

ROTATING CUTTER TECHNOLOGY

Revolving rotary drum cutters for excavators with weight from 2 to 50 t

The ERC range from **erkat** represents a new generation of rotation units that extends significantly the number of applications suitable for transverse rotary drum cutters. The drum cutters have integrated, hydraulically driven rotation units designed by **erkat**.

The range consists of eight sizes suitable for excavators with weights from 2 to a maximum of 50 tons.

The integrated rotation unit with continuous infinite rotation, allows the drum cutter to be put into the ideal cutting position. Positioning the drum cutter for the most efficient cutting action helps to increase productivity. Rotation units are fitted with a hydraulic swivel joint as standard.

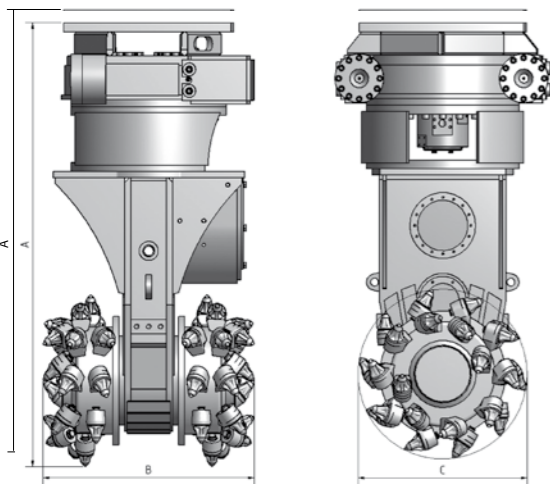


continuous rotating drum cutter with **erkat** rotation unit



erkat revolving drum cutters increase productivity by up to 50 % in applications such as tunnelling and trenching. Vertical surfaces can be ground more accurately resulting in faster and lower cost profiling.

- + continuous, infinite **erkat** rotation unit
- + narrower trenching
- + special hydraulic swivel allowing oil flow up to 400 l/min
- + operating with cutter drums in the optimum position reduces damage caused by energy transfer back to the carrier
- + longer life for hydraulic hoses and reduced pick consumption
- + continuous and infinite positioning of the cutter drums



TECHNICAL DATA	Units	ERC 50	ERC 100	ERC 250	ERC 600	ERC 650	ERC 1500 X	ERC 1500 XL	ERC 2000
Length of drum cutter (A)	mm	910	1,120	1,270	1,500	1,560	1,870	1,870	1,950
Width of standard cutting head (B)	mm	480	610	680	780	800	880	1,000	1,200
Diameter of standard cutting head (C)	mm	225	370	450	575	575	670	670	680
Recommended rotation speed	rpm	150	110	90	80	85	75	75	65
Recommended oil flow	l/min	25 - 38	41 - 62	60 - 85	120 - 150	140 - 190	180 - 300	180 - 300	300 - 390
Maximum oil flow at 10 bar	l/min	60	90	100	170	210	320	320	410
Maximum operating oil pressure	bar	350	350	350	350	350	350	350	350
Torque at 350 bar	Nm	960 - 1,420	2,100 - 3,120	3,500 - 5,200	8,700 - 10,400	9,400 - 14,000	13,600 - 23,400	13,600 - 23,400	22,300 - 33,500
Cutting force at 350 bar	N	8,500 - 12,600	12,000 - 17,800	15,600 - 23,200	30,200 - 36,200	32,700 - 48,700	40,600 - 69,900	40,600 - 69,900	65,600 - 98,500
Weight	kg	245	490	620	1235	1,470	2,450	2,550	3,320
Rated power	kW	18	30	45	65	80	120	120	160
Recommended excavator weight	t	2 - 3	4 - 8	8 - 12	10 - 18	15 - 25	20 - 40	20 - 40	35 - 50
Number of picks	Pcs	60	64	44	48	48	44	48	56
Standard pick ¹⁾	Type	ER 11/28/24/12	ER 12/45/38/20 K	ER 12/45/38/22 HC	ER 17/64/60/25 Q	ER 17/64/60/25 Q	ER 17/75/70/30 Q	ER 17/75/70/30 Q	ER 19/75/70/30 Q
Rotation unit	Type	ERU 1	ERU 2	ERU 2	ERU 3	ERU 4	ERU 5	ERU 5	ERU 6

¹⁾ An overview of standard picks is on page 39.
Cutter drums can be supplied with picks for special applications as required – see Cutter Tool Catalogue.

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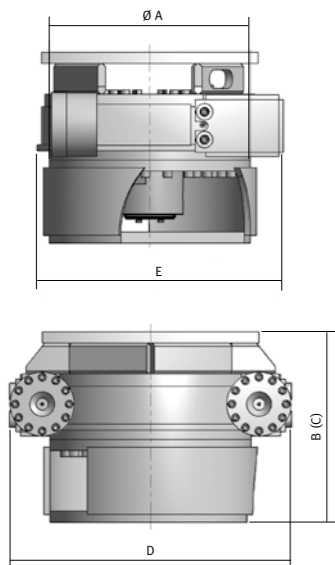
Rotation units for use with excavator mounted rotary drum cutters in tunnelling, trenching and profiling vertical surfaces

The ERU range from **erkat** represents a new generation of rotation units, tough enough for use with rotary drum cutters in tunnelling, trenching and profiling applications. The rotation units are long-lasting, robust and low-maintenance.

In total, there are six models for excavators from 2 to a maximum of 50 tons available in the ERU range. The ERU 3 and larger sized units are fitted with double motors as standard.

When combined with the endlessly rotating **erkat** rotation units, rotary drum cutters can be located in the ideal position to meet cutting requirements. All rotation units have a hydraulic swivel joint as standard allowing endless rotation of the rotary drum cutter.

Combining a standard **erkat** drum cutter with an ERU rotation unit is a simple procedure. **erkat** rotation units can also be fitted to rotary drum cutters from other manufacturers!



TECHNICAL DATA	Units	ERU 1	ERU 2	ERU 3	ERU 4	ERU 5	ERU 6
Diameter drive (A)	mm	292	367	456	567	610	700
Overall height with swivel joint (B)	mm	415	450	520	600	636	620
Length (D)	mm	530	640	760	770	780	910
Width (E)	mm	370	450	600	700	770	800
Maximum oil flow at 10 bar	l/min	10	10	30	40	40	40
Maximum operating oil pressure	bar	160	160	160	160	160	160
Maximum holding torque	Nm	6,300	11,100	44,700	95,000	200,000	270,000
Weight	kg	125	200	440	700	900	1,000
Recommended excavator weight	t	2 - 4	5 - 12	13 - 20	15 - 25	25 - 40	30 - 50
Number of drive motors	Pcs	1	1	2	2	2	2
Recommended for erkat drum cutter	Type	ER 50	ER 250	ER 600	ER 650	ER 1200 ER 1500 X ER 1500 XL	ER 1500 XL ER 2000

- + long lasting and robust worm gear and gear box
- + components made to tight tolerances
- + worm gear made from high-quality steel
- + robust bearings
- + hydraulic swivel joint with maximum oil flow capacity 400 l/min
- + continuous and infinite rotation
- + extremely high holding torque; up to 270 kNm
- + compact and low maintenance
- + double rotation motors used from ERU 3 upwards

