

SHIELD

가 SHIELD
3m
1997 11
가
, 1999
5
가
가
SHIELD 1,686m, 가
NATM 402m, TBM
4,490m
10,393km
230
가
SHIELD
가
가 SHIELD
가
SHIELD

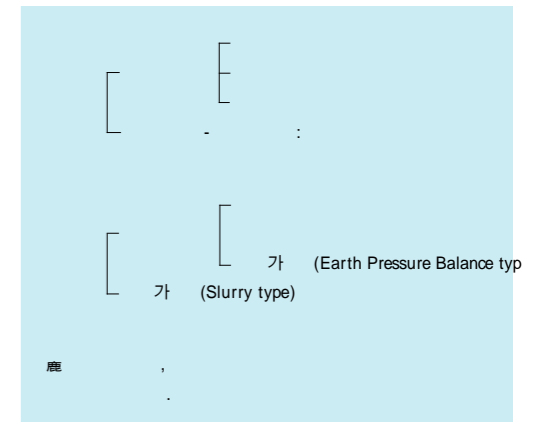
SHIELD

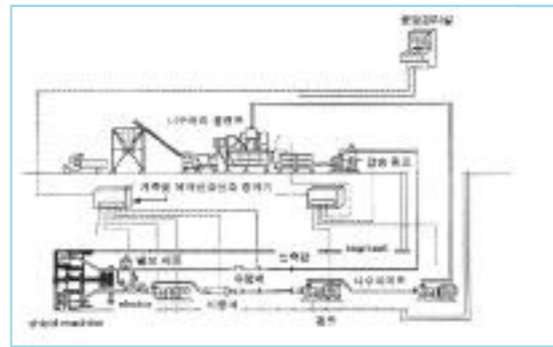
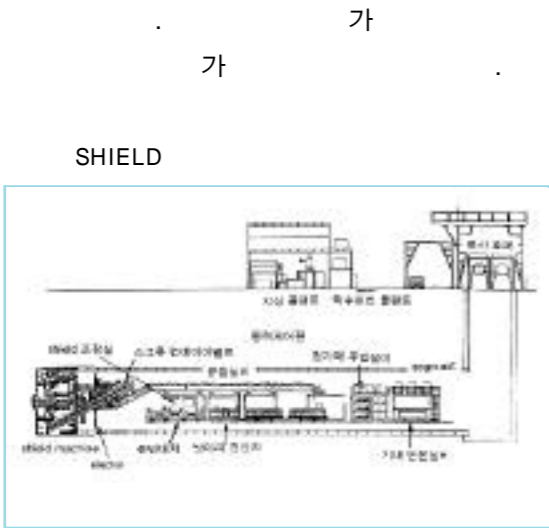
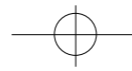
SHIELD
가
가
가
SHIELD
Gasket
seal
SHIELD shield (steel) Tunnel
Boring Machine
가
Shield
Precast segment
()가
가
Shield
pipe conveyor belt,
Shield
segment(가)

segment
SHIELD TBM
shield
, TBM
SHIELD TBM
shield
shield
가
가
Tunnel Boring Machine
TBM
, SHIELD
precast
가 segment 가 SHIELD
TBM
SHIELD
SHIELD 1818 Brunel
1840
Greathead
SHIELD
19 20

SHIELD

SHIELD
SHIELD
(Chamber)
SHIELD





segment	- 가	- 가	- RC 가
segment	- 가	- 가	- RC 가
RC segment	- 가	- 가	- 가

가
가
SHIELD

(14m)

3.5~4m
(steel)가, RC()가
SHIELD

SHIELD
가
SHIELD
10
가 shield machine 20
가
가 SHIELD
가
(15.1km)
shield machine
10m
가 shield machine

Shield
SHIELD
가
SHIELD
가
가
1990 1995 6
60%, 가 30%, 가
10%
SEGMENT
SHIELD segment
Segment
segment

가 SHIELD (泥水)

