Industry solutions

Dental Industry

Volume 6

INDEX BY MACHINE BRAND

Roland

DLG-LN-EBD I DG-LN-EBD I WXL-LN-EBD I ED-ES RO I ED-BS RO
For PEEK, PMMA, Zirconium, Composite & Glass Ceramics ..... PAGE 6-7

imes-icore

WXL-LN-EBD IM I DG-LN-EBD IM I WXS-CRE IM I WXL-LN-EDS IM I WXL-CPR IM I WXS-CPR IM I WXS-EMS I WH-VM-PNC I ED-ES IM I ED-BS IM
For PMMA, WAX, Metal, Zirconium, Composite & Glass Ceramics ..... PAGE 8-10

Zirkonzahn

WXL-LN-EBD ZI I WXL-PC-EBD ZI I DIA-LN-EBD ZI I WXL-LN-CPR ZI I WXL-LN-EDS ZI I
For PEEK, PMMA, WAX, Zirconium & Composite ..... PAGE 11

Vhf

WXL-LN-EBD VH I DLG-LN-EBD VH
For PMMA, WAX, Zirconium & PEEK ..... PAGE 12

Sirona MC X5

DIA-LN-EBD SI
For Zirconium & Composite ..... PAGE 13

Amann Girbach

WXL-LN-EBD AG I DIA-LN-EBD AG
For PMMA, WAX, PEEK, Zirconium & Composite ..... PAGE 14

INDEX BY PRODUCT SERIES

Ball Nose

		Page
WXL-LN-EBD	General purpose	16
DLC-LN-EBD	PEEK & PMMA	17
WXS-LN-EBD	Hardened material	17
DG-LN-EBD	Zirconium & Composite	19
DG-LN-EBT	Zirconium & Composite	19
PHX-LN-DBT	High productivity	20

Corner Radius

		Page
WXL-CPR	General purpose	21
WXS-CPR	Hardened material	21
DG-CPR	Zirconium & Composite	22
WXS-CRE	High feed for metal material	23
FXS-PKE	Corner radius for Titanium	23
AE-VMS	Carbide end mill with Duarise coating	24
AE-VMSS	Carbide end mill with Duarise coating	24

Square

		Page
WXL-LN-EDS	2 flutes long neck	25
WXL-LN-EMS-6	4 flutes long neck	26
WXS-EMS	4 flutes short type	26

T-Slot

		Page
FX-MG-TSC	Undercut mill	27

Diamond Grinding Burs

		Page
ED-ES	Conical for glass ceramic	27
ED-BS	Ball for glass ceramic	27

Drills

		Page
WX-MS-GDS	Stub length: WX-MS-GDS	28
MRS-GDL	Deep length: MRS-GDL	29
FX-LDS	Spot drill: FX-LDS	28

Threading

		Page
WH-VM-PNC	Thread mill	30

TOOL SELECTION GUIDE

Bridge | Crown

	Cobalt Chrome	Titanium	Zirconium	PMMA/WAX	PEEK
Ball Nose	WXS-LN-EBD PHX-LN-DBT WXL-LN-EBD	WXL-LN-EBD PHX-LN-DBT	DG-LN-EBD WXS-LN-EBD	WXL-LN-EBD	DLC-LN-EBD
Radius	WXS-CRE AE-VMS WXS-CPR	FXS-PKE AE-VMS WXL-CPR	DG-CPR WXS-CPR	WXL-CPR	WXL-CPR
Square	WXS-EMS AE-VMSS WXL-LN-EDS	WXL-LN-EDS AE-VMSS WXL-LN-EMS-6	WXL-LN-EDS	WXL-LN-EDS	WXL-LN-EDS

Abutment

	Titanium	Zirconium
Ball Nose	WXL-LN-EBD PHX-LN-DBT	DG-LN-EBD WXS-LN-EBD
Radius	FXS-PKE WXL-CPR AE-VMS	DG-CPR WXS-CPR
Square	WXL-LN-EDS WXL-LN-EMS-6 AE-VMSS	WXL-LN-EDS
Drill	MRS-GDL WX-MS-GDS	MRS-GDL WX-MS-GDS
Thread milling	WH-VM-PNC	WH-VM-PNC

Implant bar

	Titanium
Ball Nose	WXL-LN-EBD PHX-LN-DBT
Radius	FXS-PKE WXL-CPR AE-VMS
Square	WXL-LN-EDS WXL-LN-EMS-6 AE-VMSS
Drill	MRS-GDL WX-MS-GDS
Thread milling	WH-VM-PNC

THE OSG ADVANTAGE

Innovation, Service & Global Network

Total solution from start to finish

OSG is the world's largest manufacturer of round cutting tools. Established in 1938, OSG has a longstanding reputation as a total solution cutting tool provider throughout the manufacturing industry. Gaining the support and trust of our customers has always been OSG's commitment. Through our innovative technological know-how, exceptional services, and out-of-the-box thinking, we can offer tailored support for your dental application needs.

shaping your dreams

KNOW-HOW **01**

80 years of history and proven successes in the cutting tool sector, serving an array of industries including automotive, mold & die, aerospace, energy, medical, etc.

ABSOLUTE QUALITY CONTROL **02**

OSG produces its own carbide, designs its own tools, develops its own coating and manufactures its own CNC machines to ensure quality control.

TAILORED SOLUTIONS **03**

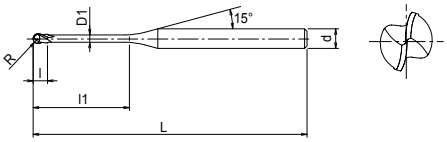
OSG offers custom support for each of our client's individual needs - from application evaluation, tool drawing creation, to creating tailored proposals.

AFTER SALES SUPPORT **04**

OSG is committed to providing the best possible service and off ers on-site technical support to guarantee performance.

BALL NOSE FOR PEEK, PMMA & ZIRCONIUM

DLC-LN-EBD



DLC

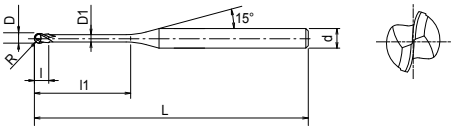
CARBIDE

Shank diameter 4 mm

EDP	d	D	R	l1	L	l	D1	ZΔ	€ Price
W1604644	4	0,6	0,3	6	50	0,5	0,55	2	
W1604586	4	1	0,5	16	50	0,8	0,95	2	
W1604587	4	2	1	20	50	1,6	1,95	2	

BALL NOSE FOR ZIRCONIUM & COMPOSITE

DG-LN-EBD



DG

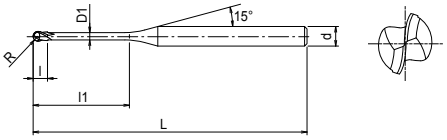
CARBIDE

Shank diameter 4 mm

EDP	d	D	R	l1	L	l	D1	ZΔ	€ Price	Old EDP
8553711	4	0,6	0,3	6	50	0,9	0,56	2		W1502461
8553712	4	0,6	0,3	10	50	0,9	0,56	2		
8553723	4	1	0,5	10	50	1,5	0,96	2		
48249116	4	1	0,5	16	50	1,5	0,93	2		W1502460
48249220	4	2	1	20	50	3	1,87	2		W1502459

BALL NOSE FOR GENERAL USE

WXL-LN-EBD

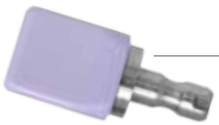


WXL

CARBIDE

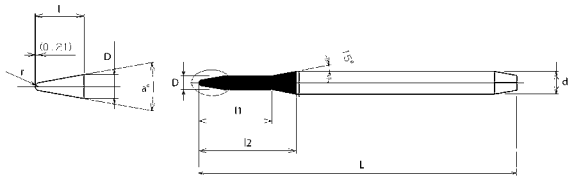
Shank diameter 4 mm

EDP	d	D	R	l1	L	l	D1	ZΔ	€ Price	Old EDP
3110525	4	0,5	0,25	2,5	45	0,4	0,45	2		
3110660	4	0,6	0,3	6,0	45	0,5	0,55	2		
3110700	4	0,6	0,3	10,0	45	0,5	0,55	2		
3111070	4	1,0	0,5	7,0	45	0,8	0,95	2		
3111112	4	1,0	0,5	12,0	45	0,8	0,95	2		
3111114	4	1,0	0,5	14,0	50	0,8	0,95	2		
3111116	4	1,0	0,5	16,0	50	0,8	0,95	2		W1503335
3112112	4	2,0	1	12,0	45	1,6	1,95	2		
3112114	4	2,0	1	14,0	50	1,6	1,95	2		
3112116	4	2,0	1	16,0	50	1,6	1,95	2		
48251220	4	2,0	1	20,0	50	1,6	1,95	2		W1503334



FOR GLASS CERAMICS

ED-ES RO (conical)

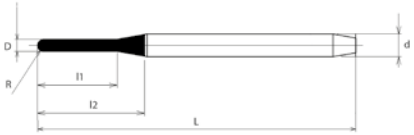


Shank diameter 3 mm

EDP	d	D	R	l	α	l1	l2	L	Old EDP	€ Price
P1701078	3	1,7	0,25	3,6	20	8,9	11	40	P1601041	

FOR GLASS CERAMICS

ED-BS RO (ball)

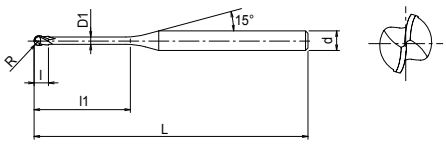


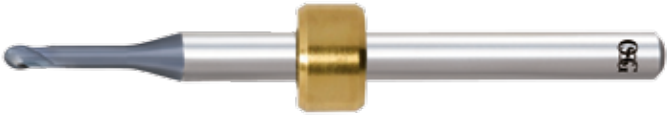
Shank diameter 3 mm

EDP	d	D	R	l1	l2	L	Old EDP	€ Price
P1701079	3	1	0,5	6	9	40	P1601040	
P1701080	3	1,5	0,75	10	11	40	P1601037	
P1701081	3	2,5	1,25	14,75	15	40	P1601039	

BALL NOSE FOR PMMA, PEEK, WAX & METAL

WXL-LN-EBD IM





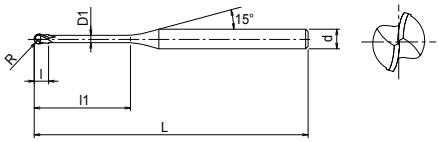
WXL CARBIDE

Shank diameter 6 mm

EDP	d	D	R	l1	L	l	ZΔ	Old EDP	€ Price
W1800444	6	0,6	0,3	2,5	50	0,5	2	3120625IM	
W1800445	6	0,6	0,3	8	50	0,5	2	48251008IM	
W1800446	6	1	0,5	8	50	0,8	2	3121080IM	
W1800447	6	1	0,5	10	50	0,8	2	3121100IM	
W1800448	6	1	0,5	12	50	0,8	2	3121112IM	
W1800449	6	1	0,5	16	50	0,8	2	48251116IM	
W1800450	6	1,5	0,75	8	50	1,2	2	3121580IM	
W1800451	6	1,5	0,75	10	50	1,2	2	3121600IM	
W1800452	6	1,5	0,75	12	50	1,2	2	3121612IM	
W1800453	6	2	1	10	50	1,6	2	3122100IM	
W1800454	6	2	1	12	50	1,6	2	3122112IM	
W1800455	6	2	1	20	50	1,6	2	48251221IM	
W1703068	6	2,50	1,25	20	50	6	2		
W1800467	6	3	1,5	12	50	2,4	2	W1703576IM	

BALL NOSE FOR ZIRCONIUM & COMPOSITE

DG-LN-EBD IM



DG CARBIDE

Shank diameter 6 mm

EDP	d	D	R	l1	L	l	ZΔ	Old EDP	€ Price
W1800439	6	0,6	0,3	8	50	0,5	2	48249068IM	
W1800440	6	1	0,5	10	50	0,8	2	48249170IM	
W1800441	6	2	1	12	50	3	2	48249272IM	
W1800442	6	1	0,5	16	50	1,5	2	W1602615IM	
W1800443	6	2	1	20	50	3	2	W1602616IM	
W1703069	6	2,5	1,25	20	50	6	2		

FOR METAL HIGH SPEED MILLING

WXS-CRE IM

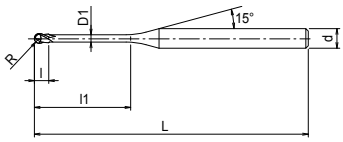
WXS CARBIDE

Shank diameter 6 mm

EDP	d	D	R	l1	L	l	ZΔ	Old EDP	€ Price
W1800463	6	2,0	0,5	8	50	0,8	4	48106421IM	
W1800464	6	2,0	0,5	12	50	0,8	4	48254212IM	
W1800465	6	3,0	0,75	16	50	1,3	4	48254316IM	

SQUARE FOR PMMA, PEEK, WAX & METAL

WXL-LN-EDS IM



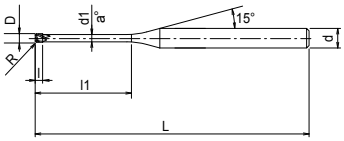
WXL CARBIDE

Shank diameter 6 mm

EDP	d	D1	l1	L	l	ZΔ	Old EDP	€ Price
W1800457	6	0,5	4	45	0,7	2	W1604584IM	
W1800458	6	1	5	45	1,5	2	W1604585IM	
W1800456	6	1,5	12	50	2,3	2	48252112IM	
W1800459	6	1,5	16	50	2,3	2	W1601161IM	

CORNER RADIUS FOR PMMA, WAX & METAL

WXL-CPR IM & WXS-CPR IM



WXL CARBIDE

Shank diameter 6 mm

EDP	d	D	R	l1	L	l	ZΔ	Old EDP	€ Price
W1800460	6	1,5	0,2	12	50	1,2	2	48250112IM	
W1800461	6	1,5	0,2	15	50	1,2	2	48250115IM	

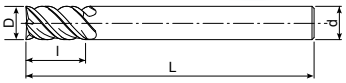
WXS CARBIDE

Shank diameter 6 mm

EDP	d	D	R	l1	L	l	ZΔ	Old EDP	€ Price
W1800462	6	1	0,2	8	50	0,8	2	48253108IM	

SQUARE FOR PMMA, WAX & METAL

WXS-EMS IM



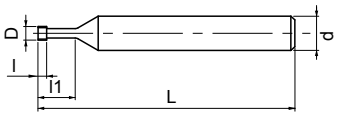
WXS CARBIDE

Shank diameter 6 mm

EDP	d	D	L	l	ZΔ	Old EDP	€ Price
W1800466	6	2	50	6	4	W1703577IM	

THREAD MILLS

WH-VM-PNC IM

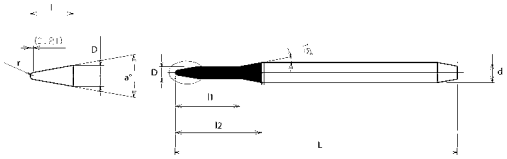


M | CARBIDE | SC | WXS | 11° | h6

EDP	Thread	Min. Cutting bore dia.	d	D	R	l1	L	l	P	ZΔ	Old EDP	€ Price
T1801740	M	M2	6	1,5	0,2	4,4	40	1,2	0,4	3	3900500IM	

FOR GLASS CERAMICS

ED-ES IM (Conical)

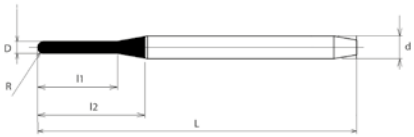


Shank diameter 6 mm

EDP	d	D	l1	L	l	l2	R	α	€ Price
P1701145IM	6	1,7	6	50	3,6	11	0,25	15	

FOR GLASS CERAMICS

ED-BS IM (Ball)

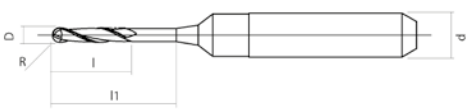


Shank diameter 6mm

EDP	d	D	R	l1	l2	L	€ Price
P1701144IM	6	1	0,5	10	12	45	
P1701142IM	6	1,5	0,75	10	11	45	
P1701143IM	6	2,5	1,25	14,75	15	45	

BALL NOSE FOR PEEK, WAX & PMMA

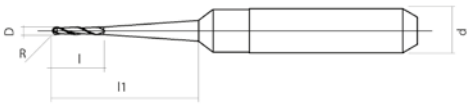
WXL-LN-EBD ZI & WXL-PC-EBD ZI



WXL CARBIDE

Shank diameter 6 mm

EDP	d	D	R	l1	l	€ Price
W1702328	6	2	1	17	10	

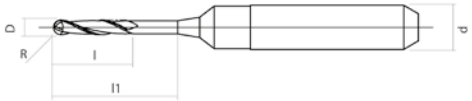


Shank diameter 6 mm

EDP	d	D	R	l1	l	€ Price
W1702329	6	1	0,5	12	6	

BALL NOSE FOR ZIRCONIUM & PEEK

DIA-LN-EBD ZI



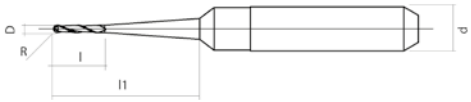
DIA CARBIDE

Shank diameter 6 mm

EDP	d	D	R	l1	l	€ Price
W1702755	6	2	1	18	10	
W1702756	6	1	0,5	12	6	

SQUARE FOR GENERAL USE

WXL-LN-CPR ZI & WXL-LN-EDS ZI



WXL CARBIDE

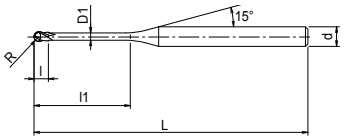
Shank diameter 6 mm

EDP	d	D	R	l1	l	€ Price
W1702330	6	1,5	0,05	17,5	5	

EDP	d	D	R	l1	l	€ Price
W1702331	6	0,6	0	7	3	

BALL NOSE FOR PMMA & WAX

S1 / S2 / K5 MODEL | WXL-LN-EBD VH



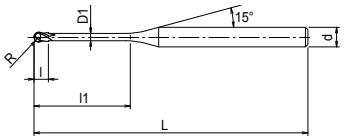
WXL CARBIDE

Shank diameter 3 mm

EDP	d	D	R	l1	L	l	D1	ZΔ	€ Price
W1604588	3	0,6	0,3	6	40	0,5	0,55	2	
W1604589	3	1	0,5	12	40	0,8	0,95	2	
W1604590	3	2	1	16	40	1,6	1,95	2	

BALL NOSE FOR ZIRCONIUM & PEEK

S1 / S2 / K5 MODEL | DLC-LN-EBD VH



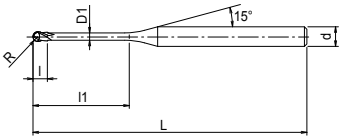
WXL CARBIDE

Shank diameter 3 mm

EDP	d	D	R	l1	L	l	D1	ZΔ	€ Price
W1604645	3	0,6	0,3	6	40	0,6	0,55	2	
W1604591	3	1	0,5	12	40	0,8	0,95	2	
W1604592	3	2	1	16	40	1,6	1,95	2	

BALL NOSE FOR ZIRCONIUM & COMPOSITE

DIA-LN-EBD SI



DIA

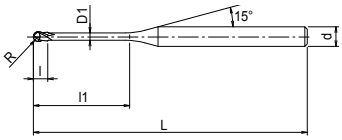
CARBIDE

Shank diameter 3 mm

EDP	d	D1	R	l1	L	l	ZΔ	Old EDP	€ Price
W1702589	3	2,5	1,25	23	44	5	2	W1604915A	
W1702590	3	1	0,5	16	43	3	2	W1604916A	
W1702591	3	0,5	0,25	5	42	1	2	W1604917A	

BALL NOSE FOR PMMA, WAX & PEEK

WXL-LN-EBD AG



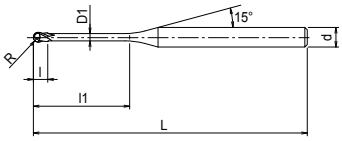
WXL CARBIDE

Shank diameter 3 mm

EDP	d	D	R	l1	L	l	ZΔ	€ Price
W1701698	3	1	0,5	17,5	47	2		
W1701699	3	2,5	1,25	19	47	5		

BALL NOSE FOR ZIRCONIUM & COMPOSITE

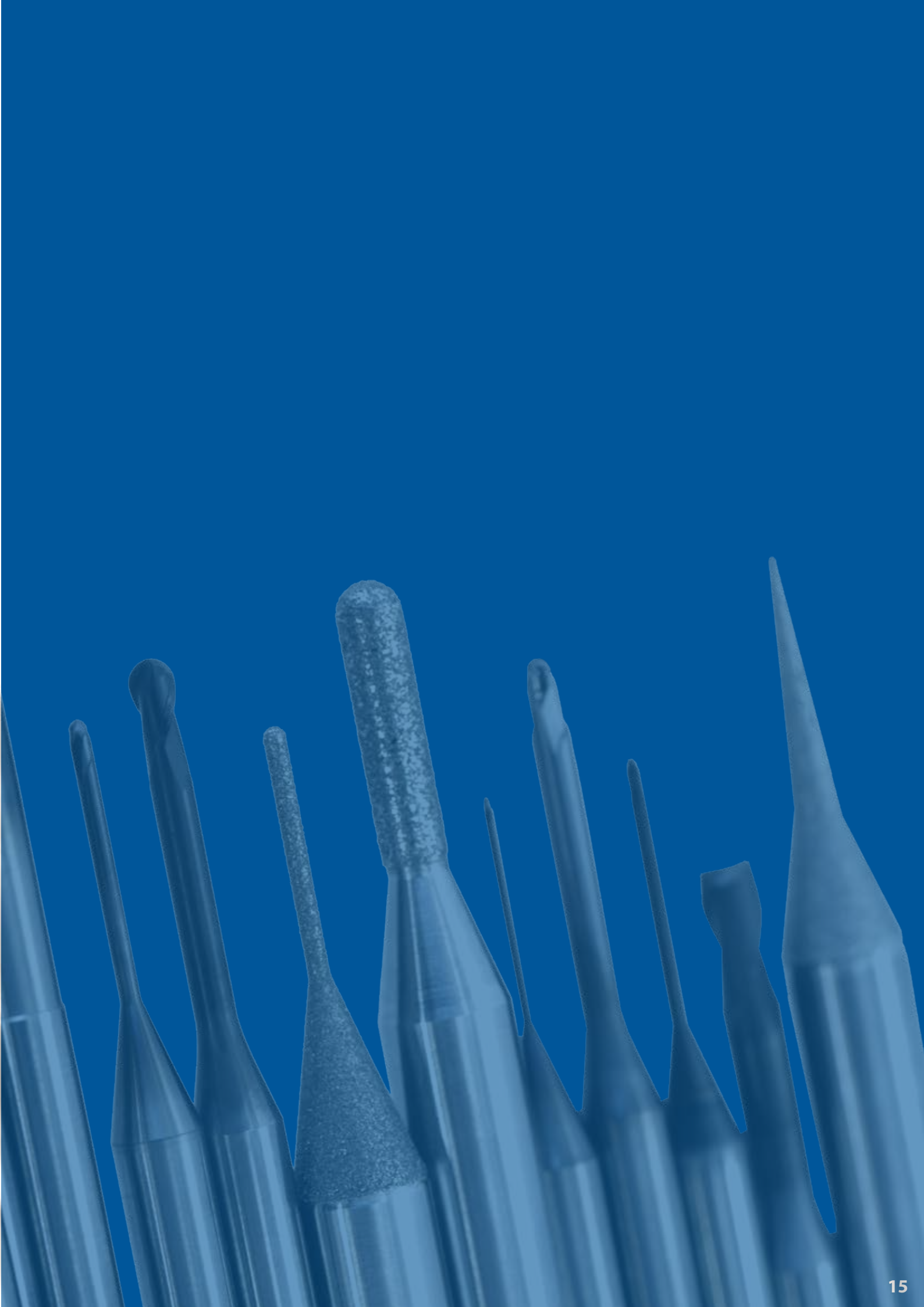
DIA-LN-EBD AG



WXL CARBIDE

Shank diameter 3 mm

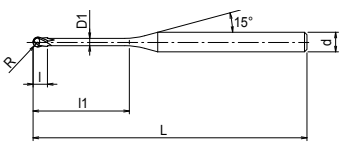
EDP	d	D	R	l1	L	l	ZΔ	€ Price
W1604840	3	0,6	0,3	12	47	1		
W1604841	3	1	0,5	16	47	3		
W1604842	3	2,5	1,25	18	47	2		



WXL-LN-EBD

Ball nose for general purpose

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Datron, Venture, Wissner and others.



Shank diameter 3 mm

EDP	d	D	R	l1	L	l	d1	ZΔ	€ Price
W1603333	3	1	0,5	16	50	0,8	0,95	2	
W1603334	3	2	1	20	50	1,6	1,95	2	
W1603335	3	0,6	0,3	6	45	0,5	0,55	2	

Shank diameter 4 mm

EDP	d	D	R	l1	L	l	d1	ZΔ	Old EDP	€ Price
3110525	4	0,5	0,25	2,5	45	0,4	0,45	2		
3110660	4	0,6	0,3	6,0	45	0,5	0,55	2		
3110680	4	0,6	0,3	8,0	50	0,5	0,55	2		
3110700	4	0,6	0,3	10,0	45	0,5	0,55	2		
3111080	4	1,0	0,5	8,0	45	0,8	0,95	2		
3111100	4	1,0	0,5	10,0	45	0,8	0,95	2		
3111112	4	1,0	0,5	12,0	45	0,8	0,95	2		
3111114	4	1,0	0,5	14,0	50	0,8	0,95	2		
3111116	4	1,0	0,5	16,0	50	0,8	0,95	2	W1503335	
3111118	4	1,0	0,5	18,0	55	0,8	0,95	2		
3111120	4	1,0	0,5	20,0	55	0,8	0,95	2		
3112112	4	2,0	1	12,0	45	1,6	1,95	2		
3112114	4	2,0	1	14,0	50	1,6	1,95	2		
3112116	4	2,0	1	16,0	50	1,6	1,95	2		
48251220	4	2,0	1	20,0	50	1,6	1,95	2	W1503334	
3112615	4	2,5	1,25	15,0	55	2,0	2,35	2		
3112620	4	2,5	1,25	20,0	60	2	2,35	2		

Shank diameter 6 mm

EDP	d	D	R	l1	L	l	d1	ZΔ	Old EDP	€ Price
3120625	6	0,6	0,3	2,5	50	0,5	0,55	2		
48251008	6	0,6	0,3	8,0	50	0,5	0,55	2	W1502458	
3121080	6	1,0	0,5	8,0	50	0,8	0,95	2		
3121100	6	1,0	0,5	10,0	50	0,8	0,95	2		
3121112	6	1,0	0,5	12,0	60	0,8	0,95	2		
3121116	6	1,0	0,5	16,0	60	0,8	0,95	2		
48251116	6	1,0	0,5	16,0	50	0,8	0,95	2	W1502457	
3121580	6	1,5	0,75	8,0	50	1,2	1,45	2		
3121600	6	1,5	0,75	10,0	50	1,2	1,45	2		
3121612	6	1,5	0,75	12,0	50	1,2	1,45	2		
3122100	6	2,0	1	10,0	50	1,6	1,95	2		
3122112	6	2,0	1	12,0	50	1,6	1,95	2		
3122116	6	2,0	1	16,0	60	1,6	1,95	2		
48251221	6	2,0	1	20,0	50	1,6	1,95	2	W1502456	
W1703576	6	3,0	1,5	12,0	50	2,4	2,85	2		
3123112	6	3,0	1,5	12,0	55	2,4	2,85	2		
3123116	6	3,0	1,5	16,0	55	2,4	2,85	2		

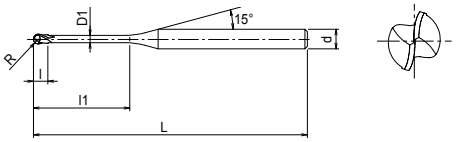
Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
◎	◎	○	◎	○		

◎ Best ○ Good

DLC-LN-EBD

Ball nose for PEEK & PMMA

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



CARBIDE | 30° | SHRINK FIT | R ± 0.01 | PAGE 35

Shank diameter 4 mm

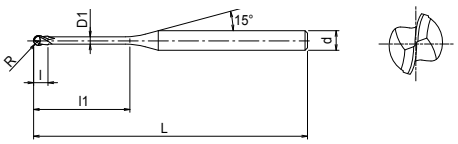
EDP	d	D	R	l1	L	l	D1	ZΔ	€ Price
W1604644	4	0,6	0,3	6	50	0,5	0,55	2	
W1604586	4	1	0,5	16	50	0,8	0,95	2	
W1604587	4	2	1	20	50	1,6	1,95	2	

Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / Composite	Glass Ceramics
		○	◎	◎		

WXS-LN-EBD

Ball nose for hardened material

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wissner and others.



CARBIDE | WXS | 30° | SHRINK FIT | R ± 0.005

Shank diameter 4 mm

EDP	d	D	R	l1	L	l	d1	ZΔ	€ Price
3051008	4	1,0	0,5	8,0	45	0,8	0,95	2	
3051010	4	1,0	0,5	10,0	45	0,8	0,95	2	
3051012	4	1,0	0,5	12,0	45	0,8	0,95	2	
3051016	4	1,0	0,5	16,0	50	0,8	0,95	2	
3051510	4	1,5	0,75	10,0	45	1,2	1,45	2	
3051512	4	1,5	0,75	12,0	45	1,2	1,45	2	
3051516	4	1,5	0,75	16,0	45	1,2	1,95	2	
3052012	4	2,0	1	12,0	45	1,6	1,95	2	
3052016	4	2,0	1	16,0	50	1,6	2,35	2	
3052020	4	2,0	1	20,0	55	1,6	2,85	2	

Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
◎	○	○	○			

◎ Best ○ Good

TECHNICAL DATA

OSG's patented diamond coating performance overview

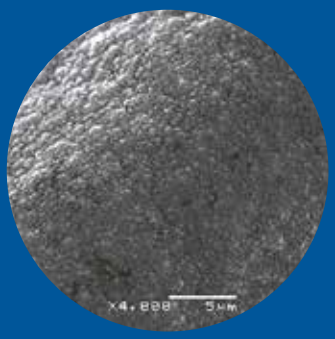
OSG DIAMOND COATING

OSG's proprietary diamond coating is composed of ultra-fi ne diamond crystals and is ideal for common dental materials such as PMMA, zirconium and hybrid resin.

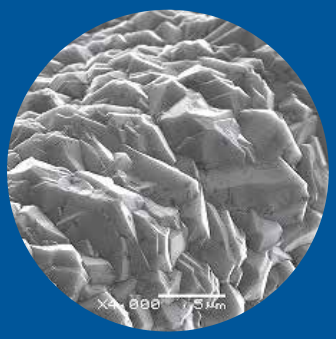
Features & Benefits of DG and DIA coating

- **Smooth Surface**
  Results in better work surface.
- **Sharp Cutting Edge**
  Prevents delamination.
- **Multi-Layer Structure & Special Treatment**
  Increase toughness and adhesion to prolong tool life.

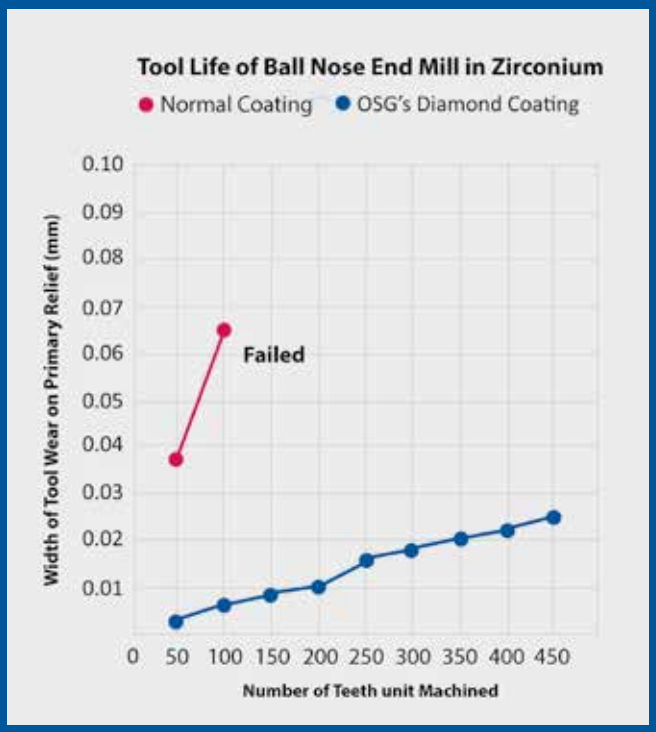
Comparison of Diamond Coating Surface



OSG's Diamond Coating



Competitor's Diamond Coating

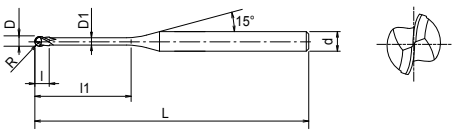


In this test, OSG's patented diamond coating was able to achieve three times the tool life versus the TiAlN coating in zirconium, which is a popular dental prosthetics manufacturing material.

DG-LN-EBD

Ball nose for Zirconium & Composite

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



CARBIDE | DG | 30° | SHRINK FIT | R ± 0.01 0,5≤R | R ± 0.008 0,5>R | PAGE 34

Shank diameter 3 mm

EDP	d	D	R	l1	L	l	D1	ZΔ	€ Price
48249140	3	1	0,5	10	45	1,5	0,93	2	
48249246	3	2	1	16	45	3	1,9	2	
W1603980	3	1	0,5	16	45	1,5	0,93	2	
48249250	3	2	1	20	45	3	1,90	2	

Shank diameter 4 mm

EDP	d	D	R	l1	L	l	D1	ZΔ	Old EDP	€ Price
8553711	4	0,6	0,3	6	50	0,9	0,56	2	W1502461	
8553712	4	0,6	0,3	10	50	0,9	0,56	2		
8553723	4	1	0,5	10	50	1,5	0,96	2		
8553724	4	1	0,5	16	60	1,5	0,96	2		
8553725	4	1	0,5	20	60	1,5	0,96	2		
48249116	4	1	0,5	16	50	1,5	0,93	2	W1502460	
8553732	4	1,5	0,75	16	50	2,3	1,44	2		
8553733	4	1,5	0,75	16	60	2,3	1,44	2		
8553743	4	2	1	16	60	3	1,9	2		
8553744	4	2	1	20	60	3	1,9	2		
48249220	4	2	1	20	50	3	1,87	2	W1502459	

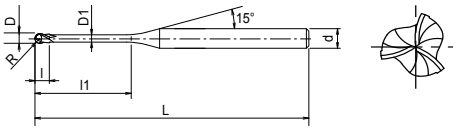
Shank diameter 6 mm

EDP	d	D	R	l1	L	l	D1	ZΔ	€ Price
48249068	6	0,6	0,3	8	50	0,5	0,55	2	
48249170	6	1	0,5	10	50	0,8	0,95	2	
48249272	6	2	1	12	50	3	1,87	2	
W1602615	6	1	0,5	16	50	1,5	0,93	2	
W1602616	6	2	1	20	50	3	1,87	2	

DG-LN-EBT

Ball nose for Zirconium & Composite

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



CARBIDE | WXS | 30° | SHRINK FIT | R ± 0.005

Shank diameter 3 mm

EDP	d	D	R	l1	L	l	D1	ZΔ	€ Price
W1601320	3	2	1	20	50	3	1,87	3	

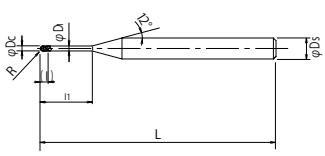
Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
		◎			◎	

◎ Best ○ Good

PHX-LN-DBT

Ball nose for high productivity

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



CARBIDE | WXS | 45° | SHRINK FIT | ± 0.007

Shank diameter 4 mm

EDP	d	D	R	l1	L	l	D1	ZΔ	€ Price
3194901	4	0,6	0,3	1	50	0,45	0,55	3	
3194902	4	0,6	0,3	2	50	0,45	0,55	3	
3194903	4	0,6	0,3	3	50	0,45	0,55	3	
3194904	4	0,6	0,3	4	50	0,45	0,55	3	
3194906	4	0,6	0,3	6	50	0,45	0,55	3	
W1504436	4	0,8	0,4	1	50	0,6	0,75	3	
W1504437	4	0,8	0,4	2	50	0,6	0,75	3	
W1504438	4	0,8	0,4	3	50	0,6	0,75	3	
W1504439	4	0,8	0,4	4	50	0,6	0,75	3	
W1504440	4	0,8	0,4	6	50	0,6	0,75	3	
3195004	4	1	0,5	4	50	0,75	0,95	3	
3195006	4	1	0,5	6	50	0,75	0,95	3	
3195008	4	1	0,5	8	50	0,75	0,95	3	
3195010	4	1	0,5	10	50	0,75	0,95	3	
3195012	4	1	0,5	12	50	0,75	0,95	3	
3195014	4	1	0,5	14	50	0,75	0,95	3	
3195016	4	1	0,5	16	50	0,75	0,95	3	
3195106	4	1,5	0,75	6	50	1,13	1,45	3	
3195108	4	1,5	0,75	8	50	1,13	1,45	3	
3195110	4	1,5	0,75	10	50	1,13	1,45	3	
3195112	4	1,5	0,75	12	50	1,13	1,45	3	
3195116	4	1,5	0,75	16	50	1,13	1,45	3	
3195206	4	2	1	6	50	1,5	1,95	3	
3195208	4	2	1	8	50	1,5	1,95	3	
3195210	4	2	1	10	50	1,5	1,95	3	
3195212	4	2	1	12	50	1,5	1,95	3	
3195214	4	2	1	14	50	1,5	1,95	3	
3195216	4	2	1	16	50	1,5	1,95	3	
3195218	4	2	1	18	60	1,5	1,95	3	
3195220	4	2	1	20	60	1,5	1,95	3	
3195222	4	2	1	22	60	1,5	1,95	3	
3195312	4	3	1,5	12	60	2,25	2,85	3	
3195316	4	3	1,5	16	60	2,25	2,85	3	
3195320	4	3	1,5	20	60	2,25	2,85	3	
3195325	4	3	1,5	25	60	2,25	2,85	3	
3195416	4	4	2	16	60	3	3,85	3	
3195420	4	4	2	20	60	3	3,85	3	
3195425	4	4	2	25	60	3	3,85	3	

Shank diameter 6 mm

EDP	d	D	R	l1	l2	L	l	d1	ZΔ	€ Price
3195520	6	6	3	20	-	60	4,5	5,85	3	
3195530	6	6	3	30	-	60	4,5	5,85	3	

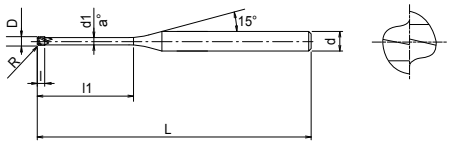
Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
◎	◎					

◎ Best ○ Good

WXL-CPR

Corner radius for general purpose

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Datron, Venture, Wissner and others.



CARBIDE | 30° | SHRINK FIT | R ± 0.005 | 0–+0.0015 | PAGE 33

Shank diameter 6 mm

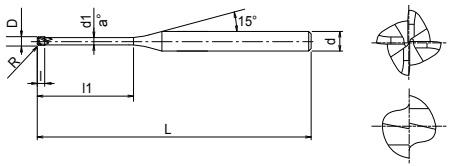
EDP	d	D	R	l1	L	l	d1	ZΔ	Old EDP	€ Price
48250112	6	1,5	0,2	12,0	50	1,2	1,43	2	W1503331	
48250115	6	1,5	0,2	15,0	50	1,2	1,43	2	W1601160	

Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
◎	◎	○	◎	○		

WXS-CPR

Corner radius for hardened material

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



CARBIDE | 30° | SHRINK FIT | R ± 0.005 | 0–+0.0015 | PAGE 33

Shank diameter 4 mm

EDP	d	D	R	l1	L	l	d1	ZΔ	€ Price
3100405	4	0,4	0,05	4,0	50	0,3	0,37	2	
3101013	4	1,0	0,2	8,0	50	0,8	0,95	2	
3101014	4	1,0	0,2	10,0	50	0,8	0,95	2	
3101015	4	1,0	0,2	12,0	50	0,8	0,95	2	
3101022	4	1,0	0,3	12,0	50	0,8	0,95	2	
3101504	4	1,5	0,2	12,0	50	1,2	1,45	2	
3101505	4	1,5	0,2	16,0	50	1,2	1,45	2	
3101510	4	1,5	0,3	16,0	50	1,2	1,45	2	
3102010	4	2,0	0,2	16,0	60	1,6	1,95	2	
3102022	4	2,0	0,5	16,0	60	1,6	1,95	2	
3102023	4	2,0	0,5	20,0	60	1,6	1,95	2	

Shank diameter 6 mm

EDP	d	D	R	l1	L	l	d1	ZΔ	Old EDP	€ Price
48253108	6	1,0	0,2	8,0	50	0,8	0,94	2	W1502465	
W1502464	6	1,5	0,2	10,0	50	1,2	-	2		
3103015	6	3,0	0,5	16,0	60	2,5	2,85	2		
3103027	6	3,0	0,5	20,0	60	2,5	2,85	2		

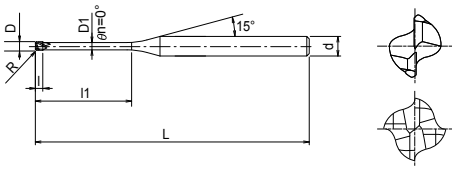
Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
◎	○	○	○			

◎ Best ○ Good

DG-CPR

Corner radius for Zirconium & Composite

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



CARBIDE | DG | 30° | SHRINK FIT | R ± 0.01 | D<1 0~-0.02 | D≥1 0~-0.027 | PAGE 34

Shank diameter 4 mm

EDP	d	D	R	l1	L	l	d1	ZΔ	€ Price
8554511	4	0,5	0,1	4	50	0,9	0,46	2	
8554512	4	0,5	0,1	6	50	0,9	0,46	2	
48103001	4	1	0,1	10	50	1,5	0,96	2	
8554542	4	2	0,2	10	60	3	1,9	2	
8554544	4	2	0,2	20	70	3	1,9	2	

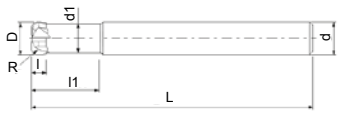
Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
		◎			◎	

◎ Best ○ Good

WXS-CRE

Corner radius for roughing of metal material

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



Shank diameter 6 mm

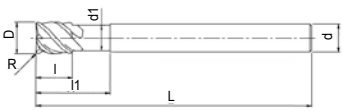
EDP	d	D	R	l1	L	l	d1	ZΔ	Old EDP	€ Price
48106421	6	2,0	0,5	8,0	50	0,8	1,80	4		
48254212	6	2,0	0,5	12,0	50	0,8	1,80	4	W1502463	
48254316	6	3,0	0,75	16,0	50	1,3	2,70	5	W1502462	
48106433	6	3,0	0,75	12,0	55	1,2	2,70	5		
48106445	6	4,0	1	12,0	55	1,6	3,60	5		

Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
◎	○					

FXS-PKE

Corner radius for Titanium

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



Shank diameter 6 mm

EDP	d	D	R	l1	L	l	d1	ZΔ	€ Price
8548003	6	3,0	0,5	9,0	60	5,0	2,85	4	
8548053	6	3,0	0,5	15	70	5,0	2,85	4	

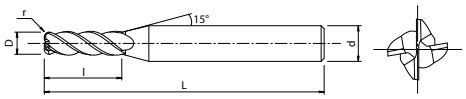
Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
○	◎		○	○		

◎ Best ○ Good

AE-VMS

Square 4 flutes

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



CARBIDE | DUR | 37°~40° | SHRINK FIT | 0~-0.02

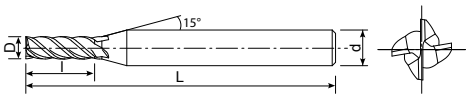
Shank diameter 6 mm

EDP	d	D	R	L	l	€ Price
8555830	6	3	-	60	8	
8556050	6	3	0,2	60	8	
8556060	6	3	0,5	60	8	
8555840	6	4	-	60	11	
8556070	6	4	0,2	60	11	
8556080	6	4	0,5	60	11	
8556090	6	4	1	60	11	

AE-VMSS

Square 4 flutes, short type

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



CARBIDE | DUR | 37°~40° | SHRINK FIT | 0~-0.02

Shank diameter 6 mm

EDP	d	D	L	l	€ Price
8556430	6	3	45	4,5	
8556435	6	3,5	45	5,3	
8556440	6	4	45	6	

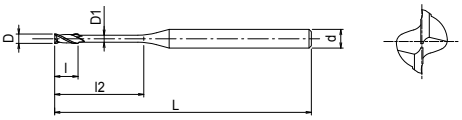
Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
◎	○					

◎ Best ○ Good

WXL-LN-EDS

Square 2 flutes long neck

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



CARBIDE | WXL | 30° | 0→+0.0015 | Ø2<D | PAGE 34

Shank diameter 4 mm

EDP	d	D	l2	L	l	d1	ZΔ	€ Price
3131308	4	0,3	4	45	0,5	0,28	2	
3131408	4	0,4	4	45	0,6	0,37	2	
3131504	4	0,5	4	45	0,7	0,45	2	
3131604	4	0,6	4	45	0,9	0,55	2	
3131606	4	0,6	6	45	0,9	0,55	2	
3131610	4	0,6	10	45	0,9	0,55	2	
3132010	4	1,0	10	45	1,5	0,95	2	
3132012	4	1,0	12	45	1,5	0,95	2	
3132014	4	1,0	14	50	1,5	0,95	2	
3132016	4	1,0	16	50	1,5	0,95	2	
3132018	4	1,0	18	55	1,5	0,95	2	
3132020	4	1,0	20	55	1,5	0,95	2	
3132510	4	1,5	10	55	1,5	0,95	2	
3132512	4	1,5	12	45	2,3	1,45	2	
3132514	4	1,5	14	50	2,3	1,45	2	
3132516	4	1,5	16	50	2,3	1,45	2	
3132518	4	1,5	18	55	2,3	1,45	2	
3133010	4	2,0	10	45	3,0	1,95	2	
3133016	4	2,0	16	50	3,0	1,95	2	
3133020	4	2,0	20	55	3,0	1,95	2	

Shank diameter 6 mm

EDP	d	D	l2	L	l	D1	ZΔ	Old EDP	€ Price
48252112	6	1,5	12	50	2,3	1,45	2	W1503333	
W1604584	6	0,5	4	45	0,7	0,45	2		
W1604585	6	1	5	45	1,5	0,95	2		
W1601161	6	1,5	16	50	2,3	1,45	2		

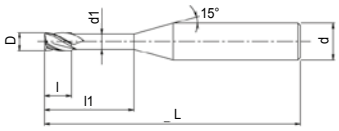
Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
○	○	○	○	○		

◎ Best ○ Good

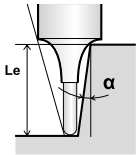
WXL-LN-EMS-6

Square 4 flutes long neck

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



No numerical value means no interference with workpiece



CARBIDE | WXL | 30° | SHRINK FIT | HIGH SPEED | D≤12 | 0~-0.015

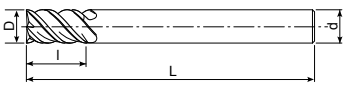
Shank diameter 6 mm

EDP	d	D	l1	L	l	D1	ZΔ	Le (a)						€ Price
								0,5°	1°	1,5°	2°	2,5°	3°	
48142010	6	1	5	60	1,5	0,95	4	5,16	5,34	5,54	5,74	5,97	6,21	

WXS-EMS

Square 4 flutes short type

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



CARBIDE | WXS | 45° | SHRINK FIT | 0~-0.02

Shank diameter 6 mm

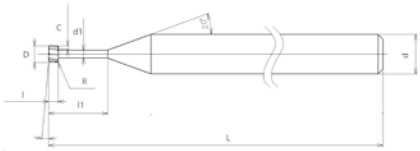
EDP	d	D	L	l	ZΔ	€ Price
3041010	6	1	60	2,5	4	
3041020	6	2	60	6	4	
W1703577	6	2	50	6	4	

Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
○	○	○	○	○		

◎ Best ○ Good

FX-MG-TSC

T-slot for undercut



Shank diameter 4 mm

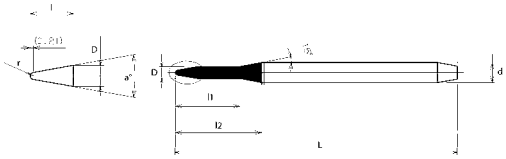
EDP	d	D	l1	L	l	d1	C	ZΔ	€ Price
W1700835	4	1,4	6	50	1	0,28	0,3	2	
W1701727	4	1,6	6	50	1,5	0,37	0,25	2	

Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
○	○	○	○	○		

ED-ES (Conical)

Diamond grinding burs

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



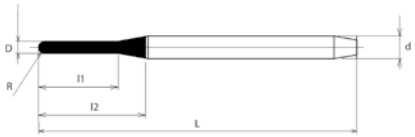
Shank diameter 4-6 mm

EDP	d	D	l1	L	l	l2	R	α	€ Price
P1500979	4	1,7	6	50	3,6	13	0,25	20	
P1701145	6	1,7	6	50	3,6	11	0,25	15	

ED-BS (Ball)

Diamond grinding burs

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



Shank diameter 3mm

EDP	d	D	R	l1	l2	L	€ Price
P1701082	3	1	0,5	10	15	40	

Shank diameter 4mm

EDP	d	D	R	l1	l2	L	€ Price
P1500978	4	1	0,5	6	11	40	
P1500977	4	2,5	1,25	14,75	17	40	

Shank diameter 6mm

EDP	d	D	R	l1	l2	L	€ Price
P1701144	6	1	0,5	10	12	45	
P1701142	6	1,5	0,75	10	11	45	
P1701143	6	2,5	1,25	14,75	15	45	

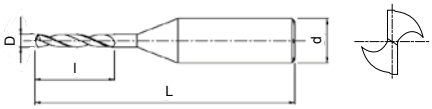
Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
					○	◎

◎ Best ○ Good

WX-MS-GDS

Stub length

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



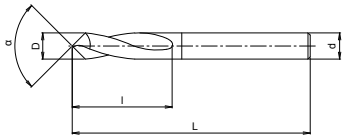
Shank diameter 3mm

EDP	d	D	L	l	€ Price
3300050	3	0,5	38	3	
3300060	3	0,6	38	3,5	
3300070	3	0,7	38	4,5	
3300080	3	0,8	38	5	
3300090	3	0,9	38	5,5	
3300095	3	0,95	38	5,5	
3300100	3	1	38	6	
3300110	3	1,1	42	7	
3300111	3	1,11	42	7	
3300112	3	1,12	42	7	
3300120	3	1,2	42	8	
3300125	3	1,25	42	8	
3300127	3	1,27	42	8	
3300128	3	1,28	42	8	
3300129	3	1,29	42	8	
3300130	3	1,3	42	8	
3300140	3	1,4	42	9	
3300144	3	1,44	42	9	
3300145	3	1,45	42	9	
3300146	3	1,46	42	9	
3300147	3	1,47	42	9	
3300148	3	1,48	42	9	
3300150	3	1,5	42	9	
3300154	3	1,54	42	10	
3300155	3	1,55	42	10	
3300156	3	1,56	42	10	
3300157	3	1,57	42	10	
3300158	3	1,58	42	10	
3300160	3	1,6	42	10	
3300170	3	1,7	42	10	
3300180	3	1,8	42	11	
3300181	3	1,81	42	11	
3300182	3	1,82	42	11	
3300183	3	1,83	42	11	
3300184	3	1,84	42	11	
3300185	3	1,85	42	11	
3300190	3	1,9	42	11	
3300200	3	2	50	12	
3300210	3	2,1	50	12	
3300220	3	2,2	50	13	
3300230	3	2,3	50	13	
3300240	3	2,4	50	14	
3300250	3	2,5	50	14	
3300260	3	2,6	50	14	
3300270	3	2,7	50	16	
3300280	3	2,8	50	16	
3300290	3	2,9	50	16	
3300300	3	3	50	16	

FX-LDS

Spot drill

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



Shank diameter 3mm

EDP	d	D	L	l	€ Price
8561503	3	3	48	9	

Shank diameter 4mm

EDP	d	D	L	l	€ Price
8561504	4	4	54	12	

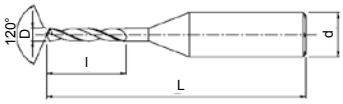
Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
◎	◎	○	○	○		

◎ Best ○ Good

MRS-GDL

Deep length

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.



Shank diameter 3mm

EDP	d	D	L	l	€ Price
8577100	3	1	46	12	
8577110	3	1,1	50	13,2	
8577111	3	1,11	50	13,8	
8577112	3	1,12	50	13,8	
8577115	3	1,15	50	13,8	
8577120	3	1,2	50	14,4	
8577127	3	1,27	50	15,6	
8577128	3	1,28	50	15,6	
8577129	3	1,29	50	15,6	
8577130	3	1,3	50	15,6	
8577140	3	1,4	54	16,8	
8577145	3	1,45	54	17,4	
8577146	3	1,46	54	18	
8577147	3	1,47	54	18	
8577150	3	1,5	54	18	
8577151	3	1,51	54	18,6	
8577152	3	1,52	54	18,6	
8577153	3	1,53	54	18,6	
8577155	3	1,55	54	18,6	
8577156	3	1,56	54	19,2	
8577157	3	1,57	54	19,2	
8577160	3	1,6	54	19,2	
8577170	3	1,7	58	20,4	
8577180	3	1,8	58	21,6	
8577181	3	1,81	58	22,2	
8577182	3	1,82	58	22,2	
8577183	3	1,83	58	22,2	
8577190	3	1,9	58	22,8	
8577198	3	1,98	58	24	
8577199	3	1,99	58	24	
8577200	3	2	58	24	
8577210	3	2,1	62	25,2	
8577212	3	2,12	62	25,8	
8577213	3	2,13	62	25,8	
8577214	3	2,14	62	25,8	
8577220	3	2,2	62	26,4	
8577229	3	2,29	62	27,6	
8577230	3	2,3	62	27,6	
8577231	3	2,31	62	28,2	
8577239	3	2,39	62	28,8	
8577240	3	2,4	62	28,8	
8577241	3	2,41	66	29,4	
8577242	3	2,42	66	29,4	
8577250	3	2,5	66	30	
8577255	3	2,55	66	30,6	
8577256	3	2,56	66	31,2	
8577257	3	2,57	66	31,2	
8577260	3	2,6	66	31,2	
8577270	3	2,7	66	32,4	
8577277	3	2,77	66	33,6	
8577278	3	2,78	66	33,6	
8577279	3	2,79	66	33,6	
8577280	3	2,8	66	33,6	
8577290	3	2,9	66	34,8	
8577300	3	3	66	36	

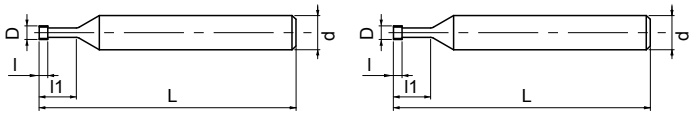
Cobalt Chrome	Titanium	Zirconium	Wax/PMMA	PEEK	Hybrid ceramic / composite	Glass Ceramics
◎	◎	○	○	○		

◎ Best ○ Good

WH-VM-PNC

Thread mill

Machine type: milling centre



M | CARBIDE | SC | WXS | 11° | h6

Shank diameter 3mm

EDP	Thread	Min. Cutting bore dia.	d	D	l1	L	l	P	ZΔ	€ Price
3900495	M	M1	3	0,72	2,75	40	0,25	0,25	3	
3900496	M	M1,2	3	0,92	3,25	40	0,25	0,25	3	
3900497	M	M1,4	3	1,05	3,8	40	0,3	0,3	3	
3900498	M	M1,6	3	1,2	4,35	40	0,35	0,35	3	
3900499	M	M1,7 ~ M1,8	3	1,3	4,85	40	0,35	0,35	3	

Shank diameter 6mm

EDP	Thread	Min. Cutting bore dia.	d	D	R	l1	L	l	P	ZΔ	€ Price
3900500	M	M2	6	1,5	0,2	4,4	40	1,2	0,4	3	

Work Material	Tappering Speed (m/min)	Feed (mm/tooth)
Titanium Alloys Ti-6AL-4V	20~60	0,01~0,03

TOOL SELECTION SUGGESTION

Bridge | Crown

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.

Tool Shape	EDP	ZΔ	D	R	l1	L	l	d	d1	θk	€ Price
Corner radius endmill	W1502462	5	3	0,75	16	50	1,3	6	2,7	-	
Corner radius endmill	48254212	4	2	0,5	12	50	0,8	6	1,8	-	
Ball nose endmill	3122100	2	2	1	10	50	1,6	6	1,95	6,73	
Corner radius endmill	W1502464	4	1,5	0,2	10	50	1,2	6	1,43	-	
Corner radius endmill	48253108	2	1	0,2	8	50	0,8	6	0,94	-	
Ball nose endmill	3121600	2	1,5	0,75	10	50	1,2	6	1,45	7,21	
Ball nose endmill	3121100	2	1	0,5	10	50	0,8	6	0,95	7,55	
Ball nose endmill	48251008	2	0,6	0,3	8	50	0,5	6	0,55	-	
Corner radius endmill	48106433	5	3	0,75	12	55	1,2	6	2,7	-	
Corner radius endmill	8548003	4	3	0,5	9	60	5	6	2,85	-	

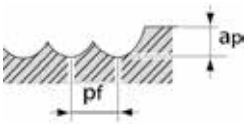
Set Abatment | Implant Part

Machine type: DMG, Imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and others.

Tool Shape	EDP	ZΔ	D	R	l1	L	l	d	d1	θk	€ Price
Corner radius endmill	W1502462	5	3	0,75	16	50	1,3	6	2,7	-	
Corner radius endmill	48254212	4	2	0,5	12	50	0,8	6	1,8	-	
Hole making	48250112	2	1,5	0,2	12	50	1,2	6	1,43	-	
Ball nose endmill	3121600	2	1,5	0,75	10	50	1,2	6	1,45	7,21	
Corner radius endmill	48253108	2	1	0,2	8	50	0,8	6	0,94	-	
Square endmill	3041020	4	2	-	6	60	-	6	-	-	
Square endmill	48252112	2	1,5	-	12	50	2,3	6	1,45	-	
Square endmill	W1604585	4	1	-	5	60	1,5	6	0,95	-	
Corner radius endmill	48250115	2	1,5	0,2	15	50	1,2	6	1,43	-	
Square endmill	W1601161	2	1,5	3	16	50	2,3	6	1,45	-	
Square endmill	W1604584	2	0,5	-	4	60	0,7	6	0,45	-	

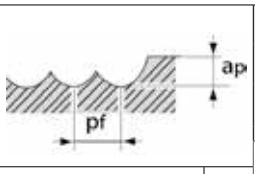
CONDITIONS

WXL-LN-EBD



Ø	EDP	l1	Titanium							
			Small desktop machine				Fast milling center			
			S (min⁻¹)	F (mm/min.)	ap	pf	S (min⁻¹)	F (mm/min.)	ap	pf
0,6	W1603333	6	29200	280	0,03	0,18	37900	430	0,03	0,18
1	W1603334	16	29200	550	0,05	0,3	37900	860	0,05	0,3
2	W1603335	20	18300	690	0,1	0,6	23700	1080	0,1	0,6
0,5	3110525	2,5	32200	300	0,03	0,15	41800	470	0,03	0,15
0,6	3110660	6	29200	330	0,03	0,18	37900	520	0,03	0,18
0,6	3110700	10	29200	330	0,03	0,18	37900	520	0,03	0,18
1	3111070	7	29200	740	0,05	0,3	37900	1150	0,05	0,3
1	3111112	12	29200	740	0,05	0,3	37900	1150	0,05	0,3
1	3111114	14	29200	740	0,05	0,3	37900	1150	0,05	0,3
1	3111116	16	29200	740	0,05	0,3	37900	1150	0,05	0,3
1	3111118	18	29200	740	0,05	0,3	37900	1150	0,05	0,3
1	3111120	20	29200	740	0,05	0,3	37900	1150	0,05	0,3
1,5	3111612	12	23600	890	0,08	0,45	30600	1390	0,08	0,45
2	3112112	12	18300	920	0,1	0,6	23700	1430	0,1	0,6
2	3112114	14	18300	920	0,1	0,6	23700	1430	0,1	0,6
2	3112116	16	18300	920	0,1	0,6	23700	1430	0,1	0,6
2	48251220	20	18300	920	0,1	0,6	23700	1430	0,1	0,6
2,5	3112615	15	14300	900	0,13	0,75	18500	1400	0,13	0,75
0,6	3120625	2,5	29200	330	0,03	0,18	37900	520	0,03	0,18
0,6	48251008	8	29200	330	0,03	0,18	37900	520	0,03	0,18
1	3121080	8	29200	740	0,05	0,3	37900	1150	0,05	0,3
1	3121100	10	29200	740	0,05	0,3	37900	1150	0,05	0,3
1	48251116	16	29200	740	0,05	0,3	37900	1150	0,05	0,3
1,5	3121580	8	23600	890	0,08	0,45	30600	1390	0,08	0,45
1,5	3121600	10	23600	890	0,08	0,45	30600	1390	0,08	0,45
1,5	3121612	12	23600	890	0,08	0,45	30600	1390	0,08	0,45
2	3122100	10	18300	920	0,1	0,6	23700	1430	0,1	0,6
2	3122112	12	18300	920	0,1	0,6	23700	1430	0,1	0,6
2	48251221	20	18300	920	0,1	0,6	23700	1430	0,1	0,6
3	3123112	12	12200	920	0,15	0,9	15800	1430	0,15	0,9
3	3123116	16	12200	920	0,15	0,9	15800	1430	0,15	0,9

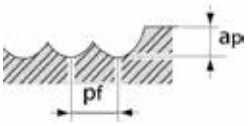
WXL-LN-EBD



Ø	EDP	l1	CoCr							
			Small desktop machine				Fast milling center			
			S (min⁻¹)	F (mm/min.)	ap	pf	S (min⁻¹)	F (mm/min.)	ap	pf
0,6	W1603333	6	28600	230	0,03	0,18	37100	370	0,03	0,18
1	W1603334	16	28600	460	0,05	0,3	37100	740	0,05	0,3
2	W1603335	20	17900	610	0,1	0,6	23200	970	0,1	0,6
0,5	3110525	2,5	31500	250	0,03	0,15	40900	410	0,03	0,15
0,6	3110660	6	28600	290	0,03	0,18	37100	450	0,03	0,18
0,6	3110700	10	28600	290	0,03	0,18	37100	450	0,03	0,18
1	3111070	7	28600	630	0,05	0,3	37100	1040	0,05	0,3
1	3111112	12	28600	630	0,05	0,3	37100	1040	0,05	0,3
1	3111114	14	28600	630	0,05	0,3	37100	1040	0,05	0,3
1	3111116	16	28600	630	0,05	0,3	37100	1040	0,05	0,3
1	3111118	18	28600	630	0,05	0,3	37100	1040	0,05	0,3
1	3111120	20	28600	630	0,05	0,3	37100	1040	0,05	0,3
1,5	3111612	12	23100	790	0,08	0,45	29900	1260	0,08	0,45
2	3112112	12	17900	820	0,1	0,6	23200	1300	0,1	0,6
2	3112114	14	17900	820	0,1	0,6	23200	1300	0,1	0,6
2	3112116	16	17900	820	0,1	0,6	23200	1300	0,1	0,6
2	48251220	20	17900	820	0,1	0,6	23200	1300	0,1	0,6
2,5	3112615	15	14000	810	0,13	0,75	18100	1270	0,13	0,75
0,6	3120625	2,5	28600	290	0,03	0,18	37100	450	0,03	0,18
0,6	48251008	8	28600	290	0,03	0,18	37100	450	0,03	0,18
1	3121080	8	28600	630	0,05	0,3	37100	1040	0,05	0,3
1	3121100	10	28600	630	0,05	0,3	37100	1040	0,05	0,3
1	48251116	16	28600	630	0,05	0,3	37100	1040	0,05	0,3
1,5	3121580	8	23100	790	0,08	0,45	29900	1260	0,08	0,45
1,5	3121600	10	23100	790	0,08	0,45	29900	1260	0,08	0,45
1,5	3121612	12	23100	790	0,08	0,45	29900	1260	0,08	0,45
2	3122100	10	17900	820	0,1	0,6	23200	1300	0,1	0,6
2	3122112	12	17900	820	0,1	0,6	23200	1300	0,1	0,6
2	48251221	20	17900	820	0,1	0,6	23200	1300	0,1	0,6
3	3123112	12	11900	830	0,15	0,9	15400	1320	0,15	0,9
3	3123116	16	11900	830	0,15	0,9	15400	1320	0,15	0,9

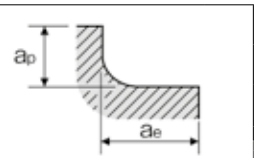
CONDITIONS

WXL-LN-EBD



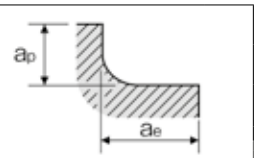
			PMMA / WAX							
			Small desktop machine				Fast milling center			
Ø	EDP	l1	S (min⁻¹)	F (mm/min.)	ap	pf	S (min⁻¹)	F (mm/min.)	ap	pf
0,6	W1603333	6	29200	410	0,03	0,18	37960	540	0,03	0,18
1	W1603334	16	29200	830	0,05	0,3	37960	1080	0,05	0,3
2	W1603335	20	18300	1040	0,1	0,6	23790	1350	0,1	0,6
0,5	3110525	2,5	32200	460	0,03	0,15	41860	590	0,03	0,15
0,6	3110660	6	29200	500	0,03	0,18	37960	650	0,03	0,18
0,6	3110700	10	29200	500	0,03	0,18	37960	650	0,03	0,18
1	3111070	7	29200	1100	0,05	0,3	37960	1430	0,05	0,3
1	3111112	12	29200	1100	0,05	0,3	37960	1430	0,05	0,3
1	3111114	14	29200	1100	0,05	0,3	37960	1430	0,05	0,3
1	3111116	16	29200	1100	0,05	0,3	37960	1430	0,05	0,3
1	3111118	18	29200	1100	0,05	0,3	37960	1430	0,05	0,3
1	3111120	20	29200	1100	0,05	0,3	37960	1430	0,05	0,3
1,5	3111612	12	23600	1340	0,08	0,45	30680	1740	0,08	0,45
2	3112112	12	18300	1380	0,1	0,6	23790	1800	0,1	0,6
2	3112114	14	18300	1380	0,1	0,6	23790	1800	0,1	0,6
2	3112116	16	18300	1380	0,1	0,6	23790	1800	0,1	0,6
2	48251220	20	18300	1380	0,1	0,6	23790	1800	0,1	0,6
2,5	3112615	15	14300	1350	0,13	0,75	18590	1760	0,13	0,75
0,6	3120625	2,5	29200	500	0,03	0,18	37960	650	0,03	0,18
0,6	48251008	8	29200	500	0,03	0,18	37960	650	0,03	0,18
1	3121080	8	29200	1100	0,05	0,3	37960	1430	0,05	0,3
1	3121100	10	29200	1100	0,05	0,3	37960	1430	0,05	0,3
1	48251116	16	29200	1100	0,05	0,3	37960	1430	0,05	0,3
1,5	3121580	8	23600	1340	0,08	0,45	30680	1740	0,08	0,45
1,5	3121600	10	23600	1340	0,08	0,45	30680	1740	0,08	0,45
1,5	3121612	12	23600	1340	0,08	0,45	30680	1740	0,08	0,45
2	3122100	10	18300	1380	0,1	0,6	23790	1800	0,1	0,6
2	3122112	12	18300	1380	0,1	0,6	23790	1800	0,1	0,6
2	48251221	20	18300	1380	0,1	0,6	23790	1800	0,1	0,6
3	3123112	12	12200	1380	0,15	0,9	15860	1800	0,15	0,9
3	3123116	16	12200	1380	0,15	0,9	15860	1800	0,15	0,9

WXL-CPR



			Titanium							
			Small desktop machine				Fast milling center			
Ø	EDP	l1	S (min⁻¹)	F (mm/min.)	ap	ae	S (min⁻¹)	F (mm/min.)	ap	ae
1,5	48250112	12	10600	950	0,15	0,45	13700	1480	0,15	0,45
1,5	48250115	15	10600	950	0,15	0,45	13700	1480	0,15	0,45

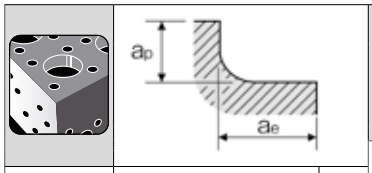
WXL-CPR



			CoCr							
			Small desktop machine				Fast milling center			
Ø	EDP	l1	S (min⁻¹)	F (mm/min.)	ap	ae	S (min⁻¹)	F (mm/min.)	ap	ae
1,5	48250112	12	10070	900	0,15	0,9	13000	1400	0,15	0,9
1,5	48250115	15	10070	1000	0,15	0,9	13000	1600	0,15	0,9

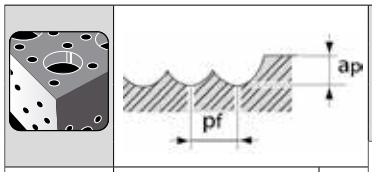
CONDITIONS

WXL-LN-EDS



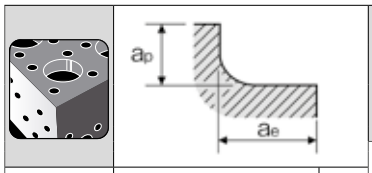
Ø	EDP	l	CoCr							
			Small desktop machine				Fast milling center			
			S (min⁻¹)	F (mm/min.)	ap	ae	S (min⁻¹)	F (mm/min.)	ap	ae
0,3	3131308	0,45	20700	200	0,03	0,09	29000	400	0,03	0,09
0,4	3131408	0,6	22400	310	0,04	0,12	30400	540	0,04	0,12
0,5	3131504	0,7	19900	350	0,05	0,15	27000	590	0,05	0,15
0,6	3131606	0,9	14900	320	0,06	0,18	20300	520	0,06	0,18
0,6	3131610	0,9	14900	320	0,06	0,18	20300	520	0,06	0,18
1	3132010	1,5	12300	460	0,1	0,3	16700	730	0,1	0,3
1	3132016	1,5	12300	460	0,1	0,3	16700	730	0,1	0,3
1	3132018	1,5	12300	460	0,1	0,3	16700	730	0,1	0,3
1	3132020	1,5	12300	460	0,1	0,3	16700	730	0,1	0,3
1,5	3132518	2,3	9400	540	0,15	0,45	12700	860	0,15	0,45
2	3133010	3	7800	600	0,2	0,6	10600	950	0,2	0,6
2	3133016	3	7800	600	0,2	0,6	10600	950	0,2	0,6
2	3133020	3	7000	540	0,2	0,6	9500	850	0,2	0,6
1,5	48252112	2,3	10300	590	0,15	0,45	14000	950	0,15	0,45
0,5	W1604584	0,7	19900	350	0,05	0,15	27000	590	0,05	0,15
1	W1604585	1,5	9900	370	0,1	0,3	13400	580	0,1	0,3
1,5	W1601161	2,3	8200	470	0,15	0,45	11100	750	0,15	0,45

DG-LN-EBD



Ø	EDP	l1	Zirconium							
			Small desktop machine				Fast milling center			
			S (min⁻¹)	F (mm/min.)	ap	pf	S (min⁻¹)	F (mm/min.)	ap	pf
1	48249140	10	25600	510	0,05	0,3	38300	840	0,05	0,3
2	48249246	16	18300	730	0,1	0,6	27300	1200	0,1	0,6
2	48249250	20	18300	730	0,1	0,6	27300	1200	0,1	0,6
1	W1603980	16	23000	460	0,05	0,3	34500	760	0,05	0,3
0,6	8553711	6	29200	350	0,03	0,18	43800	470	0,03	0,18
0,6	8553712	10	26800	320	0,03	0,18	40100	430	0,03	0,18
1	8553723	10	25600	510	0,05	0,3	38300	840	0,05	0,3
1	8553724	16	23000	460	0,05	0,3	34500	760	0,05	0,3
1	48249116	16	23000	460	0,05	0,3	34500	760	0,05	0,3
1,5	8553733	16	23600	700	0,08	0,45	35400	1170	0,08	0,45
2	8553743	16	18300	730	0,1	0,6	27300	1200	0,1	0,6
2	8553744	20	18300	730	0,1	0,6	27300	1200	0,1	0,6
2	48249220	20	18300	730	0,1	0,6	27300	1200	0,1	0,6
0,6	48249068	8	26800	320	0,03	0,18	40100	430	0,03	0,18
1	48249170	10	25600	510	0,05	0,3	38300	840	0,05	0,3
2	48249272	12	18300	730	0,1	0,6	27300	1200	0,1	0,6
1	W1602615	16	23000	460	0,05	0,3	34500	760	0,05	0,3
2	W1602616	20	18300	730	0,1	0,6	27300	1200	0,1	0,6

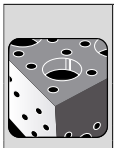
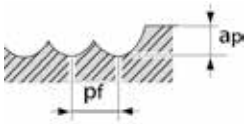
DG-CPR



Ø	EDP	l1	Zirconium							
			Small desktop machine				Fast milling center			
			S (min⁻¹)	F (mm/min.)	ap	ae	S (min⁻¹)	F (mm/min.)	ap	ae
0,5	8554511	4	22900	340	0,05	0,15	27500	410	0,05	0,15
0,5	8554512	6	22900	300	0,05	0,15	27500	360	0,05	0,15
1	48103001	10	14300	720	0,1	0,3	17100	860	0,1	0,3
2	8554542	10	7200	720	0,2	0,6	9300	930	0,2	0,6
2	8554544	20	7200	720	0,2	0,6	9300	930	0,2	0,6
4	48103001	25	3600	720	0,32	1,2	4600	920	0,32	1,2

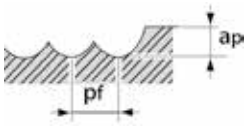
CONDITIONS

DLC-LN-EBD

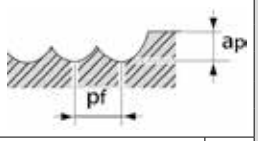
Ø	EDP	l1	Zirconium							
			Small desktop machine				Fast milling center			
			S (min⁻¹)	F (mm/min.)	ap	pf	S (min⁻¹)	F (mm/min.)	ap	pf
0,6	W1604644	8	26800	320	0,03	0,18	40100	430	0,03	0,18
1	W1604586	16	23400	470	0,05	0,3	35000	770	0,05	0,3
2	W1604587	20	17500	700	0,1	0,6	21900	960	0,1	0,6

DLC-LN-EBD



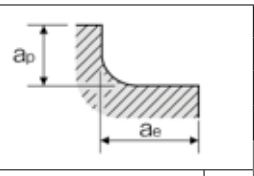
Ø	EDP	l1	PEEK							
			Small desktop machine				Fast milling center			
			S (min⁻¹)	F (mm/min.)	ap	pf	S (min⁻¹)	F (mm/min.)	ap	pf
0,6	W1604644	8	26800	420	0,03	0,18	34840	540	0,03	0,18
1	W1604586	16	23400	700	0,05	0,3	35100	1050	0,05	0,3
2	W1604587	20	17500	1050	0,1	0,6	26250	1580	0,1	0,6

DLC-EBD-V



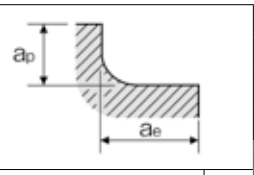
Ø	EDP	l1	Zirconium			
			S (min⁻¹)	F (mm/min.)	ap	pf
0,6	W1604645	6	26800	320	0,03	0,18
1	W1604591	12	23400	470	0,05	0,3
2	W1604592	16	17500	700	0,1	0,6

WXS-CRE



Ø	EDP	l1	Titanium							
			Small desktop machine				Fast milling center			
			S (min⁻¹)	F (mm/min.)	ap	ae	S (min⁻¹)	F (mm/min.)	ap	ae
2	48106421	8	8000	960	0,05	0,6	10300	1550	0,05	0,6
2	48254212	12	8000	960	0,05	0,6	10300	1550	0,05	0,6
3	48106433	16	5300	1590	0,08	0,9	6900	2590	0,08	0,9
3	48254316	12	5300	1590	0,08	0,9	6900	2590	0,08	0,9
4	48106445	12	4000	2000	0,1	1,2	5100	3190	0,1	1,2

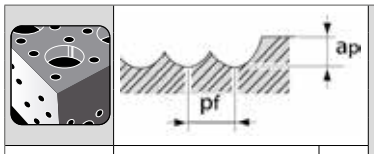
WXS-CRE



Ø	EDP	l1	CoCr							
			Small desktop machine				Fast milling center			
			S (min⁻¹)	F (mm/min.)	ap	ae	S (min⁻¹)	F (mm/min.)	ap	ae
2	48106421	8	7600	850	0,05	0,6	9700	1360	0,05	0,6
2	48254212	12	7600	850	0,05	0,6	9700	1360	0,05	0,6
3	48106433	16	5035	1430	0,08	0,9	6500	2310	0,08	0,9
3	48254316	12	5035	1430	0,08	0,9	6500	2310	0,08	0,9
4	48106445	12	3800	1810	0,1	1,2	4800	2830	0,1	1,2

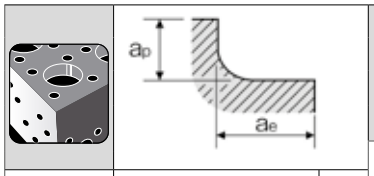
CONDITIONS

EPL-EBD-V



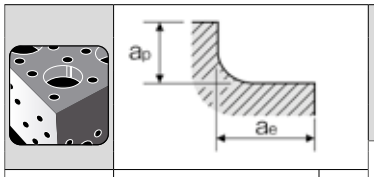
Ø	EDP	l1	Titanium				CoCr				PMMA / WAX			
			S (min⁻¹)	F (mm/min.)	ap	pf	S (min⁻¹)	F (mm/min.)	ap	pf	S (min⁻¹)	F (mm/min.)	ap	pf
0,6	W1604588	6	29200	330	0,03	0,18	28616	290	0,03	0,18	29200	500	0,03	0,18
1	W1604589	12	29200	740	0,05	0,3	28616	630	0,05	0,3	29200	1100	0,05	0,3
2	W1604590	16	18300	920	0,1	0,6	17934	820	0,1	0,6	18300	1380	0,1	0,6

FXS-PKE



Ø	EDP	l1	Titanium							
			Small desktop machine				Fast milling center			
			S (min⁻¹)	F (mm/min.)	ap	ae	S (min⁻¹)	F (mm/min.)	ap	ae
3	8548003	9	5300	1270	0,15	0,9	6900	2070	0,15	0,9

FXS-PKE



Ø	EDP	l1	CoCr							
			Small desktop machine				Fast milling center			
			S (min⁻¹)	F (mm/min.)	ap	ae	S (min⁻¹)	F (mm/min.)	ap	ae
3	8548003	9	5035	1150	0,15	0,9	6500	1850	0,15	0,9

CONDITIONS

MRS-GDL

Ø	CoCr		Titanium	
	S (min⁻¹)	F (mm/min.)	S (min⁻¹)	F (mm/min.)
1	4800	0,025	5700	0,027
1,1	4300	0,028	5200	0,03
1,2	4000	0,030	4800	0,032
1,3	3700	0,033	4400	0,035
1,4	3400	0,035	4100	0,038
1,5	3200	0,038	3800	0,041
1,6	3000	0,040	3600	0,043
1,7	2800	0,043	3400	0,046
1,8	2700	0,045	3200	0,049
1,9	2500	0,048	3000	0,051
2	2400	0,050	2900	0,054
2,1	2300	0,053	2700	0,057
2,2	2200	0,055	2600	0,059
2,3	2100	0,058	2500	0,062
2,4	2000	0,060	2400	0,065
2,5	1900	0,063	2300	0,068
2,6	1800	0,065	2200	0,07
2,7	1800	0,068	2100	0,073
2,8	1700	0,070	2000	0,076
2,9	1600	0,073	2000	0,078
3	1600	0,075	1900	0,081

WX-MS-GDS

Ø	CoCr		Titanium	
	S (min⁻¹)	F (mm/min.)	S (min⁻¹)	F (mm/min.)
1	4800	0,022	5700	0,024
1,1	4300	0,024	5200	0,026
1,2	4000	0,027	4800	0,029
1,3	3700	0,029	4400	0,031
1,4	3400	0,031	4100	0,033
1,5	3200	0,033	3800	0,036
1,6	3000	0,036	3600	0,038
1,7	2800	0,038	3400	0,040
1,8	2700	0,040	3200	0,043
1,9	2500	0,042	3000	0,045
2	2400	0,044	2900	0,048
2,1	2300	0,047	2700	0,050
2,2	2200	0,049	2600	0,052
2,3	2100	0,051	2500	0,055
2,4	2000	0,053	2400	0,057
2,5	1900	0,056	2300	0,060
2,6	1800	0,058	2200	0,062
2,7	1800	0,060	2100	0,064
2,8	1700	0,062	2000	0,067
2,9	1600	0,064	2000	0,069
3	1600	0,067	1900	0,071

FX-LDS

	C≤0,2% St40 ~ 500 N/mm²		Carbon Steel CK45 500 ~ 710 N/mm²		SCM SCM440 710 ~ 900 N/mm²		Special Steel SKD61 28 HRC		Special Steel SKD11 34 HRC		GG GG25 ~ 350 N/mm²		AC AC4D	
Vc	63 ~ 80 m/min		40 ~ 63 m/min		32 ~ 50 m/min		20 ~ 28 m/min		16 ~ 22 m/min		63 ~ 100 m/min		80 ~ 160 m/min	
Ø	S (min⁻¹)	F (mm/rev.)	S (min⁻¹)	F (mm/rev.)	S (min⁻¹)	F (mm/rev.)	S (min⁻¹)	F (mm/rev.)	S (min⁻¹)	F (mm/rev.)	S (min⁻¹)	F (mm/rev.)	S (min⁻¹)	F (mm/rev.)
3	7.500	0,04~0,08	5.500	0,04~0,08	4.500	0,04~0,08	2.500	0,04~0,08	2.000	0,04~0,08	8.000	0,05~0,09	12.000	0,10~0,22
4	5.700	0,05~0,10	4.100	0,05~0,10	3.300	0,05~0,10	1.900	0,05~0,10	1.500	0,05~0,10	6.500	0,07~0,12	9.500	0,12~0,25
6	3.800	0,06~0,12	2.700	0,06~0,12	2.300	0,06~0,12	1.250	0,06~0,12	1.000	0,06~0,12	4.300	0,12~0,18	6.400	0,14~0,28
8	2.800	0,08~0,15	2.000	0,08~0,15	1.700	0,08~0,15	950	0,08~0,15	750	0,08~0,15	3.200	0,13~0,20	4.800	0,18~0,32
10	2.300	0,10~0,18	1.700	0,10~0,18	1.400	0,10~0,18	750	0,10~0,18	600	0,10~0,18	2.600	0,17~0,25	3.800	0,22~0,36
12	1.900	0,12~0,21	1.400	0,12~0,21	1.200	0,12~0,21	650	0,12~0,21	500	0,12~0,21	2.200	0,21~0,30	3.200	0,25~0,40
16	1.400	0,16~0,28	1.000	0,16~0,28	900	0,16~0,28	500	0,16~0,28	380	0,16~0,28	1.600	0,24~0,32	2.400	0,32~0,48
20	1.150	0,20~0,34	820	0,20~0,34	700	0,20~0,34	400	0,20~0,34	300	0,20~0,34	1.300	0,26~0,40	1.900	0,40~0,60
25	900	0,25~0,45	650	0,25~0,45	560	0,25~0,45	300	0,25~0,45	250	0,25~0,45	1.000	0,30~0,50	1.500	0,50~0,75

GLOBAL NETWORK

OSG first ventured overseas with the establishment of a subsidiary in Chicago in 1968. Since then we have dynamically expanded our international network of production sites and sales offices in line with our vision per OSG as a globally active manufacturer of cutting tools. We currently have facilities in 33 countries.

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