

TFC



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SIMEX
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CUTTER HEADS WITH CONTINUOUS CUTTING

category

1.2 - 12 TON



Mini Exc.



Midi Exc.



Backhoe

models

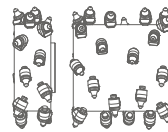
TFC 50 | TFC 100 | TFC 400 | TFC 600

The TFC cutter heads with continuous cutting are specifically designed for mounting on mini-excavators and excavators up to 12 tons. They feature an innovative **system without gaps at centre or side footprints** and are ideal for finishing flat surfaces and trenches. Quiet and precise in the work zone, they do not intrude on the surrounding area. Versatile and high-performing, they can also be utilized for crushing roots and tree trunks, milling asphalt and cement, milling plaster.

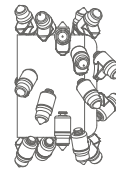
CONDUITS



DRUMS



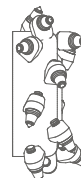
STANDARD
For TFC 50



STANDARD
For TFC 100



STANDARD
For TFC 400



STANDARD
For TFC 600

TEETH



STANDARD
For TFC 50



STANDARD
For TFC 100

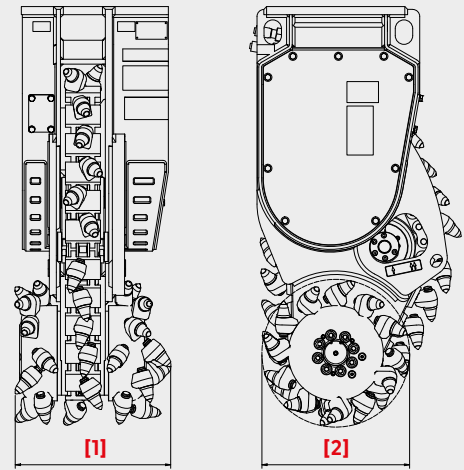


STANDARD
For TFC 400



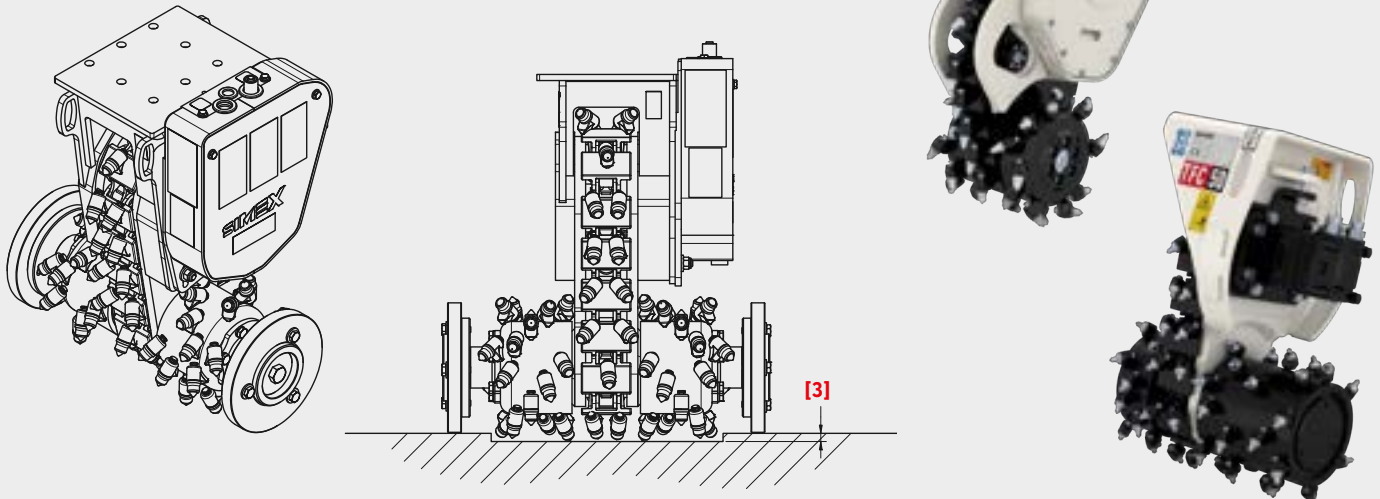
STANDARD
For TFC 600

- A** Hydraulic motor
- B** The double drum system plus central chain makes the front continuous cutting profile without gaps at centre.



SUPPORT WHEELS (OPTIONAL)

All models in the TFC range may be fitted with lateral disks to ensure perfect control on the thickness of the milled material. Ideal for precision removal work, such as removing plaster from walls. Wheel diameters available on request.



TECHNICAL DATA		TFC 50	TFC 100	TFC 400	TFC 600
Width (cutting profile) [1]	mm	370	480	440 / 500 (*)	490 / 540 (*)
	inch	15	19	17 / 20 (*)	20 / 21 (*)
Drum diameter (cutting profile) [2]	mm	230	260	420	480
	inch	9	10	16	19
Max. depth adjustable thickness with support wheels [3]	mm	30	40	60	60
	inch	1.2	1.6	2.4	2.4
Weight (*)	kg	90	170	400	670
	lbs	200	375	880	1470
Recommended excavator weight (**)	ton	1.2 - 3.0	2.5 - 4.5	6 - 10	9 - 12
	lbs	2640 - 6600	5600 - 9900	13000 - 22000	20000 - 26400
Required oil flow (***)	l/min	20 - 40	30 - 60	65 - 115	90 - 150
	gpm	5 - 10	8 - 16	17 - 30	24 - 40
Maximum oil pressure (****)	bar	250	300	300	300
	psi	3625	4350	4350	4350
Rotation torque	Nm	600 (at 250 bar)	1060 (at 300 bar)	3800 (at 300 bar)	5900 (at 300 bar)
	lbf.ft	445 (at 3625 psi)	780 (at 4350 psi)	2800 (at 4350 psi)	4350 (at 4350 psi)
Max. cutting force	N	5100 (at 250 bar)	8100 (at 300 bar)	18500 (at 300 bar)	24500 (at 300 bar)
	lbf	1145 (at 3625 psi)	1820 (at 4350 psi)	4160 (at 4350 psi)	5500 (at 4350 psi)

* Drums optional. * Without mounting bracket. ** The installer is responsible for ensuring that the equipment meets the excavator's specifications and weight requirement. *** RPM and cutting speed decrease with lowered oil flow. **** Torque and cutting force decrease with lowered operating pressure. Simex does not accept responsibility or liability for the information provided. Technical modifications may vary without prior notice.

CONTINUOUS CUTTING WITH CENTRAL CHAIN

TF technology is naturally completed by the TFC range, for excavators in the 1.2-12 ton category. It features a double drum system plus central chain, which makes the front continuous cutting profile without gaps at centre between the drums. Ideal for finishing flat surfaces and for creating set-section trenches.



WALL PROFILING

Similarly to flat surfaces, with the TFC is possible to do narrow millings as narrow as the cutter head profile is also on vertical walls or tunnel vaults, and are therefore particularly indicated for laying utilities, building elements, formworks, etc. When profiling walls and tunnels, the central chain allows side-by-side millings using the entire cutting width profile, avoiding any unmilled material to be left, granting more productivity in less time.

TRENCHING

With trench excavations it is possible to work at great depths (the only limit being the excavator boom) since thanks to the continuous cut given by the central chain, movement will only be vertical, allowing the operator to keep the excavation width as narrow as possible. With this method, it will no longer be necessary to move the boom left and right to remove portions of unmilled material that normally form between the drums.



VARIOUS APPLICATION FIELDS

Quiet and precise in the work area, their versatility ensures high performance in various application fields, such as:

- Trench excavation
- Scarification and profiling of flat surfaces and vertical walls
- Removal of deteriorated concrete in tunnel
- Crushing of roots and tree trunks
- Precision road maintenance (finishing around manholes and footpaths).

ROADWORKS



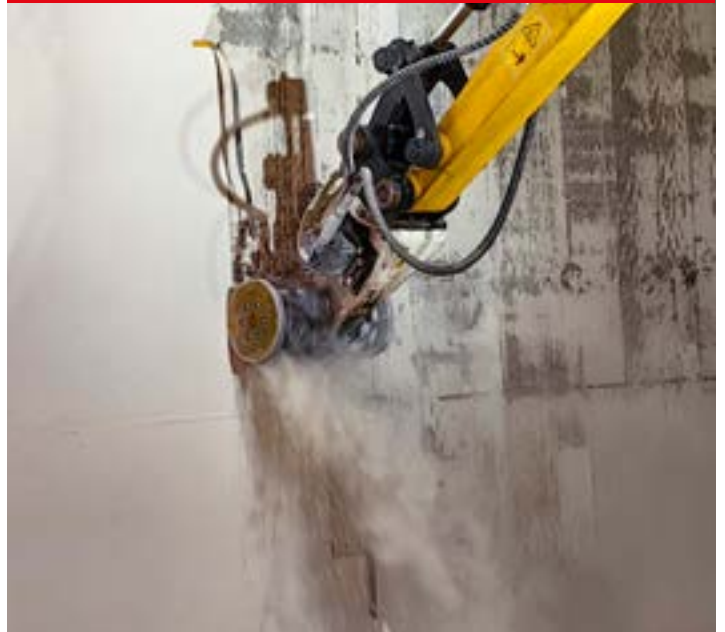
CONDUITS



CRUSHING TREE TRUNKS



SCARIFICATION



VERTICAL PROFILING



CONTROLLED REMOVAL

