

trenching | the | world

ROTATION UNITS
REVOLVING ROTARY
DRUM CUTTERS

REVOLVING CUTTING TECHNOLOGY

BROADEN
NEW HORIZONS



erkat®

construction | steel industry
mining | tunneling | forestry

special cutters

erkat | rotation units

The **ERU SERIES** from Erkat represents a new generation of rotation units specifically designed for heavy duty tunnelling, trenching and concrete renovation applications. Continuous, infinite, rotation allows the drum cutter to be correctly aligned for every cutting requirement. Rotation units are fitted with a hydraulic swivel joint as standard, allowing continuous and infinite rotation without fouling hydraulic hoses.



The Oil Quick coupler is not included in the standard package.

features

- long lasting, robust worm gear and housing for drum cutters in tunnelling and trenching applications
- worm gears made to tight tolerances
- worm gear wheel made from top quality steel
- robust bearings
- hydraulic swivel joint capable of passing up to 400 l/min
- continuous and infinite rotational capability
- compact and low maintenance
- very high locking torque
- 2 hydraulic motors are standard on size 3 and higher

benefits

- up to 50% increased productivity in tunnelling and trenching applications
- improved accuracy when cutting wall surfaces
- quicker and more economical profiling of tunnels
- improved positioning of the cutter head reduces stress on the excavator through smoother cutting operation
- smoother cutting action results in lower pick consumption
- indexing the cutter head enables smaller trench widths
- lower costs arising from worn hydraulic hoses

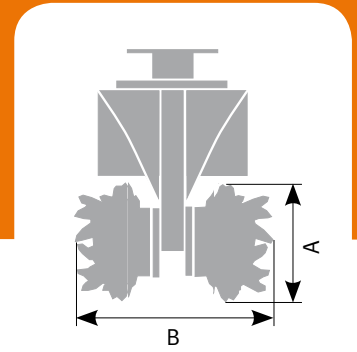
Standard Erkat drum cutters can be fitted with Erkat **ERU** rotation units. Erkat rotation units can also be used with other makes of drum cutter.



Used in foundation application

erkat | revolving rotation drum cutters

The new generation, **ERC** drum cutters from Erkat consists of standard, proven rotary drum cutters with integrated rotation units. There are 10 models in the range, suitable for excavators from 2 to 50 tons weight.



SERIES ERC

for excavators from 2 to 50 tons

	Unit	ERC 50	ERC 100	ERC 250	ERC 600
Cutter drum diameter (A)	mm	225	320	400	575
Cutter head width (B)	mm	480	550	620	780
Recommended oil flow cutter	l/min	38	62	90	150
Max. Torque at 350 bar	Nm	1.419	3.115	5.200	10.400
Cutting force at 350 bar	N	1.2613	19.469	26.000	36.174
Approx. Weight	kg	295	450	590	1.280
Recommended excavator weight	tons	2 - 3	4 - 8	8 - 12	10 - 20
Rotation Unit	Typ	ERU 1	ERU 2	ERU 2	ERU 3

applications



Tunneling applications



Wall profiling applications

	ERC 650	ERC 650 P	ERC 1200	ERC 1500 X	ERC 1500 XL	ERC 2000
	575	540	650	670	670	680
	800	1066	850	850	1.000	1.200
	190	190	300	300	300	370
	13.300	12.466	23.400	23.400	23.400	33.500
	46.261	46.170	72.000	72.000	72.000	98.529
	1.580	1.800	2.620	2.620	2.720	3.100
	15 - 25	15 - 25	20 - 40	20 - 40	20 - 40	30 - 50
	ERU 4	ERU 4	ERU 5	ERU 5	ERU 5	ERU 6

| applications

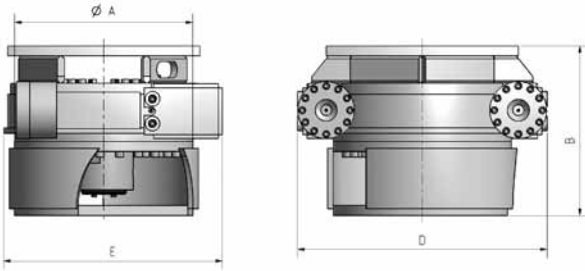


Trenching applications



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special cutters



The **ERU** range of rotation units consists of 6 models for excavator weights from 2 to 50 tons.



SERIES ERU

for excavators from 2 to 50 tons

Unit	ERU 1	ERU 2	ERU 3	ERU 4	ERU 5	ERU 6
Housing Diameter (A)	mm	292	367	456	567	700
Total Height Incl. Hydraulic Swivel Joint (B)	mm	415	450	520	600	636
Length (D)	mm	530	640	760	770	910
Width (E)	mm	370	450	600	700	800
Approx. Weight	kg	125	200	440	700	900
Max. Oil Flow	l/min	10	10	30	40	40
Operating Pressure	bar	160	160	160	160	160
Max. Locking Torque	Nm	6.300	11.100	44.700	95.000	200.000
Number of hydraulic motors	pcs	1	1	2	2	2
Recommended excavator weight	tons	2 - 4	5 - 12	13 - 20	15 - 25	25 - 40
Recommended Erkat drum cutter	type	ER 50	ER 250	ER 600	ER 650	ER 1200 ER 1500 X ER 1500 XL

applications

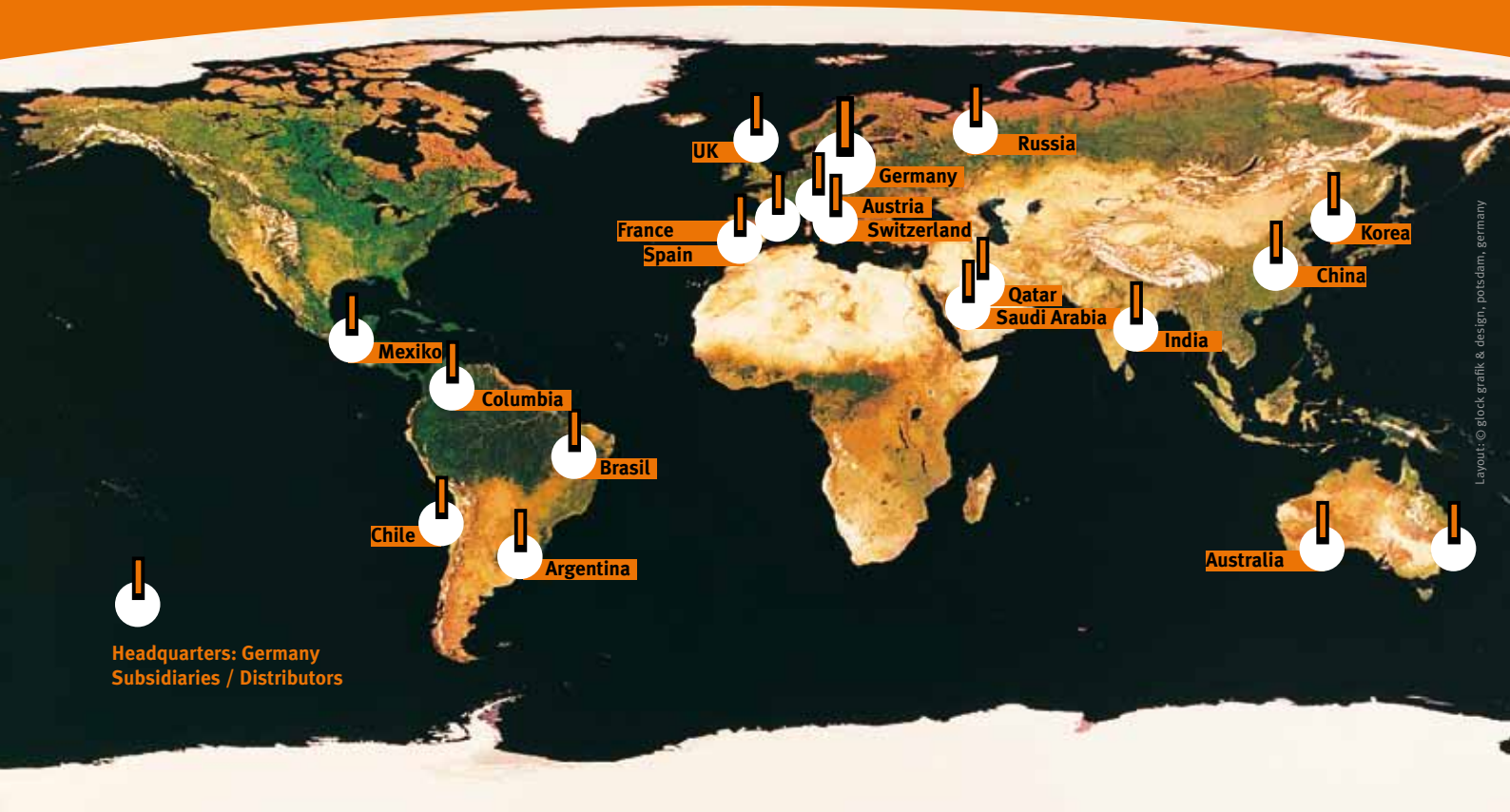


Tunnelling and wall profiling applications



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Erkat has a worldwide network consisting of distributors and subsidiaries. For more information, please contact Mr. Ertmer at +49 3695 60 34 66

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