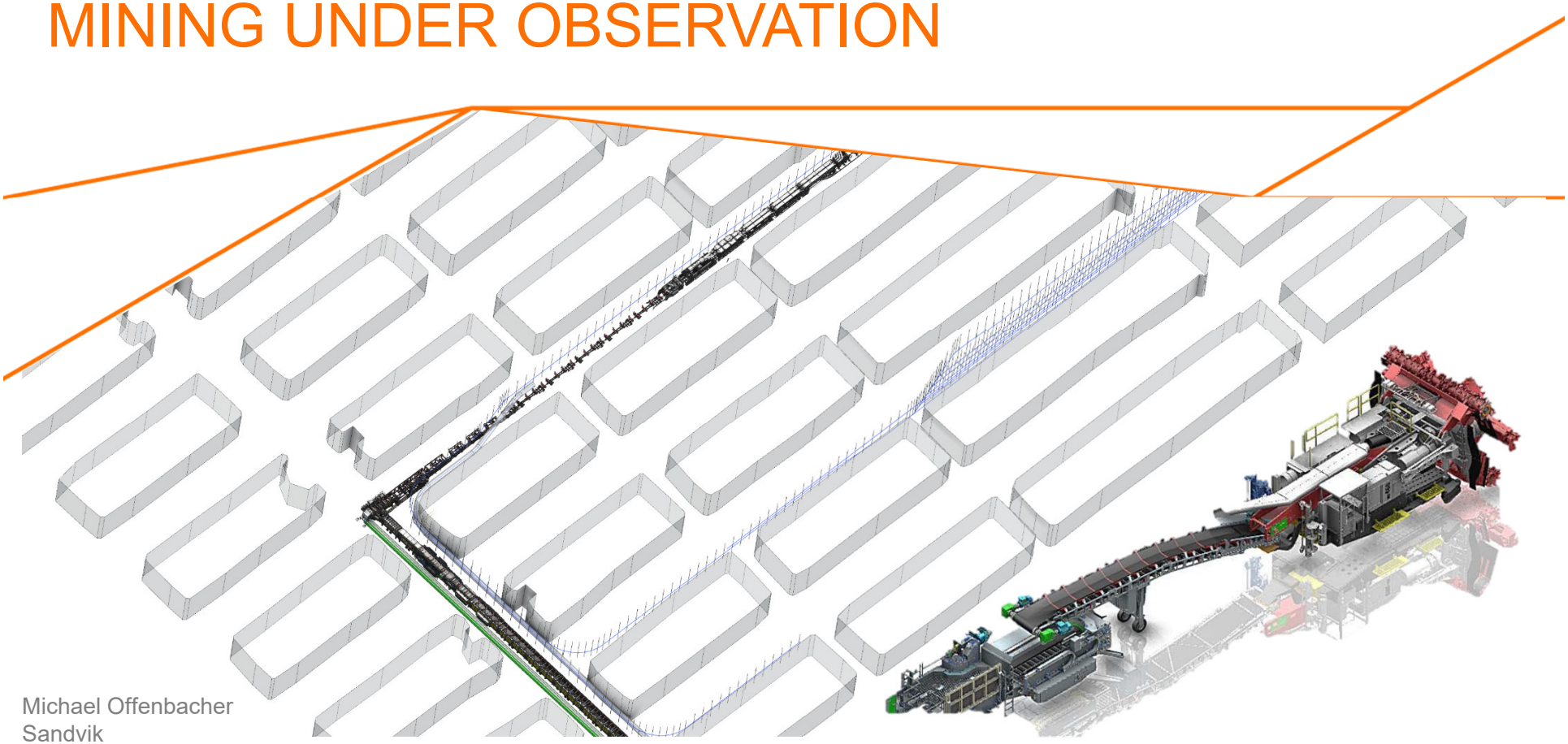
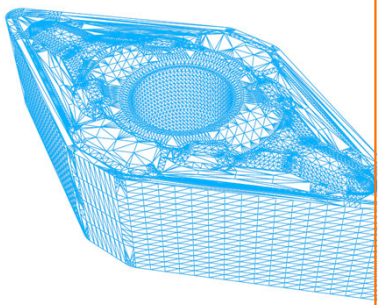
SANDVIK
MINING UNDER OBSERVATION



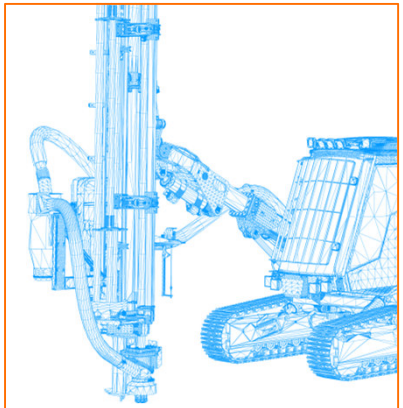
Michael Offenbacher
Sandvik

SANDVIK WORLD-LEADING POSITIONS

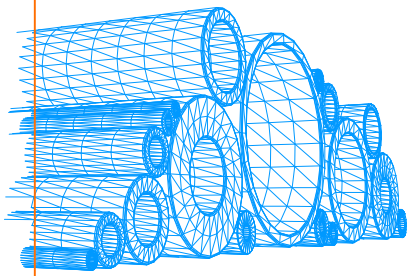
PRODUCT AREAS



METAL CUTTING



MINING AND ROCK TECHNOLOGY



ADVANCED MATERIAL KNOWLEDGE

SANDVIK – COMPANY KEY FIGURES

42,000
EMPLOYEES

100
BILLION SEK IN REVENUES

50
R&D CENTERS GLOBALLY

Figures refer to Group total 2018

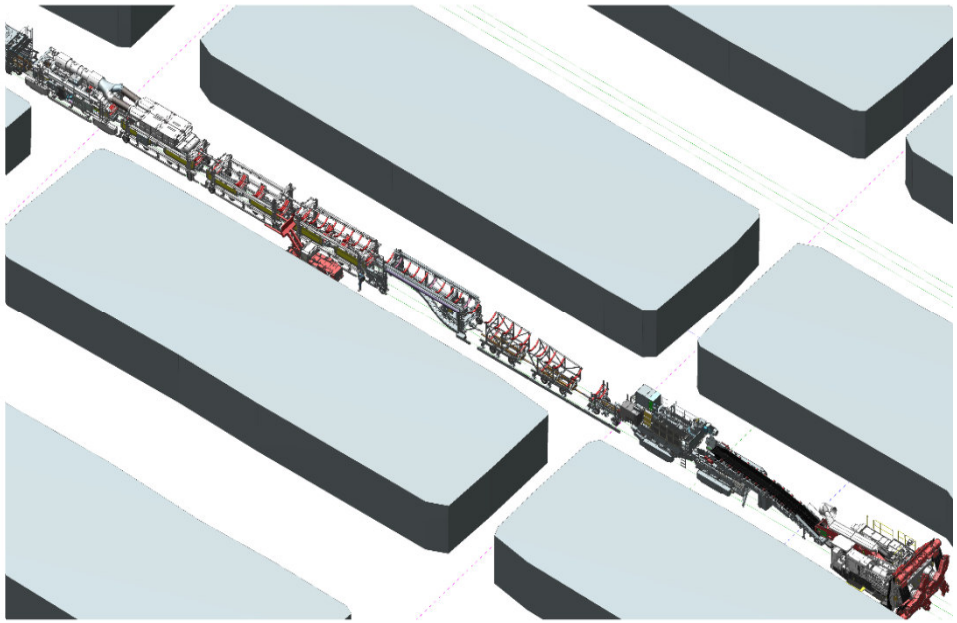
SALES IN OVER
160
COUNTRIES
AROUND THE GLOBE

3.7 BILLION SEK
ANNUAL R&D
INVESTMENT

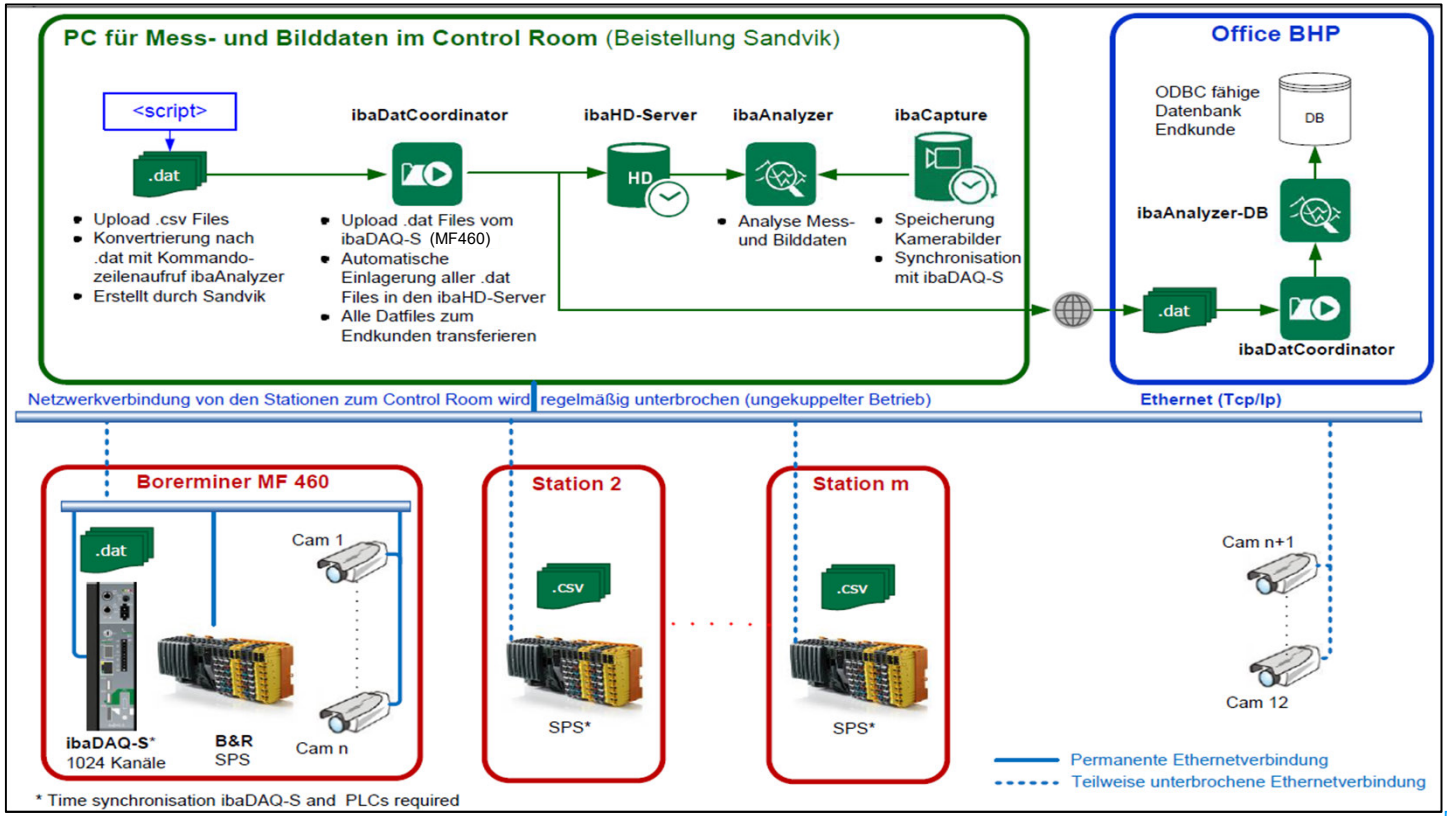
5,900
ACTIVE PATENTS

MINING SYSTEM MF460 & PO140

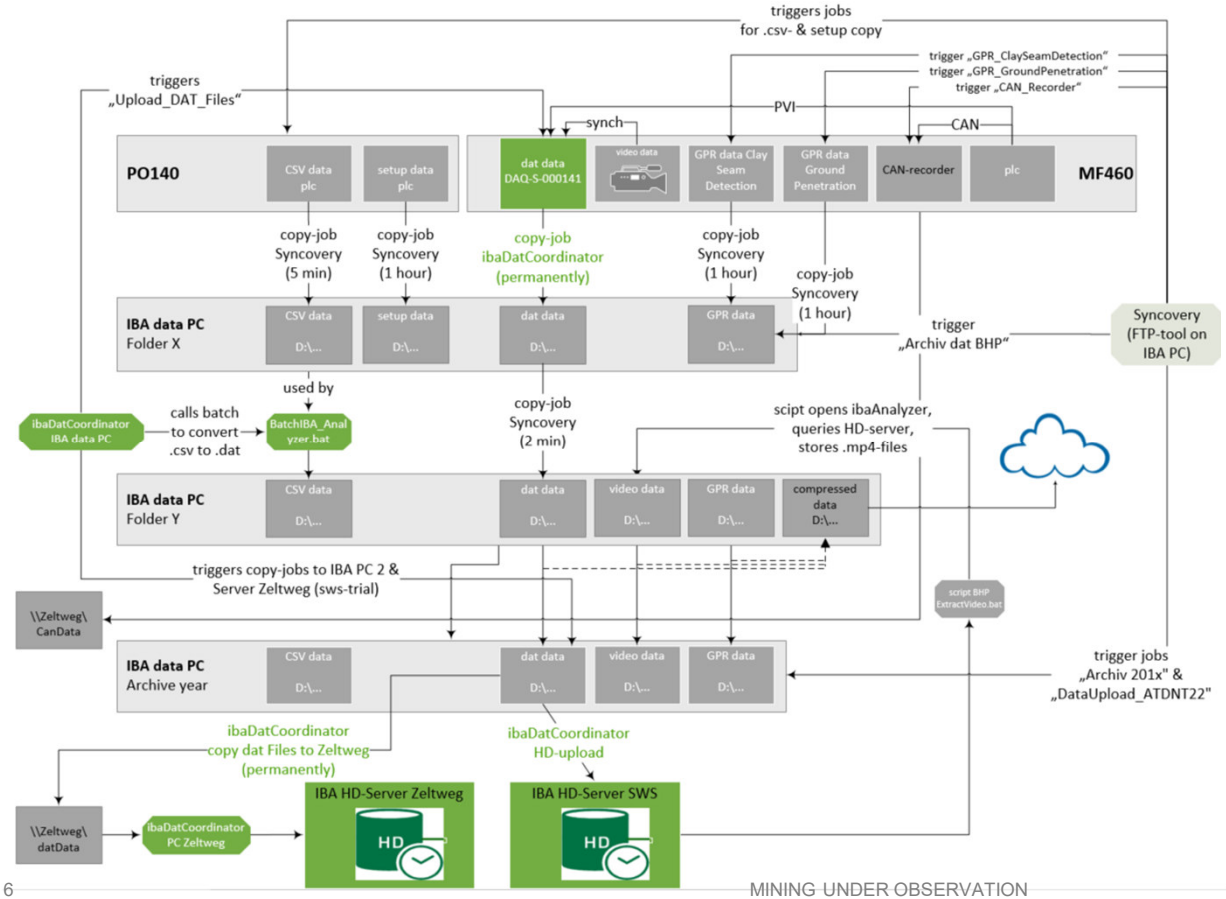
- 1500 [to/h] nominal (2400 peak)
- 0.5 [m/min] cutting performance
- 1800 [m] max. extension
- 3400 [kW] power outlet



IBA SYSTEM - CONCEPT



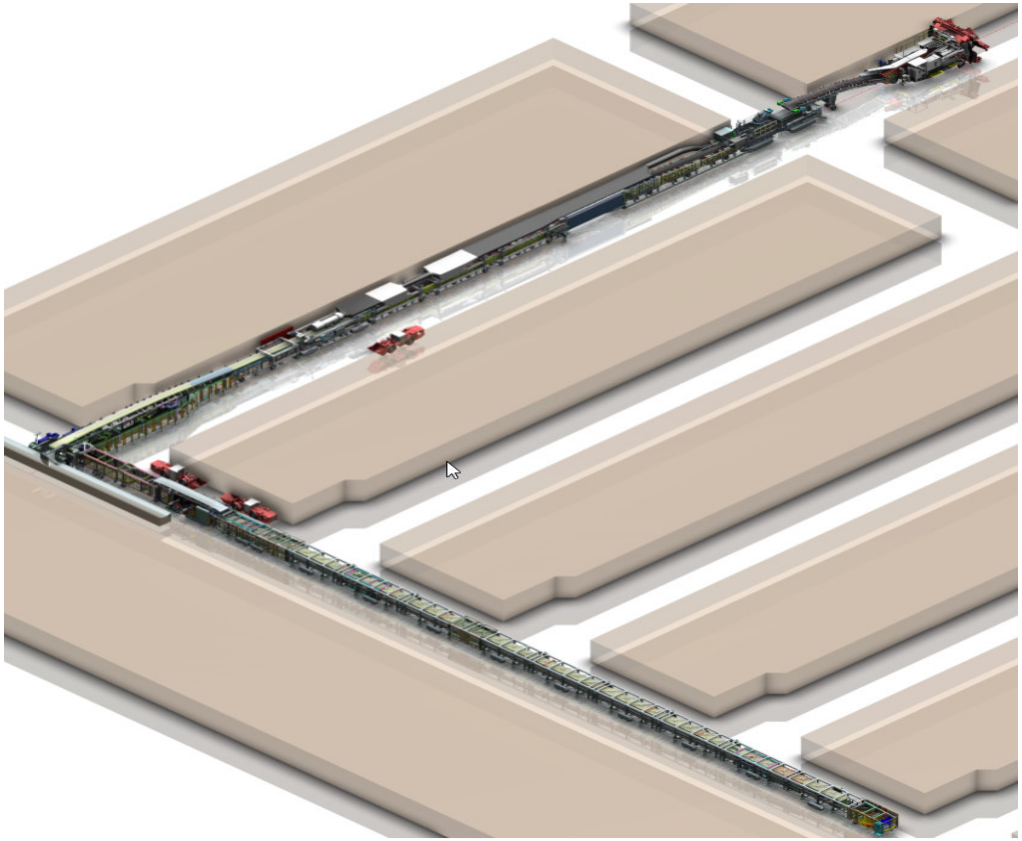
IBA SYSTEM – SYSTEM OVERVIEW



iba daq-s

iba rackline

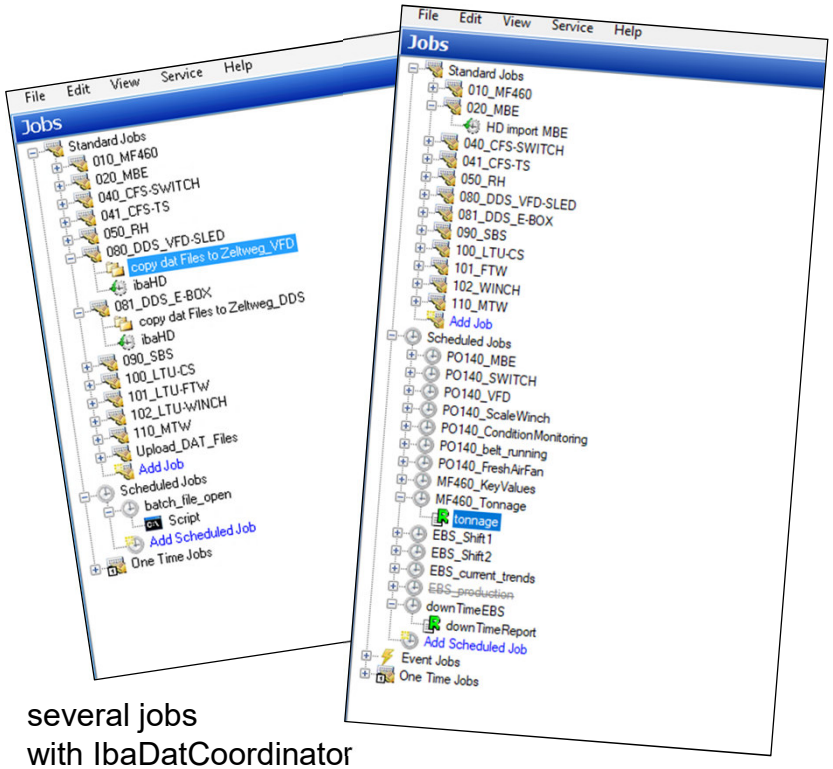
EXAMPLES: STARTUP OF MINING SYSTEM



SystemStart.dat

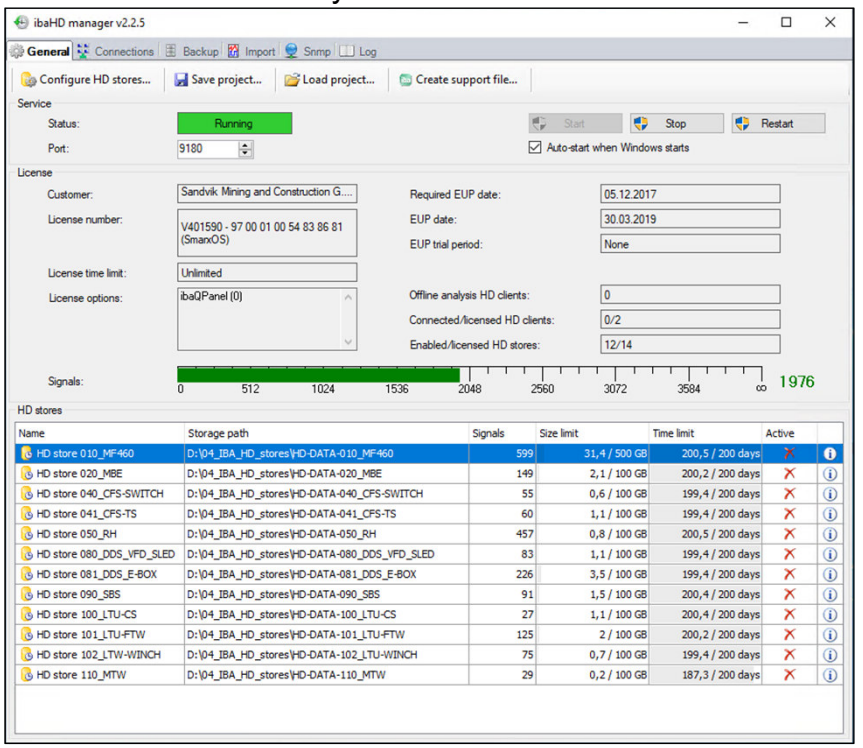
SystemStart_Video.dat

DATA STORAGE



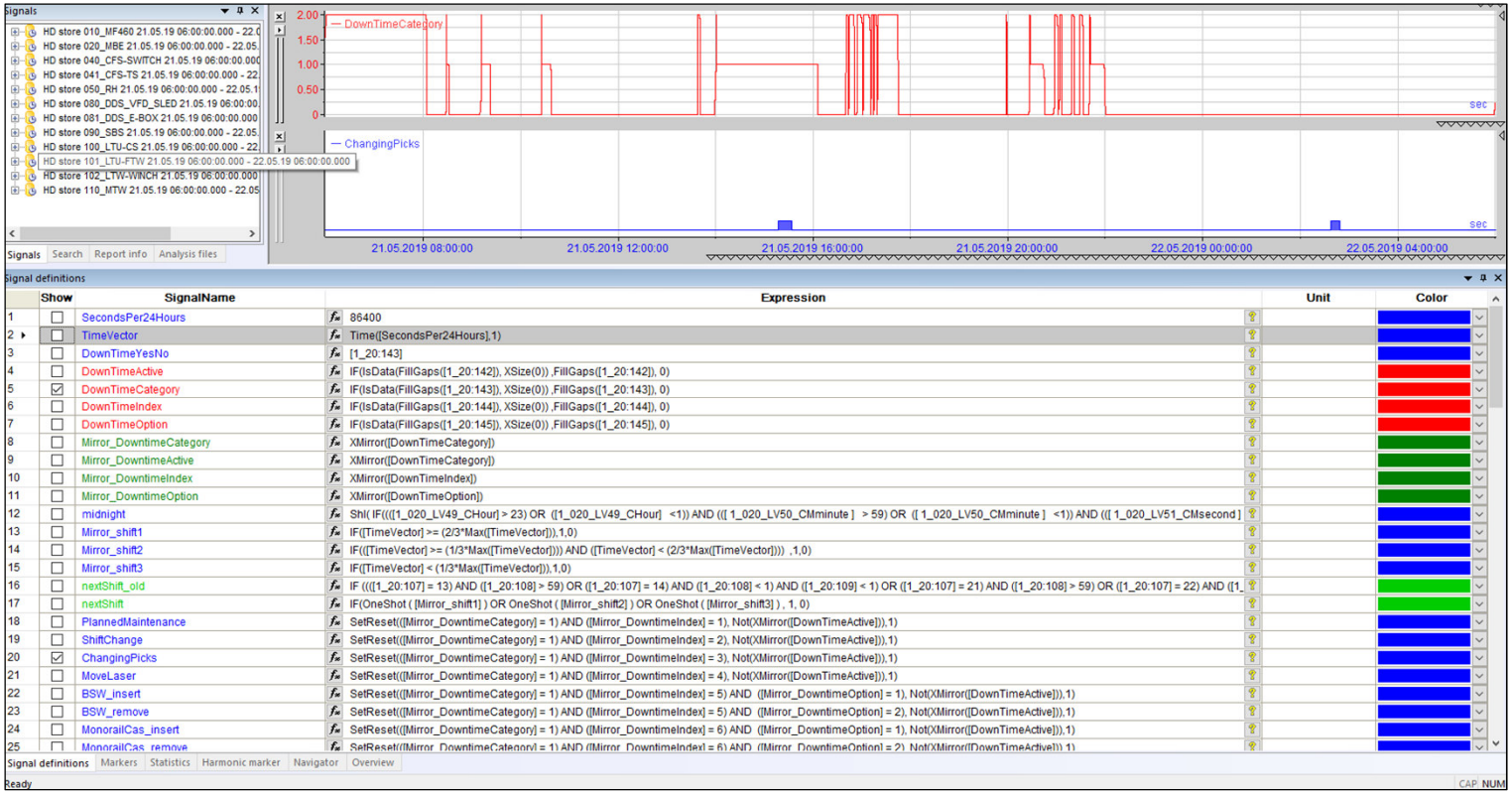
several jobs
with IbaDatCoordinator

many different HD stores



DATA ANALYSIS – CUTTING PARAMETERS

DATA ANALYSIS – UTILIZATION/DOWNTIME

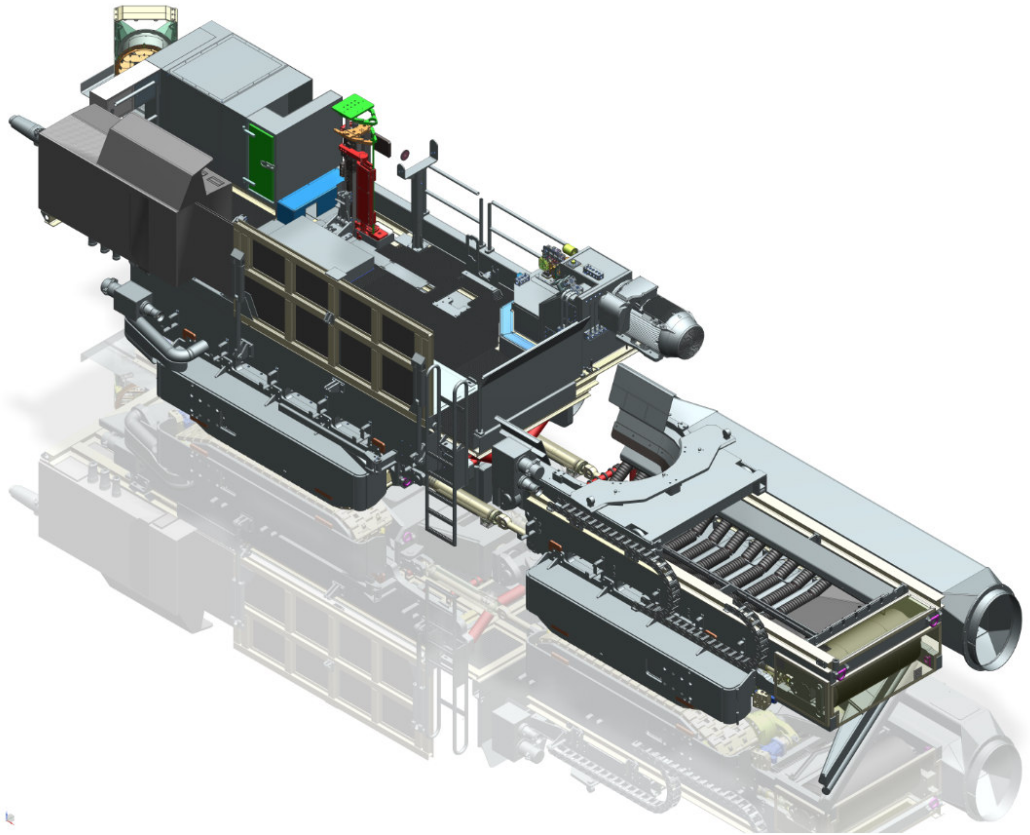


REPORTING


BHP
BHP JANSEN POTASH MINING SYSTEM
power & energy trends
REPORT NUMBER 18
starting date: 17.01.2019
EBS supply voltage [V]:
EBS supply current [A]:
EBS supply power:
current maxima [A]:
phase 1: 412,00
phase 2: 412,00
phase 3: 415,00
voltage minima [V]:
phase 12: 2548,82
phase 23: 2558,66
phase 31: 2551,09
power maxima:
P: 1341,00 kW
S: 2416,00 kVA
Q: 2067,00 kVAr
report created on 25.1.2019
BHP
BHP JANSEN POTASH MINING SYSTEM
MF460 & PO140 - production September 2018
REPORT NUMBER 11
9/1/2018
advance [m] measured on CFS-Switch:
_040_11BS01_DistanceSwitch
start distance 1467.00 [m]
actual distance 1648.00 [m]
monthly distance 181.00 [m]
avg. distance/workingday 9.53 [m]
trend monthly distance with 30 monthdays 1752.79 [m]
trend monthly distance with 20 workingdays 1657.53 [m]
tonnage measured by scale-unit:
act. monthly tonnage 139160.38 [to]
avg. tonnage/workingday 7324.23 [to]
trend monthly tonnage with 30 monthdays 219726.91 [to]
trend monthly tonnage with 20 workingdays 146484.61 [to]
tonnage calculated out of MF460 profile (6,3 x 4,67 m):
act. monthly tonnage 11714.32 [to]
avg. tonnage/workingday 616.54 [to]
trend monthly tonnage with 30 monthdays 18496.29 [to]
trend monthly tonnage with 20 workingdays 12330.86 [to]
monthdays 30.00
workingdays 20.00
report created on 28.9.2018
page 1/2
BHP
SANDVIK
POTASH MINING SYSTEM
DAILY DOWNTIME
from 14.05.2019, 06:00:00
to 15.05.2019, 06:00:00
report nr. 20
downtime per shift - unplanned [min]
shift 1
shift 2
no unplanned stoppage in shift 3
report created on 15.05.2019, 07:45:01
Page 3/9

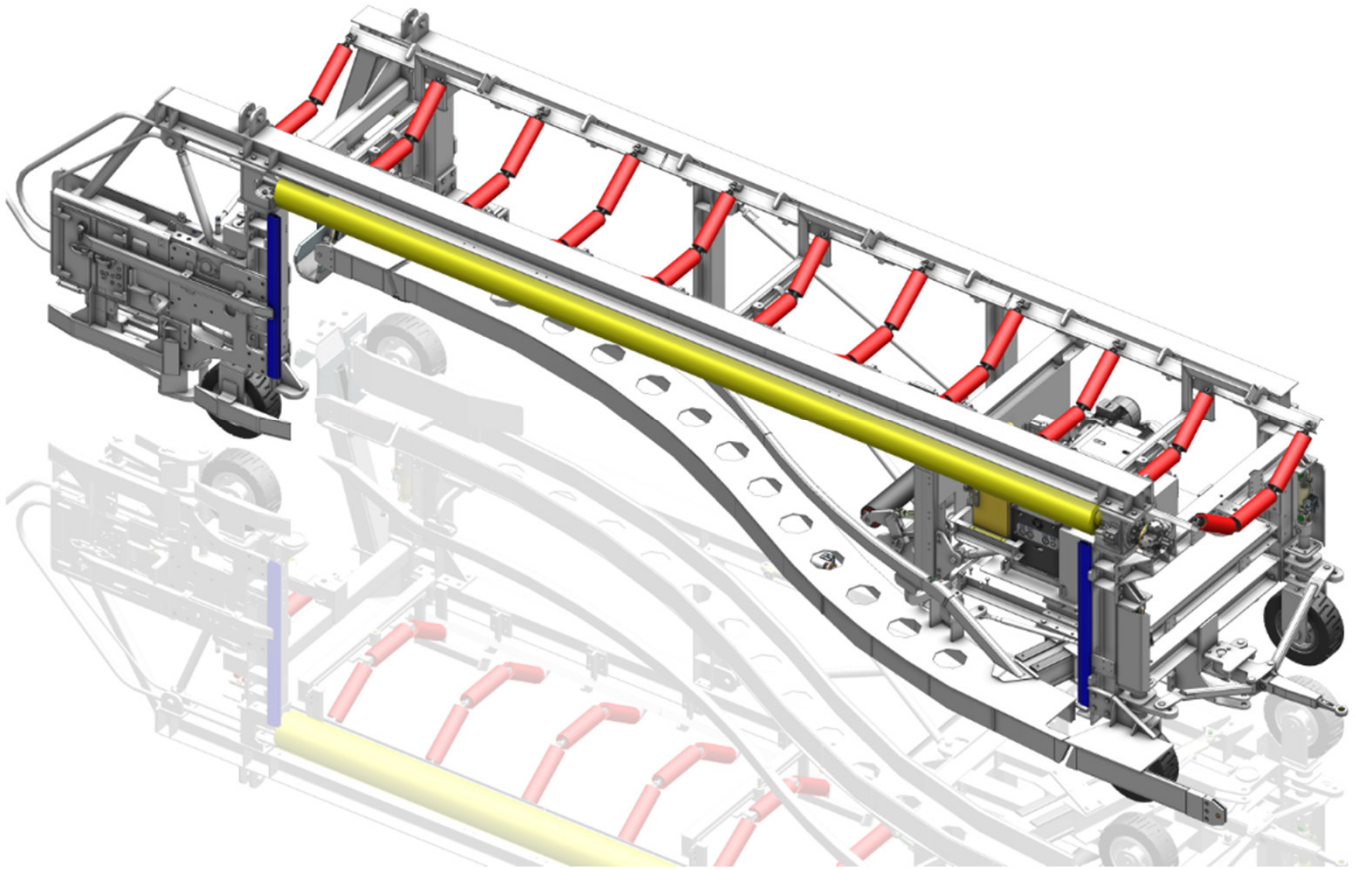
THANK YOU FOR YOUR ATTENTION!

MBE – MOBILE BOOT END



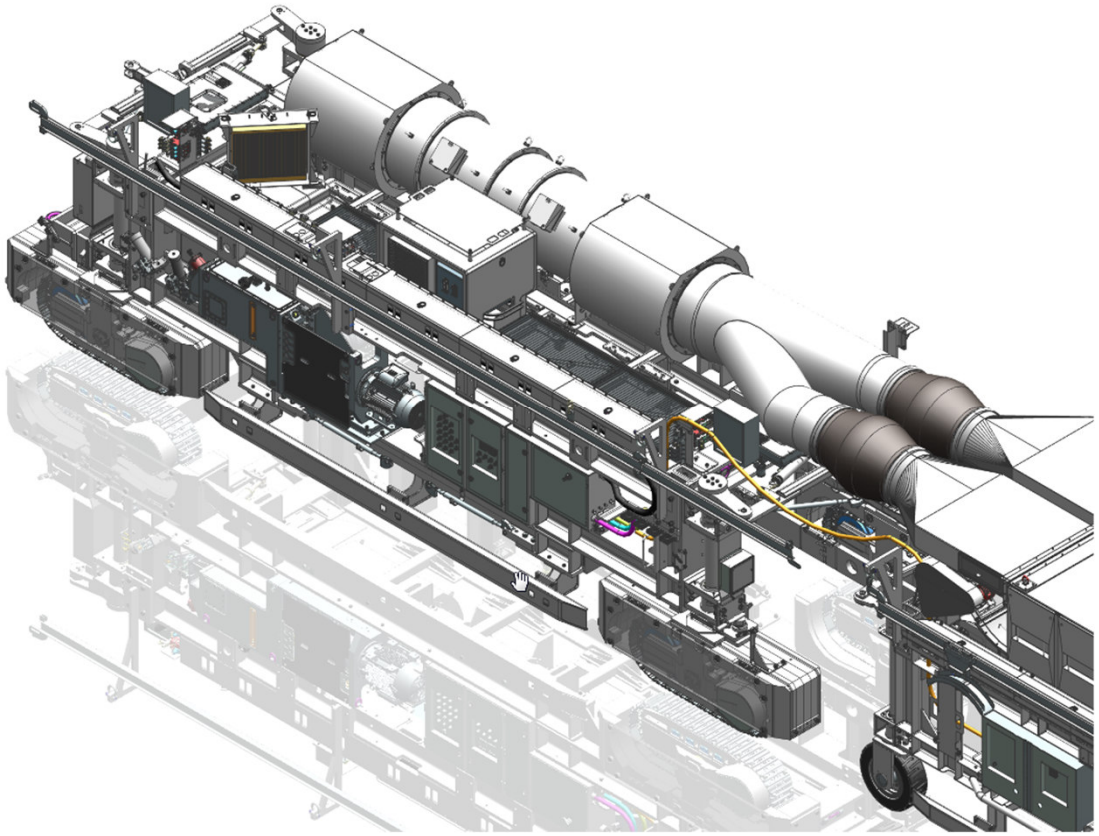
SANDVIK

SWITCH



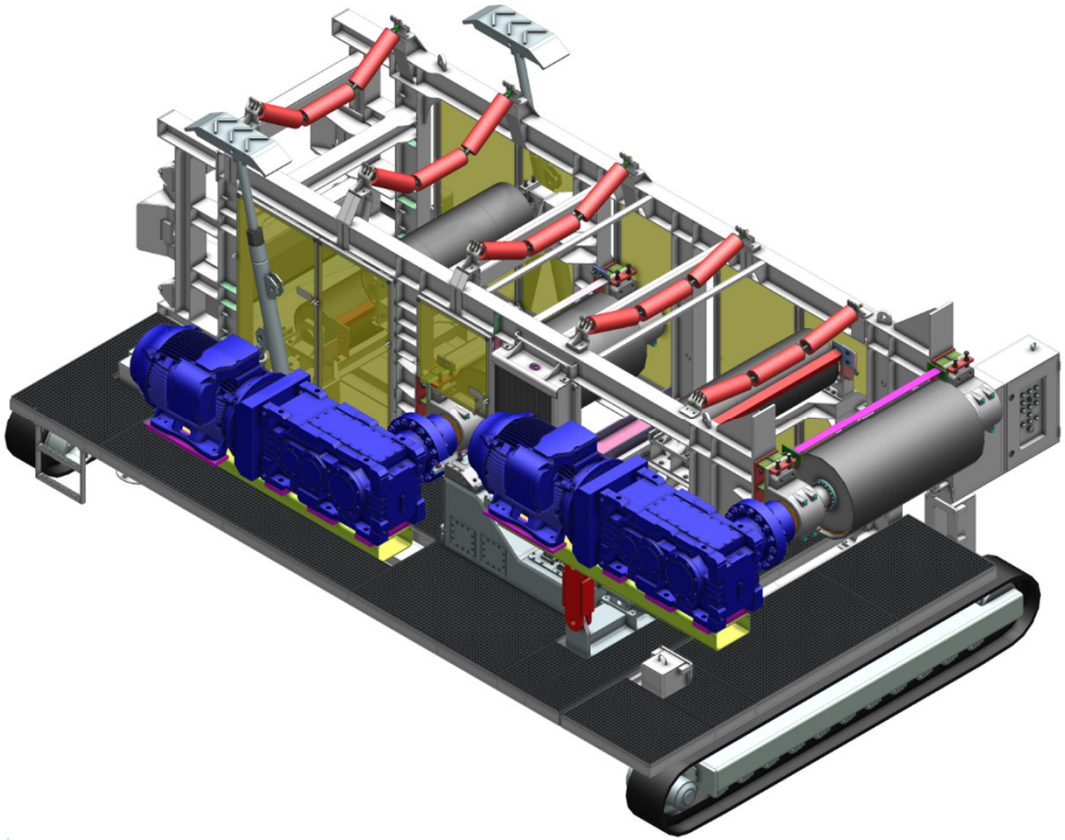
SANDVIK

TUNNEL SECTION



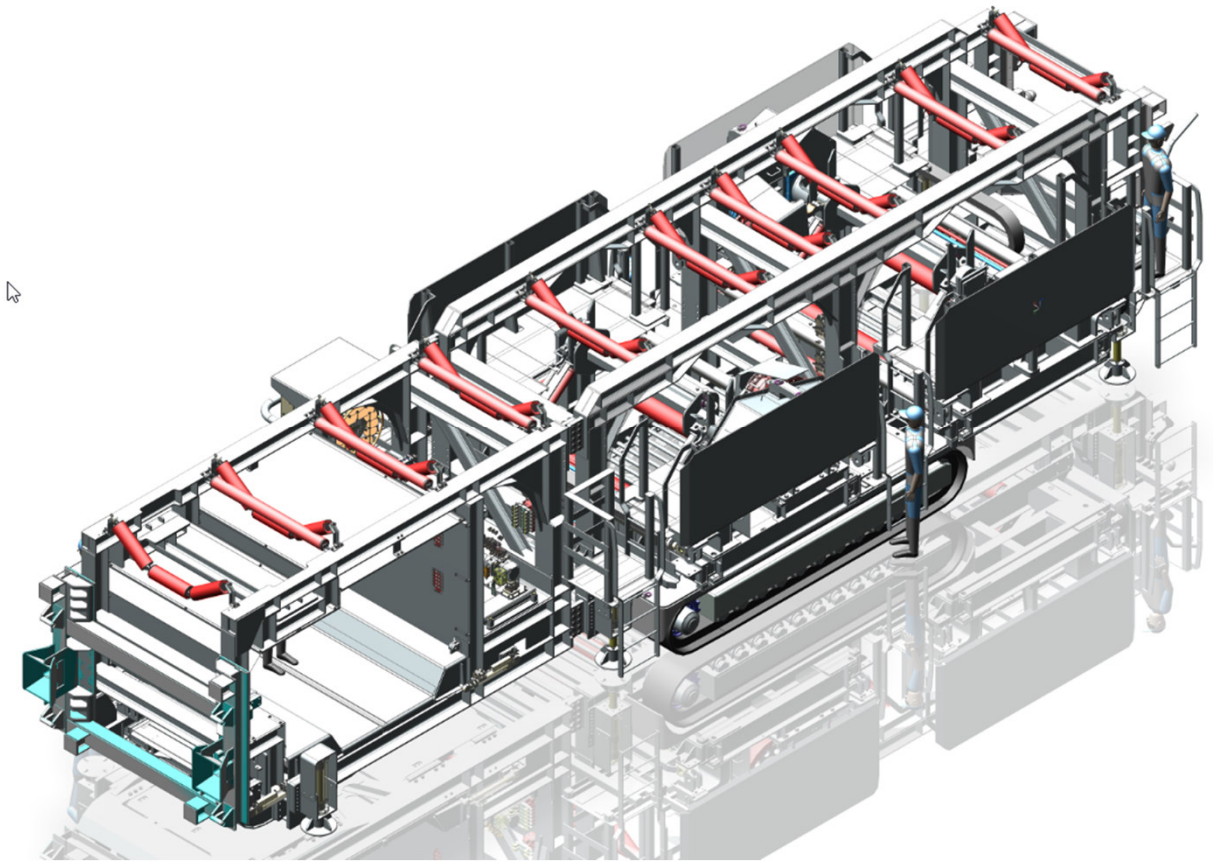
SANDVIK

DRIVE- AND DISCHARGE SECTION



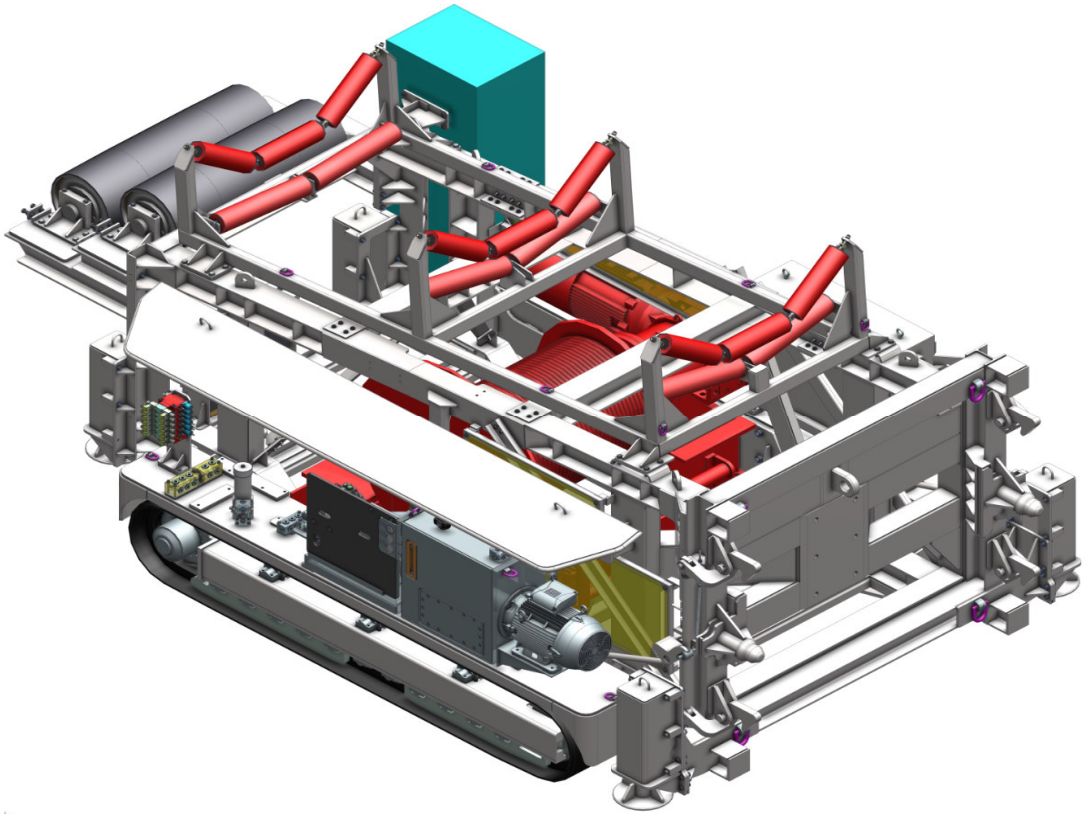
SANDVIK

SPARE BELT SECTION



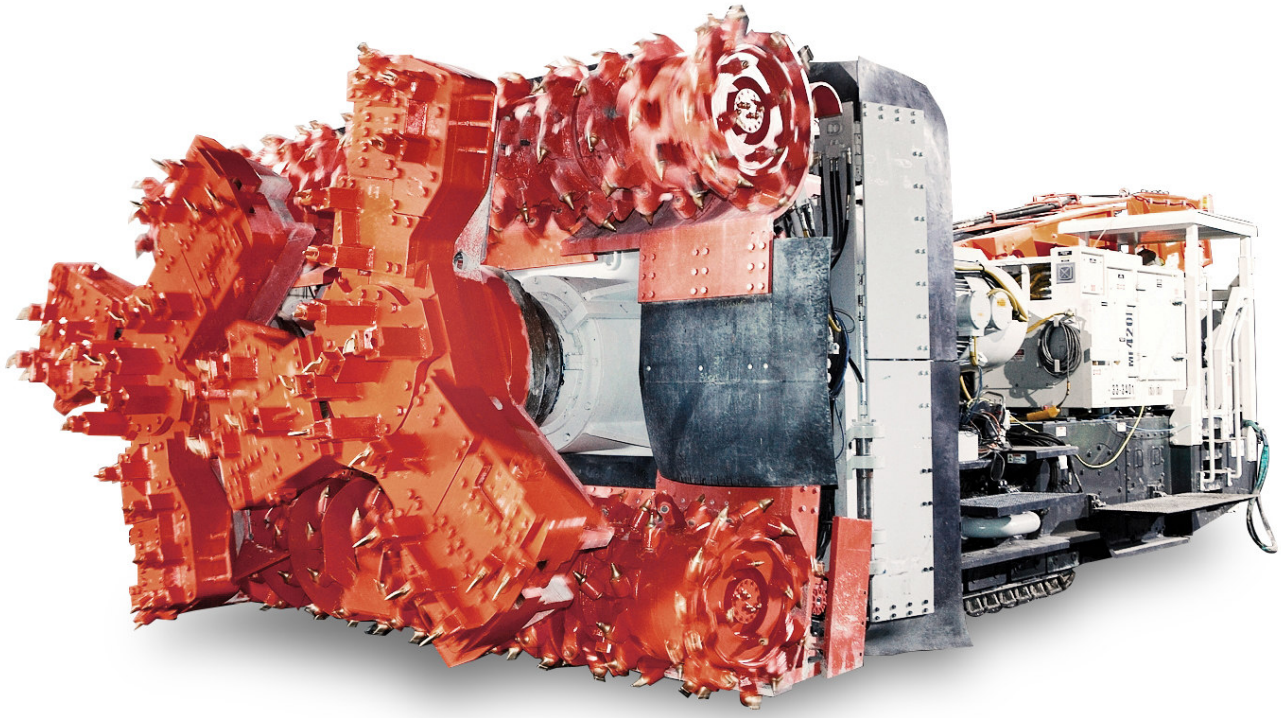
SANDVIK

WINCH



SANDVIK

MF460



MINING UNDER OBSERVATION

SANDVIK