



ASTRA FOR MINING

WHAT WE DO

ALL MACHINES FOR INFRASTRUCTURAL WORKS, EXTRA-HEAVY TRANSPORT AND SPECIAL APPLICATIONS



MACHINES TO WORK HARD WITH



WHAT WE DO

A DEDICATED SALES AND AFTER-SALES NETWORK COVERING MORE THAN 80 COUNTRIES



ALL OVER THE WORLD

WHAT WE DO

CHAMPIONS IN ROBUSTNESS, RELIABILITY, VERSATILITY AND CUSTOMIZATION



ALWAYS

WHAT OUR CUSTOMERS DO

MAIN MISSIONS



**Mining &
Quarry**



**Heavy
Construction**



Oil & Gas



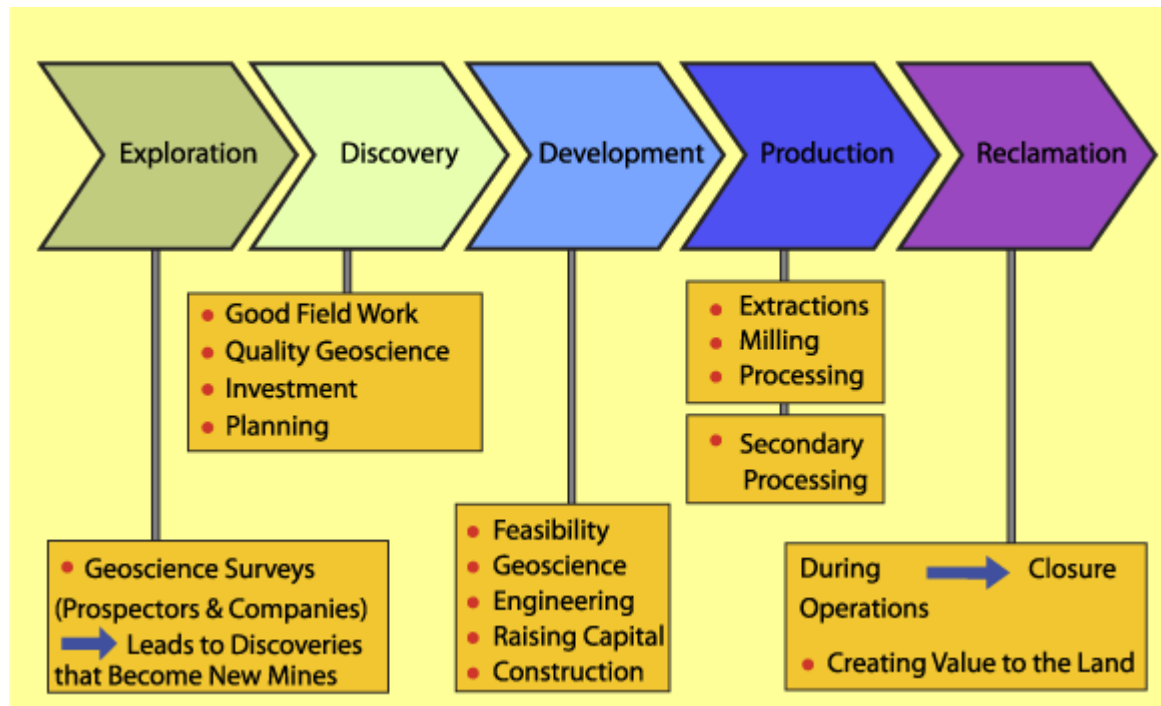
**Heavy
Haulage**

WHAT OUR CUSTOMERS DO

MISSION: MINING

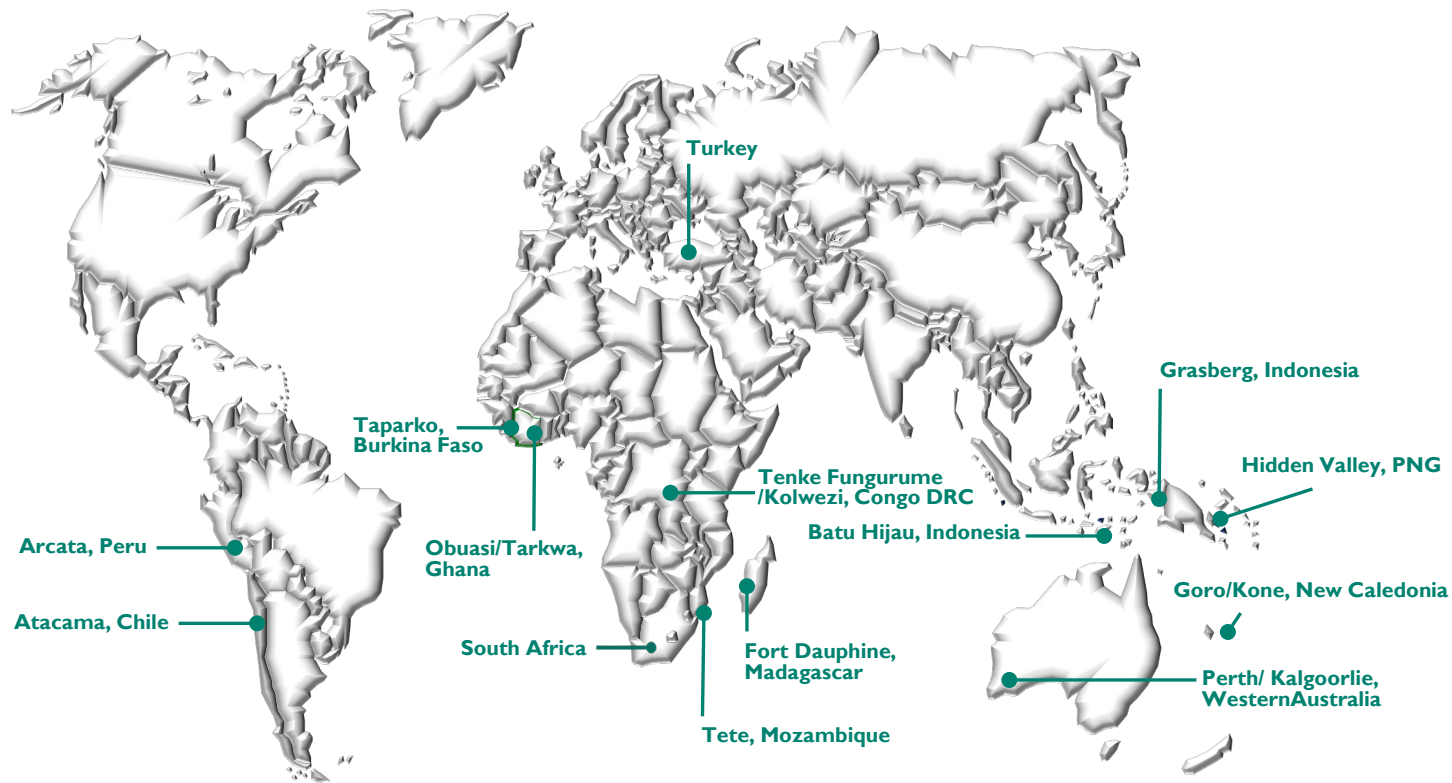


**Mining &
Quarry**



WORLDWIDE MINING SITES

OUR PRESENCE



OUR PRODUCT OFFERING

1. Mine exploration

- Exploration for mineral resources

Drilling rig



2. Infrastructure & Construction

- Site preparation
- Equipment&infrastructure transportation

Tipper trucks



Heavy haulage tractor



3. Mine operation

- Overburden removal
- Haulage of mined and processed material
- Roads maintenance

Tipper trucks



Road train



Stemming trucks



Blasting service



OUR PRODUCT OFFERING

4. Mine operation (auxiliary activities)

- Equipment servicing- Dust suppression
- Personnel transportation

Lubrication truck



Mobile workshops



Water trucks



Gasoil trucks



Personnel transport



OTR tyres service



5. Concentration and refining (outbound haulage)

- Hauling of refined materials to shipping point or processing plant

Road train



6. Mine closure

- Removal of structures and equipment
- Disposal of waste material
- Slope stabilisation



ASTRA MINING CATALOG

DUMPER - OVERVIEW

BAUMA 2016

THE HD9 DUMPER FOR
MINING OPERATIONS

HD9 86.56

- ▶ GVW up to 60 ton
- ▶ 8x6, 560HP
- ▶ Kessler axles
- ▶ AS-Tronic gearbox
- ▶ 24 cm Dump body



ASTRA MINING CATALOG

TIPPER – OVERVIEW

PAPUA NEW GUINEA

FULL-LOADED DOWNHILL
TRANSPORT FROM 2800 M
ALTITUDE TO ZERO
WITH UP TO 30% SLOPES

HD 6x6 tippers

- ▶ AS-Tronic gearbox
- ▶ Kessler front axle
- ▶ Thelma retarder
- ▶ I2.00R24 tyres



ASTRA IN ACTION

MINING – EXPLORATION

SOUTH AFRICA

TRIPLE H DRILLING RIG MACHINE

HD8 66.44

- ▶ Extra long wheelbase
- ▶ Front Kessler axle



ASTRA IN ACTION

MINING – INFRASTRUCTURE AND CONSTRUCTION

MADAGASCAR

FULL-OFF ROAD EQUIPMENT
TRANSPORTATION WITHIN
NICKEL MINING ACTIVITIES

HHD8 66.48 tractor

- ▶ Allison 4700 gearbox
- ▶ Kessler axles
- ▶ 14.00R20 tyres



ASTRA IN ACTION

MINING – MINE OPERATION

TURKEY

ORE TRANSPORTATION
WITH HIGH VOLUME TIPPING
BODY CONFIGURATION

HD8 84.44 tipper

- ▶ AS-Tronic gearbox



ASTRA IN ACTION

MINING – AUXILIARY ACTIVITIES

AUSTRALIA

WATER TANK FOR DUST
REDUCTION AND FIRE
FIGHTING WITHIN MINING
ACTIVITIES

HHD9 88.48

- ▶ AS-Tronic gearbox
- ▶ Reinforced suspension
- ▶ Pneumatic Load sharing system on 1st and 2nd axle



ASTRA IN ACTION

MINING – AUXILIARY ACTIVITIES

MADAGASCAR

WATER TANK FOR DUST
REDUCTION AND FIRE
FIGHTING WITHIN NICKEL
MINING ACTIVITIES

HHD8 66.48

- ▶ Allison 4700 gearbox
- ▶ Reinforced suspension
- ▶ 35 m³ water tank
- ▶ 1,5 m³ foam tank



ASTRA IN ACTION

MINING - AUXILIARY ACTIVITIES

NEW CALEDONIA

AUXILIARY ACTIVITIES
IN BIG NIKEL MINE
(HEAVY HAULAGE AND
MATERIAL HANDLING WITH
A 95-TON CRANE)

HHD8 88.54T

- ▶ WSK 440 torque converter
- ▶ Additional cooling system



ASTRA IN ACTION

MINING - AUXILIARY ACTIVITIES

NEW CALEDONIA

LUBRICATION TRUCK FOR
SERVICE WITHIN NICKEL
MINING ACTIVITIES

HD8 44.44

► 16.00 R20 tyres



ASTRA IN ACTION

MINING - AUXILIARY ACTIVITIES

INDONESIA

OFF-ROAD BUS FOR
PERSONNEL
TRANSPORTATION TO
MINING SITE.

HD

- ▶ Extra long wheelbase and overhang (6,700 + 2,250mm)
- ▶ Front Kessler axle



ASTRA IN ACTION

MINING - AUXILIARY ACTIVITIES

NEW CALEDONIA

SUCTION EXCAVATOR
WITHIN NICKEL MINING
ACTIVITIES

HD8 84.54

- Remote mounted transfer box for 2000 Nm PTO



ASTRA IN ACTION

MINING – CONCENTRATION AND REFINING

SOUTH AFRICA

OFF-ROAD
TRANSPORTATION
WITH A 4 TRAILERS
TRAIN COMBINATION

HHD8 66.54T

- ▶ Allison transmission
- ▶ Additional heat exchangers
- ▶ Gross Combination Weight up to 200 ton



ASTRA IN ACTION

MINING – CONCENTRATION AND REFINING

SOUTH AFRICA

SEMITRAILER TRAIN
HAULING TO THE PROCESS
PLANT. UNBALANCED LOAD
WHILE TIPPING

HD8 64.48 T

► GCW: 100 ton



ASTRA IN ACTION

MINING – CONCENTRATION AND REFINING

INDONESIA

SEMITRAILER TRAIN
HAULING TO THE PROCESS
PLANT.

HHD9 88.56 T

► GCW: 300 ton





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