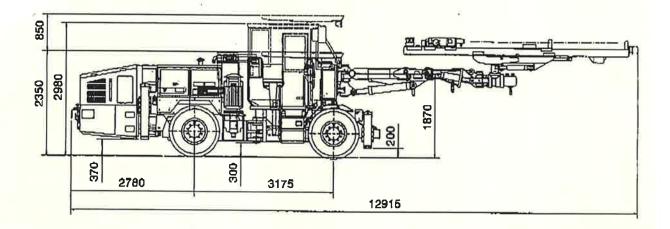
TAMIROCK

MINIMATIC 205-40

6-3100-A 1998-06-05

1/4



Technical description

The Minimatic 205–40 is a Power Class two boom electrohydraulic jumbo for rapid drifting and tunnelling in $8-49\ \mathrm{m}^2$ cross sections.

The robust universal booms have a large optimum shaped coverage, 358° rotation and full automatic parallelism for fast and easy face drilling. The boom can also be used for cross—outling and bolt hole drilling.

The jumbo layout is designed for good visibility and balance, this and the powerful four—wheel—drive center articulated carrier guarantees fast and safe tramming.

The high performance drilling system allows high drilling performance with good drill steel economy and high machine reliability.

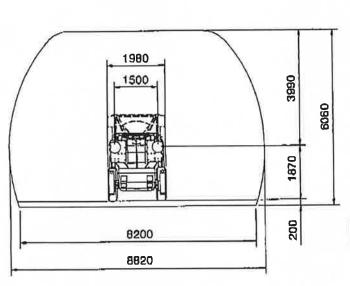
The operator environment and added automatic functions allow the operator to concentrate on safe, fast and accurate drilling.

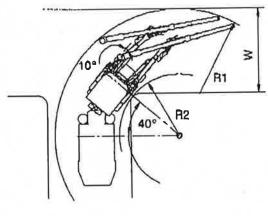
All service points are well protected but easy to access. The hydraulic pilot operated control system is equipped with quick coupling measuring points for faster trouble-shooting and minimized maintenance time.

Components in basic model

1. Carrier	1 x TC 200
2. Rock drill	2 x HL 500 S
3. Feed	2 x CF 145x12
4. Boom	2 x TB 40
5. Control panel	2 x THC 500
6. Powerpack	2 x HP 545, 45 kW
7. Oil oooler	2 x OW 30
8. Main switch	1 x MSE 20
9. Hydraulic jack	2 x HM 40
•	2 x HM 75
10. Water pressure valve	1 x WP 70
11. Water booster pump	1 x WBP 2 , 4 kW
12. Automatic cable reel	1 x AK 2
13. Shank lubricatiing device	
14. Compressor	1 x C 1000
15. Lighting:	4 x 500 W, 220 V
	6 x 70 W, 24 V
16. Safety canopy	1 x Hydraulic

MINIMATIC 205 -40 Spec. no: 6-3100 - A 1998: 06-05 2/4





FEED TF500-X	R1	R2	w
10'	6200	3200	4050
12'	6300	3200	4150
14'	6450	3200	4250
16'	6600	3200	4400

Parallel coverage (0° lookout angle)

Main weights, dimensions and performance

Length with CF 145x12	12 915 mm
Width	1980 mm
Height, min	2350 mm =
max	3200 mm
Weight	19000 kg
Tramming speed	
horizontal	10 km/h
14% = 1.7 = 8 degrees	4 km/h
Gradeability	28 % = 1:3,5 = 15°
Noise level	
operator platform	105 dB(A)
operator plations	ISO 6394-1985
emitted noise level	103 dB(A)
enlitted Holze level	ISO/DIS 11201-1993
	100/010 11201-1990

HL 500 S rock drill

Weight	130 kg
Length	1000 mm
Profile height	76 mm
Power class	16 kW
Max. working pressure	
- Percussion	175 bar
- Rotation	175 bar
Max. torque	400 Nm
Hole size	45 – 57 mm
Recommended steel	R38-H35-R32
	R38-H32-R32
Shank adapter	7804-7531-01
Flushing water pressure	10 – 20 bar
riusning water pressure	10 - 20 Dai

MINIMATIC 205 - 40 Spec. no: 6 - 3100 - A 1998-06-05

CF 145 hydraulic feed

The CF feeds are made from heavy duty steel box construction profile using steel wear pieces. CF 145 hydraulic feed is powered by gerator type hydraulic motor and the feed force is transmitted with chain from feed gear box to rock drill.

CF 145	Total length mm	Hole length mm	Rod length mm	Net Weight kg	Machine length ınm
145x12	5 385	3 295	3 700	460	12 920
145x14	5 995	3 905	4 305	490	13 150
145x16	6 605	4 515	4 915	510	19 400

TB 40 universal boom

The TB 40 is a hydraulic universal roll over boom with telescopioextension and automatio parallelism in both vertical and horizontal planes. It can also be used for bolt hole drilling and cross cutting.

44,5 m² Parallel coverage 1050 mm Telescopic extension Boom weight, net 1850 kg Rotation angle 358 degrees

Control and hydraulic system

THC 500 Hydraulic control system

The THC 500 is a hydraulic pilot control system for drilling functions. It consists of an ergonomically designed panel with hydraulic joy-sticks and a hydraulic control unit for advanced automatic functions. It has been designed to increase productivity and operator motivation and to enable high performance drilling with low drill steel costs.

Feed controlled percussion system optimizes the drilling parameters and improves drill steel life. Load sensing boom controls enable fast and accurate boom movements. Quick coupling measuring points in control panel enable fast and easy checking and troubleshooting.

CONTROL FUNCTIONS

Power control

adjustable full power adjustable collaring power adjustable rotation speed

Rotation control

reversible rotation water flushing

Flushing control

AUTOMATIC FUNCTIONS Collaring automatics Stop-and-return automatics Anti-jamming automatics

Flushing automatics

Hydraulic powerpack

HP 545 MOTOR/PUMP UNIT

Electric motor

1 x 45 kW 3-phase

motor

Pump types

- Percussion, feed and boom 1 x 130 l/min variable

displacement axial

piston pump

Rotation

1 x 45 l/min gear pump

Filtration

Pressure

1 x 25 micron

OIL TANK UNIT

Oil tank volume Tank filling Oll cooling Filtration

max 200 I, min 115 I 1 x manual pump 2 x OW 30 water cooler

- Return 1 x 12 micron

Air and water circuit

The C 1000 compressor is used for shank lubrication The high pressure water pump ensures efficient cuttings removal also at high drilling speeds.

Compressor type Capacity Shank lubricating device Air consumption Oil onsumption Water pump type Capacity Water pressure valve Max intake pressure Max volume

1 x C 1000 1.1 m3/min at 7 bar

1 x KVL 10-2 200-300 l/min/rock dril 200-300 g/h/rock drlll 1 x WBP 2, 4 kW 120 I/min, 10 bar

1 x WP 70 42 bar

200 I/min with 1 bar pressure drop

ELECTRICAL SYSTEM

Total input power Main switch Standard voltages 108 kW 1 x MSE 20 380...660 V

1000 V on request Max. ± 10 %

Voltage fluotuation

Lighting

Working lights Orlving lights Automatic cable reel

4 x 500 W, 220 V 6 x 70 W, 24 V 1 x AK 2

TAMADOK reserves the right to change this appelliculture without further notice

MINIMATIC 205-40 Spec. no: 8-3100-A 1998-06-05

TC 200 CARRIER

The TC 200 is a robust heavy-duty four wheel drive diesel powered jumbo carrier with center articulation and powershift transmission.

Diesel engine Transmission

Deutz F6L 912W, 66 kW (90 hp) Clark 18000 Hydrodynamic

Axles

Clark-Hurth

Brakes

Service brake: hydraulically operated wet disc brakes for all four wheels. Parking and emergency brake: spring applied, hydraulically released fall safe type wet disc brake for all four wheels.

Tyres Steering 12.00 - 20 PR 20 Frame steering, Orbitrol

Articulation

± 40 degrees

Rear oscillation ± 10/8 degrees

Fuel tank

Water tank

75 I (only with water scrubber)

Hydraulic jacks 2 x HM 40 front

2 x HM 75 rear

Safety canopy Hydraulic, FOPS ISO 3449

Ground clearance 300 mm

OPTIONS

FQPS safety cabin Exhaust sorubber Exhaust catalyzer Water hose (1 1/4") Water hose reel AL 2

Double flushing (air/water) with compressor CD 2000

Electric supply cable

Ground fault and overcurrent unit VYK 150 Portable ground and overcurrent unit VYK 250 P

(max. 415 V)

Fire extinguisher (bottle only)

Manual fire suppression system (Ansul), 6 nozzles Drill angle and depth measuring instrument TMS Drill position and angle measuring instrument TCAD

Electric filling pump for hydraulic oil

1000 V electric system TRR1 rod retainer

Cylinder-rope feed TF 500

TTF 500 (Note changes in turning radius

and tramming figures) *

Automatic greasing system (Lincoln)

for boom and carrier

Greasing reel with pump and nozzle

Fast filling and evacuation system (Wiggins); for fuel only Fast filling and evacuation system (Wiggins); (luel, trans-

mission, engine and hydraulic oil)

Air conditioning for cabin

Air mist flushing kit for auxiliary water/air connection

^{*)} replaces standard component