ORNEX
INC

PRODUCT CATALOGUE

Global sourcing. Reliable solutions.

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ORNEX INC

PRECISION
PERFORMANCE
DURABILITY

PRODUCT COLLECTIONS

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ORNEX INC

DIAMOND TOOLS

PRECISION | PERFORMANCE | DURABILITY

CNC SPARE PARTS

STONE PROCESSING MACHINERY COMPONENT COLLECTION



SPINDLE SYSTEMS



LINEAR MOTION



CNC CONTROL

AN ORNEX INDUSTRIAL COMPONENT COLLECTION

04 PRODUCT FAMILIES | **36** COMPONENT REFERENCES

SPINDLES / MOTION / CNC CONTROLS / ELECTRICAL

01 / CNC SPARE PARTS

Spindles / Cooling / Machine Care

01



6.5 kW Water-Cooled Spindle

02



7.5 kW Water-Cooled Spindle

03



Air-Cooled Spindle

04



Spindle Clamp

01 / CNC SPARE PARTS

Spindles / Cooling / Machine Care

05



Industrial Chiller

06



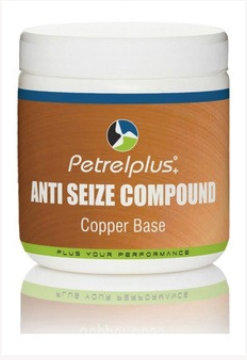
Double Dust Extractor

07



Automatic Oil Pump

08



Copper Grease

02 / CNC SPARE PARTS

Linear Motion / Transmission / Drive Hardware

01



Ball Screw Set

02



LM Guides & Blocks (Set A)

03



LM Guides & Blocks (Set B)

04



Rack & Pinion Set

Linear Motion / Transmission / Drive Hardware

05



Planetary Gearbox

06



Pulleys & Belts

07



Belt & Pulley Gearbox

08



Bearings

02 / CNC SPARE PARTS

Linear Motion / Transmission / Drive Hardware

09



Couplings

10



Bellows Covers

11



Cable Drag Chain

12



CNC Servo Motor

CNC Controllers / Drive Systems / Motors

01



NK105 G2 Controller

02



RichAuto A11 Controller

03



NK105 G3 Controller

04



VFD Drive

CNC Controllers / Drive Systems / Motors

05



Easy Servo Drive & Motor Set

06



750W Servo Drive & Motor Set

07



Stepper Drive & Motor Set

08



220V to 70V Transformer

04 / CNC SPARE PARTS

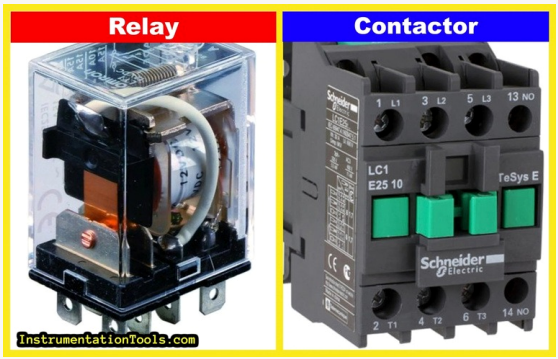
Power / Sensors / Connectors / Protection

01



24V DC SMPS

02



Contactor & Relay

03



Round Proximity Sensor

04



Industrial Sensor

04 / CNC SPARE PARTS

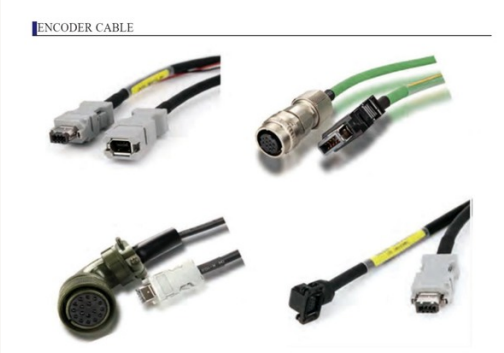
Power / Sensors / Connectors / Protection

05



PU Connector Fittings

06



Servo Cables & Connector Set A

07



Servo Cables & Connector Set B

08



Anti-Rust Spray

STONE TOOLS

DIAMOND TOOL COLLECTION

SINTERED / VACUUM BRAZED / MULTI-LAYER

F SERIES
SINTERED



FP / FQ / FZ

FLAT | BALL | CONICAL

C SERIES
VACUUM BRAZED



CP / CQ / CZ

FLAT | BALL | CONICAL

D SERIES
MULTI-LAYER



DP / DSZ

FLAT | CONICAL

SGM
ANGLE



SGM

ANGLE

04 TOOL FAMILIES

09 PROFILE SERIES

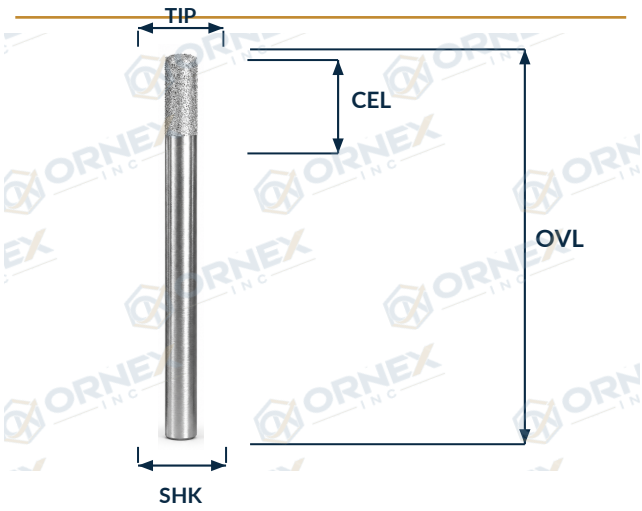
STONE PROCESSING / CNC ROUTING / DIAMOND TOOLS

FP - FLAT

SINTERED DIAMOND TOOLS



TECHNICAL DIMENSIONS



AVAILABLE SIZES

11 SPECIFIED ITEMS

ITEM NO.	DIA (mm)	TIP (mm)	CEL (mm)	OVL (mm)
FP3-10-65	3	3	10	65
FP4-10-65	4	4	10	65
FP6-15-70	6	6	15	70
FP6-20-90	6	6	20	90
FP8-20-90	8	8	20	90
FP8-30-120	8	8	30	120
FP10-20-90	10	10	20	90
FP10-30-150	10	10	30	150
FP12-20-90	12	12	20	90
FP12-30-150	12	12	30	150
FP16-30-150	16	16	30	150

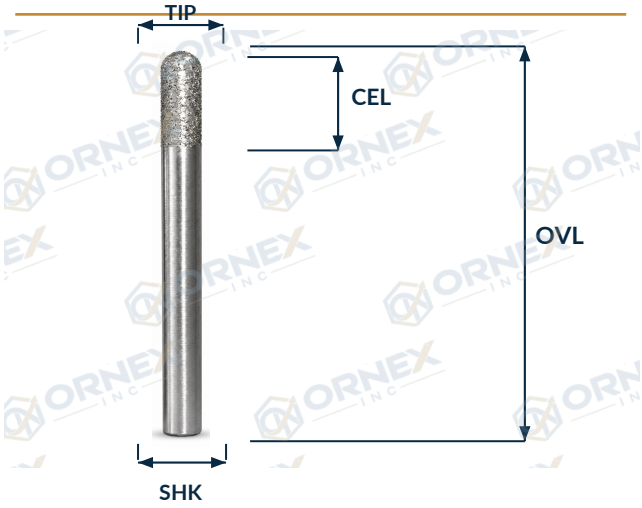
Specifications in millimetres unless indicated. Product images not to scale.

FQ - BALL

SINTERED DIAMOND TOOLS



TECHNICAL DIMENSIONS



AVAILABLE SIZES

6 SPECIFIED ITEMS

ITEM NO.	DIA (mm)	TIP (mm)	CEL (mm)	OVL (mm)
FQ3-10-65	3	3	10	65
FQ4-10-60	4	4	10	60
FQ6-20-90	6	6	20	90
FQ8-20-90	8	8	20	90
FQ10-20-90	10	10	20	90
FQ12-20-90	12	12	20	90

DIAMETER
3 - 12 mm

CUTTING LENGTH
10 - 20 mm

OVERALL LENGTH
60 - 90 mm

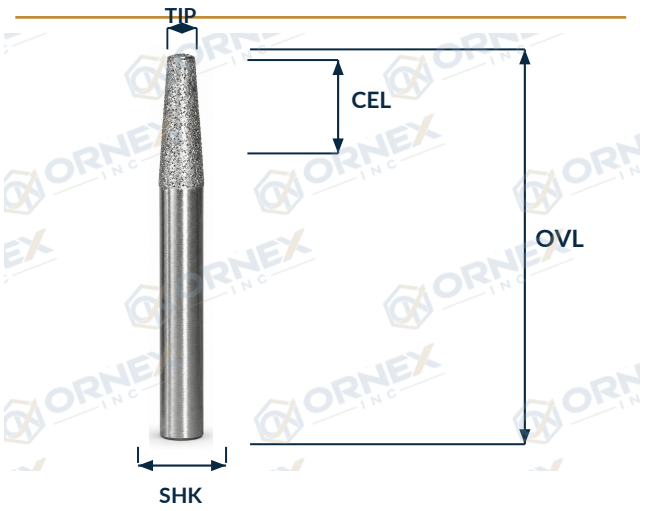
Specifications in millimetres unless indicated. Product images not to scale.

FZ - CONICAL

SINTERED DIAMOND TOOLS



TECHNICAL DIMENSIONS



AVAILABLE SIZES

6 SPECIFIED ITEMS

ITEM NO.	DIA (mm)	TIP (mm)	CEL (mm)	OVL (mm)
FZ6-1.5-15-70	6	1.5	15	70
FZ6-2.0-15-70	6	2.0	15	70
FZ6-3.0-15-70	6	3.0	15	70
FZ8-4-25-90	8	4	25	90
FZ10-6-30-90	10	6	30	90
FZ10-6-30-120	10	6	30	120

DIAMETER
6 - 10 mm

CUTTING LENGTH
15 - 30 mm

OVERALL LENGTH
70 - 120 mm

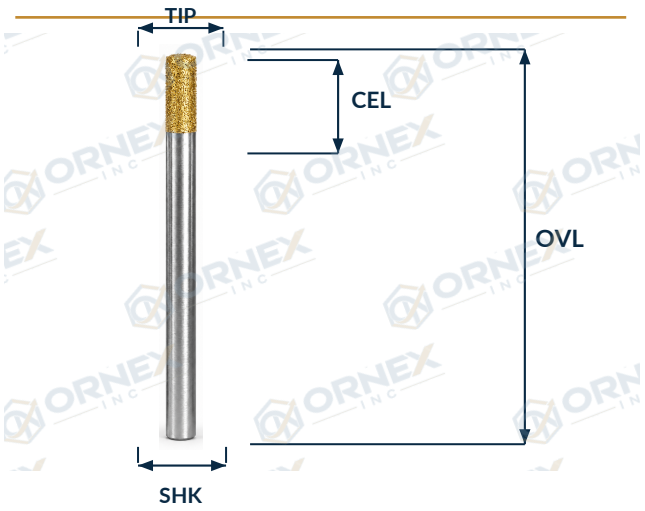
Specifications in millimetres unless indicated. Product images not to scale.

CP - FLAT

VACUUM BRAZED DIAMOND TOOLS



TECHNICAL DIMENSIONS



AVAILABLE SIZES

6 SPECIFIED ITEMS

ITEM NO.	DIA (mm)	TIP (mm)	CEL (mm)	OVL (mm)
CP3-10-60	3	3	10	60
CP4-10-60	4	4	10	60
CP6-20-90	6	6	20	90
CP8-20-90	8	8	20	90
CP10-20-90	10	10	20	90
CP12-20-90	12	12	20	90

DIAMETER
3 - 12 mm

CUTTING LENGTH
10 - 20 mm

OVERALL LENGTH
60 - 90 mm

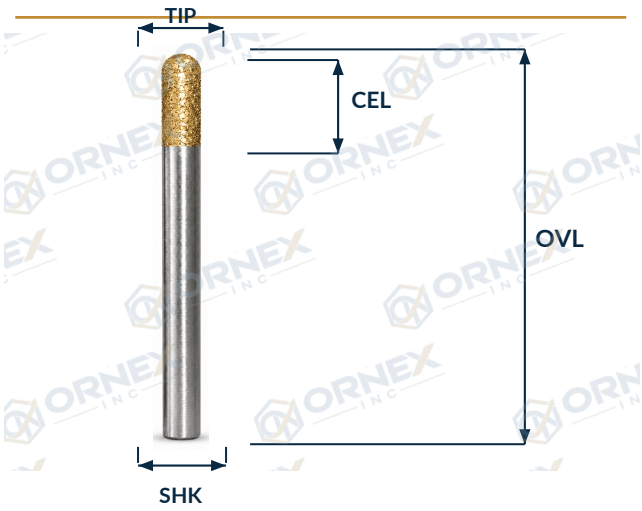
Specifications in millimetres unless indicated. Product images not to scale.

CQ - BALL

VACUUM BRAZED DIAMOND TOOLS



TECHNICAL DIMENSIONS



AVAILABLE SIZES

6 SPECIFIED ITEMS

ITEM NO.	DIA (mm)	TIP (mm)	CEL (mm)	OVL (mm)
CQ3-10-60	3	3	10	60
CQ4-10-60	4	4	10	60
CQ6-20-90	6	6	20	90
CQ8-20-90	8	8	20	90
CQ10-20-90	10	10	20	90
CQ12-20-90	12	12	20	90

DIAMETER
3 - 12 mm

CUTTING LENGTH
10 - 20 mm

OVERALL LENGTH
60 - 90 mm

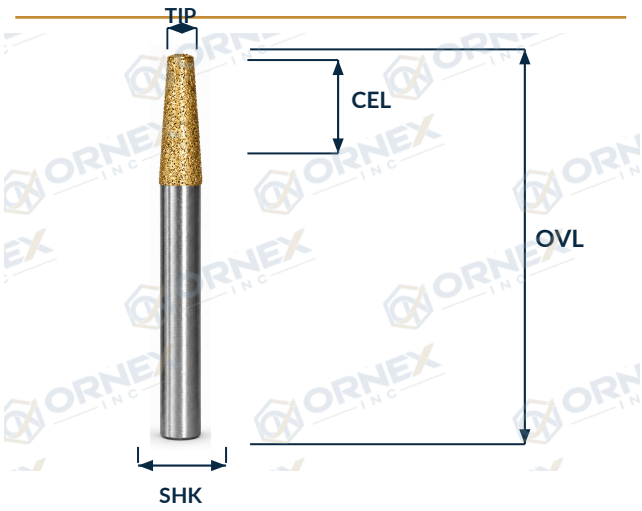
Specifications in millimetres unless indicated. Product images not to scale.

CZ - CONICAL

VACUUM BRAZED DIAMOND TOOLS



TECHNICAL DIMENSIONS



AVAILABLE SIZES

4 SPECIFIED ITEMS

ITEM NO.	DIA (mm)	TIP (mm)	CEL (mm)	OVL (mm)
CZ6-1.5-12-60	6	1.5	12	60
CZ6-3.0-12-60	6	3.0	12	60
CZ8-4-20-90	8	4	20	90
CZ10-6-30-90	10	6	30	90

DIAMETER
6 - 10 mm

CUTTING LENGTH
12 - 30 mm

OVERALL LENGTH
60 - 90 mm

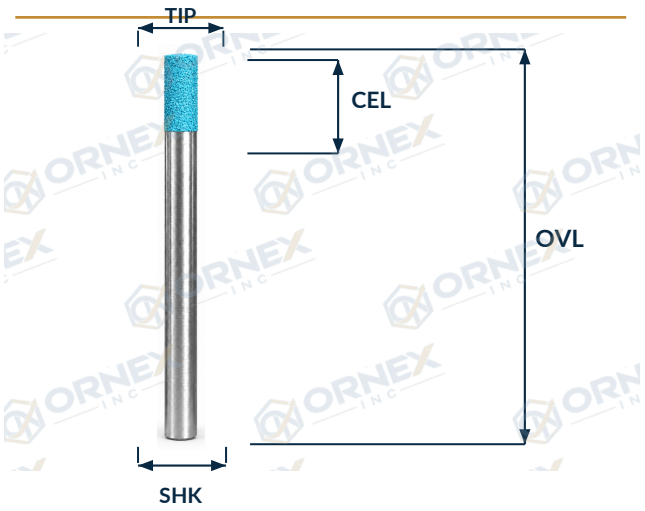
Specifications in millimetres unless indicated. Product images not to scale.

DP - FLAT

MULTI-LAYER VACUUM BRAZED DIAMOND TOOLS



TECHNICAL DIMENSIONS



AVAILABLE SIZES

5 SPECIFIED ITEMS

ITEM NO.	DIA (mm)	TIP (mm)	CEL (mm)	OVL (mm)
DP6-20-90	6	6	20	90
DP8-20-90	8	8	20	90
DP10-20-90	10	10	20	90
DP10-30-120	10	10	30	120
DP12-20-90	12	12	20	90

DIAMETER
6 - 12 mm

CUTTING LENGTH
20 - 30 mm

OVERALL LENGTH
90 - 120 mm

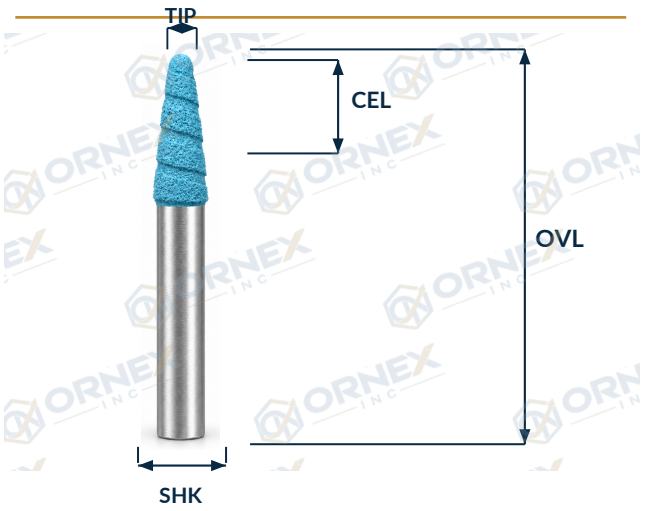
Specifications in millimetres unless indicated. Product images not to scale.

DSZ - CONICAL

MULTI-LAYER VACUUM BRAZED DIAMOND TOOLS



TECHNICAL DIMENSIONS



AVAILABLE SIZES

7 SPECIFIED ITEMS

ITEM NO.	DIA (mm)	TIP (mm)	CEL (mm)	OVL (mm)
DSZ6-3-25-90	6	3	25	90
DSZ8-4-30-90	8	4	30	90
DSZ10-6-30-90	10	6	30	90
DSZ10-6-30-120	10	6	30	120
DSZ12-6-30-90	12	6	30	90
DSZ12-6-60-120	12	6	60	120
DSZ12-6-100-160	12	6	100	160

DIAMETER
6 - 12 mm

CUTTING LENGTH
25 - 100 mm

OVERALL LENGTH
90 - 160 mm

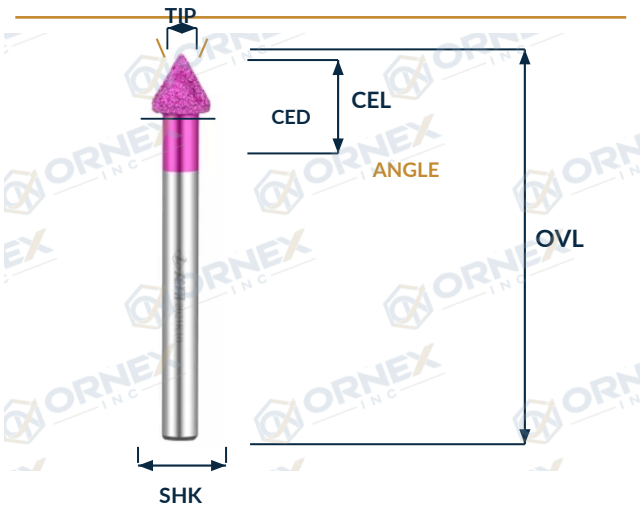
Specifications in millimetres unless indicated. Product images not to scale.

SGM - ANGLE

ANGLE DIAMOND TOOLS



TECHNICAL DIMENSIONS



AVAILABLE SIZES

4 SPECIFIED ITEMS

ITEM NO.	SHK (mm)	TIP (mm)	CED (mm)	CEL (mm)	ANGLE
SGM6.10-60	6	0.8	10	7.9	60°
SGM6.10-90	6	0.8	10	4.6	90°
SGM12.20-60	12	1.2	20	16	60°
SGM12.20-90	12	1.2	20	9.4	90°

SHANK DIAMETER
6 / 12 mm

INCLUDED ANGLES
60 / 90 deg

CUTTING LENGTH
4.6 - 16 mm

Specifications in millimetres unless indicated. Product images not to scale.