PRECISION ENGRAVING TOOLS

PRECISION V-CUTTING AND FINE LETTER ENGRAVING

CARBIDE / PCD DIAMOND TIPPED

A SERIES

CARBIDE V ENGRAVING



A1 - A7 | 7 ANGLES

REPRESENTATIVE IMAGE

E SERIES

PCD ENGRAVING



45° / 70° / 90°

REPRESENTATIVE IMAGE

02 TOOL FAMILIES | **10** REFERENCE PROFILES

STONE ENGRAVING / V-LETTERING / PRECISION DETAIL

PRECISION ENGRAVING TOOLS / CARBIDE

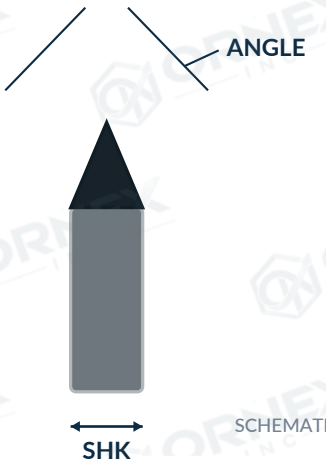
CARBIDE - V ENGRAVING

SEVEN V-CUTTING ANGLE OPTIONS



REPRESENTATIVE PRODUCT PHOTO

TECHNICAL DIMENSIONS



SCHEMATIC / NOT TO SCALE

AVAILABLE SPECIFICATIONS

07 ANGLE PROFILES

ITEM NO.	SHK (mm)	ANGLE
A1	6	30°
A2	6	45°
A3	6	60°
A4	6	75°
A5	6	90°
A6	8	120°
A7	8	90°

APPLICATIONS: BLUESTONE AND MARBLE ENGRAVING

7 ANGLE PROFILES | 6 / 8 mm SHANK OPTIONS | NO PRICES

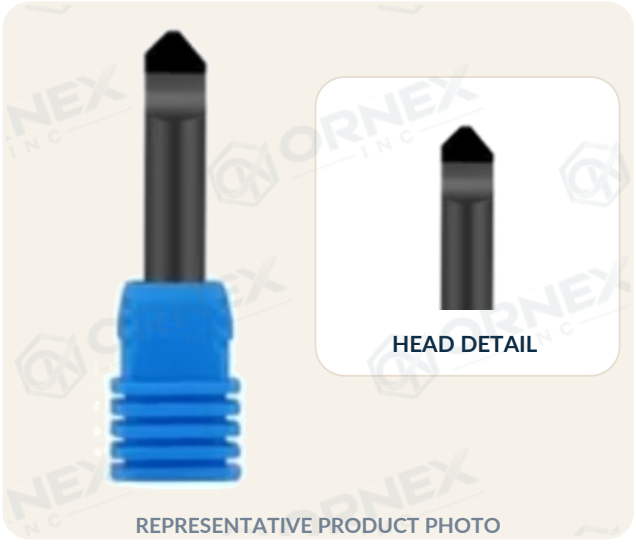
Cutting-tip diameters and overall lengths are not specified in the source.

PCD E SERIES

PCD DIAMOND ENGRAVING TOOLS

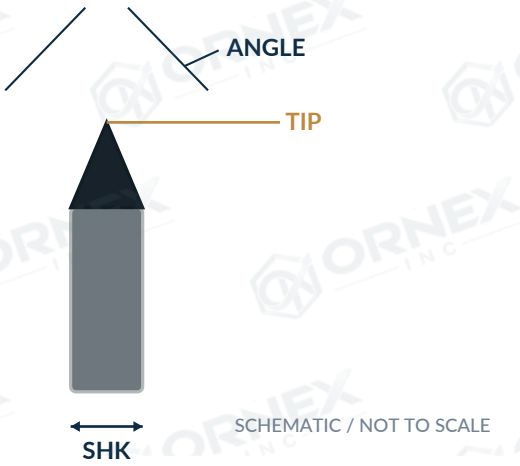
PCD - DIAMOND ENGRAVING

PCD DIAMOND TIPPED | FINE LETTER ENGRAVING



REPRESENTATIVE PRODUCT PHOTO

TECHNICAL DIMENSIONS



SCHEMATIC / NOT TO SCALE

AVAILABLE SPECIFICATIONS

03 SPECIFIED ITEMS

SOURCE CODE	SHK (mm)	ANGLE	TIP (mm)
E45-0.2	6	45°	0.2
E70-0.2	6	70°	0.2
E90-0.2	6	90°	0.2

SHANK DIAMETER
6 mm

TIP SIZE
0.2 mm

ANGLES
45 / 70 / 90°

APPLICATIONS: SMALL-LETTER ENGRAVING ON BLUESTONE AND GRANITE

Only the three E-series variants listed in the supplied 2022 catalogue.

DIAMOND TOOLS / NEW COLLECTION

CUTTING, GRINDING & POLISHING

DIAMOND WHEEL COLLECTION

Two abrasive finishes | Mounted wheel construction

GREY / GREEN



45/50 GRIT

DIAMOND WHEEL

BLUE



100/120 GRIT

DIAMOND WHEEL

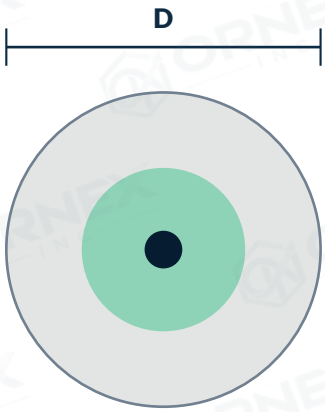
DIAMOND WHEEL - 45/50 GRIT

GREY / GREEN FINISH | 45/50 GRIT

PRODUCT PHOTO



DIAMETER REFERENCE



D = OUTER DIAMETER

ILLUSTRATION NOT TO SCALE

AVAILABLE DIAMETERS

03 SPECIFIED SIZES

DIAMETER (mm)	GRIT	FINISH
30	45/50	Grey / Green
40	45/50	Grey / Green
50	45/50	Grey / Green

DIMENSIONS IN MILLIMETRES | PHOTOGRAPHS NOT TO SCALE

Other mounting and wheel dimensions are not specified in the supplied source.

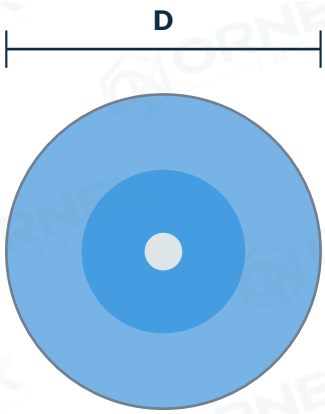
DIAMOND WHEEL - 100/120 GRIT

BLUE FINISH | 100/120 GRIT

PRODUCT PHOTO



DIAMETER REFERENCE



D = OUTER DIAMETER

ILLUSTRATION NOT TO SCALE

AVAILABLE DIAMETERS

04 SPECIFIED SIZES

DIAMETER (mm)	GRIT	FINISH
30	100/120	Blue
40	100/120	Blue
50	100/120	Blue
60	100/120	Blue

DIMENSIONS IN MILLIMETRES | PHOTOGRAPHS NOT TO SCALE

Other mounting and wheel dimensions are not specified in the supplied source.

SOLID CARBIDE ROUTING TOOLS

PRECISION CNC ROUTING & ENGRAVING SOLUTIONS

PRECISION CUTTING PROFILES | HRC 55

1 FLUTE SPIRAL	2 FLUTE SPIRAL	2 FLUTE STRAIGHT	4 FLUTE SPIRAL
			
4 SIZES | 01	12 SIZES | 02	10 SIZES | 03	5 SIZES | 04

2 FLUTE BALL	4 FLUTE BALL	2 FLUTE TAPER	CORN BIT
			
4 SIZES | 05	5 SIZES | 06	5 SIZES | 07	3 SIZES | 08

08 TOOL PROFILES

48 SIZE ENTRIES

WOOD / MDF / PARTICLE BOARD / ACP / WPC / KOREAN SOLID SURFACE

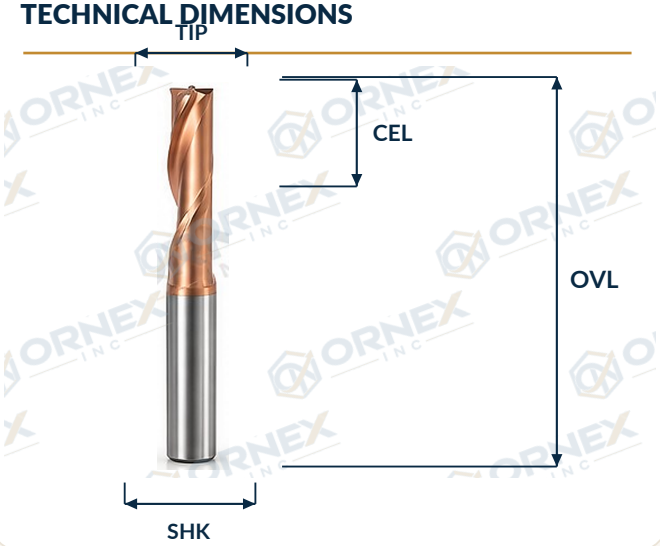
SOLID CARBIDE ROUTING TOOLS

1 FLUTE SPIRAL END MILL

HRC 55 | SINGLE FLUTE | SPIRAL CUTTING EDGE



TECHNICAL DIMENSIONS



AVAILABLE SIZES

4 SPECIFIED ENTRIES

SIZE REF.	TIP (mm)	SHK (mm)	CEL (mm)	OVL (mm)
3-17-38.5	3	3	17	38.5
4-25-50	4	4	25	50
6-25-50	6	6	25	50
8-32-60	8	8	32	60

PROFILE
1 FLUTE SPIRAL

HRC GRADE
HRC 55

CUTTER FINISH
COPPER-COATED

APPLICATIONS: WOOD / MDF / PARTICLE BOARD / ACP / WPC

KOREAN SOLID SURFACE | DIMENSIONS IN MM | IMAGES NOT TO SCALE

Size references from supplied source; ORNEX item codes pending confirmation.

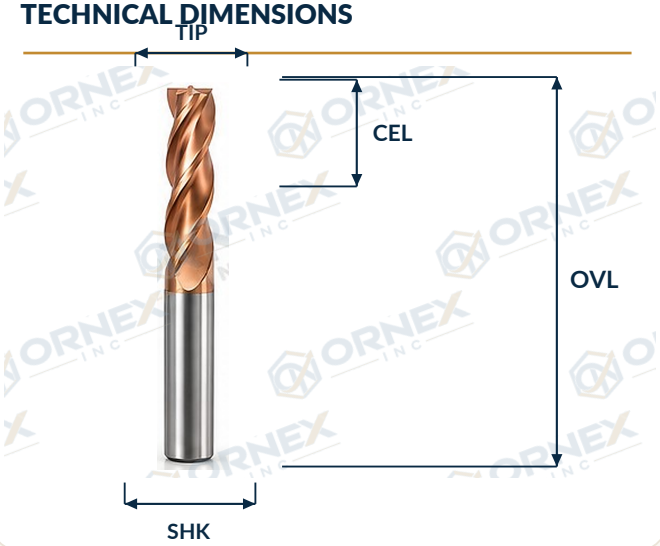
SOLID CARBIDE ROUTING TOOLS

2 FLUTE SPIRAL END MILL

HRC 55 | TWO FLUTES | SPIRAL CUTTING EDGES



TECHNICAL DIMENSIONS



AVAILABLE SIZES

12 SPECIFIED ENTRIES

SIZE REF.	TIP (mm)	SHK (mm)	CEL (mm)	OVL (mm)
1-3-4-38.5	1	3	4	38.5
2-3-8-40.0	2	3	8	40.0
3-17-38.5	3	3	17	38.5
3-6-15-50	3	6	15	50
4-25-50	4	4	25	50
4-6-15-50	4	6	15	50
5-25-50	5	5	25	50
6-25-50	6	6	25	50
8-32-60	8	8	32	60
10-42-70	10	10	42	70
10-60-100	10	10	60	100
12-60-100	12	12	60	100

APPLICATIONS: WOOD / MDF / PARTICLE BOARD / ACP / WPC

KOREAN SOLID SURFACE | DIMENSIONS IN MM | IMAGES NOT TO SCALE

Size references from supplied source; ORNEX item codes pending confirmation.

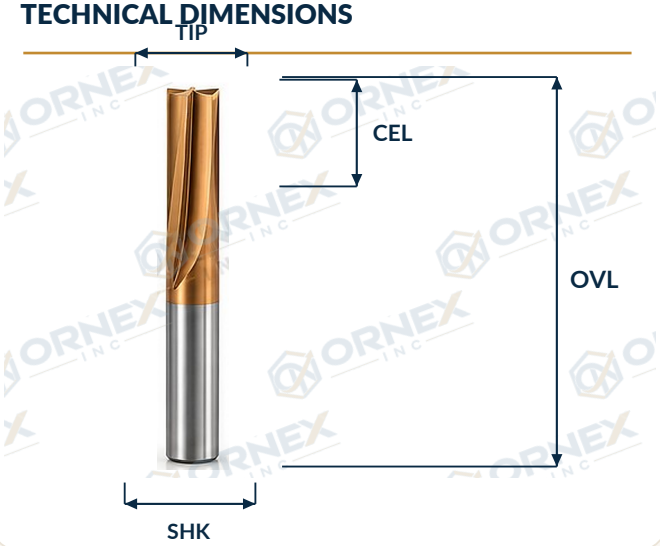
SOLID CARBIDE ROUTING TOOLS

2 FLUTE STRAIGHT END MILL

HRC 55 | TWO FLUTES | STRAIGHT CUTTING EDGES



TECHNICAL DIMENSIONS



AVAILABLE SIZES

10 SPECIFIED ENTRIES

SIZE REF.	TIP (mm)	SHK (mm)	CEL (mm)	OVL (mm)
3-17-38.5	3	3	17	38.5
3-6-15-50	3	6	15	50
4-25-50	4	4	25	50
4-6-15-50	4	6	15	50
6-25-50	6	6	25	50
6-35-70	6	6	35	70
8-32-60	8	8	32	60
10-42-70	10	10	42	70
10-60-100	10	10	60	100
12-60-100	12	12	60	100

APPLICATIONS: WOOD / MDF / PARTICLE BOARD / ACP / WPC

KOREAN SOLID SURFACE | DIMENSIONS IN MM | IMAGES NOT TO SCALE

Size references from supplied source; ORNEX item codes pending confirmation.

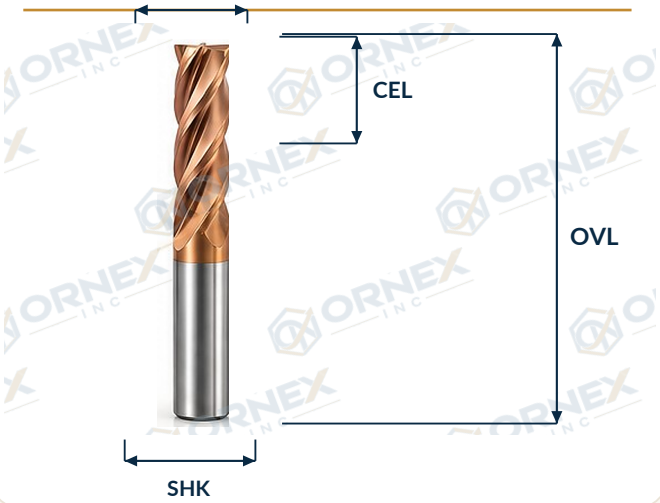
SOLID CARBIDE ROUTING TOOLS

4 FLUTE SPIRAL END MILL

HRC 55 | FOUR FLUTES | SPIRAL CUTTING EDGES



TECHNICAL DIMENSIONS



AVAILABLE SIZES

5 SPECIFIED ENTRIES

SIZE REF.	TIP (mm)	SHK (mm)	CEL (mm)	OVL (mm)
3-17-38.5	3	3	17	38.5
4-25-50	4	4	25	50
5-25-50	5	5	25	50
6-25-50	6	6	25	50
8-32-60	8	8	32	60

PROFILE
4 FLUTE SPIRAL

HRC GRADE
HRC 55

CUTTER FINISH
COPPER-COATED

APPLICATIONS: WOOD / MDF / PARTICLE BOARD / ACP / WPC

KOREAN SOLID SURFACE | DIMENSIONS IN MM | IMAGES NOT TO SCALE

Size references from supplied source; ORNEX item codes pending confirmation.

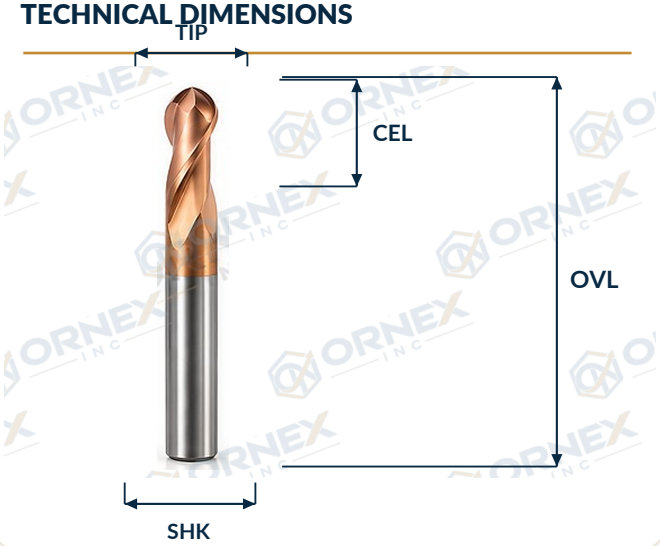
SOLID CARBIDE ROUTING TOOLS

2 FLUTE BALL NOSE

HRC 55 | TWO FLUTES | ROUNDED NOSE



TECHNICAL DIMENSIONS



AVAILABLE SIZES

4 SPECIFIED ENTRIES

SIZE REF.	TIP (mm)	SHK (mm)	CEL (mm)	OVL (mm)
3-17-38.5	3	3	17	38.5
4-25-50	4	4	25	50
6-25-50	6	6	25	50
8-32-60	8	8	32	60

PROFILE
2 FLUTE BALL

HRC GRADE
HRC 55

CUTTER FINISH
COPPER-COATED

APPLICATIONS: WOOD / MDF / PARTICLE BOARD / ACP / WPC

KOREAN SOLID SURFACE | DIMENSIONS IN MM | IMAGES NOT TO SCALE

Size references from supplied source; ORNEX item codes pending confirmation.

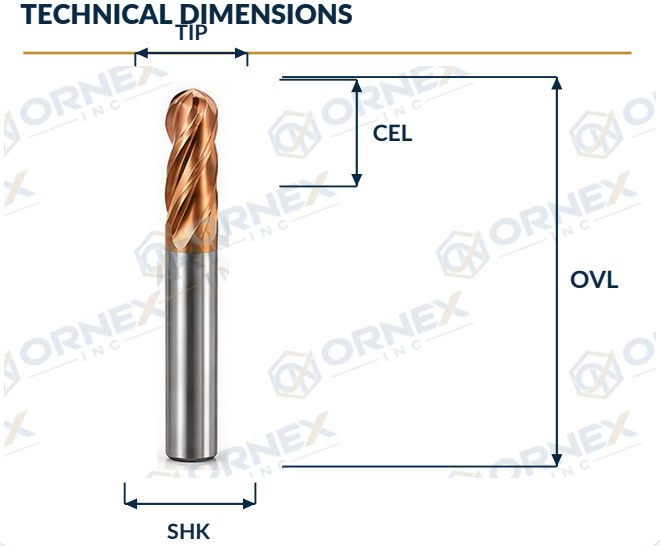
SOLID CARBIDE ROUTING TOOLS

4 FLUTE BALL NOSE

HRC 55 | FOUR FLUTES | ROUNDED NOSE



TECHNICAL DIMENSIONS



AVAILABLE SIZES

5 SPECIFIED ENTRIES

SIZE REF.	TIP (mm)	SHK (mm)	CEL (mm)	OVL (mm)
3-17-38.5	3	3	17	38.5
4-25-50	4	4	25	50
5-25-50	5	5	25	50
6-25-50	6	6	25	50
8-32-60	8	8	32	60

PROFILE
4 FLUTE BALL

HRC GRADE
HRC 55

CUTTER FINISH
COPPER-COATED

APPLICATIONS: WOOD / MDF / PARTICLE BOARD / ACP / WPC

KOREAN SOLID SURFACE | DIMENSIONS IN MM | IMAGES NOT TO SCALE

Size references from supplied source; ORNEX item codes pending confirmation.

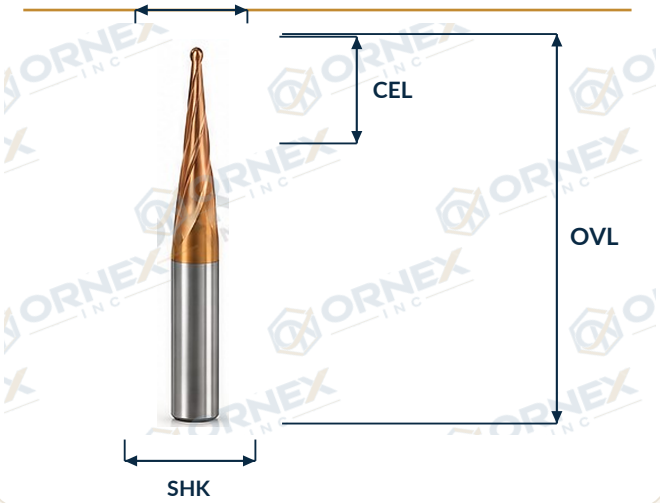
SOLID CARBIDE ROUTING TOOLS

2 FLUTE TAPER BALL NOSE

HRC 55 | TWO FLUTES | TAPERED BALL NOSE



TECHNICAL DIMENSIONS



AVAILABLE SIZES

5 SPECIFIED ENTRIES

SIZE REF.	TIP (mm)	SHK (mm)	CEL (mm)	OVL (mm)
1/2/3-6-25-50	1-3	6	25	50
4-8-25-50	4	8	25	50
4-8-50-100	4	8	50	100
6-10-50-100	6	10	50	100
8-12-50-100	8	12	50	100

PROFILE
2 FLUTE TAPER

HRC GRADE
HRC 55

CUTTER FINISH
COPPER-COATED

APPLICATIONS: WOOD / MDF / PARTICLE BOARD / ACP / WPC

KOREAN SOLID SURFACE | DIMENSIONS IN MM | IMAGES NOT TO SCALE

Size references from supplied source; ORNEX item codes pending confirmation.

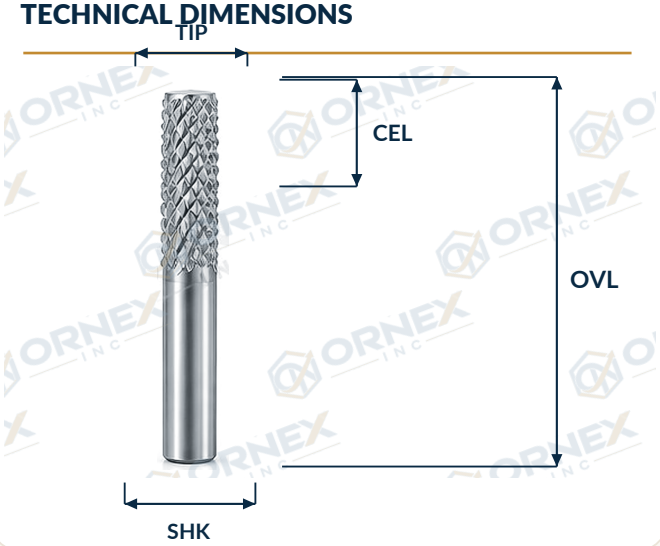
SOLID CARBIDE ROUTING TOOLS

CORN BIT

HRC 55 | TEXTURED ROTARY ROUTING CUTTER



TECHNICAL DIMENSIONS



AVAILABLE SIZES

3 SPECIFIED ENTRIES

SIZE REF.	TIP (mm)	SHK (mm)	CEL (mm)	OVL (mm)
3-17-38.5	3	3	17	38.5
4-22-45	4	4	22	45.0
6-22-50	6	6	22	50

PROFILE
CORN BIT

HRC GRADE
HRC 55

CUTTER FINISH
SILVER

APPLICATIONS: WOOD / MDF / PARTICLE BOARD / ACP / WPC

KOREAN SOLID SURFACE | DIMENSIONS IN MM | IMAGES NOT TO SCALE

Size references from supplied source; ORNEX item codes pending confirmation.

ORNEX INC

CNC ACCESSORIES

COLLETS, NUTS & SPANNERS

Precision workholding and spindle accessories

Collets / Nuts / Connectors / Spanners

ER COLLETS



REGULAR NUTS



LONG NUTS



CONNECTORS



SPANNERS



ER20 COLLETS

PRECISION SLOTTED SPRING COLLETS

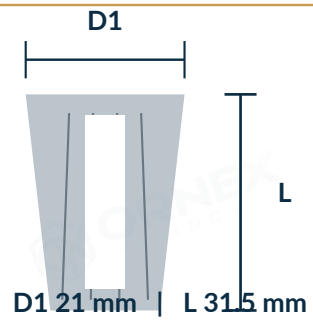
ER20 - PRECISION COLLETS

INDIVIDUAL NOMINAL BORE SIZES

PRODUCT IMAGE



REFERENCE DIMENSIONS



NOMINAL ENVELOPE / NOT TO SCALE

AVAILABLE SIZES

15 REQUESTED ENTRIES

ITEM REFERENCE	BORE (mm)	SERIES	STATUS
ER20-02	2	ER20	REQUESTED
ER20-03	3	ER20	REQUESTED
ER20-04	4	ER20	REQUESTED
ER20-05	5	ER20	REQUESTED
ER20-06	6	ER20	REQUESTED
ER20-07	7	ER20	REQUESTED
ER20-08	8	ER20	REQUESTED
ER20-09	9	ER20	REQUESTED
ER20-10	10	ER20	REQUESTED
ER20-11	11	ER20	REQUESTED
ER20-12	12	ER20	REQUESTED
ER20-13	13	ER20	REQUESTED
ER20-14	14	ER20	VERIFY*
ER20-15	15	ER20	VERIFY*
ER20-16	16	ER20	VERIFY*

* Non-standard / availability not confirmed; obtain supplier approval before publication.

ER25 COLLETS

PRECISION SLOTTED SPRING COLLETS

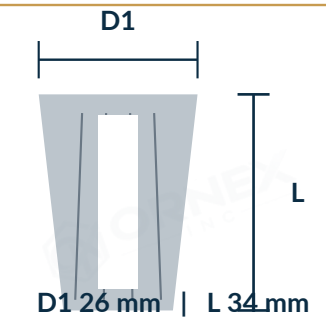
ER25 - PRECISION COLLETS

INDIVIDUAL NOMINAL BORE SIZES

PRODUCT IMAGE



REFERENCE DIMENSIONS



NOMINAL ENVELOPE / NOT TO SCALE

AVAILABLE SIZES

15 REQUESTED ENTRIES

ITEM REFERENCE	BORE (mm)	SERIES	STATUS
ER25-02	2	ER25	REQUESTED
ER25-03	3	ER25	REQUESTED
ER25-04	4	ER25	REQUESTED
ER25-05	5	ER25	REQUESTED
ER25-06	6	ER25	REQUESTED
ER25-07	7	ER25	REQUESTED
ER25-08	8	ER25	REQUESTED
ER25-09	9	ER25	REQUESTED
ER25-10	10	ER25	REQUESTED
ER25-11	11	ER25	REQUESTED
ER25-12	12	ER25	REQUESTED
ER25-13	13	ER25	REQUESTED
ER25-14	14	ER25	REQUESTED
ER25-15	15	ER25	REQUESTED
ER25-16	16	ER25	REQUESTED

Sizes represent requested range; supplier availability and grade to be confirmed.

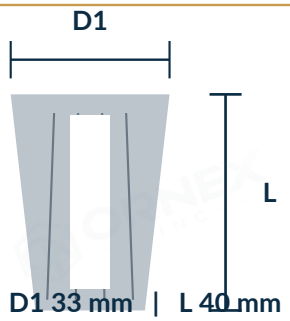
ER32 - PRECISION COLLETS

INDIVIDUAL NOMINAL BORE SIZES

PRODUCT IMAGE



REFERENCE DIMENSIONS



NOMINAL ENVELOPE / NOT TO SCALE

AVAILABLE SIZES

15 REQUESTED ENTRIES

ITEM REFERENCE	BORE (mm)	SERIES	STATUS
ER32-02	2	ER32	VERIFY*
ER32-03	3	ER32	REQUESTED
ER32-04	4	ER32	REQUESTED
ER32-05	5	ER32	REQUESTED
ER32-06	6	ER32	REQUESTED
ER32-07	7	ER32	REQUESTED
ER32-08	8	ER32	REQUESTED
ER32-09	9	ER32	REQUESTED
ER32-10	10	ER32	REQUESTED
ER32-11	11	ER32	REQUESTED
ER32-12	12	ER32	REQUESTED
ER32-13	13	ER32	REQUESTED
ER32-14	14	ER32	REQUESTED
ER32-15	15	ER32	REQUESTED
ER32-16	16	ER32	REQUESTED

* Non-standard / availability not confirmed; obtain supplier approval before publication.

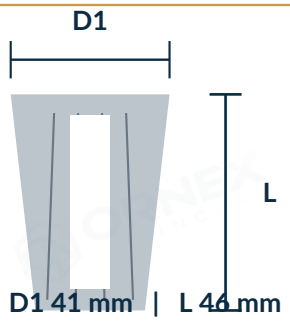
ER40 - PRECISION COLLETS

INDIVIDUAL NOMINAL BORE SIZES

PRODUCT IMAGE



REFERENCE DIMENSIONS



NOMINAL ENVELOPE / NOT TO SCALE

AVAILABLE SIZES

15 REQUESTED ENTRIES

ITEM REFERENCE	BORE (mm)	SERIES	STATUS
ER40-02	2	ER40	VERIFY*
ER40-03	3	ER40	REQUESTED
ER40-04	4	ER40	REQUESTED
ER40-05	5	ER40	REQUESTED
ER40-06	6	ER40	REQUESTED
ER40-07	7	ER40	REQUESTED
ER40-08	8	ER40	REQUESTED
ER40-09	9	ER40	REQUESTED
ER40-10	10	ER40	REQUESTED
ER40-11	11	ER40	REQUESTED
ER40-12	12	ER40	REQUESTED
ER40-13	13	ER40	REQUESTED
ER40-14	14	ER40	REQUESTED
ER40-15	15	ER40	REQUESTED
ER40-16	16	ER40	REQUESTED

* Non-standard / availability not confirmed; obtain supplier approval before publication.

SPINDLE NUTS

STANDARD / REGULAR AND LONG BODY

REGULAR NUT



LONG NUT



AVAILABLE NUT TYPES

SERIES	REGULAR NUT	LONG NUT
ER20	ER20 regular	ER20 long
ER25	ER25 regular	ER25 long
ER32	ER32 regular	ER32 long
ER40	ER40 regular	ER40 long

8 requested types | Long nut has a slightly taller body (~15% in approved visuals).

CONNECTORS & SPANNERS

ADAPTER FITTINGS AND SERVICE WRENCHES

CONNECTORS

03 REQUESTED TYPES

CONNECTOR IMAGE



REQUESTED CONNECTORS

PRODUCT TYPE
ER20 CONNECTOR
ER25 CONNECTOR
ER32 CONNECTOR

Connector thread details to be confirmed.

SPANNERS

04 REQUESTED TYPES

SPANNER IMAGE



AVAILABLE SPANNERS

SPANNER SERIES
ER20 SPANNER
ER25 SPANNER
ER32 SPANNER
ER40 SPANNER

Representative product forms approved; exact machine fitting must be verified.

ORNEX INC

THANK YOU

Thank you for exploring the ORNEX INC product catalogue. We appreciate your trust and look forward to supporting your tooling needs.

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www.ornexinc.com

sales@ornexinc.com

PHONE
+91 9057068555

WHATSAPP
+91 9057068555

LOCATION
Jaipur, Rajasthan, India