Design, Consulting, Construction & Supply Equipment Address: Unit 12, NO.18, 2nd Alley, Ahmad Ghasir St., Argentina Sq., Tehran, IRAN



# Tunnel Boring Machine EPB FOR SALE



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# **Description**

# For sale TBM EPB

Boring Diameter 9330 mm

# **Main Technical Specification**

Manufacturer: Herrenknrcht AG, Germany

Type: EPB

Year of Manufactuer: 2004

Total Lenght: 125 mtr

Diameter: 9330 mm

Max. Thrust Force: 73200 kN

Cutter Head Power: 3200 kw

Cutter Head Power: 0-3 RPM

Max. Torque Main Drive: 22.610 kNm

Total Power: 5000 kw

Primary Voltage: 20 kv

Capacity: 5000 kw

Along with five complete set of segment moulds from CBE

## **Tunnel Specification**

Tunnel Internal Diameter:8.430 mmTunnel External Diameter:9.070 mmLength of the Slabs:1.500 mmNumber of Slots6 + 1

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| Advance | d Ins | tullation |
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Max. Working Pressure: 4 bar

Total Length INCL. Support Train:

Max. Advance Rate:

80 mm/min

**Intermediate Shield** 

External diameter: 9.320 mm

Length of the intermediate shield Approx. 2.465 mm

**Tail Shield** 

External diameter: 9.310 mm

Length: Approx. 4.360 mm

Man Luck

Number of people: 3

Security Valve: 4 bar

Max. Pressure Test: 6 bar

**Propulsion Cylinders** 

Number of propulsion cylinders: 26 pz

Number of cylinders with displacement measuring system: 4 pz

Cylinders: 320/260 mm

Cylinder stroke: 2.200 mm

Total thrust power at 350 bar: 73.200 km

Max feedrate: 80 mm/min

**Cutting Wheel Displacement** 

Cylinder: 300/200 mm
Cylinder stroke (limited): 200 mm

Total force at 280 bar: 12.000 km

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Cylinder: 180/80 mm
Cylinder stroke: 150 mm
Number of cylinders: 22 pz

# **Cutter Head**

Diameter: 9.360 mm

Length: 1.710 mm

Weight: aprox 115 ton

Opening rate: 0.31

Steel quality steel structure s355j2g3
Protective Ring: hardox 400

## **Copy Cutter**

Number: 2 pz

Overcut: 20 / 30 / 40 mm

## **Cutting Wheel Drive**

Variable displacement hydraulic motor:

Installed electrical power (8 × 400 kw):

3.200 kw

Two stage planetary gearboxes:

Peed control i:

Revolutions ii:

0-1.5 min-1

Max torque i nominal to 240 bar:

22.610 km

Max torque ii nominal to 240 bar: 11.082 knm Locking out torque 280 bar: 26.385 knm

#### **Erector**

Clamping system: vaccum

Number of degrees of freedom: 6

Rotation of erector (rotating frame): (+/-) 200

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Installed power: 400 kw

Total length: ca. 16.175 mm

Nominal width auger: 1.000 mm

Propeller pitch: 630 mm

Max. r.p.m 0-24.6 min1

Rated torque to 325 bar: 235 knm

Working pressure permissible closing gate: 4

**Telescope of screw** 

Number of cylinders: 2 pz

Cylinders: 160/90 mm
Cylinder stroke: 1.500 mm

**Front Geutin Gates** 

Number of cylinders: 2 pz

Cylinders: 130/70 mm

Cylinder stroke: 400 mm

**Machine Belt** 

Installed power: 55 kw
Total length: ca. 75 m
Transport capacity: 1.100 t/h

**Mortar Injection** 

Number of injection openings: 2x6 pz

Number of mortar injection pumps: 3 pz

Max capacity of pumps: 30 m3 / h

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**Industrial Air / Compressor** 

Installed power: 2x 55 kw

Air pressure: 8 bar

Compressor capacity: 9.25 m3 / h

**Secondary Ventilation** 

Installed power 37 kw

Cross section of pipe 1.600 mm

**Electricity** 

Voltage control: 24 / 230 v

Transformer power installed: 2x 2.500 kva

Primary voltage: 20 kv

Total installed power: aprox. 5.000 kw