

DIA-BURS

Healthy teeth, happy smiles,
to the world.

MANI



How to read the diamond bur- burs form table

Model

TR-S14EF

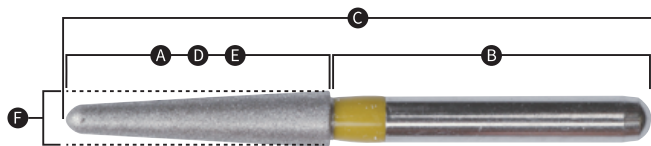
① ② ③

- ① MANI Shape
- ② Shank Length
- ③ Grit

Shank

Length of shank
No indicated: Normal
S : Short shank
SS: Super short shank

ISO Code



806-314-198-504-019

A B C D E F

- A Material of Working Part
- B Shank Shape
- C Shank Length
- D Working Shape
- E Grid Size
- F ISO Max. Diameter

MANI DIA-BURS is indicated D/F on the brochure and package .

Grit

Grit	Color Code
Super Coarse	Black 180-212μm
Coarse	Green 125-150μm
Standard	Blue 106-125μm
Fine	Red 53-63μm
Extra Fine	Yellow 20-30μm

Max.Allowable Speed

450:	450,000min ⁻¹
300:	300,000min ⁻¹
160:	160,000min ⁻¹
90:	90,000min ⁻¹

MANI Shape

BC Ball Collar	EX Extra Shape	SO Straight Ogival End
BR Ball Round	FO Flame Ogival End	SR Straight Round End
CD Children Dentistry	IPR Interproximal Reduction	TC Taper Conical End
CE CEREC	MI Minimal Intervention	TF Taper Flat End
CR CR Preparation	Pro All Ceramics "Procera"	TO Taper Ogival End
DI Double Inverted Cone	RS Rounded Shoulder	TR Taper Round End
DM Depth Marker	SF Straight Flat End	WF Wheel Flat End
EA Endo Access	SI Single Inverted Cone	WR Wheel Round End

							
BC Ball Collar		Model (Shape) BC-31 (802)					
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
BC-31C	802	534	002-019	19.1	2.4	1.9	300
BC-31	802	524	002-018	19.1	2.4	1.8	300
BC-32	802	524	002-016	19.1	3.6	1.6	300
BC-42C	802	534	002-015	19.2	2.6	1.5	300
BC-S42C	802	534	002-015	16.8	2.6	1.5	300
BC-42	802	524	002-014	19.1	2.5	1.4	450
BC-S42	802	524	002-014	16.7	2.5	1.4	450
BC-43C	802	534	002-013	19.1	2.6	1.3	450
BC-43	802	524	002-012	19.1	2.6	1.2	450
BC-S43	802	524	002-012	16.7	2.6	1.2	450

							
BR Ball Round		Model (Shape) BR-31 (801)					
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
BR-31SC	801	544	001-020	19.2	1.8	2.0	300
BR-31C	801	534	001-019	19.1	1.7	1.9	300
BR-31	801	524	001-018	19.1	1.6	1.8	300
BR-32C	801	534	001-019	21.1	1.7	1.9	300
BR-32EF	801	504	001-018	19.9	1.7	1.8	300
BR-33	801	524	001-028	20.1	2.6	2.8	160
BR-34	801	524	001-035	20.1	3.4	3.5	160
BR-40SC	801	544	001-018	20.3	1.6	1.8	300
BR-40C	801	534	001-017	20.2	1.5	1.7	300
BR-40	801	524	001-016	20.2	1.5	1.6	300
BR-40EF	801	504	001-015	18.9	1.4	1.5	300
BR-41SC	801	544	001-016	19.2	1.4	1.6	300
BR-41C	801	534	001-015	19.1	1.3	1.5	300
BR-41	801	524	001-014	19.1	1.3	1.4	450
BR-42	801	524	001-011	20.2	1.0	1.1	450
BR-43	801	524	001-013	21.0	1.2	1.3	160
BR-44	801	524	001-010	19.5	0.9	1.0	450
BR-45SC	801	544	001-012	19.2	1.1	1.2	450
BR-45C	801	534	001-011	19.1	1.0	1.1	450
BR-45	801	524	001-010	19.1	0.9	1.0	450
BR-S45	801	524	001-010	16.7	0.9	1.0	450
BR-46SC	801	544	001-014	19.2	1.2	1.4	450
BR-46C	801	534	001-013	19.1	1.1	1.3	450
BR-S46C	801	534	001-013	16.7	1.1	1.3	450
BR-46	801	524	001-012	19.1	1.1	1.2	450
BR-S46	801	524	001-012	16.7	1.1	1.2	450

BR Ball Round 		 Model (Shape) BR-49 (801)					
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
BR-48F	801	514	001-006	19.0	0.5	0.6	450
BR-49C	801	534	001-009	19.0	0.8	0.9	450
BR-49	801	524	001-008	19.0	0.7	0.8	450
BR-154	801	524	001-016	24.2	1.7	1.6	300

CD Children Dentistry		 Model (Shape) CD-50F (801)  CD-51F (838)  CD-52F (838)  CD-53F (161)  CD-54F (246)  CD-55F (254)  CD-56F (246)  CD-57F (860)  CD-58 (835)  CD-59F (846)  CD-60F (838)  CD-61F (838)  CD-62F (835)					
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
CD-50F	801	514	001-006	16.7	0.6	0.6	450
CD-SS51	838	524	138-009	16.1	2.3	0.9	450
CD-51F	838	514	138-007	16.7	2.2	0.7	450
CD-52F	838	514	139-007	16.7	3.8	0.7	450
CD-53F	161	514	539-007	16.7	2.2	0.7	450
CD-54F	246	514	295-007	16.7	2.2	0.7	450
CD-55F	254	514	277-008	16.7	1.2	0.8	450
CD-56F	246	514	295-007	16.7	2.2	0.7	450
CD-57F	860	514	295-007	16.7	3.6	0.7	450
CD-58	835	524	156-010	16.3	3.3	1.0	450
CD-58F	835	514	156-009	16.2	3.2	0.9	450
CD-59F	846	514	197-013	16.7	6.9	1.3	450
CD-60F	838	514	138-007	19.0	2.2	0.7	450
CD-61F	838	514	139-007	19.0	3.8	0.7	450
CD-62F	835	514	156-009	19.0	3.2	0.9	450

CE CEREC		 Model (Shape) CE-12 (847KR)  CE-13 (845KR)  CE-15F (254)					
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
CE-12	847KR	524	546-022	21.8	9.3	2.2	160
CE-12F	847KR	514	546-021	21.7	9.1	2.1	300
CE-12EF	847KR	504	546-019	21.6	8.9	1.9	300
CE-13	845KR	524	544-021	19.0	5.5	2.1	300
CE-13F	845KR	514	544-020	18.9	5.3	2.0	300
CE-13EF	845KR	504	544-019	18.8	5.1	1.8	300
CE-15F	254	514	254-027	20.6	4.8	2.7	160
CE-15EF	254	504	254-025	20.5	4.6	2.5	160

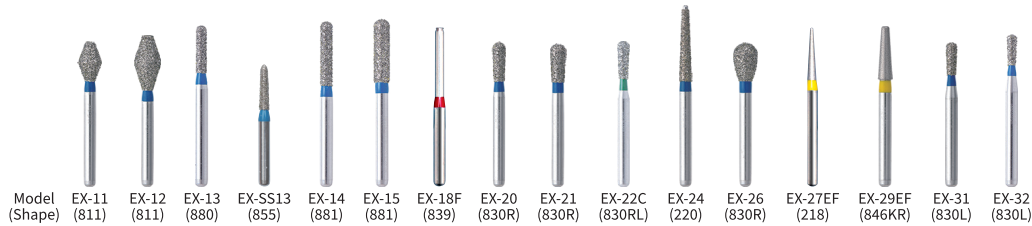
CE CEREC  Model (Shape) CE-16 (856) CE-17 (847) CE-17F (847KR)							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
CE-16	856	524	198-015	21.8	9.2	1.8	300
CE-16F	856	514	198-017	21.7	9.1	1.7	300
CE-16EF	856	504	198-015	21.6	8.9	1.5	300
CE-17	847	524	172-012	22.0	8.2	1.2	450
CE-17F	847KR	514	546-011	21.9	8.1	1.1	450
CE-17EF	847	504	172-010	21.8	7.9	1.0	450

CR CR Preparation  Model (Shape) CR-11F (849) CR-12F (849) CR-21F (855) CR-22F (878)							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
CR-11F	849	514	196-020	19.0	5.1	2.0	300
CR-11EF	849	504	196-019	18.9	4.9	1.9	300
CR-12F	849	514	196-015	19.0	4.1	1.5	300
CR-12EF	849	504	196-013	18.9	3.9	1.3	450
CR-21F	855	514	197-012	21.5	7.1	1.2	450
CR-22F	878	514	298-013	21.5	8.1	1.3	450

DI Double Inverted Cone  Model (Shape) DI-41C (190) DI-41 (806)							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
DI-41C	190	534	032-011	19.1	2.4	1.1	450
DI-41	806	524	032-011	19.1	2.4	1.1	450
DI-S41	806	524	032-011	17.2	2.4	1.1	450
DI-SS41	806	524	032-011	14.5	2.4	1.1	450
DI-42C	190	534	032-015	19.1	3.3	1.5	300
DI-42	806	524	032-014	19.1	3.3	1.4	450

DM Depth Marker  Model (Shape) DM-103 DM-105 DM-303 DM-305							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
DM-103		524	073-028	21.7	1.4	2.8	160
DM-105		524	073-032	21.7	1.4	3.2	160
DM-303		524	552-017	22.2	6.1	1.7	300
DM-305		524	552-021	22.2	6.1	2.1	300

EA Endo Access	 Model (Shape)EA-10EA-L10EA-13EA-40						
	Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter
EA-10		524	494-019	22.0	11.0	1.9	300
EA-L10		524	494-019	25.0	11.0	1.9	300
EA-13		524	173-018	28.0	10.2	1.8	90
EA-40		524	001-016	25.0	1.4	1.6	160

EX Extra Shape																
	Model (Shape)	EX-11 (811)	EX-12 (811)	EX-13 (880)	EX-SS13 (855)	EX-14 (881)	EX-15 (881)	EX-18F (839)	EX-20 (830R)	EX-21 (830R)	EX-22C (830RL)	EX-24 (220)	EX-26 (830R)	EX-27EF (218)	EX-29EF (846KR)	EX-31 (830L)
Model	Shape	Grit Size/ Color Coding	ISO Code		Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)								
EX-11SC	811	544	039-034		19.2	5.1	3.4	160								
EX-11C	811	534	039-033		19.1	5.0	3.3	160								
EX-11	811	524	039-032		19.1	5.0	3.2	160								
EX-11EF	811	504	039-029		18.9	4.7	2.9	160								
EX-12C	811	534	039-035		20.1	7.2	3.5	160								
EX-12	811	524	039-035		20.1	7.2	3.5	160								
EX-13	880	524	140-013		21.1	6.2	1.3	450								
EX-SS13	855	524	297-014		16.1	6.1	1.4	450								
EX-SS13EF	855	504	297-012		15.9	5.9	1.2	450								
EX-14	881	524	141-016		21.7	8.5	1.6	300								
EX-SS14	855	524	197-015		16.1	6.1	1.5	300								
EX-SS14EF	855	504	197-012		15.9	5.9	1.2	450								
EX-15	881	524	141-021		22.1	8.4	2.1	300								
EX-18F	839	514	179-010		21.0	9.2	1.0	300								
EX-20C	830R	534	237-019		19.1	5.2	1.9	300								
EX-20	830R	524	237-018		19.1	5.2	1.8	300								
EX-21SC	830R	544	237-023		19.1	5.3	2.3	160								
EX-21C	830R	534	237-022		19.0	5.2	2.2	160								
EX-21	830R	524	237-021		19.0	5.2	2.1	300								
EX-21F	830R	514	237-020		18.9	5.1	2.0	300								
EX-21EF	830R	504	237-018		18.8	4.9	1.8	300								
EX-22C	830RL	534	237-017		19.2	5.0	1.7	450								
EX-24C	220	534	190-018		24.0	10.1	1.8	300								
EX-24	220	524	190-017		24.0	10.1	1.7	300								
EX-26SC	830R	544	237-034		19.1	5.1	3.4	160								
EX-26C	830R	534	239-033		19.0	5.0	3.3	160								
EX-26	830R	524	239-032		19.0	5.0	3.2	160								
EX-27EF	218	504	190-012		21.0	7.0	1.2	300								
EX-29EF	846KR	504	545-018		21.0	6.9	1.8	300								
EX-31C	830L	534	239-015		19.1	4.3	1.5	300								
EX-31	830L	524	237-014		19.1	4.3	1.4	450								
EX-31F	830L	514	237-013		19.0	4.2	1.3	450								
EX-32	830L	524	237-013		20.1	4.1	1.3	450								

EX Extra Shape														
	Model (Shape)	EX-33 (830L)	EX-SS33 (845KR)	EX-SS33EF (855)	EX-34 (830L)	EX-35 (830R)	EX-36EF (838)	EX-37EF (254)	EX-39 (379)	EX-40 (379)	EX-41 (830R)	EX-42 (830)	EX-43 (830)	EX-58 (858)
Model	Shape	Grit Size/Color Coding		ISO Code		Overall Length		Working Length		Detail Max. Diameter		Max.Allowable Speed(K)		
EX-33	830L	524		237-015		19.6		4.9		1.5		300		
EX-SS33	845KR	524		544-016		14.3		4.2		1.6		300		
EX-SS33EF	855	504		544-015		14.2		4.0		1.5		300		
EX-34	830L	524		237-017		19.1		5.1		1.7		300		
EX-35	830R	524		277-023		21.1		4.3		2.3		160		
EX-36EF	838	504		138-015		19.0		3.3		1.5		300		
EX-37EF	254	504		254-023		19.0		1.9		2.3		160		
EX-39	379	524		277-018		19.2		3.9		1.8		300		
EX-39EF	379	504		277-018		19.0		3.5		1.8		300		
EX-40	379	524		277-023		19.2		4.4		2.3		160		
EX-SS40	379	524		277-023		16.7		4.4		2.3		160		
EX-40F	379	514		277-023		19.1		4.3		2.3		160		
EX-40EF	379	504		277-023		19.0		4.2		2.3		160		
EX-41C	830R	534		237-011		19.1		3.1		1.1		450		
EX-41	830R	524		237-011		19.1		3.1		1.1		450		
EX-42	830	524		237-018		19.1		3.1		1.8		300		
EX-43	830	524		237-014		19.1		3.1		1.4		450		
EX-58	858	524		298-010		21.2		8.2		1.0		450		

FO Flame Ogival End 							
	Model (Shape)	FO-11 (879K)	FO-12 (863)	FO-20EF (861)	FO-21C (877K)	FO-S21C (368)	FO-S21 (878K)
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
FO-11C	879K	534	299-014	24.1	10.2	1.4	450
FO-11	879K	524	299-014	24.1	10.2	1.4	450
FO-12	863	524	299-016	23.7	10.8	1.6	300
FO-13	863	524	299-019	23.1	10.3	1.9	300
FO-14	863	524	299-023	22.1	10.4	2.3	160
FO-20EF	861	504	257-012	19.9	6.0	1.2	450
FO-21SC	878K	544	297-016	21.2	7.3	1.6	300
FO-21C	877K	534	297-015	21.1	7.2	1.5	300
FO-S21C	368	534	257-015	18.2	7.2	1.5	300
FO-21	878K	524	297-014	21.1	7.2	1.4	450
FO-S21	878K	524	297-014	18.2	7.2	1.4	450
FO-SS21F	878K	514	298-013	18.1	7.7	1.3	450
FO-21F	878K	514	297-013	21.0	7.1	1.3	450
FO-21EF	878K	504	297-011	20.9	6.9	1.1	450
FO-22SC	878K	544	288-018	21.2	7.3	1.8	300
FO-22C	878K	534	288-017	21.1	7.2	1.7	300
FO-22	878K	524	288-016	21.1	7.2	1.6	300
FO-22F	878K	514	288-015	21.0	7.1	1.5	300
FO-22EF	878K	504	288-013	20.9	6.9	1.3	450

FO Flame Ogival End							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
FO-23	860	524	297-013	20.6	7.3	1.3	450
FO-23F	860	514	288-011	20.6	7.0	1.1	450
FO-23EF	860	504	288-009	20.5	6.8	0.9	450
FO-24	862	524	298-013	22.1	8.2	1.3	450
FO-24F	862	514	298-013	22.0	8.0	1.3	450
FO-25C	368	534	257-029	19.1	5.0	2.9	160
FO-25	368	524	257-028	19.1	5.0	2.8	160
FO-25EF	368	504	257-025	18.9	4.7	2.5	160
FO-27SC	368	544	257-034	19.2	5.2	3.4	160
FO-27C	368	534	257-033	19.1	5.1	3.3	160
FO-27	368	524	257-032	19.1	5.0	3.2	160
FO-30F	254	514	257-015	19.0	3.2	1.5	300
FO-30EF	368	504	257-014	18.9	3.1	1.4	450
FO-31	368	524	257-013	19.7	3.3	1.3	450
FO-32SC	368	544	257-020	19.8	4.0	2.0	300
FO-32C	368	534	257-019	19.7	3.9	1.9	300
FO-32	368	524	257-018	19.7	3.9	1.8	300
FO-32EF	368	504	257-016	19.5	3.6	1.6	300
FO-33	368	524	257-023	20.1	5.2	2.3	160
FO-33F	368	514	257-022	20.0	5.1	2.2	160
FO-33EF		504	257-020	19.9	4.9	2.0	300
FO-40EF	243	504	540-009	23.4	4.2	0.9	160
FO-41EF	861	504	297-009	18.4	5.9	0.9	450
FO-42EF	861	504	289-010	21.9	7.6	1.0	450
FO-54C	190	534	508-019	21.0	9.6	1.9	300
FO-S54	190	524	508-019	20.0	9.6	1.9	300
FO-100C	368	534	257-024	19.2	5.3	2.4	160
FO-100F		514	257-021	19.1	5.1	2.1	160
FO-101C	368	534	257-013	22.0	8.0	1.3	450

IPR Interproximal Reduction							
Model (Shape)		IPR-01EF					
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
IPR-01EF		504	164-004	21.0	5.6	0.4	160

MI Minimal Intervention							
	Model (Shape)	MI-45F (801)	MI-53F (883)	MI-61F (838)	MI-62F (835)		
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
MI-S45	801	524	001-008	17.1	1.0	1.1	450
MI-45F	801	514	001-010	19.2	0.9	1.0	450
MI-53F	883	514	539-007	19.2	2.2	0.7	450
MI-61F	838	514	139-007	19.2	3.8	0.7	450
MI-62F	835	514	156-009	19.2	3.2	0.9	450

Pro All ceramics "Procera"							
	Model (Shape)	Pro-1 (856)	Pro-2 (856)	Pro-3f (379)	Pro-4f (830R)	Pro-5f (815)	
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
Pro-1	856	524	198-021	22.2	8.3	2.1	300
Pro-1f	856	514	198-020	22.1	8.1	2.0	300
Pro-1EF	856	504	198-021	22.0	8.8	2.1	300
Pro-2	856	524	198-018	22.2	8.3	1.8	300
Pro-2f	856	514	198-017	22.1	8.2	1.7	300
Pro-2EF	856	504	198-018	22.0	7.9	1.8	300
Pro-S3	379	524	277-024	17.1	4.8	2.4	160
Pro-3f	379	514	277-022	20.6	4.7	2.2	160
Pro-4f	830R	514	237-019	19.1	5.1	1.9	300
Pro-5f	815	514	041-039	19.1	0.7	3.9	160

RS Rounded Shoulder							
	Model (Shape)	RS-11C (553)	RS-21C (846KR)	RS-31 (845KR)	RS-32 (845KR)	RS-45 (845KR)	
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
RS-11C	553	534	553-020	23.3	10.5	2.0	300
RS-11	553	524	553-019	23.2	10.4	1.9	300
RS-21C	846KR	534	545-019	21.2	7.2	1.9	300
RS-21	846KR	524	545-018	21.2	7.2	1.8	300
RS-21EF	846KR	504	545-016	21.0	6.9	1.6	300
RS-31C	845KR	534	544-019	19.2	4.4	1.9	300
RS-31	845KR	524	544-019	19.2	4.4	1.9	300
RS-SS31	845KR	524	544-019	16.1	4.5	1.9	300
RS-31EF	845KR	504	544-018	18.9	4.2	1.8	300
RS-SS31EF	845KR	504	544-018	15.9	4.2	1.8	300
RS-32	845KR	524	544-016	17.8	4.2	1.6	300
RS-32F	845KR	514	544-014	17.7	4.1	1.4	450
RS-45	845KR	524	544-018	17.8	4.3	1.8	300
RS-45F	845KR	514	544-017	17.7	4.1	1.7	300
RS-45EF	845KR	504	544-017	17.6	3.9	1.7	300

SF Straight Flat End      Model (Shape) SF-11 (837) SF-21 (836) SF-31 (835) SF-40 (107)							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
SF-11SC	837	544	111-014	22.2	8.3	1.4	450
SF-11C	837	534	111-013	22.1	8.2	1.3	450
SF-11	837	524	111-012	22.1	8.2	1.2	450
SF-12SC	837	544	111-016	22.1	8.3	1.6	300
SF-12C	837	534	111-015	22.0	8.2	1.5	300
SF-12	837	524	111-014	22.0	8.2	1.4	450
SF-13SC	837	544	111-018	22.2	8.3	1.8	300
SF-13C	837	534	111-017	22.1	8.2	1.7	300
SF-13	837	524	111-016	22.1	8.2	1.6	300
SF-21SC	837	544	110-016	21.1	7.3	1.6	300
SF-21C	836	534	110-015	21.0	7.2	1.5	300
SF-21	836	524	110-014	21.0	7.2	1.4	450
SF-22	836	524	110-013	21.1	7.2	1.3	450
SF-24C	836	534	110-012	20.1	6.1	1.2	450
SF-31SC	835	544	109-015	19.2	4.8	1.5	300
SF-31C	835	534	109-014	19.1	4.7	1.4	450
SF-31	835	524	109-013	19.1	4.7	1.3	450
SF-32	835	524	109-013	19.2	5.2	1.3	450
SF-40	107	524	109-010	20.1	4.3	1.0	450
SF-S40		524	109-010	16.1	4.3	1.0	450
SF-41SC	835	544	109-013	19.1	4.4	1.3	450
SF-41C	835	534	109-011	19.0	4.3	1.1	450
SF-41	835	524	109-011	19.0	4.3	1.1	450
SF-S41	835	524	109-011	16.7	3.8	1.1	450
SF-42	107	524	109-013	19.1	4.3	1.3	450
SF-43	107	524	109-015	19.1	4.2	1.5	300
SF-79C	835	534	109-015	19.1	4.5	1.5	300
SF-79	835	524	109-014	19.1	4.5	1.4	450
SF-80C	835	534	109-013	19.1	4.5	1.3	450
SF-80	835	524	109-012	19.1	4.5	1.2	450
SF-81	835	524	109-008	19.1	4.5	0.8	450

SI Single Inverted Cone     Model (Shape) SI-33 (807) SI-46 (805) SI-61 (012)							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
SI-31		524	010-019	19.1	5.1	1.9	300
SI-33	807	524	010-015	19.1	4.4	1.5	300
SI-34	807	524	010-013	19.1	3.9	1.3	450
SI-37	807	524	010-017	19.1	4.4	1.7	300
SI-41	805	524	010-019	20.1	2.5	1.9	300
SI-42	805	524	010-017	20.1	1.9	1.7	300
SI-43	805	524	010-015	20.1	1.8	1.5	300
SI-44	805	524	010-013	20.1	1.4	1.3	450
SI-45	805	524	010-010	20.1	1.4	1.0	450
SI-46SC	805	544	010-015	19.1	1.5	1.5	300
SI-46C	805	534	010-014	19.0	1.4	1.4	450
SI-46	805	524	010-013	19.0	1.4	1.3	450
SI-S46	805	524	010-013	16.6	1.4	1.3	450
SI-47SC	805	544	010-017	19.1	1.9	1.7	300
SI-47C	805	534	010-015	19.0	1.8	1.5	300
SI-47	805	524	010-015	19.0	1.8	1.5	300
SI-48SC	805	544	010-019	19.1	2.0	1.9	300
SI-48C	805	534	010-017	19.0	1.9	1.7	300
SI-48	805	524	010-017	19.0	1.9	1.7	300
SI-S48	805	524	010-017	16.6	1.9	1.7	300
SI-61	012	524	012-010	19.2	1.3	1.0	450
SI-045	805	524	010-011	19.1	1.1	1.1	450

SO Straight Ogival End         Model (Shape) SO-11 (885) SO-12 (879) SO-13 (886) SO-20C (877K) SO-20 (877) SO-21C (878K) SO-21 (878)							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
SO-11	885	524	130-012	21.7	7.9	1.2	450
SO-12	879	524	290-015	24.1	10.0	1.5	300
SO-13	886	524	131-016	24.1	9.7	1.6	300
SO-14	886	524	131-018	24.1	9.7	1.8	300
SO-20C	877K	534	297-013	21.0	6.2	1.3	450
SO-S20C	877K	534	297-013	18.8	6.2	1.3	450
SO-20	877	524	297-012	21.0	6.2	1.2	450
SO-S20	877	524	297-012	18.8	6.2	1.2	450
SO-SS20	877K	524	297-012	16.8	6.2	1.2	450
SO-21SC	878	544	298-016	21.9	8.3	1.6	300
SO-21C	878K	534	298-015	21.8	8.2	1.5	300
SO-21	878	524	298-014	21.8	8.2	1.4	450
SO-22C	878	534	288-010	20.2	6.1	1.0	450
SO-23C	878	534	289-012	22.2	8.1	1.2	450
SO-23	878	524	289-017	22.1	8.2	1.7	300
SO-67	879	524	291-014	26.1	12.2	1.4	450

SR Straight Round End 		 Model (Shape) SR-11 (881) SR-54 (838)					
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
SR-11SC	881	544	141-014	22.3	8.3	1.4	450
SR-11C	881	534	141-013	22.2	8.2	1.3	450
SR-11	881	524	141-012	22.2	8.2	1.2	450
SR-12SC	881	544	141-016	22.3	8.3	1.6	300
SR-12C	881	534	141-015	22.2	8.2	1.5	300
SR-12	881	524	141-014	22.2	8.2	1.4	450
SR-13SC	881	544	141-018	22.3	8.3	1.8	300
SR-13C	881	534	141-017	22.2	8.2	1.7	300
SR-13	881	524	141-016	22.2	8.2	1.6	300
SR-54	838	524	139-012	19.3	4.2	1.2	450
SR-55	838	524	139-013	19.3	4.3	1.3	450
SR-56		524	140-013	20.6	7.2	1.3	450
SR-57	838	524	139-009	19.3	4.2	0.9	450

TC Taper Conical End 		 Model (Shape) TC-11 (852) TC-12 (859L) TC-14 (859) TC-21C (858)					
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
TC-11SC	852	544	166-018	22.1	10.3	1.8	300
TC-11C	852	534	166-017	22.0	10.2	1.7	300
TC-11	852	524	166-016	22.0	10.2	1.6	300
TC-11F	852	514	166-015	21.9	10.1	1.5	300
TC-11EF	852	504	166-013	21.8	9.9	1.3	450
TC-12	859L	524	167-011	26.1	11.7	1.1	450
TC-13	859L	524	167-014	25.1	11.3	1.4	450
TC-14	859	524	166-016	23.7	10.3	1.6	300
TC-14F	859	514	166-015	23.6	10.2	1.5	300
TC-14EF	859	504	166-013	23.5	10.0	1.3	450
TC-15	859	524	166-019	24.1	10.2	1.9	300
TC-16	859	524	166-018	23.2	10.4	1.8	300
TC-21C	858	534	165-015	22.0	8.2	1.5	300
TC-S21C	858	534	165-015	20.0	8.2	1.5	300
TC-21	852	524	165-014	22.0	8.2	1.4	450
TC-S21	852	524	165-014	20.0	8.2	1.4	450
TC-SS21	858	524	165-014	17.1	8.2	1.4	450
TC-21F	852	514	165-013	21.9	8.1	1.3	450
TC-SS21F	858	514	165-012	18.1	8.2	1.2	450
TC-21EF	852	504	165-011	21.8	7.9	1.1	450
TC-22		524	165-013	21.1	7.5	1.3	450
TC-23	858	524	165-013	21.1	7.3	1.3	450
TC-23F	858	514	165-013	21.0	7.2	1.3	450
TC-24	858	524	165-015	21.1	7.2	1.5	300

TC Taper Conical End     Model (Shape) TC-26 (852) TC-28 (859) TC-72 (858)							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
TC-25		524	164-018	21.1	6.4	1.8	300
TC-26C	852	534	164-011	21.2	6.1	1.1	450
TC-26	852	524	164-011	21.2	6.1	1.1	450
TC-28	859	524	166-011	23.2	10.2	1.1	450
TC-72C	858	534	165-011	21.8	7.9	1.1	450
TC-72	858	524	165-010	21.8	7.9	1.0	450
TC-73F	859	514	166-010	23.7	9.7	1.0	450
TC-74C	859	534	166-012	23.7	9.8	1.2	450

TF Taper Flat End       Model (Shape) TF-11SC (073) TF-11 (848) TF-14 (847) TF-20 (846) TF-22 (845)							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
TF-11SC	073	544	173-016	24.1	10.3	1.6	300
TF-11C	848	534	173-015	24.0	10.2	1.5	300
TF-11	848	524	173-014	24.0	10.2	1.4	450
TF-12SC	848	544	173-018	21.9	10.3	1.8	300
TF-12C	848	534	173-017	21.8	10.2	1.7	300
TF-12	848	524	173-016	21.8	10.2	1.6	300
TF-S12	848	524	173-016	21.2	10.3	1.6	300
TF-12F	848	514	173-015	21.7	10.1	1.5	300
TF-12EF	848	504	173-013	21.6	9.9	1.3	450
TF-13SC	848	544	173-020	21.9	10.3	2.0	300
TF-13C	848	534	173-019	21.8	10.2	1.9	300
TF-13	848	524	173-018	21.8	10.2	1.8	300
TF-14C	847	534	172-024	21.9	9.4	2.4	160
TF-14	847	524	172-023	21.8	9.3	2.3	160
TF-15	847	524	172-026	22.1	8.3	2.6	160
TF-20C	846	534	171-015	21.0	7.2	1.5	300
TF-S20C	846	534	171-015	18.8	7.2	1.5	300
TF-20	846	524	171-014	21.0	7.2	1.4	450
TF-S20	846	524	171-014	18.8	7.2	1.4	450
TF-21C	846	534	171-017	21.0	7.2	1.7	300
TF-S21C	846	534	171-017	18.8	7.2	1.7	300
TF-21	846	524	171-016	21.0	7.2	1.6	300
TF-S21	846	524	171-016	18.8	7.2	1.6	300
TF-21F	846	514	171-015	20.9	7.1	1.5	300
TF-21EF	846	504	171-013	20.8	6.9	1.3	450
TF-22SC	845	544	170-023	19.1	5.6	2.3	160
TF-22C	845	534	171-022	19.1	5.6	2.2	160
TF-22	845	524	170-021	19.0	5.5	2.1	300
TF-S22	845	524	170-021	16.9	5.5	2.1	300
TF-23C	845	534	170-019	20.1	5.2	1.9	300

TF Taper Flat End 		 Model (Shape) TF-23 (845) TF-33 (168)					
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
TF-23	845	524	170-018	20.1	5.2	1.8	300
TF-S23	845	524	170-018	17.1	5.2	1.8	300
TF-31SC	845	544	170-018	19.1	4.3	1.8	300
TF-31C	845	534	170-017	19.0	4.2	1.7	300
TF-31	845	524	170-016	19.0	4.2	1.6	300
TF-S31	845	524	170-016	16.8	4.2	1.6	300
TF-SS31	845	524	170-016	14.3	4.2	1.6	300
TF-33	168	524	170-013	21.1	4.2	1.3	450
TF-41C	845	534	170-012	19.1	3.7	1.2	450
TF-41	845	524	169-011	19.1	3.7	1.1	450
TF-S41	845	524	169-011	16.8	3.7	1.1	450
TF-42C	845	534	170-013	19.0	4.2	1.3	450
TF-42	845	524	170-012	19.0	4.2	1.2	450
TF-43C	845	534	170-015	19.0	4.2	1.5	300
TF-43	845	524	170-014	19.0	4.2	1.4	450

TO Taper Ogival End 		Model (Shape) TO-58C (877K)					
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
TO-58C	877K	534	297-014	21.2	6.1	1.4	450

TR Taper Round End 		 Model (Shape) TR-11 (850) TR-S13C (878K) TR-13 (856)					
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
TR-11C	850	534	199-017	21.8	10.2	1.7	300
TR-11	850	524	199-016	21.8	10.2	1.6	300
TR-11F	850	514	199-015	21.7	10.1	1.5	300
TR-11EF	850	504	199-013	21.6	9.9	1.3	450
TR-12SC	850	544	199-018	21.9	10.3	1.8	300
TR-12C	850	534	199-017	21.8	10.2	1.7	300
TR-12	850	524	199-016	21.8	10.2	1.6	300
TR-12EF	850	504	199-013	21.6	9.9	1.3	450
TR-13SC	856	544	198-020	21.9	9.3	2.0	300
TR-13C	856	534	198-019	21.8	9.2	1.9	300
TR-S13C	878K	534	299-019	20.9	9.6	1.9	300
TR-13	856	524	198-018	21.8	9.2	1.8	300

TR Taper Round End        Model TR-14 (856) TR-15C (850) TR-15 (850L) TR-20 (855) TR-26F (850) TR-62C (855)							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
TR-S13	856	524	299-018	20.9	9.6	1.8	300
TR-13F	856	514	198-017	21.7	9.1	1.7	300
TR-13EF	856	504	198-015	21.6	8.9	1.5	300
TR-14SC	856	544	198-024	22.1	9.4	2.4	160
TR-14C	856	534	198-023	22.1	9.4	2.3	160
TR-14	856	524	198-022	22.0	9.3	2.2	160
TR-S14	856	524	198-022	20.1	9.3	2.2	160
TR-S14EF	856	504	198-019	19.9	8.9	1.9	300
TR-15SC	850L	544	199-024	23.9	11.5	2.4	160
TR-15C	850	534	199-023	23.9	11.5	2.3	160
TR-15	850L	524	199-022	23.8	11.4	2.2	160
TR-17C	850	534	199-018	24.1	10.2	1.8	300
TR-19SC	850L	544	199-025	23.9	11.5	2.5	160
TR-19C	850L	534	199-024	23.9	11.5	2.4	160
TR-19	850L	524	199-023	23.8	11.4	2.3	160
TR-20C	855	534	197-015	21.0	7.2	1.5	300
TR-20	855	524	197-014	21.0	7.2	1.4	450
TR-21SC	855	544	197-018	21.2	7.3	1.8	300
TR-21C	855	534	197-017	21.1	7.2	1.7	300
TR-S21C	855	534	197-017	18.8	7.2	1.7	300
TR-SS21C	855	534	197-017	17.7	7.2	1.7	300
TR-21	855	524	197-016	21.1	7.2	1.6	300
TR-S21	855	524	197-016	18.8	7.2	1.6	300
TR-SS21	855	524	197-016	17.7	7.2	1.6	300
TR-21F	855	514	197-015	21.0	7.1	1.5	300
TR-21EF	855	504	197-013	20.9	6.9	1.3	450
TR-22	856	524	197-012	21.7	7.3	1.2	450
TR-23	856	524	198-016	21.7	8.2	1.6	300
TR-24C	855	534	197-019	21.2	7.2	1.9	300
TR-24	855	524	197-018	21.2	7.2	1.8	300
TR-25C	850	534	199-017	21.7	10.2	1.7	300
TR-25	850	524	199-016	21.7	10.2	1.6	300
TR-25F	850	514	199-015	21.6	10.1	1.5	300
TR-25EF	850	504	199-013	21.5	9.9	1.3	450
TR-26C	856	534	198-019	21.8	9.2	1.9	300
TR-26	850	524	198-018	21.8	9.2	1.8	300
TR-26F	850	514	198-017	21.7	9.1	1.7	300
TR-26EF	850	504	198-015	21.6	8.9	1.5	300
TR-27	856	524	198-012	21.2	8.2	1.2	450
TR-28C	856	534	198-012	21.2	8.1	1.2	450
TR-28	856	524	198-012	21.3	8.2	1.2	450
TR-29C	856	534	198-016	21.2	8.1	1.6	300
TR-29	856	524	198-016	21.2	8.2	1.6	300
TR-29F	856	514	198-016	21.1	8.1	1.6	300
TR-30		524	198-011	21.2	8.2	1.1	450
TR-62C	855	534	197-018	20.0	7.2	1.8	300

TR Taper Round End   Model (Shape) TR-256C (856)							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
TR-224C	850	534	199-012	24.2	10.3	1.2	450
TR-224	850	524	199-011	24.2	10.3	1.1	450
TR-256C	856	534	198-015	22.2	8.4	1.5	300
TR-257C	856	534	198-014	22.2	8.2	1.4	450
TR-258SC	855	544	197-027	21.4	7.5	2.7	160
TR-258C	855	534	197-026	21.4	7.5	2.6	160
TR-259C	856	534	198-012	22.2	8.4	1.2	450

WF Wheel Flat End   Model (Shape) WF-30 (815)							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
WF-30	815	524	041-024	19.2	0.6	2.4	160

WR Wheel Round End     Model (Shape) WR-12 (909) WR-14 (042) WR-31F (304)							
Model	Shape	Grit Size/ Color Coding	ISO Code	Overall Length	Working Length	Detail Max. Diameter	Max.Allowable Speed(K)
WR-12C		534	072-041	19.1	1.7	4.1	90
WR-12	909	524	072-040	19.0	1.6	4.0	160
WR-13SC	909	544	072-044	19.2	2.0	4.4	90
WR-13C	909	534	072-043	19.2	2.0	4.3	90
WR-13	909	524	072-042	19.1	1.9	4.2	90
WR-14	042	524	072-042	19.1	2.1	4.2	90
WR-31F	304	514	072-015	19.1	0.6	1.5	300
WR-S31F	304	514	072-015	16.6	0.6	1.5	300

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