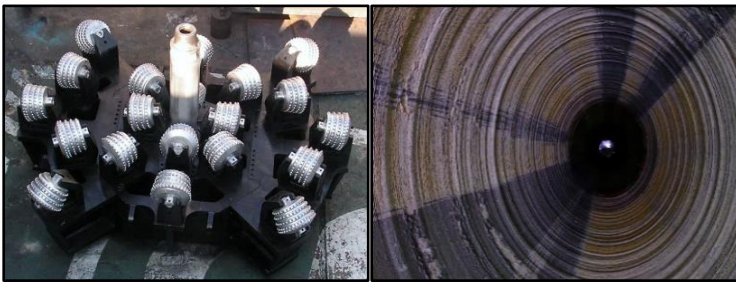


## Raise Boring

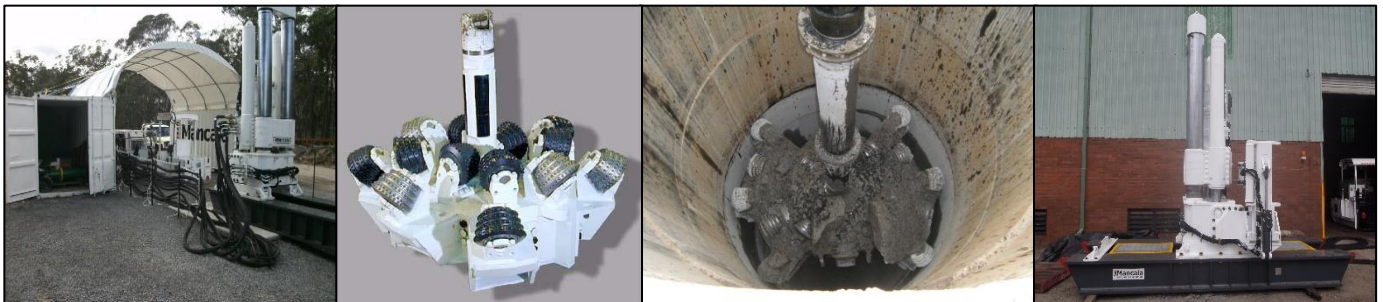
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### Innovative Raise Drilling Technology and Equipment



- Mechanised Vertical Miner (MVM) – Boxhole
- Robbins 13MD – Small diameter
- Robbins 61R - Small to medium diameters and coal compliant
- SBM600 – Small to medium diameters
- Robbins 71R - Medium diameters
- SBM 900 - Medium to large diameters



The Mancala Group

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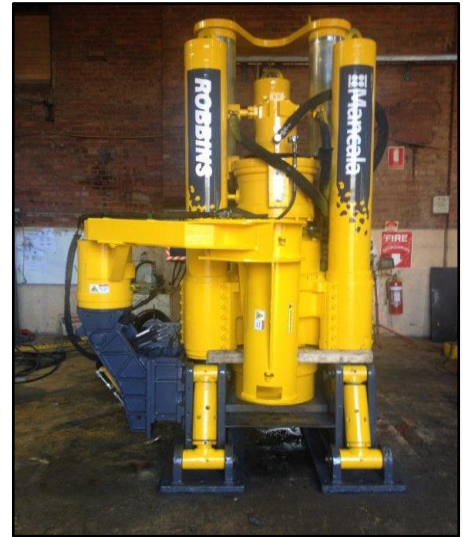
[www.mancala.com.au](http://www.mancala.com.au)

# Mancala Raise Bore Fleet

Mancala first started raise drilling in 1994 in order to offer clients a complete shaft solution and to complement our existing Bench and Line and Horadram shaft construction capabilities.

Since then, we have grown a fleet of raise drills to ream from a 300mmØ pilot hole up to a 5500mmØ shaft. Our boxhole fleet ranges in capability from 700mmØ to 1100mmØ.

We are continually adding to our fleet and developing innovative raise drilling technology and equipment.



Description	Nominal Diameter (m)	Normal Depth (m)	Max Torque (KNm)	Max Thrust (KN)
Mvm1101 Boxhole Rig	1.1	30	48	950
MVM1102 Boxhole Rig	1.1	35	48	950
MVM1103 Boxhole Rig	1.1	35	48	950
Robbins 13MD	0.7	300	14	275
SBM600 Raise Drill	3.0	400	153	2224
Robbins 61R-1144 Raise Drill	3.1	400	232	2224
Robbins 71R-1176 Raise Drill	3.5	400	232	4248
SBM900 Raise Drill	5.5	600	366	4174
FPPP	Flame Proof Power Pack designed for the above rigs – 1000V/300kw			



## Mancala Can Also Provide

- Surface foundation and collar works
- Pre-sinks through weak surface materials
- Steel liners for support of weak ground
- Ladders and escapeway systems to be installed in the raise
- Ground support of completed raise bores
- Flame Proof Power Pack for underground raise drilling in coal

## The Mancala Group Core Values

- ✓ **SAFETY:** Striving to achieve zero harm
- ✓ **QUALITY:** Taking pride in what we make and do; on time, on budget and to specification
- ✓ **INTEGRITY:** Doing what we say we will do with honesty and respect
- ✓ **INNOVATION:** Revolutionising processes and applying technology to achieve better outcomes for all stakeholders
- ✓ **PEOPLE:** Recognising people as our greatest asset and encourage personal excellence