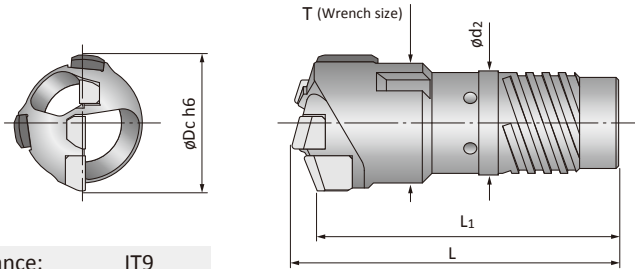


TYPE  
**ETU**

Thread	Dia. (mm)	Rework service	Use
Outer	18.40 - 65.00	Retipping	First recommendation in brazed drills



Tolerance: IT9  
Surface roughness: Ra 2 $\mu$ m

**Best suited carbide combination**  
Best grade available for each workpiece material

**Good chip evacuation**  
Best tip geometry to ensure good chip control and efficient chip exhaust

**Cost efficient retipping service**  
Retipping of used carbide tips and guide pads and re-coating available

### Product description chart

Dia. Dc (mm) Tolerance h6	Drill head main code	Drill tube		Dimensions (mm)			
		Code	Dia.(mm)	L	L <sub>1</sub>	d <sub>2</sub>	T
18.40 - 19.20	ETU-001	OT00	18	50	47.1	16	17
19.21 - 20.00	ETU-002	OT00	18	50	47	16	18
20.01 - 20.90	ETU-011	OT01	19.5	56	52.8	18	18
20.91 - 21.80	ETU-012	OT01	19.5	56	52.7	18	19
21.81 - 22.90	ETU-021	OT02	21.5	56	52.8	19.5	20
22.91 - 24.10	ETU-022	OT02	21.5	56	52.6	19.5	21
24.11 - 25.20	ETU-031	OT03	23.5	57.5	54	21	23
25.21 - 26.40	ETU-032	OT03	23.5	57.5	54	21	24
26.41 - 27.50	ETU-041	OT04	26	60.5	56.8	23.5	25
27.51 - 28.70	ETU-042	OT04	26	60.5	56.8	23.5	26
28.71 - 29.80	ETU-051	OT05	28	63.5	59.5	25.5	27
29.81 - 31.00	ETU-052	OT05	28	63.5	59.3	25.5	28
31.01 - 32.10	ETU-061	OT06	30.5	63.5	59.4	28	29
32.11 - 33.30	ETU-062	OT06	30.5	63.5	59.2	28	30
33.31 - 34.80	ETU-071	OT07	33	70.5	66	30	32
34.81 - 36.20	ETU-072	OT07	33	70.5	65.8	30	33
36.21 - 37.30	ETU-081	OT08	35.5	73.5	68.7	33	34
37.31 - 38.40	ETU-082	OT08	35.5	73.5	68.5	33	35
38.41 - 39.60	ETU-083	OT08	35.5	73.5	68.3	33	36
39.61 - 40.60	ETU-091	OT09	39	73.5	68.2	36	37
40.61 - 41.80	ETU-092	OT09	39	73.5	68	36	38
41.81 - 43.00	ETU-093	OT09	39	73.5	67.9	36	39
43.01 - 44.30	ETU-101	OT10	42.5	75	69.5	39	41
44.31 - 45.60	ETU-102	OT10	42.5	75	69.3	39	42
45.61 - 47.00	ETU-103	OT10	42.5	75	69.1	39	43
47.01 - 48.50	ETU-111	OT11	46.5	79	72.9	43	44
48.51 - 50.10	ETU-112	OT11	46.5	79	72.8	43	46
50.11 - 51.70	ETU-113	OT11	46.5	79	72.5	43	47
51.71 - 53.20	ETU-121	OT12	51	82	75.3	47	49
53.21 - 54.70	ETU-122	OT12	51	82	75.5	47	50
54.71 - 56.20	ETU-123	OT12	51	82	75.3	47	51
56.21 - 58.40	ETU-131	OT13	55.5	84	77.4	51	54
58.41 - 60.60	ETU-132	OT13	55.5	84	76.9	51	55
60.61 - 62.80	ETU-133	OT13	55.5	84	77	51	57
62.81 - 65.00	ETU-134	OT13	55.5	84	76.6	51	59

### Grade

See page 9 for grade selection chart

Grade	(Previous Grade)	ISO area							
		5	10	15	20	25	30	35	40
P	1122 (UP ZAP)								
	1132 (UX-2 ZAP)								
M	1132 (UX-2 ZAP)								
	2122 (N3 ZAP)								
K	3132 (TFKS ZAP)								
N	3132 (TFKS ZAP)								
S	3132 (TFKS ZAP)								

• A drill head without coating also available upon request. Please contact us for more detail.

### Ordering example

ETU -       -

Drill head main code      Diameter (mm)      Grade

Ordering example : ETU-052 30.00-1132      20 pcs

- Be sure to use a wrench to tighten drill properly to bar.
- For your safety, do not touch the tool or the workpiece when in operation.