



# Tusa Precision Tools

*Precision, innovation and quality in the production of metal-cutting tools*



# Agenda

1

## Company profile

Overview of our values and beliefs

2

## Our market

Introduction to our market segment

3

## Our product

Standard and special tools

4

## Mission & Vision

Our future goals



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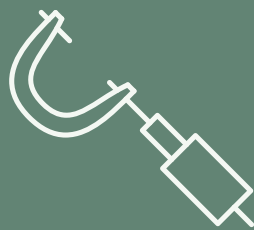
# *Company profile*

# Evolution



# Our values

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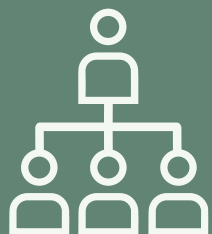
Precision



Quality



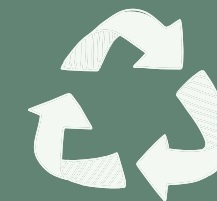
Flexibility



Diversification



Customization



Environmental  
Responsibility

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## *Our market*

# Market & Production analysis



# Fields of application

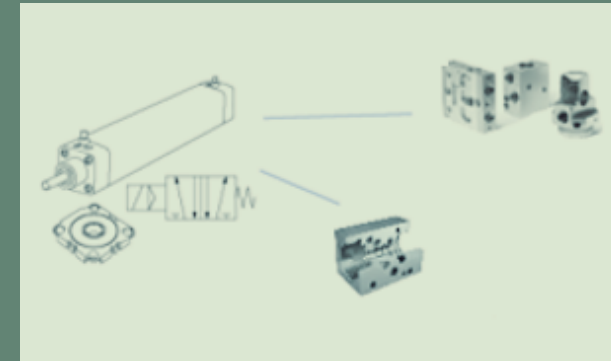
Automotive



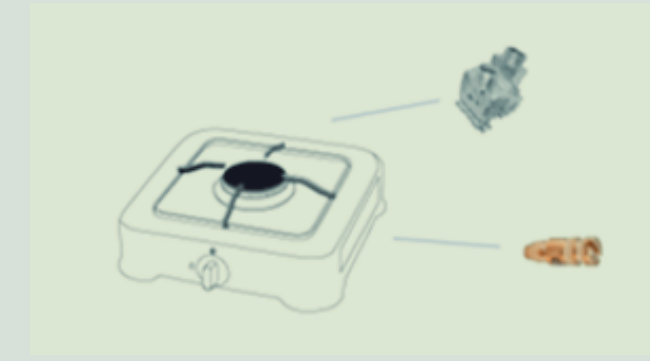
Watches



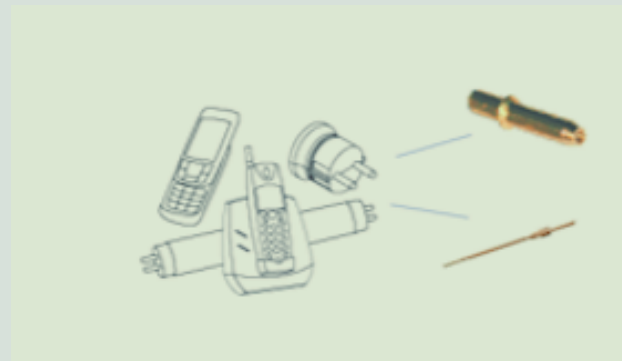
Hydraulic



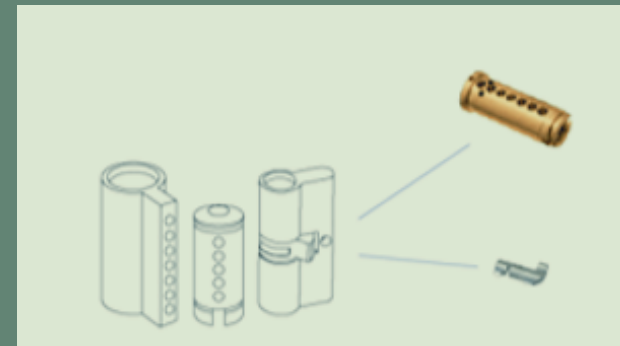
Gas



Electro



Locks



Optical



Medical



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*Our standard products*

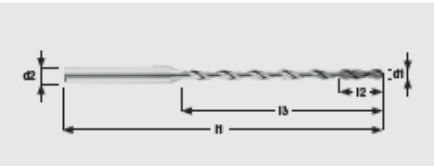
# Drills

## Micro drills with reinforced shank

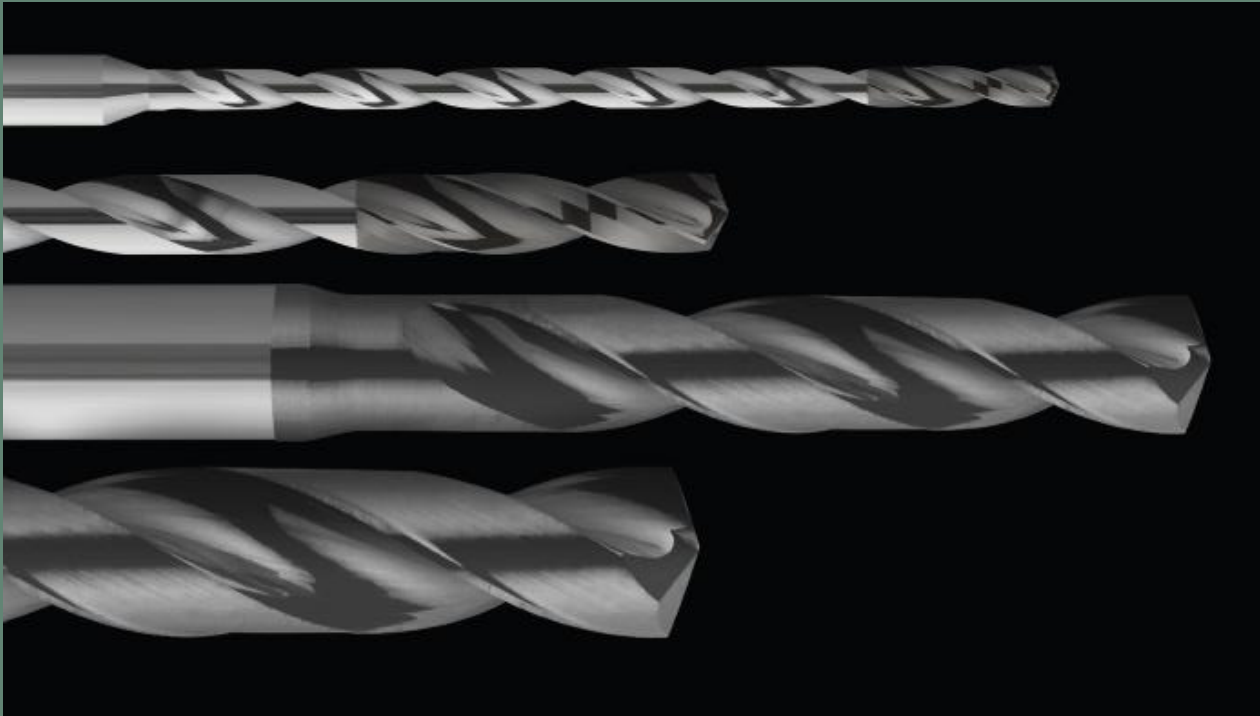
- Range: Ø0.20 – Ø4.00 step every 0.05mm
- Reinforced shank
- 2 flutes
- Internal coolant
- High performance coating

### TTD206E

Punta elicoidale ad alte prestazioni con canali e gambo rinforzato  
High-performance twist drill with coolant holes and reinforced shank  
Hochleistungs-Spiralbohrer mit Kühlkanälen und Verstärkter Schaft  
Foret hélicoïdal à hautes performances à trous d'huile et queue renforcée



Art. Tusa Precision	d1 h6	d2 h6	l1 +/-0.2	l2 0/+0.5	l3 0/+0.5
TTD2000100E	1,00	3	50	4,40	9,30
TTD2000105E	1,05	3	50	4,65	9,80
TTD2000110E	1,10	3	50	4,85	10,25
TTD2000115E	1,15	3	50	5,10	10,70
TTD2000120E	1,20	3	50	5,30	11,20
TTD2000125E	1,25	3	50	5,50	11,65
TTD2000130E	1,30	3	52	5,75	12,10
TTD2000135E	1,35	3	52	5,95	12,60
TTD2000140E	1,40	3	52	6,20	13,05
TTD2000145E	1,45	3	52	6,40	13,50
TTD2000150E	1,50	3	52	6,60	13,95
TTD2000155E	1,55	3	55	6,85	14,45
TTD2000160E	1,60	3	55	7,05	14,90
TTD2000165E	1,65	3	55	7,30	15,35
TTD2000170E	1,70	3	55	7,50	15,85
TTD2000175E	1,75	3	55	7,70	16,30

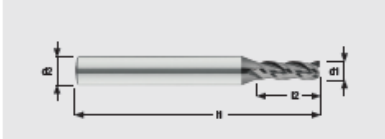



# Micro End-mills

## End-mills

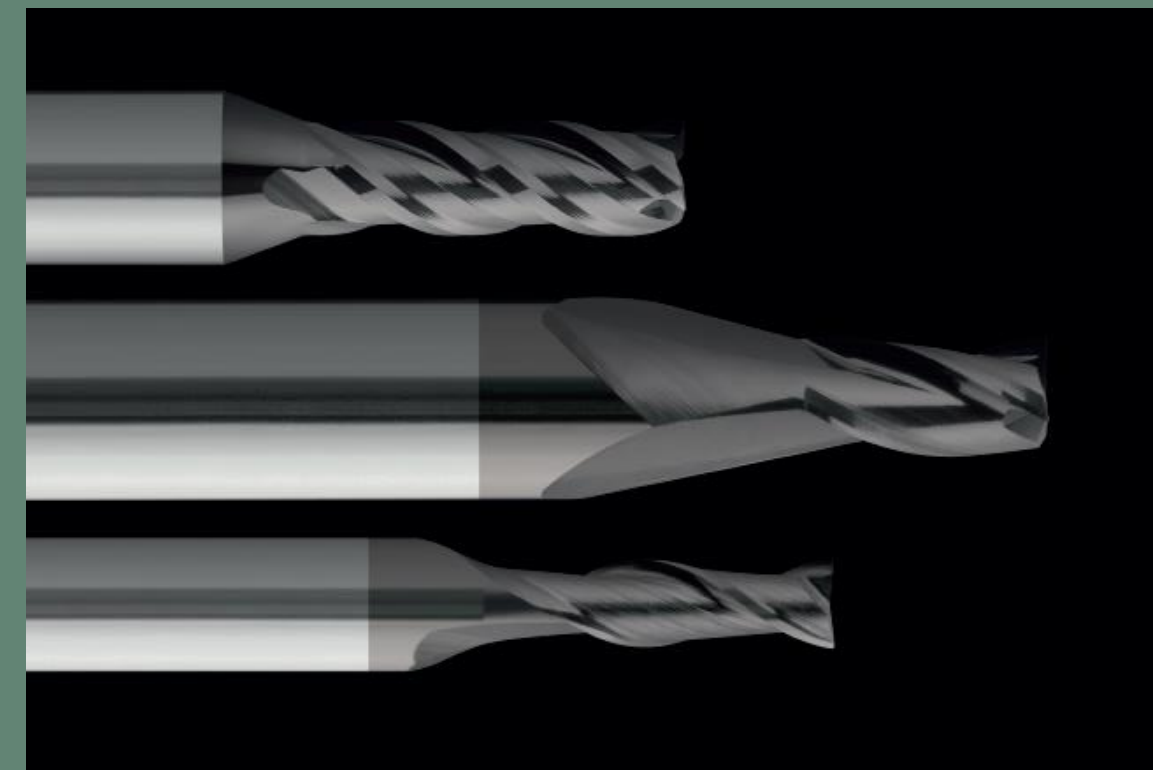
- Range: Ø0.20 – Ø20.00
- Availability of also two longer options
- 2-3 flutes
- No internal coolant
- High performance coating

**TTM325E** Microfresa  
Micro-milling cutter  
Mikrofräser  
Micro fraise

3XD 0.2  
TUSA NORM 32  
CNC 32

Art. Tusa Precision	d1 +/-0.01	d2 H6	l1 +/-0.1	l2 0/+1	Z
TTM3250100E	1,00	4	40	3,00	3
TTM3250120E	1,20	4	40	3,00	3
TTM3250150E	1,50	4	40	4,50	3
TTM3250158E	1,58	4	40	4,70	3
TTM3250180E	1,80	4	40	5,40	3
TTM3250200E	2,00	4	40	6,00	3
TTM3250238E	2,38	4	40	7,15	3
TTM3250250E	2,50	6	50	7,50	3
TTM3250300E	3,00	6	50	9,00	3
TTM3250317E	3,17	6	50	9,50	3
TTM3250350E	3,50	6	50	10,50	3
TTM3250397E	3,97	6	50	12,00	3
TTM3250400E	4,00	6	50	12,00	3
TTM3250450E	4,50	6	50	13,50	3
TTM3250476E	4,76	6	50	14,30	3
TTM3250500E	5,00	6	50	15,00	3
TTM3250550E	5,50	6	50	16,70	3
TTM3250600E	6,00	6	50	18,00	3



# Reamers

## Cylindrical Reamer

- Range: Ø1.00 – Ø16.00
- Cilindrici
- 4/8 flutes
- No internal coolant
- Not coated

MS402

Alcatori cilindrici, spirale sinistra, taglio destro

Cylindrical reamer, left hand helix, right hand cut

Spindelgestuet Reibahle, links Drill, rechtschneidend, ungleiche Teilung

Alésair avec hélice à gauche, coupe à droite, division irrégulière

Z

4-8

Z

8

UNILAR


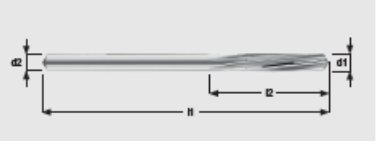
DRILL

DIN

338

P


25539



Art. Tusa Precision	d1 H7	d2 H6	l1 Dx1	l2 Dx2	Z
MS40200100	1,00	1,00	40	5,00	4
MS40200105	1,05	1,05	40	5,00	4
MS40200110	1,10	1,10	40	7,00	4
MS40200115	1,15	1,15	40	7,00	4
MS40200120	1,20	1,20	40	7,00	4
MS40200125	1,25	1,25	40	7,00	4
MS40200130	1,30	1,30	40	7,00	4
MS40200135	1,35	1,35	40	7,00	4
MS40200140	1,40	1,40	40	8,00	4
MS40200145	1,45	1,45	40	8,00	4
MS40200150	1,50	1,50	40	8,00	4
MS40200155	1,55	1,55	43	8,00	4
MS40200160	1,60	1,60	43	9,00	4
MS40200165	1,65	1,65	43	9,00	4
MS40200170	1,70	1,70	46	10,00	4
MS40200175	1,75	1,75	46	10,00	4
MS40200180	1,80	1,80	46	10,00	4
MS40200185	1,85	1,85	46	10,00	4
MS40200190	1,90	1,90	46	11,00	4
MS40200195	1,95	1,95	46	11,00	4
MS40200197	1,97	1,97	49	11,00	4
MS40200198	1,98	1,98	49	11,00	4
MS40200199	1,99	1,99	49	11,00	4
MS40200200	2,00	2,00	49	11,00	4
MS40200201	2,01	2,01	49	11,00	4
MS40200202	2,02	2,02	49	11,00	4

TUSA

Precision Tools SA

 SWISS MADE

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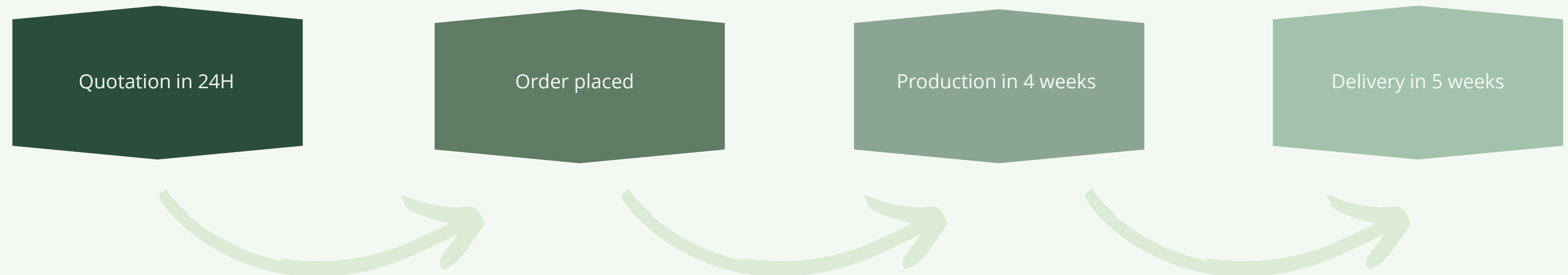
*Our special  
products*



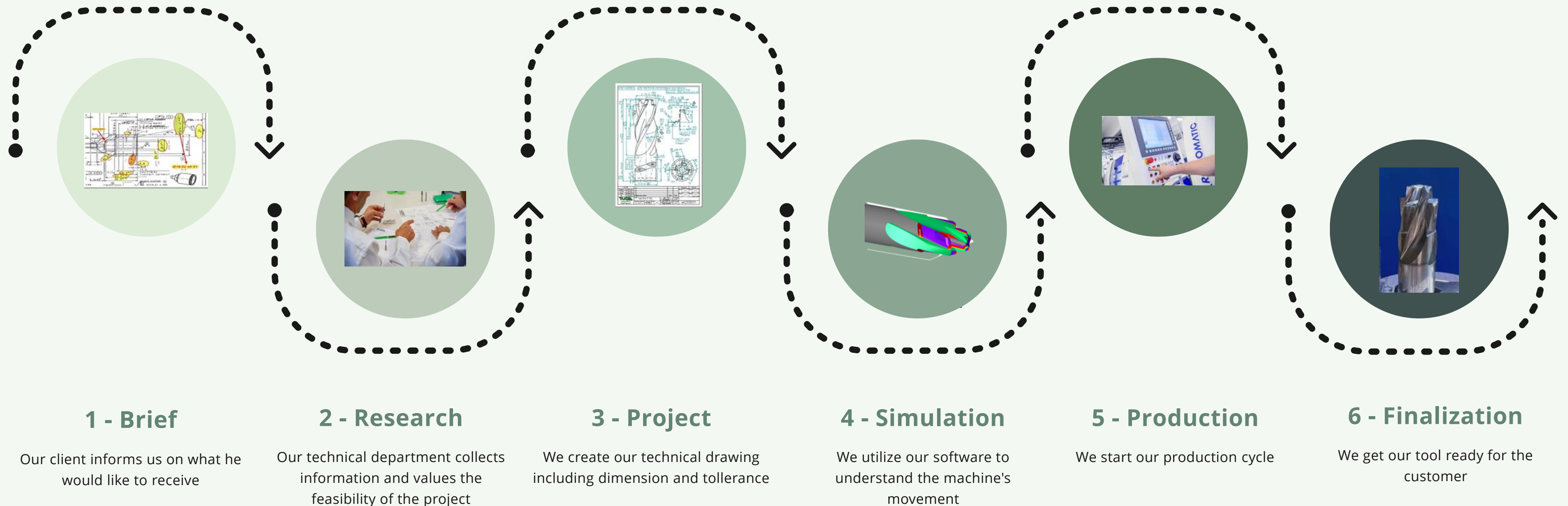
## Features

- Range: Ø0.2mm - Ø20mm
- Drilling, reaming, chamfering, and milling tools
- High-quality raw materials
- Maximum available tolerance  $\pm 0.0005\text{mm}$  ( $\pm 0.5\mu\text{m}$ )
- Maximum concentricity of the shank 0.002mm

# Our strategy



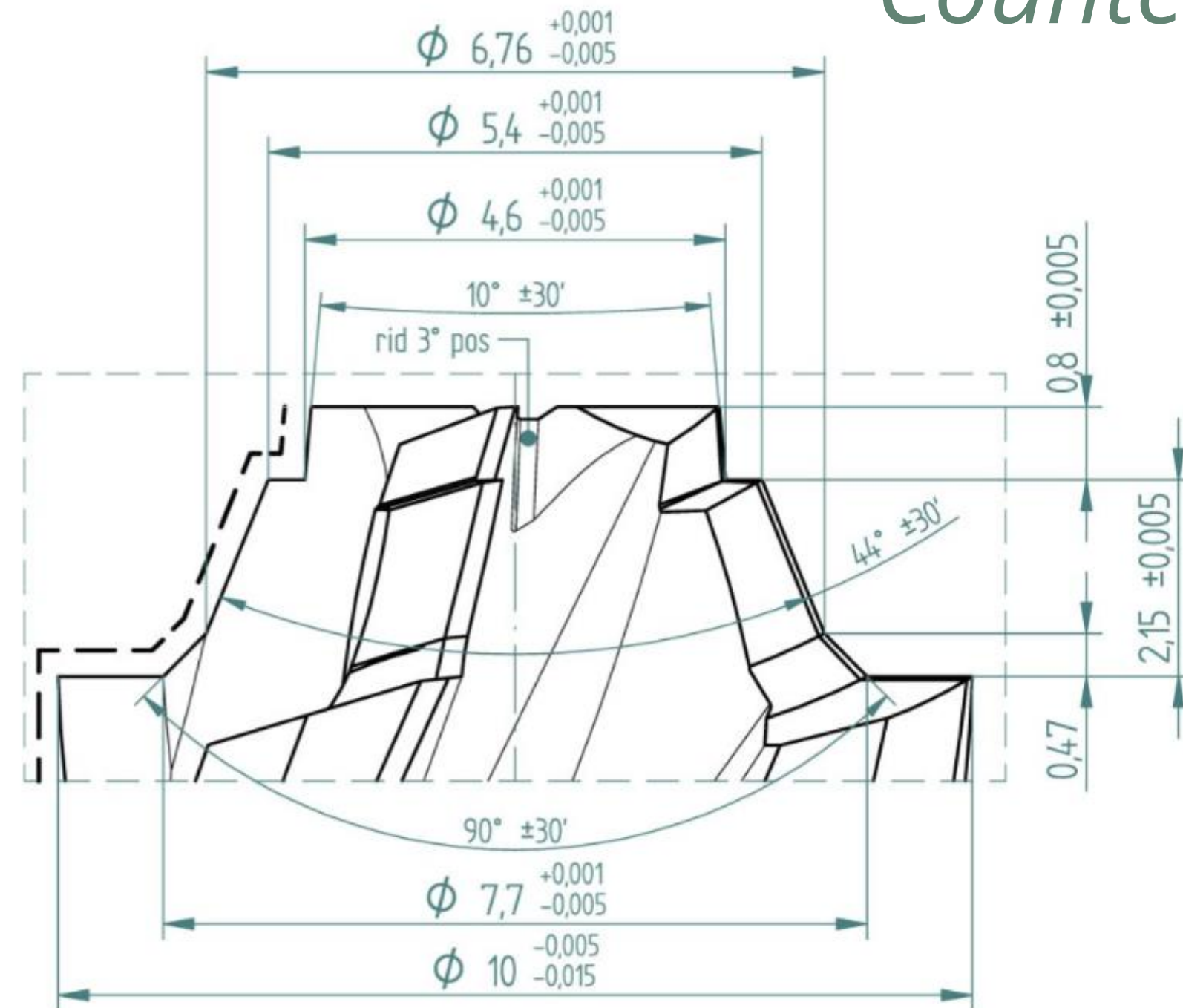
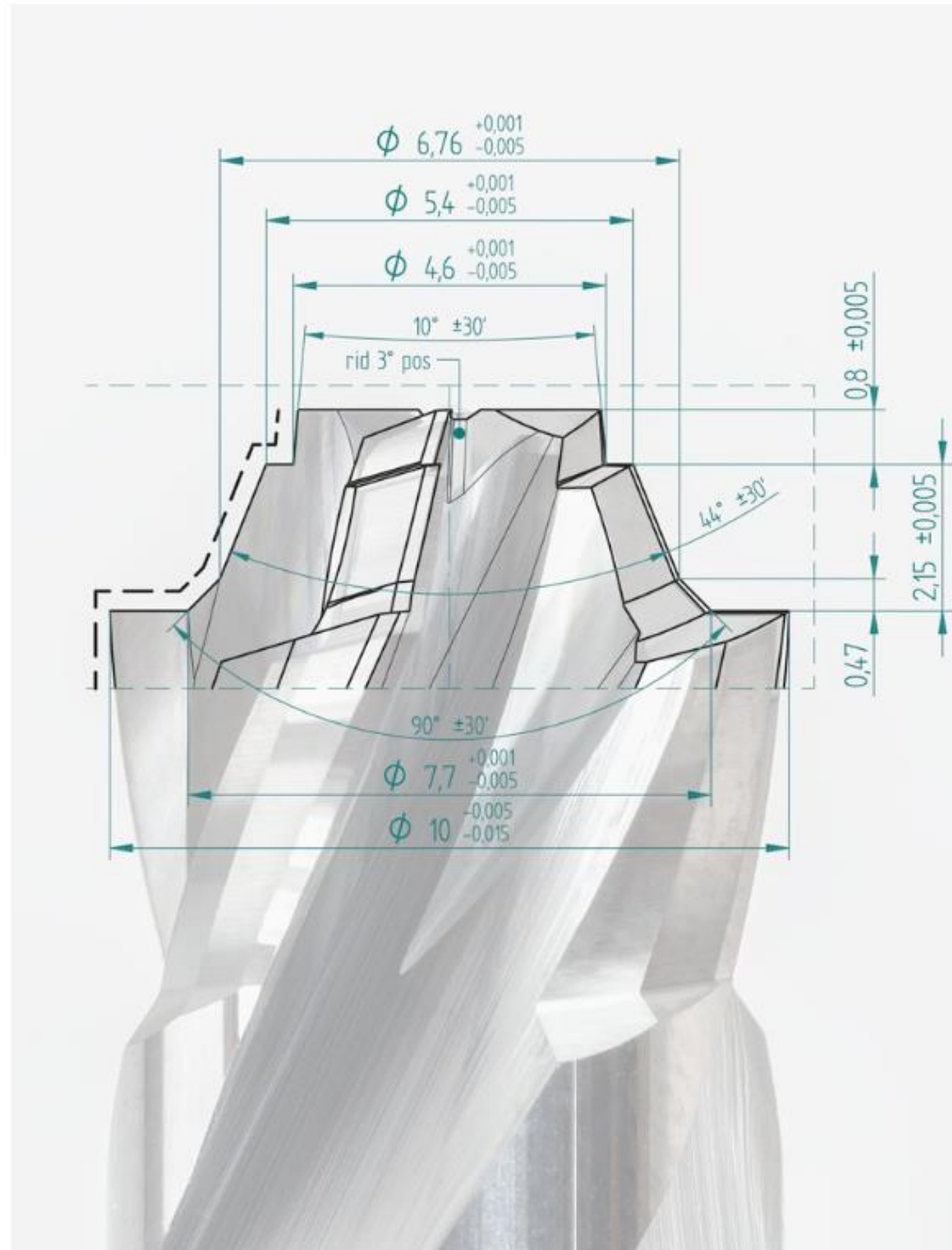
# Engeeniring process



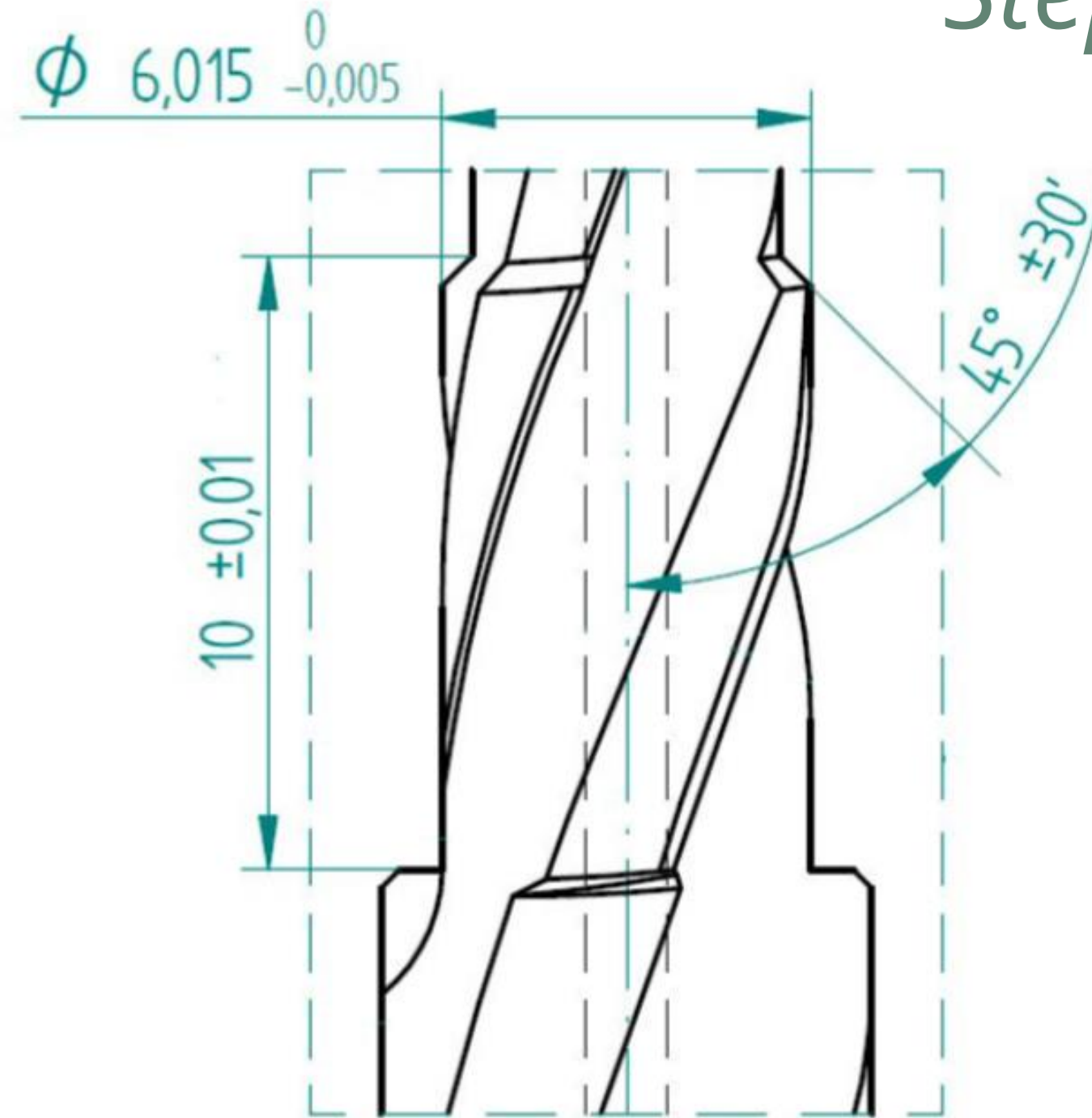
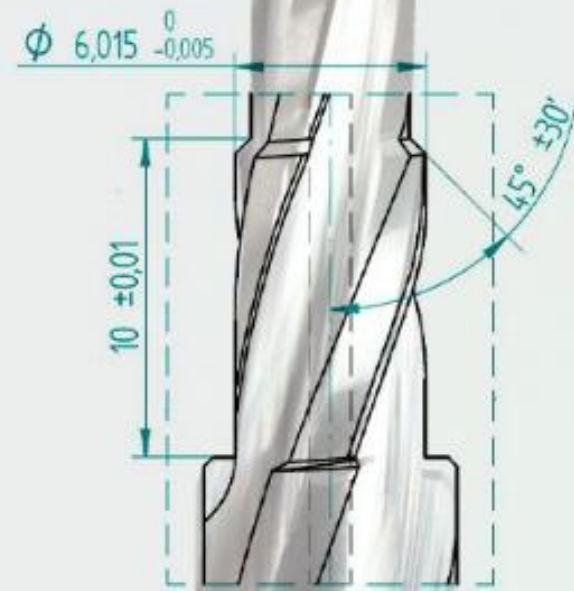
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## *Our Precision*

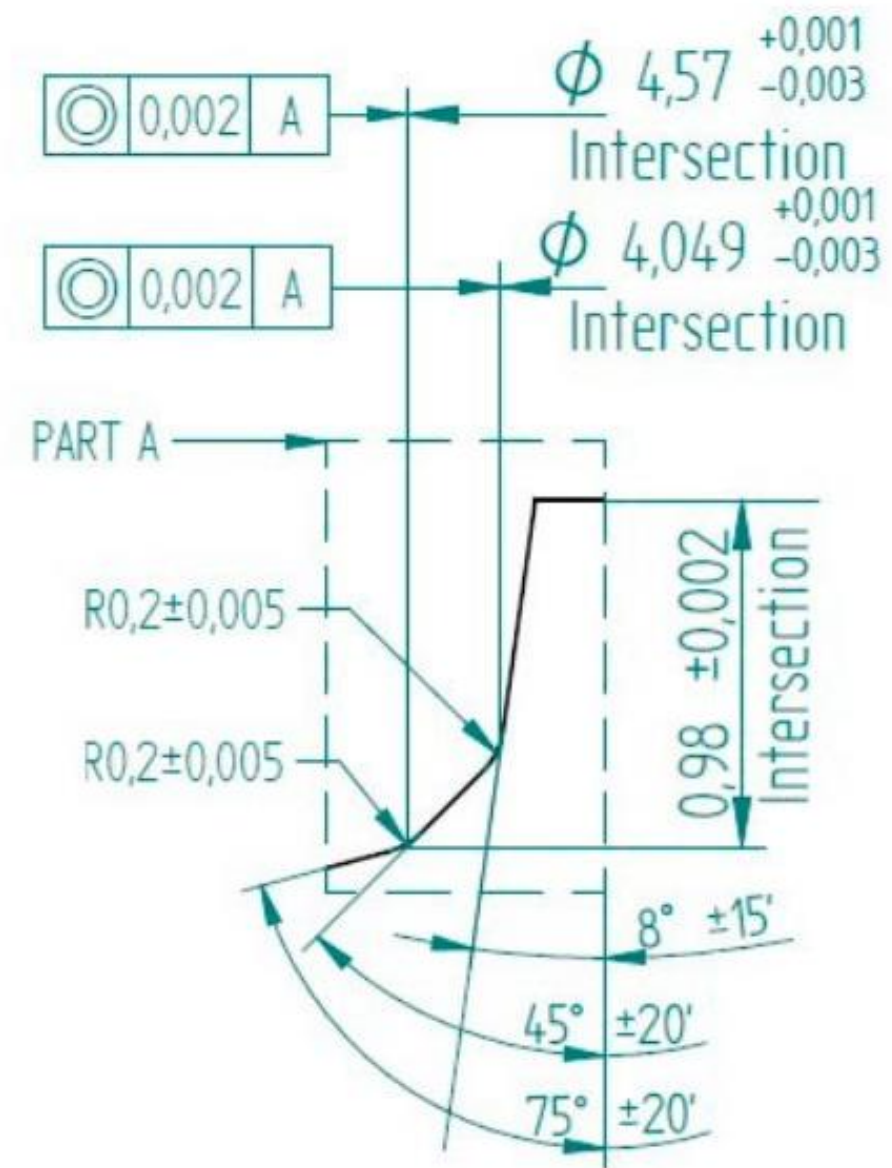
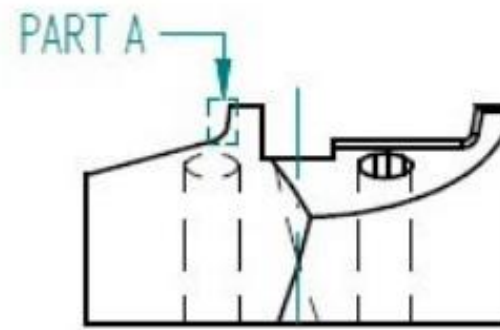
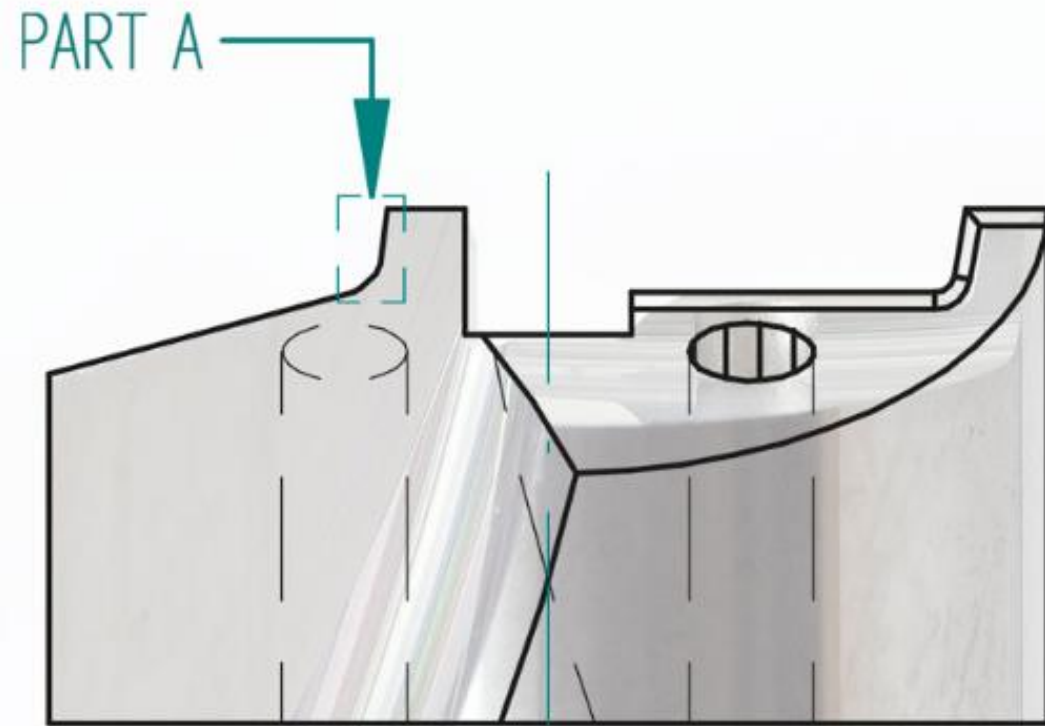
# Countersink



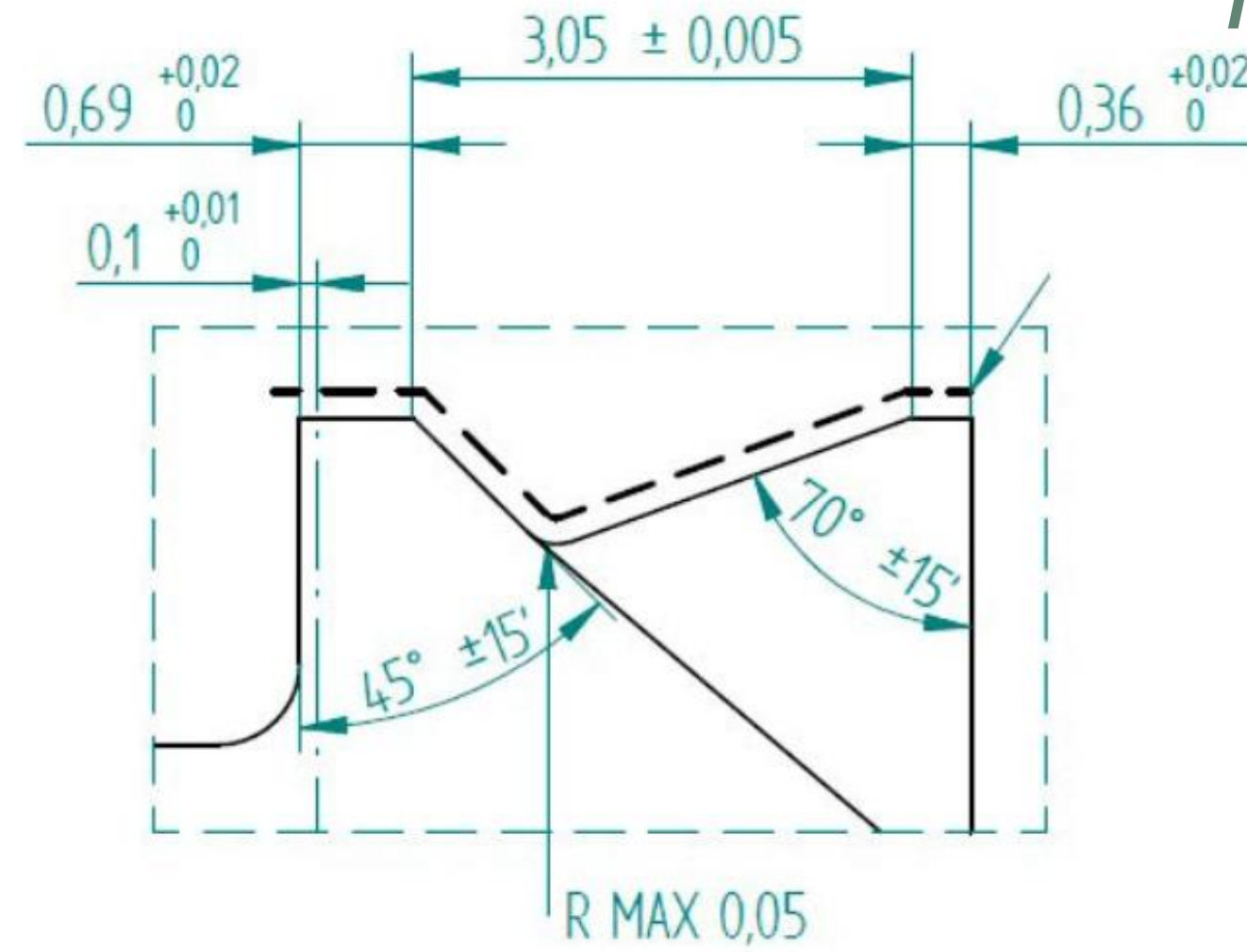
# Step Reamer



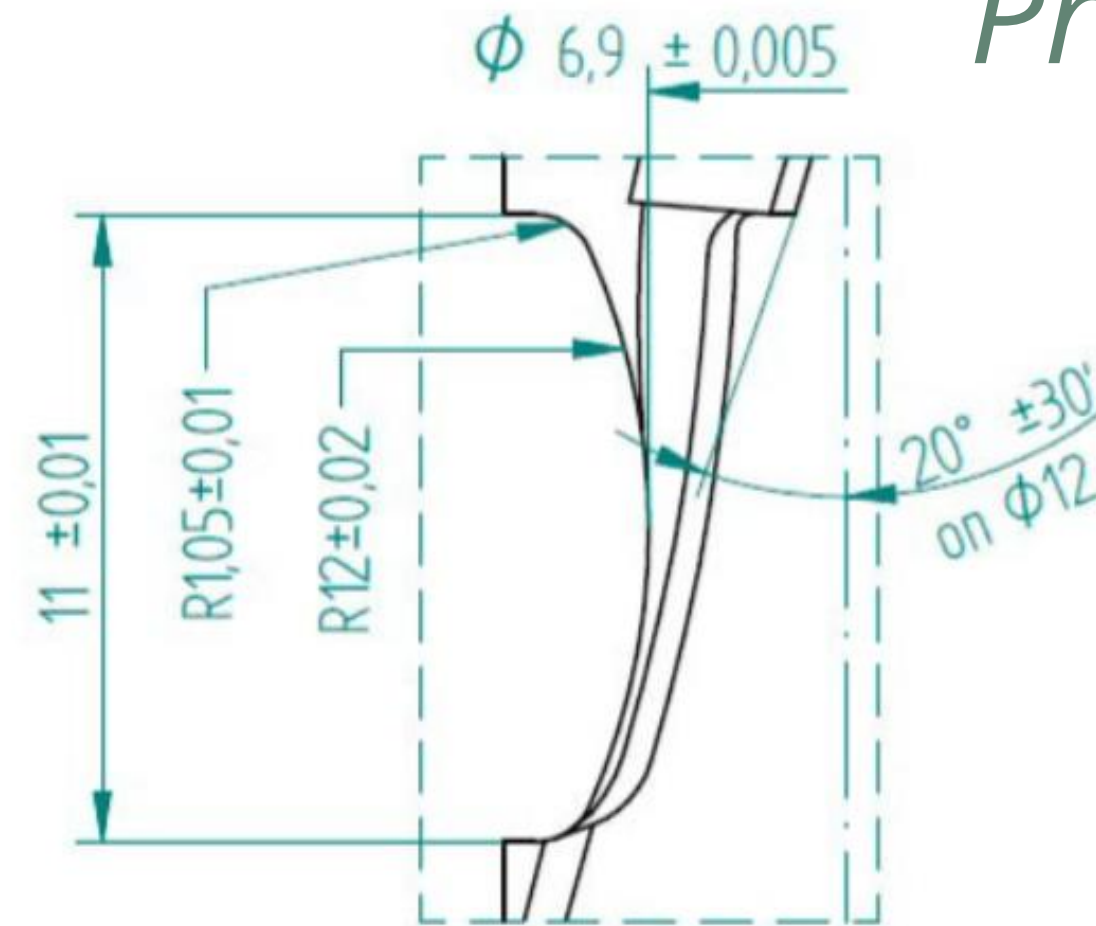
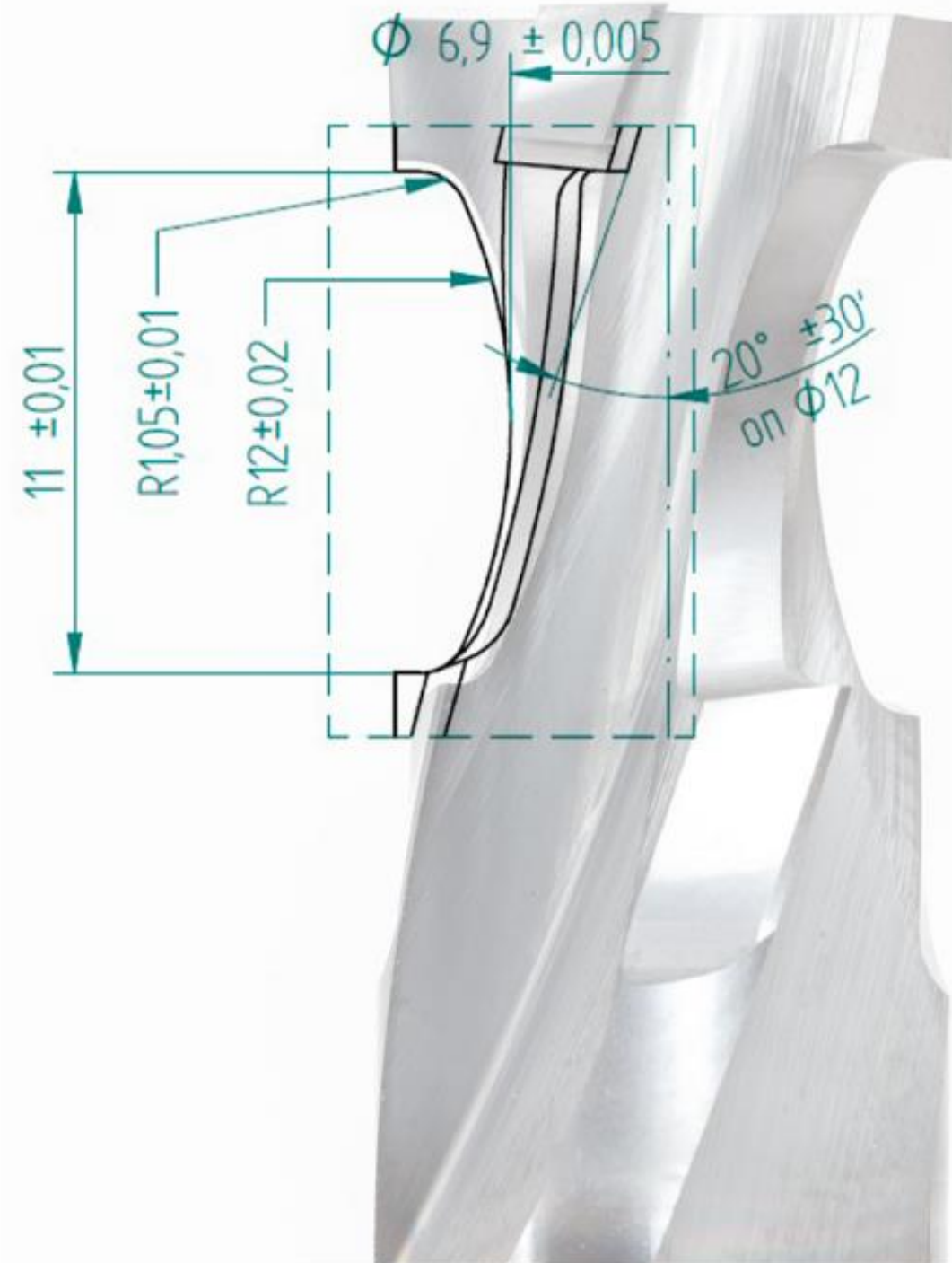
# Shaped Tool



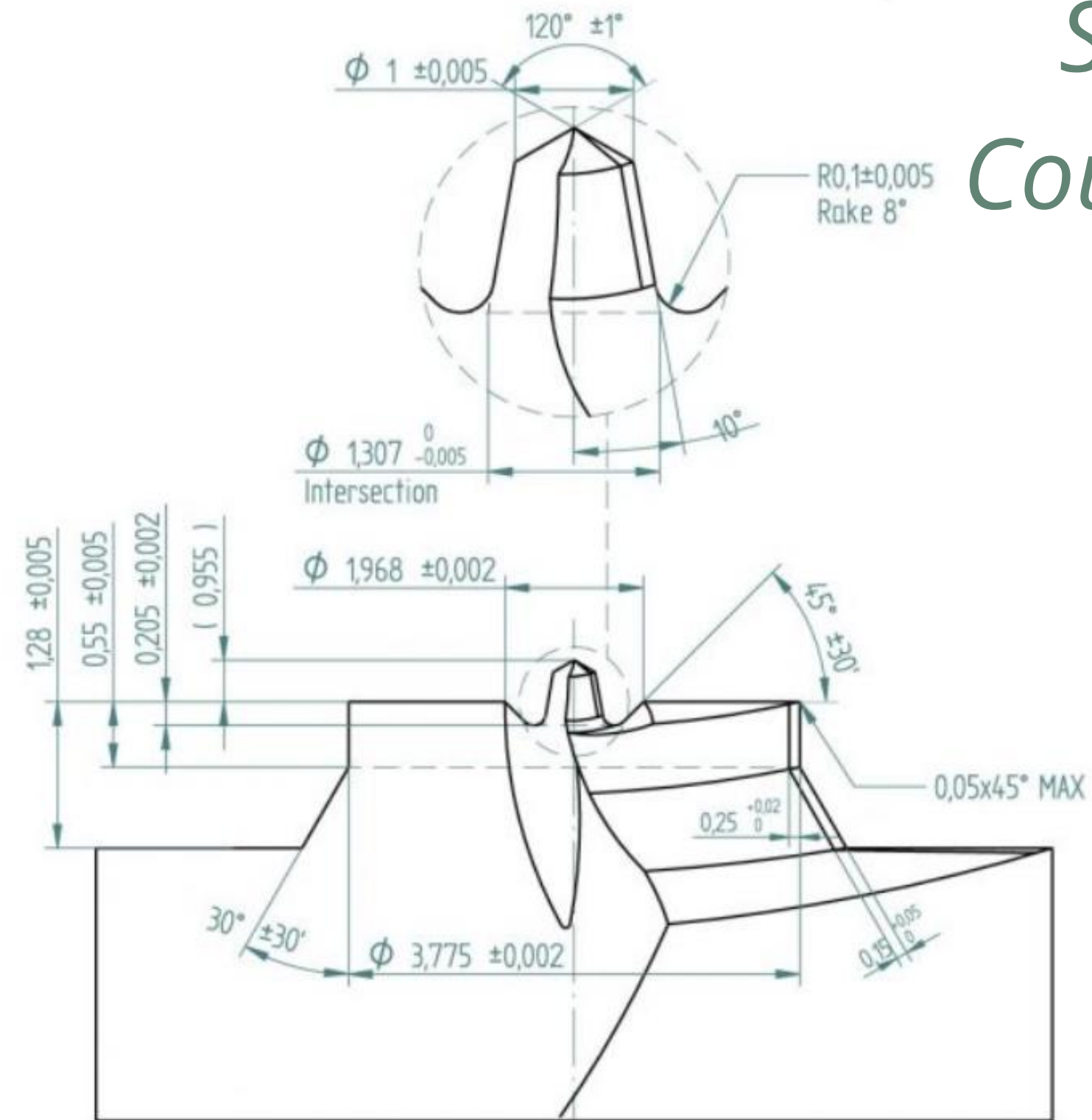
# Shaped Tool



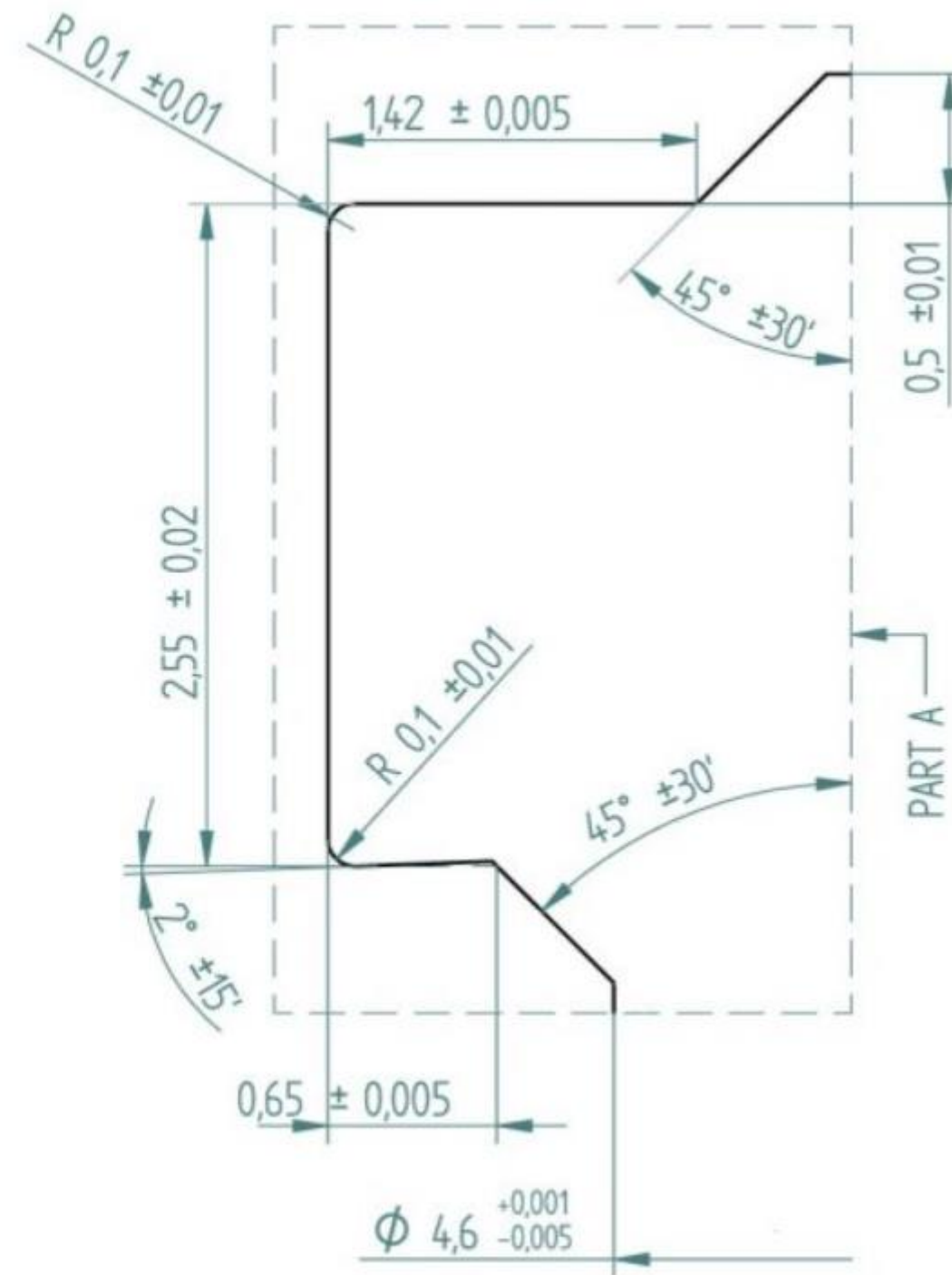
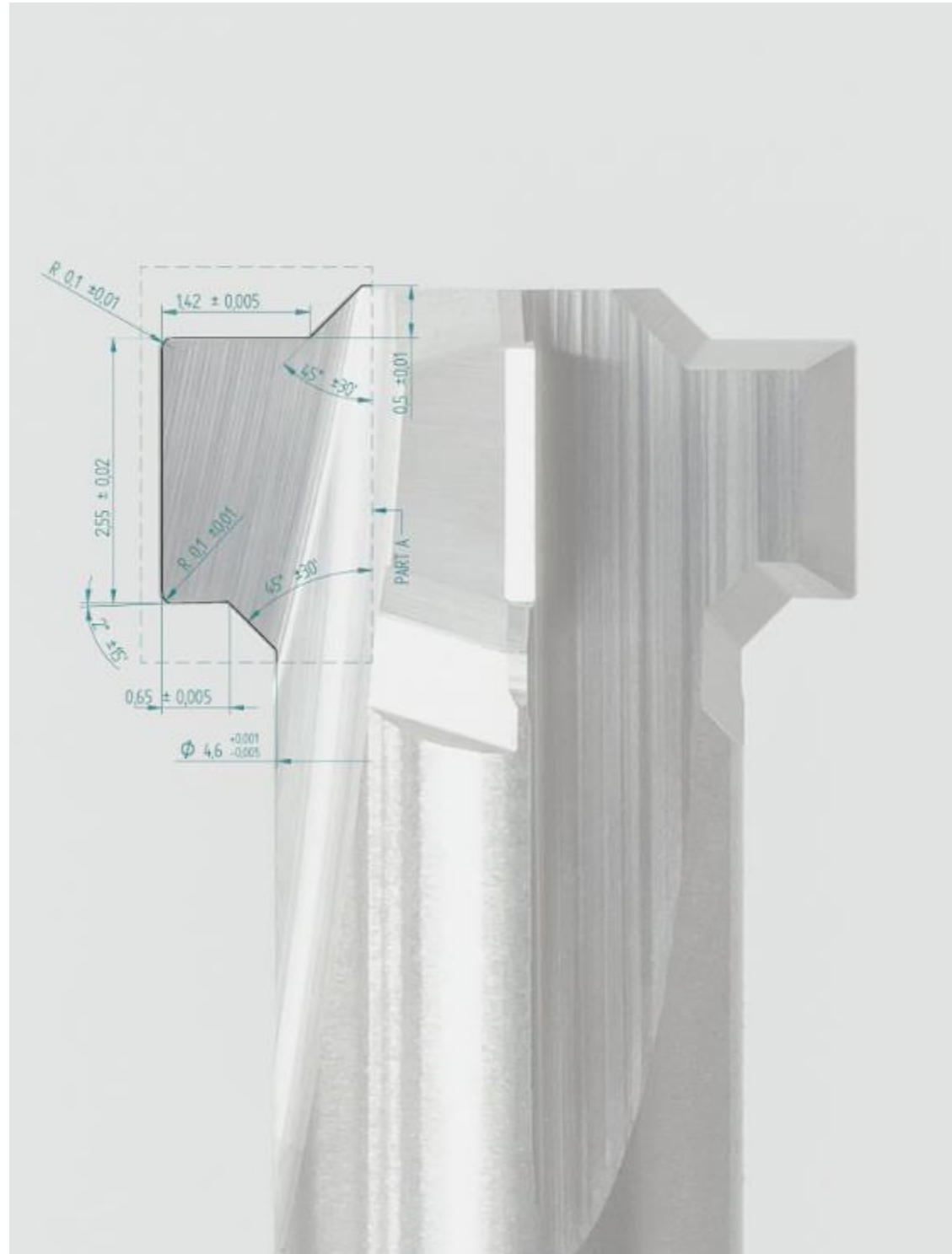
# Profile Mill



# Shaped Countersink



# Shaped Tool



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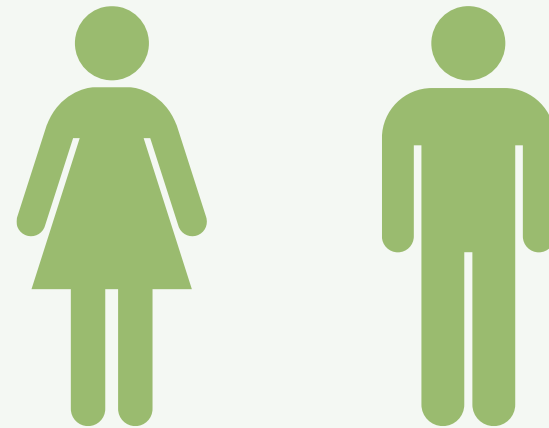
# *Mission & Vision*

# Management

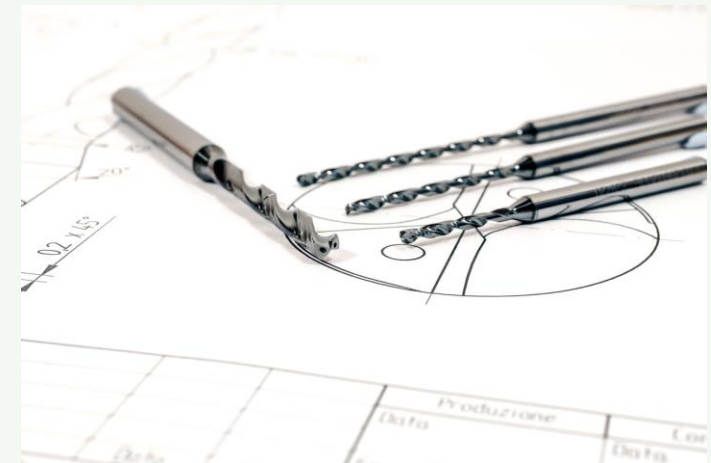
## MACHINERY



## PEOPLE



## PRODUCTS



# Our goals



FOLLOW OUR  
IDENTITY



STRENGTHEN OUR  
CORNERSTONES



BOOST OUR  
PRODUCTION  
CAPACITY



PROMOTE OUR  
BRAND

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# Thank you for your visit!

*"Understanding variation is the key to success in quality and business."*

WILLIAM EDWARDS DEMING

