:

Speed: Up to 24,000 r.p.m.

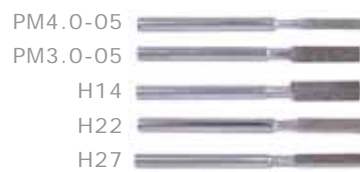
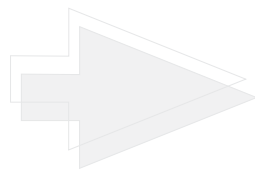
Air connection: Quick coupling (1/8" NPT)

Air pressure: 3.5 bar (50 PSI), at 1.4 c.f.m.

Length: 113mm.

Weight: 90 gr.

### The Machine Includes:



- The machine is delivered in a contoured wooden box.
- A long springy expansion air hose.
- A pneumatic pressure gauge combined with reduction valve.
- 5 assorted diamond plated grinding pins.
- 2 tool holders: 2.34mm. diameter and 3.00m. diameter.

### Warranty:

In normal use, according to the instructions:

For the turbine engine - 6 months. For other parts - 12 months.

### Remarks:

All our range of HP grinding pins (29 profiles, please refer to page 48), fit the machine.

All our range of PM grinding pins, with Ø3.0mm. shank (43 profiles, please refer to page 34), fit the machine with a 3.0mm. tool holder.

## PJ120K- Pneumatic Jig Filing Machine



AM24K & PJ120K

### Description & Use:

*STRAUSS & CO.'S Jig Filing* machine for the die & mold industry- 120,000 strokes per minute, vibration free & handy as a pen. To be employed in the plastic form industry with diamond plated files or for polishing with diamond paste. Also used in the jewellery and glass engraving industries.

### Technical Data:

Cycles: 120,000 strokes per minute  
 Length of stroke: 0.2mm.  
 Air connection: Quick coupling (1/8" NPT)  
 Air pressure: 4 bar (60 PSI), at 25 lit/min.  
 Bit holder: 3.0mm, or 1/8"  
 Length: 143mm. Weight: 138 gr.

### The Machine Includes:



- The machine is delivered in a contoured wooden box.
- A pneumatic pressure gauge combined with reduction valve.
- A long springy air hose.
- 5 assorted diamond plated files.

### Warranty:

In normal use, according to the instructions:  
 For the turbine engine - 6 months. For other parts - 12 months.

### Remarks:

All our range of files for reciprocating filing machines, pages 13-16, fit the machine.















## Diamond Compounds

### Description & Use:

*STRAUSS & CO's* high quality **Diamond Compounds** are precisely graded with tight tolerances to assure accurate polishing results. Each supplied in 5 or 10 gram syringes for ease of application. Strauss also offers a choice of diamond concentration: heavy, standard or medium. All compounds are available with oil soluble or water soluble. Widely used for polishing metals, especially in the plastic mold industry.



General Recommendations	Cat. No.	Micron Range	Mesh Equivalent	Color
Precision Finishing	STP 1	0-1/4	200,000	
	STP 3	0-2	14,000	
Finishing	STP 8	2-4	8,000	
	STP 11	4-8	3,000	
	STP 13	6-12	1,800	
Preparatory Finishing	STP 15	10-20	1,200	
	STP 19	20-40	600	
	STP 21	36-54	500	
Stock Removal	STP 23	54-80	325/400	
	STP 24	80-100	270/325	

### Ordering Information:

OS- Oil Soluble

WS- Water Soluble

Concentrations: Medium, Standard, Heavy.

### Remarks:

Compound is available in 5 or 10 gram syringes or jars.

**Polycrystal compounds available upon request.**



## S- Diamond Strip

### Description & Use:

STRAUSS & CO.'s **Diamond Strip** is a very thin foil plated with 100% diamond concentration in different grit sizes.

The high flexibility of the strip, enables a wide range of applications.

It can be cut with ordinary scissors to any desired shape and attached to a smooth surface with self adhesive back.

The strip is widely used in the die and mold industry for polishing and fine finish jobs.

The use of the strip, is limited only by the user's imagination.



Cat. No.	Size mm
S1	50 x 100
S2	25 x 100
S3	12.5 x 50

### Grit Size:

Available in all grit sizes.



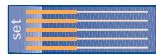
# Countersink

## Description & Use:

*STRAUSS & CO's* Countersink is ideal for deburring and chamfering holes in materials such as glass, tungsten carbide, Hss, fiberglass and epoxy, re-inforced plastic and other hard metals (45hrc and harder).

The COU25 plated with D252 is specially made and widely used for holes on ceramic surfaces.

Range: 3.2mm. - 25.4mm.



NB4001ST, COU6D126, COU10D126, COU10D252, COU3.2D126.



Cat. No. COU10



*STRAUSS & CO's* fixed diamond coated countersink  $\varnothing 10.4\text{mm}$  is ideal for deburring and chamfering holes in materials such as glass, tungsten carbide, hss and other hard metals. Can also be used for deburring and chamfering material such as re-inforced plastic, fiberglass and epoxy (D252). Standard grit sizes: D126 (#120/140), D252 (#60/80). Other grit sizes are available upon request.

Cat. No. COU6



*STRAUSS & CO's* fixed diamond coated countersink  $\varnothing 6.3\text{mm}$  is ideal for deburring and chamfering holes in materials such as glass, tungsten carbide, hss and other hard metals. Standard grit size: D126 (#120/140). Other grit sizes are available upon request.

Cat. No. COU3.2



*STRAUSS & CO's* fixed diamond coated countersink  $\varnothing 3.2\text{mm}$  is ideal for horizontal filing jobs. Coated length 15.0mm. Standard grit size: D126 (#120/140). Other grit sizes are available upon request.

Cat. No. COU25



*STRAUSS & CO's* fixed diamond coated countersink  $\varnothing 25.0\text{mm}$  is ideal for deburring and chamfering holes in materials such as glass, re-inforced plastic, fiberglass and epoxy. Standard grit size: D252 (#60/80). Other grit sizes are available upon request.

Cat. No. COUEX



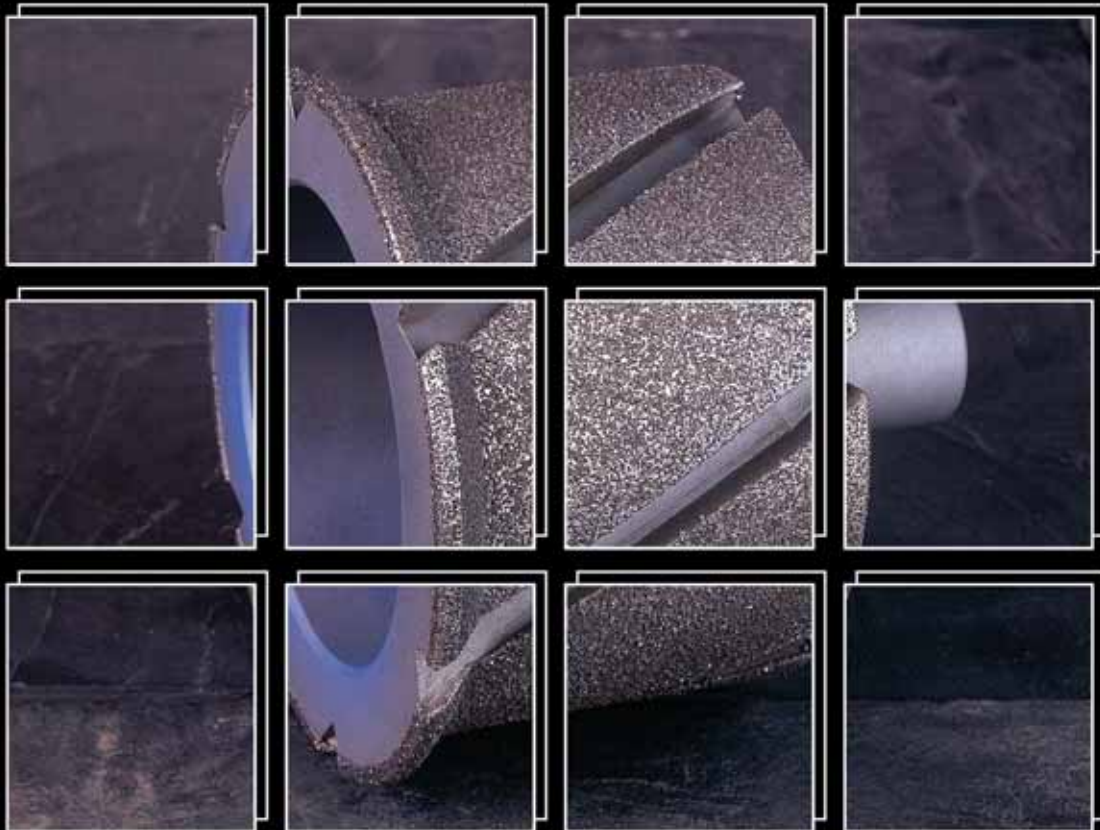
*STRAUSS & CO's* EX. diamond coated roto-drive  $\varnothing 25\text{mm}$  is for external chamfering on re-inforced plastic, fiberglass and epoxy. Standard grit size: D252 (#60/80). Other grit sizes are available upon request.



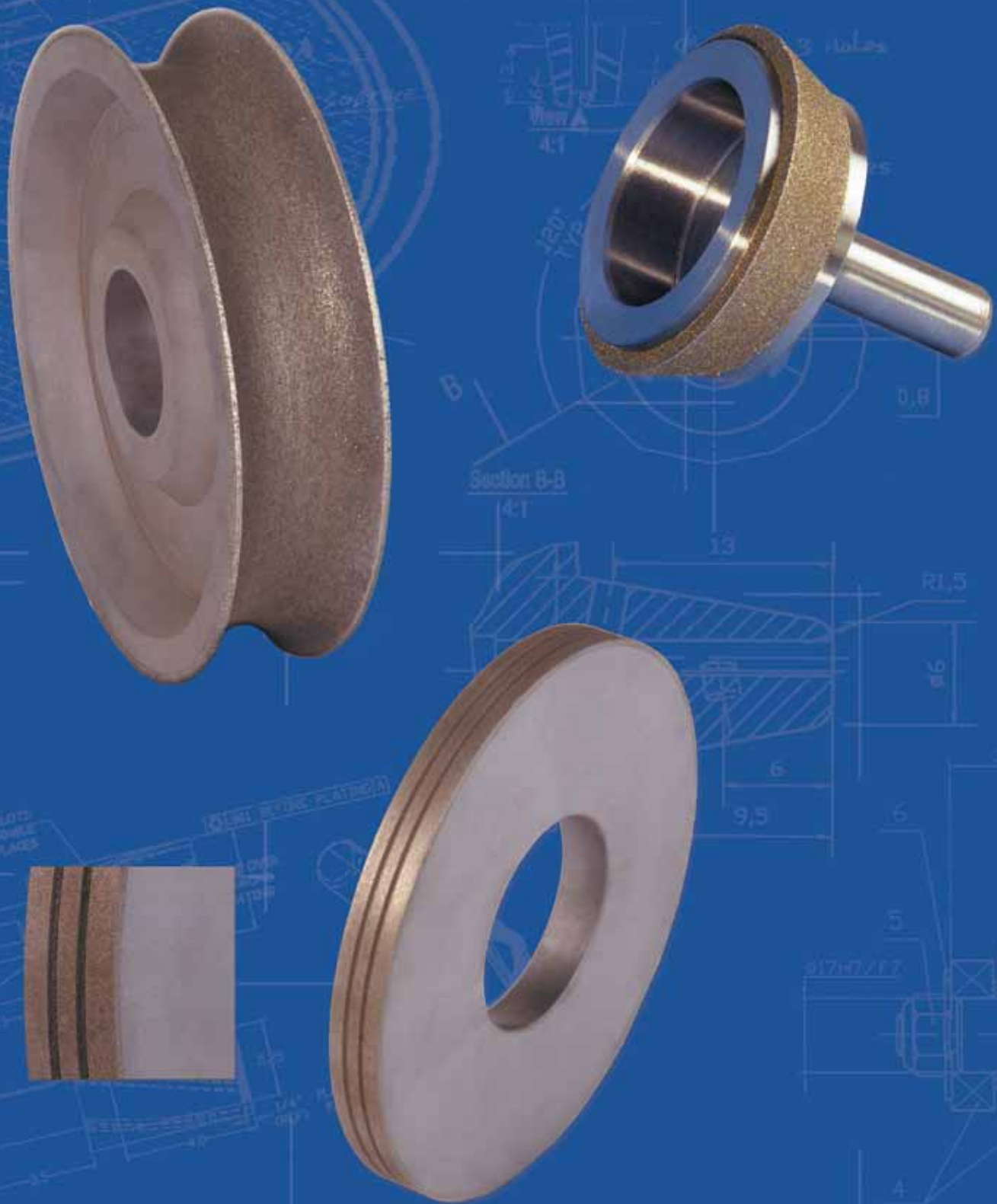


Custom Made Tools & Technical Information

**STRAUSS & CO.**  
INDUSTRIAL DIAMONDS LTD.

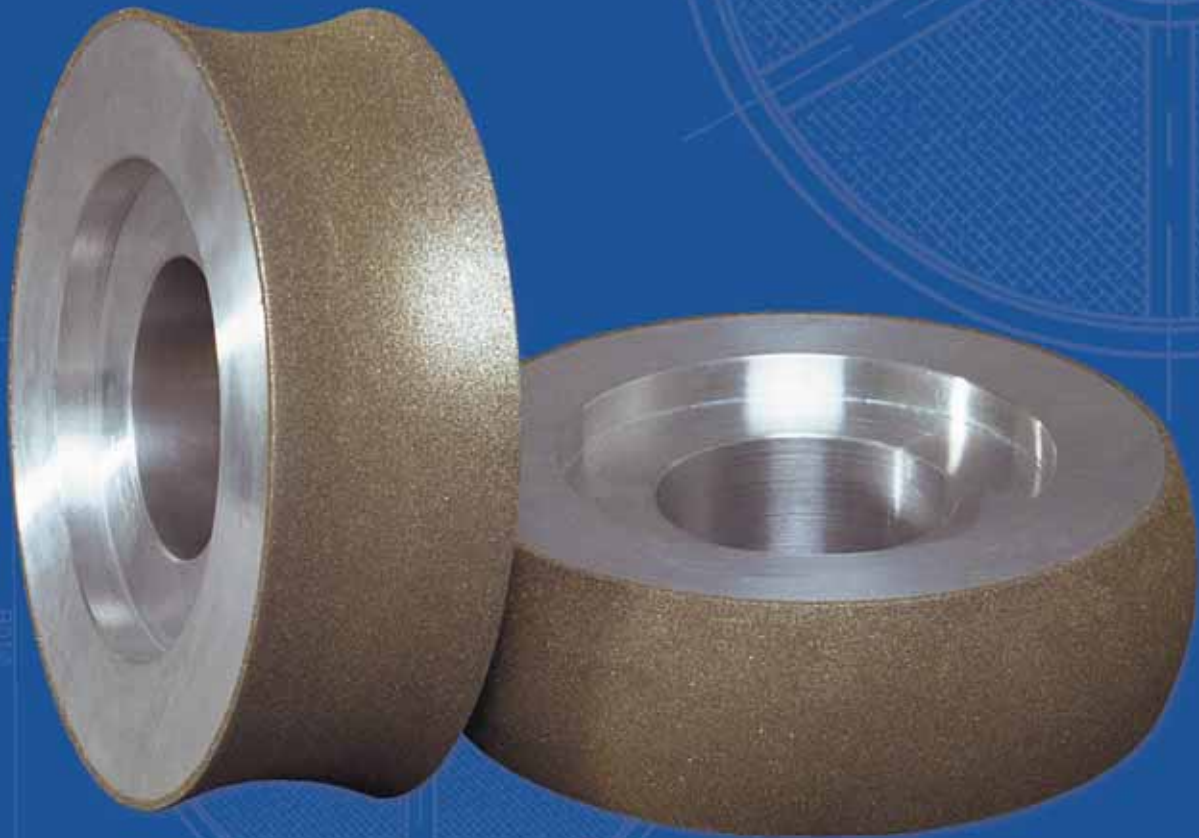


"Strauss & Co." manufactures high quality electroplated diamond & CBN tools. Since 1970 the company has been active in the manufacture and distribution of diamond & CBN tools. Our technical team welcomes any request , idea or concept of special tools for any application. Strauss & Co.'s production capacity is up to Ø1000mm. Our goal is to serve our customer with the highest quality tools and as *"The composer of tools"* we trust you will enjoy our performance.



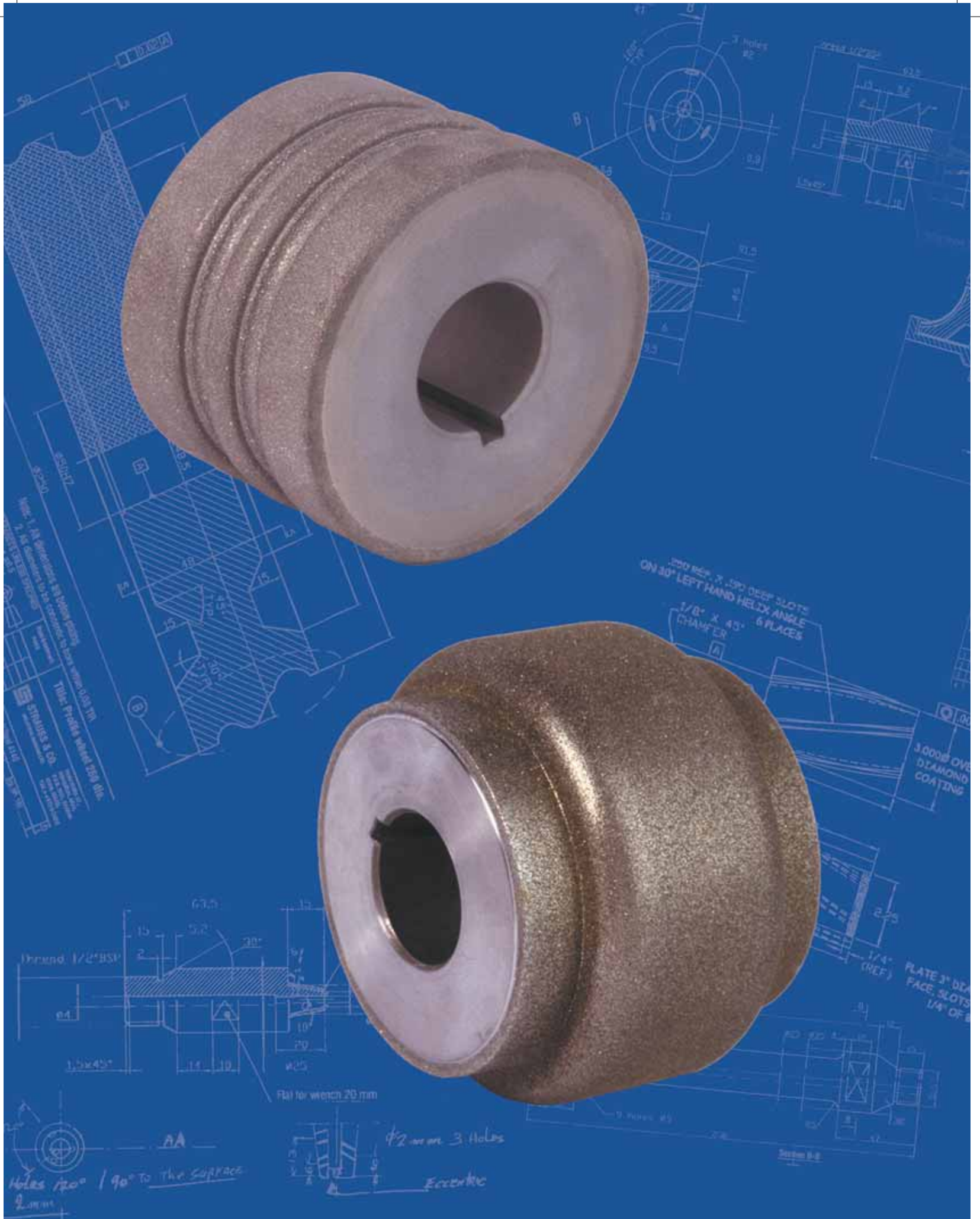
*Strauss & Co.*



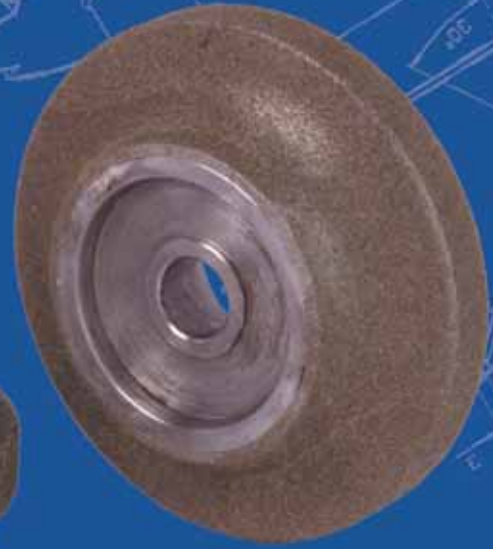
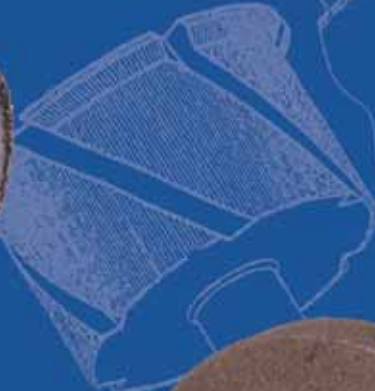


*The composer of tools*

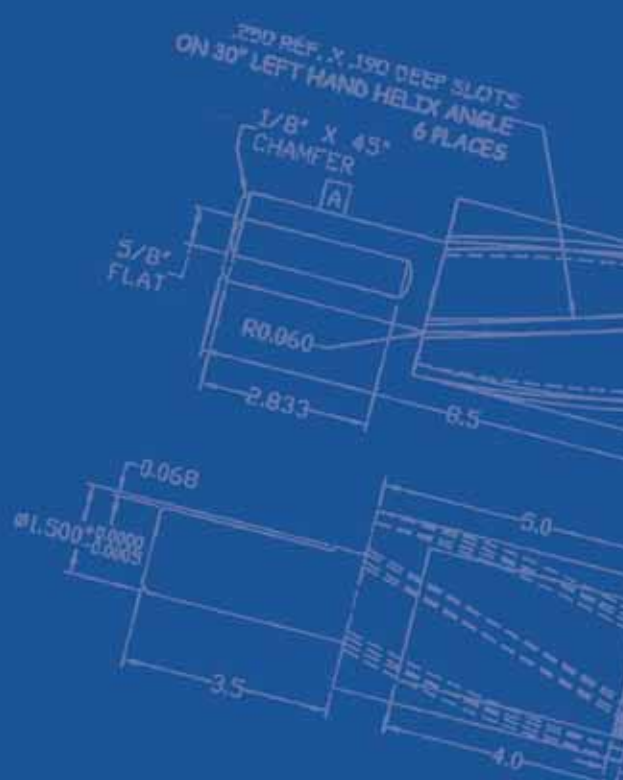








TOLERANCE-RANGE DIMENSIONS		Title: Form wheel Inox R15 (assembled)	
Form	248	Material	SAF1200
W	181	Part Number	
H	140	Material	SAF1200
Depth	40.00	Material	SAF1200
W	181	Material	SAF1200
H	140	Material	SAF1200
Depth	40.00	Material	SAF1200



*The composer of tools*



## General Information

Diamond is a pure carbon in a cubic structure. It is the hardest of all known materials. Many applications benefit by the use of diamond tools in industry for grinding, turning, sawing, lapping, wear resistance, etc. As it enables faster operating, extended tool's life and allows very accurate tolerances of shape and size. Use in industry are either "natural" diamond extracted from the ground, crushed and shaped to suit a particular requirement, or "synthetic" man made diamond specially for specific application. Diamond is made and graded according to its size, shape, and friability.

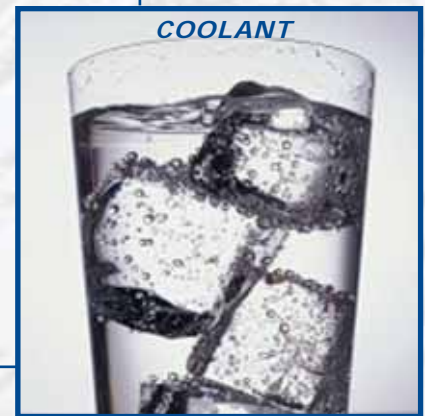
## Diamond Applications

### Water Based Soluble

Diamond is used for cutting or grinding hard, brittle and abrasive materials, but it is not suitable for grinding high carbon-steel. This is because iron has an affinity for carbon (which is what diamond is) at a high temperature.

\*Diamond tools are used for grinding hard or very abrasive materials, such as:

- ▶ Tungsten carbide
- ▶ Stone and marble
- ▶ Composite materials
- ▶ Industrial ceramics
- ▶ Re-inforced plastics
- ▶ Fiberglass
- ▶ Ferrite
- ▶ Non-ferrous metals
- ▶ Rubber
- ▶ Glass



## CBN Applications

### Oil Based Soluble

Cubic boron nitride (CBN) is man made. It is a chemical bond of the elements boron and nitrogen with cubic lattice structure made in a high temperature / pressure process. It is available in different grades and sizes and is particularly designed for grinding hardened steels. CBN is second only to diamond in its hardness.

\*CBN is used for grinding high carbon steels (over 0.7%), such as:

- ▶ High-speed steel
- ▶ Tool steel
- ▶ Die steel
- ▶ Cobalt or nickel based hard high-temperature materials
- ▶ Stainless steel
- ▶ Ball bearing steel
- ▶ Nickel super alloys

## Electro Plated Diamond Tools:

Electro plating is a method of bonding diamond/CBN particles to a steel blank, using Nickel as bonding material. Electro plated tools can not be dressed. The layer of Nickel and Diamond/CBN, follows exactly the given shape of the blank. Therefore, Electro plated tools are the best choice for profile grinding. Electro plated tools can be re-plated, after succeeding the first use, the tool can be striped off and re-plated, thus, efficient & economic re-platable process can be achieved.



### Vacuum Brazing:

- ▶ New method for manufacturing diamond and CBN tools.
- ▶ Manufacturing inside vacuum oven at a high temperature.
- ▶ The tool visually looks similar to e.p. tools.
- ▶ One layer plating on a metal blank.
- ▶ The method allows to control the density of the grits and to prevent clogging of the tool.
- ▶ Possibility to reach very homogeneous thickness of layer and to keep the correct profiles.
- ▶ Vacuum brazed tools are exceptionally aggressive as the tight bond allows a very exposed grit.

### Diamond Grits

**FEPA** - number indicates the approximate size of the particle in 0.001mm i.e. D15, D126 etc.  
The higher the number is, the bigger the grain size is.

**U.S. Mesh** - number indicates the number of holes on a 1"X1" mesh.  
mesh size is composed of 2 numbers.

The lower indicates the first net that the particle can go through, the higher indicates the second net where the particle can not go through.

### Grit Size - comparison table :

FEPA Standard D or B		U.S. Standard Mesh		Grit size (Micron)
D/B 1181	D/B 1182	16/18	16/20	1180-1000
D/B 1001		18/20		1000-850
D/B 851	D/B 852	20/25	20/30	850-710
D/B 711		25/30		710-600
D/B 601	D/B 602	30/35	30/40	600-500
D/B 501		35/40		500-425
D/B 426	D/B 427	40/45	40/50	425-355
D/B 356		45/50		355-300
D/B 301	D/B 252	50/60	60/80	300-250
D/B 251		60/70		250-212
D/B 213	D/B 213	70/80	80/100	212-180
D/B 181		80/100		180-150
D/B 151	D/B 151	100/120	120/140	150-125
D/B 126		120/140		125-106
D/B 107	D/B 107	140/170	170/200	106-90
D/B 91		170/200		90-75
D/B 76	D/B 76	200/230	230/270	75-63
D/B 64		230/270		63-53
D/B 54	D/B 54	270/325	325/400	53-45
D/B 46		325/400		45-38
D/B 30	D/B 30	500/600	1200	20-40
D/B 15		1200		9-18

**Coarse**

**Fine**



### Cutting/Grinding Speed:

As far as possible, the cutting speed should be between 25 and 35 m/sec, and it is vital to ensure that the tools do not vibrate. However, the critical point at which vibrations may occur depends on the strength of the shank, the tool holder and on the projecting length of the tool. This length should, therefore, be as short as possible. In case of doubt it is advisable to start with low speed and to increase the speed gradually. See operating instructions of the machine manufacturer.

### Required revolutions per minute (rpm) to obtain the following surface speeds.

∅ mm	8m/sec.	12m/sec.	16m/sec.	18m/sec	20m/sec	22m/sec.	26m/sec	30m/sec	50m/sec
5	32000								
10	15500	23500							
15	10000	15400	20800	23500	26200				
25	6200	9200	12200	13700	15200	16700	19700	22700	
50	3050	4550	6050	6800	7550	8300	9800	11300	19500
75	2050	3050	4050	4550	5050	5550	6550	7550	13000
100	1510	2310	3110	3510	3910	4310	5110	5910	9800
125	1220	1820	2420	2720	3020	3320	3920	4520	7800
150	1020	1420	1820	2020	2220	2420	2820	3220	6600
200	760	1140	1520	1710	1900	2090	2470	2850	4800
250	610	910	1210	1360	1510	1660	1960	2260	3950
300	500	760	1020	1150	1280	1410	1670	1930	3300
350	440	655	870	980	1090	1200	1400	1640	2800
400	380	570	760	860	960	1050	1240	1450	2500
450	340	510	680	760	850	930	1100	1270	2200
500	305	460	610	690	765	840	1000	1145	2000



	Wet	Dry
Diamond	20-50 m/sec.	20-30 m/sec.
CBN	30-60 m/sec.	20-40 m/sec.

### Feeding Speed

The longitudinal feed of the grinding points or wheels should not be more than 2/3 of the coated width per planet-wheel revolution or workpiece revolution.

The depth wise infeed for each up and down stroke should be 0.005 to 0.01 mm.





**Thickness Of Layer For Electro Plated Tools:**

When designing a Diamond or a CBN tool please note that the following thickness is added to the blank:

Grit Size	Thickness Layer* (mm)
D/B15	0.005-0.010
D/B 30	0.030-0.050
D/B 46	0.075
D/B 54	0.090
D/B 76	0.100
D/B 91	0.125
D/B 107	0.140
D/B 126	0.150
D/B 151	0.175
D/B 181	0.200
D/B 252	0.300
D/B 427	0.500
D/B 602	0.750

\* Please note that sizes in this table may vary according to tool's shape and specifications.

**Comparative Hardness Chart Of Rockwell - Vickers - Brinell :**

Rockwell C	Vickers	Brinell	Rockwell C	Vickers	Brinell
65	852	726	42	407	391
64	821	709	41	396	382
63	793	690	40	384	372
62	765	670	39	375	365
61	736	651	38	364	356
60	710	637	37	355	349
59	685	616	36	346	341
58	663	599	35	337	334
57	642	581	34	328	326
56	621	564	33	321	320
55	600	546	32	315	314
54	581	534	31	307	307
53	562	519	30	300	300
52	544	505	29	293	293
51	527	490	28	286	286
50	512	479	27	279	279
49	496	467	26	272	272
48	483	455	25	265	265
47	468	440	24	259	259
46	454	429	23	253	253
45	442	420	22	247	247
44	430	410	21	241	241
43	418	400	20	235	235