

Technical Main Data

Maximal vertical reach	mm	8.500
Maximal boom reach	mm	3.900
Minimal operating height	mm	4.700
Machine width	mm	2.700
Machine height over cab	mm	3.100
Power electric drive 400V, 50Hz	kW	132

Electric connection	Α	25
Travel speed	km/h	0-1.7 / 4,
Specific ground pressure	kN	28
Operating weight, acc. too equipment	t	3



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ELECTRIC TUNNEL EXCAVATOR



- Emission-free electric drive
- Cable reel on undercarriage
- For heading in soft ground
- Excavation boom with swivel dipper stick

approx. 25-60 m² Optimal cross section Electric drive 132 kW Operating weight approx. 30 t

Electric Tunnel excavator TE 210 E

The Schaeff TE 210 Tunnel Excavator is the successor of the robust TE 200 Tunnel excavator and the result of the steady upgrade of the well-known Schaeff tunnel machines and year of experience gained all over the world in construction, engineering and tunnelling.

Featuring compact and robust design, the TE 210 is predestined for use small and medium-sized tunnel cross sections. The specially designed short tail rear end allows for a large superstructure slewing range even in narrow tunnels. The kinematics of the work equipment in combination with hight breakout forces permits advance in low-profil tunnels higher than approx. 4'800mm, while oparating heights of up to approx. 8'500mm can be mastered.

The TE 210 - electric is equipped aircooled 132 kW electric drive, allowing emission-free working at the tunnel face, such as required for compressed air tunnel heading.

The cable is routed either directly into the superstructure or alternatively through an optional uppercarriage-mounting cable drum or alternatively through an undercarriage-mounted cable drum. The optional undercarriage-mounted cable drum under allows thanks to a special slip-ring assembly with electrical sliding contact ring installed on the excavator superstructure. the slewing range remains equally excellent.

6. - Rear view in tunnel

8. - Electric motor 132 kW

7. - Dash board

9. - FOPS cab

Index of picturs TE210 E:

- 1. Side view right
- 2. Side view left
- 3. Side view working position
- 4. Front view in working position
- 5. Cable reel

Technical data / Area of application:

Operating data

Maximal vertical reach	8'500 mm
Maximal digging depth	3'900 mm
Minimal operating height	4'700 mm
Minimal overhead clearance	3'300 mm
Machine width lower carriage	2'500 mm
Machine width upper carriage	2'700 mm
Machine height over cab	3'100 mm
Machine height for transport	3'300 mm
Rear swing radius	2'250 mm
Minimal swing radius	3'670 mm
Operating weight, acc. to equipment	approx. 30 t

Electric drive er of cloatric drive 400 Valt EO LI-

* Power of electric drive 400 voil, 50 nz.	132 KVV
Total installed power:	140 Kw
• R.P.M (50 Hz):	1480 Upm
Nominal torque:	851 Nm
Nominal currency: (400 V)	251 A

• An alternative to the standard electric drive is the water-cooler Deutz turbocharged diesel engine featuring charge-air cooling and may be optionally fitted with an exhaust soot particule filter system.

Certification for tunnel construction

• The machine meets the current CE-requirements and is certified for tunnel construction according to EN12111, Dec. 2002







Hydraulic system

- Output controlled dual axial piston pump with «load-sense» control and electronic power limit control
- 380 + 140 l/min Pump capacity: • Hammer / TCU control circuit: 280 I/min • Max. hydraulic operating pressure: 350 bar Hydraulic capacity (incl. system): ca.380 ltr Hydraulic oil tank capacity: ca.330 ltr.
- Hydraulik oil filter: Full-flow return filter with contamination indictor
- Filter finesess:

Crawler-type undercarriage

- · Undercarriage with dozer blade 2'700 mm
- Hydrostatic travel drive via 3-stage planetary gear
- Travel speed 0 - 1,7 / 4,5 km/h
- · Crawler chain type
- Length 3'450 mm • Width of triple grouser shoes 400 mm (in option 500 mm)
- Crawler chain drawbar pull 280 kN
- Gradeability max. 100%

Electric equipment

- · Voltage (Standard): 400V/50 Hz
- Electrical installation: DIN EN 60439 und VDE113
- · Board electrique system:
- · Safety features installation: Optical an acoustic warning if limit values are exceeded: engine water + oil temperature, hydraulic oil temperature, oil level, contamination of hydraulic oil filter.

Cabel reel

- Cable reel on uppercarriage
- · Leitungstrommel mit hydrostatischen Antrieb und automatischer Kabelspulvorrichtung
- Storage capacity:
- · Cable model: Buflex M, 3x120 + 3x25 mm²

Boom Equipment

- Monobloc tunnel boom equipment for excavation of soft ground or blasted material, composed of:
- · a basic iib with double lift rams
- a tunnel swivel console 2x45°
- a dipper stick with double lift rams and integrated bucket ram
- Length of the standard dipper stick 3'780 mm • Dipper stick crowd distance (in 4,7m height) 2'400 mm • Width of standard ripper bucket with 2 teeth Esc V51 660 mm Bucket radius 1'175 mm
- Ripping force 100 kN 140 kN Breakout force

Optional Equipments

24 V DC

• There is the possibility for the attachment of a range of ancillary equipment such as emission control with soot filter, quick hitch for tools, cylinder protection on dozer blade, additional rear dozer blade, hydr. TCU (max. 90kW), hydr. rock breaker (max. 1200 kg), different bucket sizes, ripper tooth, transverse cutting unit (max. 90 kW), Diesel engine (165 kW), dipper sticks for longer or shorter reach, etc.

Further details accessories available upon request. Subject to modification without prior notice.

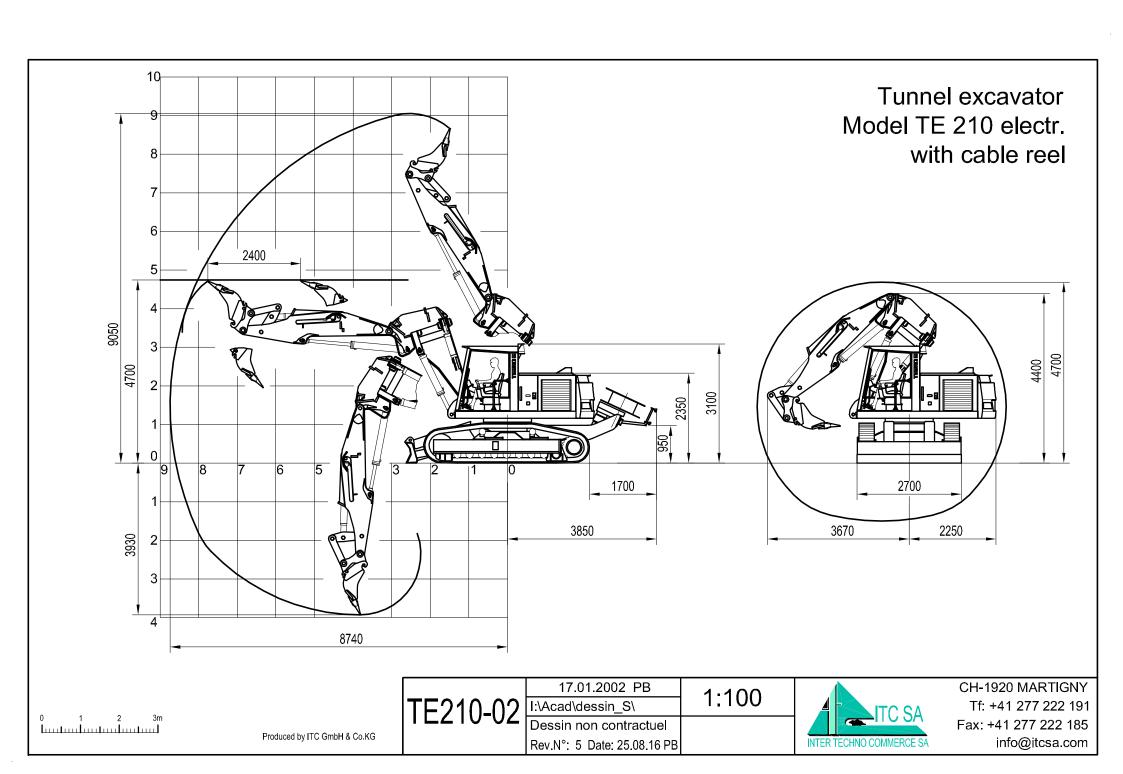


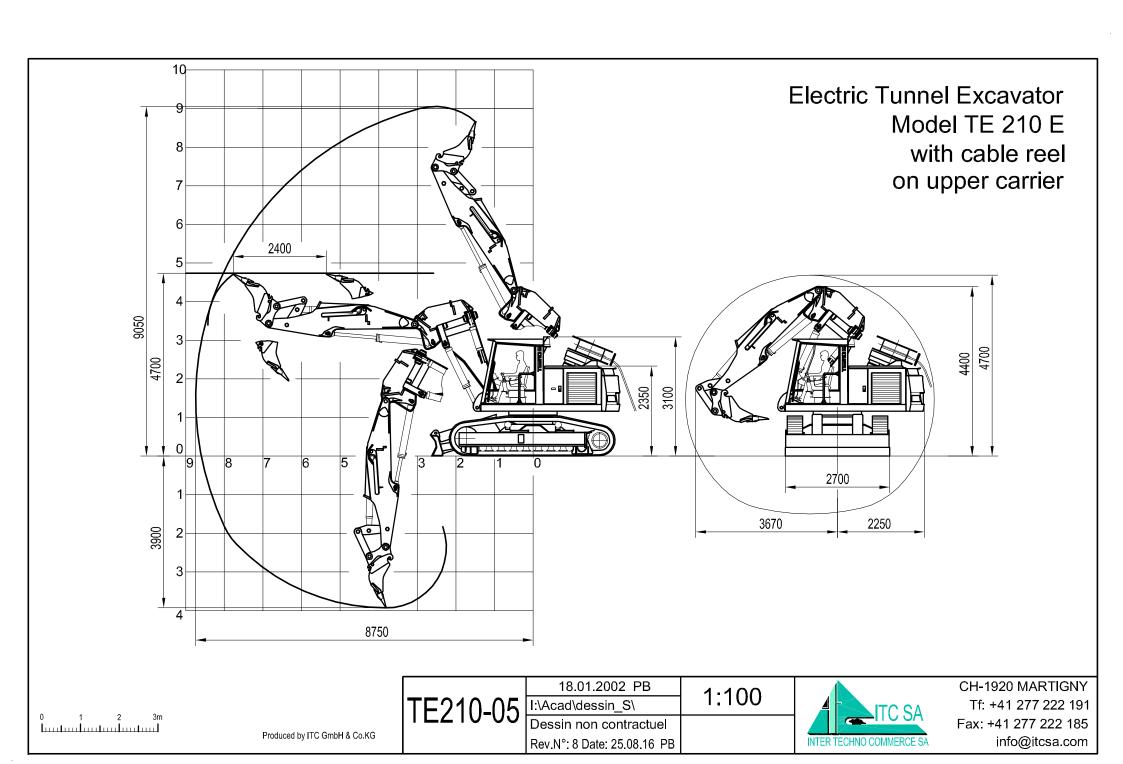


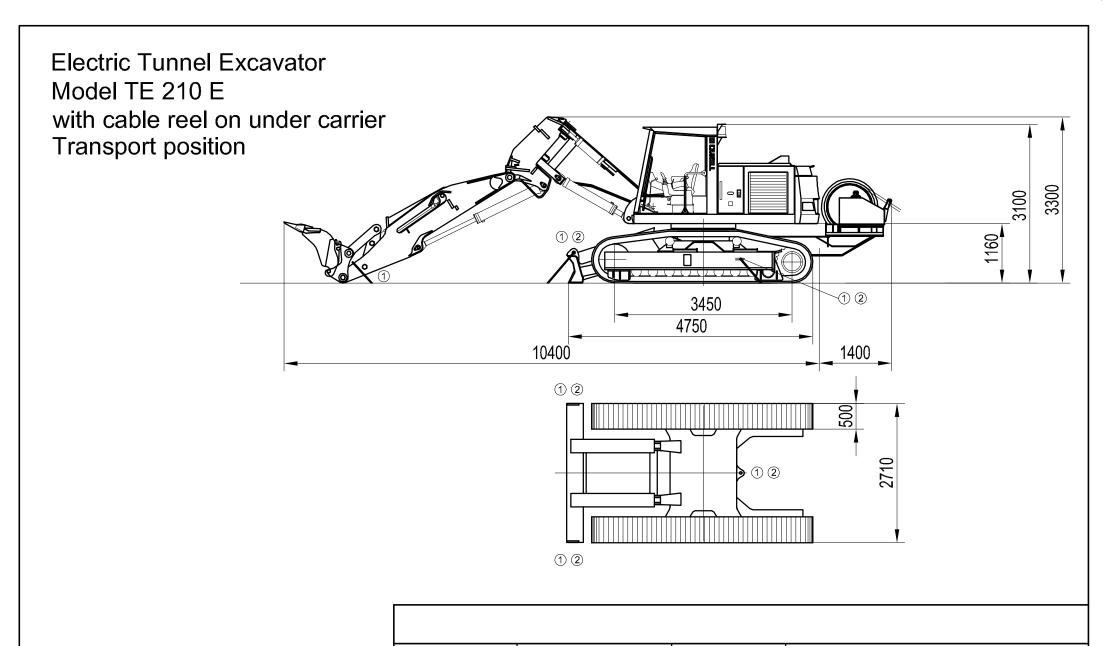












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Dessin non contractuel

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