

Cutter Sets

Cutter sets are ready made 5 piece kits featuring 14, 16, 18, 20 & 22mm cutters and pilot pin to suit. Perfect for the site worker's tool box.

Cutter Set Part Numbers		
Coating	1" diameter	2" diameter
Turbo Steel	JEICS-SET5	JEICS-SET5
	JEICS-SET11	JEICS-SET11
	JEICS-SET50	JEICS-SET50
Endurance	JEIICS-SET5	JEIICL-SET5
Turbo Tough	JEITCS-SET5	JEITCL-SET5
Endurance +	JEIETCS-SET5	JEIETCL-SET5



Available in Turbo Steel, Tough, Endurance & Endurance+ short and long series.

Pilot Pins

A pilot pin or centre pin as it is also known, is used for ejecting the slug from the centre of the cutter on completion of the hole. The pilot pin is also used as the central focal point when positioning the drill on the pre marked steel. The pilot pin allows the coolant to flow inside of the cutting teeth, extending tool life.



Pilot Pins - Part Numbers						
Coating	Range	Size				
		1"	2"	3"	4"	6"
Turbo Steel & Turbo Endurance	10.5 to 65mm	JEIPILOT1	JEIPILOT2	JEIPILOT3/8MM	JEIPILOT4/8MM	JEIPILOT6/8MM
	66mm +	JEIPILOT1/8MM/W	JEIPILOT2/8MM/W	JEIPILOT3/8MM/W	JEIPILOT4/8MM/W	JEIPILOT6/8MM/W
Turbo Tough & Turbo Endurance+	12mm to 17mm	JEIPILOT1/TCTS	JEIPILOT2	-	-	-
	18mm to 65mm	JEIPILOT1/8MM	JEIPILOT2/8MM	JEIPILOT3/8MM	JEIPILOT4/8MM	JEIPILOT6/8MM
	66mm +	JEIPILOT1/8MM/W	JEIPILOT2/8MM/W	JEIPILOT3/8MM/W	JEIPILOT4/8MM/W	JEIPILOT6/8MM/W

turbo ENDURANCE



Turbo Endurance has an innovative coating offering extensive tool life, allowing you to drill holes in a wide range of challenging material.

Size Range	10.5mm - 52mm Ø
Cutting Depths	1", 2",
Max. Tensile Strength	<1000RM (N/mm2)
Ideal for	Mild steel, stainless steel, some cast iron and exotic materials

turbo ENDURANCE

Turbo Endurance Part Numbers					
Coated Cutter					
Diameter	Length				
	1"	2"	3"	4"	6"
10.5mm	ECS10.5-P1	ECL10.5-P2	-	-	-
11mm	ECS11-P1	ECL11-P2	-	-	-
12mm	ECS12-P1	ECL12-P2	-	-	-
13mm	ECS13-P1	ECL13-P2	-	-	-
14mm	ECS14-P1	ECL14-P2	-	-	-
15mm	ECS15	ECL15	-	-	-
16mm	ECS16	ECL16	-	-	-
17mm	ECS17	ECL17	-	-	-
18mm	ECS18	ECL18	ECX18	ECXL18	-
19mm	ECS19	ECL19	ECX19	ECXL19	-
20mm	ECS20	ECL20	ECX20	ECXL20	-
21mm	ECS21	ECL21	ECX21	ECXL21	-
22mm	ECS22	ECL22	ECX22	ECXL22	ECXXL22
23mm	ECS23	ECL23	ECX23	ECXL23	ECXXL23
24mm	ECS24	ECL24	ECX24	ECXL24	ECXXL24
25mm	ECS25	ECL25	ECX25	ECXL25	ECXXL25
26mm	ECS26	ECL26	ECX26	ECXL26	ECXXL26
27mm	ECS27	ECL27	ECX27	ECXL27	ECXXL27
28mm	ECS28	ECL28	ECX28	ECXL28	ECXXL28
29mm	ECS29	ECL29	ECX29	ECXL29	ECXXL29
30mm	ECS30	ECL30	ECX30	ECXL30	ECXXL30
31mm	ECS31	ECL31	ECX31	ECXL31	ECXXL31
32mm	ECS32	ECL32	ECX32	ECXL32	ECXXL32
33mm	ECS33	ECL33	ECX33	ECXL33	ECXXL33
34mm	ECS34	ECL34	ECX34	ECXL34	ECXXL34
35mm	ECS35	ECL35	ECX35	ECXL35	ECXXL35
36mm	ECS36	ECL36	ECX36	ECXL36	ECXXL36
37mm	ECS37	ECL37	ECX37	ECXL37	ECXXL37
38mm	ECS38	ECL38	ECX38	ECXL38	ECXXL38
39mm	ECS39	ECL39	ECX39	ECXL39	ECXXL39
40mm	ECS40	ECL40	ECX40	ECXL40	ECXXL40

Sizes available up to 52mm. For larger sizes please ask about our Turbo Tailored range.

Turbo Endurance		
Prefix	Size	Cutting Depth
ECS	Short Series	1"
ECL	Long Series	2"
ECX	Extra Series	3"
ECXL	Extra Long Series	4"
ECXXL	Extra, Extra Long	6"

turbo ENDURANCE+

The World's Toughest Cutter!



Also available as a countersinking tool

Turbo Endurance+ cutters are designed and manufactured by JEI to drill holes in the world's toughest materials. The super tough PVD (physical vapour despoition) coating provides unrivaled surface hardness, friction free cutting face and better heat transfer at the surface. These great benefits allow the Turbo Endurance+ to drill through Hardox, Weldox, Abro, Armour Plate and Duplex as if was mild steel. With fantastic tool life, the Turbo Endurance+ saves time and money for the user on every occasion.

Size Range	10.5mm - 200mm Ø
Cutting Depths	1", 2", 3", 4", 6"
Max. Tensile Strength	<1600RM (N/mm2)
Ideal for	The toughest materials

Turbo Endurance+ Advantages

- Cuts 3 time quicker than a conventional twist drill
- Increases machine capacity
- Produces a quality burr free hole
- Eliminates time consuming pilot holes and step drilling
- Resharpenable cutting edges

turbo ENDURANCE+

Turbo Endurance+ Part Numbers					
Super Coated Cutter					
Diameter	Length				
	1"	2"	3"	4"	6"
12mm	ETCS12	ETCL12	-	-	-
13mm	ETCS13	ETCL13	-	-	-
14mm	ETCS14	ETCL14	-	-	-
15mm	ETCS15	ETCL15	-	-	-
16mm	ETCS16	ETCL16	-	-	-
17mm	ETCS17	ETCL17	-	-	-
18mm	ETCS18	ETCL18	ETCX18	ETCXL18	-
19mm	ETCS19	ETCL19	ETCX19	ETCXL19	-
20mm	ETCS20	ETCL20	ETCX20	ETCXL20	-
21mm	ETCS21	ETCL21	ETCX21	ETCXL21	-
22mm	ETCS22	ETCL22	ETCX22	ETCXL22	ETCXXL22
23mm	ETCS23	ETCL23	ETCX23	ETCXL23	ETCXXL23
24mm	ETCS24	ETCL24	ETCX24	ETCXL24	ETCXXL24
25mm	ETCS25	ETCL25	ETCX25	ETCXL25	ETCXXL25
26mm	ETCS26	ETCL26	ETCX26	ETCXL26	ETCXXL26
27mm	ETCS27	ETCL27	ETCX27	ETCXL27	ETCXXL27
28mm	ETCS28	ETCL28	ETCX28	ETCXL28	ETCXXL28
29mm	ETCS29	ETCL29	ETCX29	ETCXL29	ETCXXL29
30mm	ETCS30	ETCL30	ETCX30	ETCXL30	ETCXXL30
31mm	ETCS31	ETCL31	ETCX31	ETCXL31	ETCXXL31
32mm	ETCS32	ETCL32	ETCX32	ETCXL32	ETCXXL32
33mm	ETCS33	ETCL33	ETCX33	ETCXL33	ETCXXL33
34mm	ETCS34	ETCL34	ETCX34	ETCXL34	ETCXXL34
35mm	ETCS35	ETCL35	ETCX35	ETCXL35	ETCXXL35
36mm	ETCS36	ETCL36	ETCX36	ETCXL36	ETCXXL36
37mm	ETCS37	ETCL37	ETCX37	ETCXL37	ETCXXL37
38mm	ETCS38	ETCL38	ETCX38	ETCXL38	ETCXXL38
39mm	ETCS39	ETCL39	ETCX39	ETCXL39	ETCXXL39
40mm	ETCS40	ETCL40	ETCX40	ETCXL40	ETCXXL40

Sizes available up to 200mm.



Turbo Endurance+		
Prefix	Size	Cutting Depth
ETCS	Short Series	1"
ETCL	Long Series	2"
ETCX	Extra Series	3"
ETCXL	Extra Long Series	4"
ETCXXL	Extra, Extra Long	6"

High Performance Annular Broaching Cutters





Guide to JEI turbo™ Cutters - Part Numbers



(ETC = Turbo Endurance+, X = 3" depth of cut, 24mm diameter)

ETCX24

Coating	Depth of cut	Cutter Diameter
*"C" prefix = Turbo Steel/HSS (M2)	S = 1"	Noted numerically at the end of the cutter part number.
*"TC" prefix = Turbo Tough/TCT	L = 2"	
*"EC" prefix = Turbo Endurance/Coated	X = 3"	
*"ETC" prefix = Turbo Endurance+/ Super Coated	XL = 4"	
*"RCS" prefix = Turbo Rail	XXL = 6"	

Artin Bonyan Co.
 No.2, Jolfa Str, Tehran, Iran (IR)
 Phone: + 98 21 22876451
 Fax: + 98 21 22891297
 Web: www.artinbonyan.biz
 E-mail: info@artinbonyan.biz

turboSTEEL



Also available as a countersinking tool

Size Range	10.5mm - 115mm Ø
Cutting Depths	1", 2", 3", 4", 6"
Max. Tensile Strength	<750RM (N/mm2)
Ideal for	Most mild and structural steel

Turbo Steel Advantages

- Cuts 3 time quicker than a conventional twist drill
- Increases machine capacity
- Produces a quality burr free hole
- Eliminates time consuming pilot holes and step drilling
- Resharpenable cutting edges

In tests, our Turbo annular broaching cutters proved to be the most cost effective available to the market today.

turboSTEEL

Turbo Steel Part Numbers					
M2 Cutter					
Diameter	Length				
	1"	2"	3"	4"	6"
10.5mm	CS10.5-P1	CL10.5-P2	-	-	-
11mm	CS11-P1	CL11-P2	-	-	-
12mm	CS12-P1	CL12-P2	-	-	-
13mm	CS13-P1	CL13-P2	-	-	-
14mm	CS14-P1	CL14-P2	-	-	-
15mm	CS15	CL15	-	-	-
16mm	CS16	CL16	-	-	-
17mm	CS17	CL17	-	-	-
18mm	CS18	CL18	CX18	CXL18	-
19mm	CS19	CL19	CX19	CXL19	-
20mm	CS20	CL20	CX20	CXL20	-
21mm	CS21	CL21	CX21	CXL21	-
22mm	CS22	CL22	CX22	CXL22	CXXL22
23mm	CS23	CL23	CX23	CXL23	CXXL23
24mm	CS24	CL24	CX24	CXL24	CXXL24
25mm	CS25	CL25	CX25	CXL25	CXXL25
26mm	CS26	CL26	CX26	CXL26	CXXL26
27mm	CS27	CL27	CX27	CXL27	CXXL27
28mm	CS28	CL28	CX28	CXL28	CXXL28
29mm	CS29	CL29	CX29	CXL29	CXXL29
30mm	CS30	CL30	CX30	CXL30	CXXL30
31mm	CS31	CL31	CX31	CXL31	CXXL31
32mm	CS32	CL32	CX32	CXL32	CXXL32
33mm	CS33	CL33	CX33	CXL33	CXXL33
34mm	CS34	CL34	CX34	CXL34	CXXL34
35mm	CS35	CL35	CX35	CXL35	CXXL35
36mm	CS36	CL36	CX36	CXL36	CXXL36
37mm	CS37	CL37	CX37	CXL37	CXXL37
38mm	CS38	CL38	CX38	CXL38	CXXL38
39mm	CS39	CL39	CX39	CXL39	CXXL39
40mm	CS40	CL40	CX40	CXL40	CXXL40

Sizes available up to 115mm

Turbo Steel		
Prefix	Size	Cutting Depth
CS	Short Series	1"
CL	Long Series	2"
CX	Extra Series	3"
CXL	Extra Long Series	4"
CXXL	Extra, Extra Long	6"

Visit www.jeiuk.com for details of Turbo Steel part numbers.

turboTOUGH



Also available as a countersinking tool

Size Range	14mm - 200mm Ø
Cutting Depths	1", 2", 3", 4", 6"
Max. Tensile Strength	<1200RM (N/mm2)
Ideal for	Mild steel, cast iron and structural steel

Turbo Tough Advantages

- Heavy duty carbide tips and multiple edge geometry improves production time
- Added reliability for challenging on site drilling applications
- Ideal for bridge construction and refits
- Resharpenable cutting edges

The JEI Turbo Tough (TCT) cutter is designed to drill a variety of materials from mild steel to cast iron. Made from micro grain carbide powder combined with a cobalt binding agent, its teeth have a super strong structure which provides exceptional tool life. The special Turbo Tough geometry gives even tooth loading for a vibration free cut. This special geometry allows holes up to 200mm achieving the best drilling experience with our MagBeast 4 & 5 portable magnetic drilling machines.

turboTOUGH

Turbo Tough Part Numbers					
TCT Cutter					
Diameter	Length				
	1"	2"	3"	4"	6"
12mm	TCS12	TCL12	-	-	-
13mm	TCS13	TCL13	-	-	-
14mm	TCS14	TCL14	-	-	-
15mm	TCS15	TCL15	-	-	-
16mm	TCS16	TCL16	-	-	-
17mm	TCS17	TCL17	-	-	-
18mm	TCS18	TCL18	TCX18	TCXL18	-
19mm	TCS19	TCL19	TCX19	TCXL19	-
20mm	TCS20	TCL20	TCX20	TCXL20	-
21mm	TCS21	TCL21	TCX21	TCXL21	-
22mm	TCS22	TCL22	TCX22	TCXL22	TCXXL22
23mm	TCS23	TCL23	TCX23	TCXL23	TCXXL23
24mm	TCS24	TCL24	TCX24	TCXL24	TCXXL24
25mm	TCS25	TCL25	TCX25	TCXL25	TCXXL25
26mm	TCS26	TCL26	TCX26	TCXL26	TCXXL26
27mm	TCS27	TCL27	TCX27	TCXL27	TCXXL27
28mm	TCS28	TCL28	TCX28	TCXL28	TCXXL28
29mm	TCS29	TCL29	TCX29	TCXL29	TCXXL29
30mm	TCS30	TCL30	TCX30	TCXL30	TCXXL30
31mm	TCS31	TCL31	TCX31	TCXL31	TCXXL31
32mm	TCS32	TCL32	TCX32	TCXL32	TCXXL32
33mm	TCS33	TCL33	TCX33	TCXL33	TCXXL33
34mm	TCS34	TCL34	TCX34	TCXL34	TCXXL34
35mm	TCS35	TCL35	TCX35	TCXL35	TCXXL35
36mm	TCS36	TCL36	TCX36	TCXL36	TCXXL36
37mm	TCS37	TCL37	TCX37	TCXL37	TCXXL37
38mm	TCS38	TCL38	TCX38	TCXL38	TCXXL38
39mm	TCS39	TCL39	TCX39	TCXL39	TCXXL39
40mm	TCS40	TCL40	TCX40	TCXL40	TCXXL40

Sizes available up to 200mm

Turbo Tough		
Prefix	Size	Cutting Depth
TCS	Short Series	1"
TCL	Long Series	2"
TCX	Extra Series	3"
TCXL	Extra Long Series	4"
TCXXL	Extra, Extra Long	6"

Visit www.jeiuk.com for details of Turbo Tough part numbers.

turboRAIL



Size Range	13.5mm - 36mm Ø
Cutting Depths	1"
Max. Tensile Strength	<1600RM (N/mm2)
Ideal for	All types of rail track drilling

Turbo Rail has been specifically designed and manufactured by JEI for cutting rail track. Using the latest ENDURANCE coating technology, this rail cutter provides exceptional tool life. With an increased surface hardness, Turbo Rail can tackle the world's toughest rail material. In tests with Balfour Beatty Rail, the JEI Turbo Rail, consistently tripled their former tool life.