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Presents

In Pit Crushing & Conveying (IPCC) System



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IPCC System

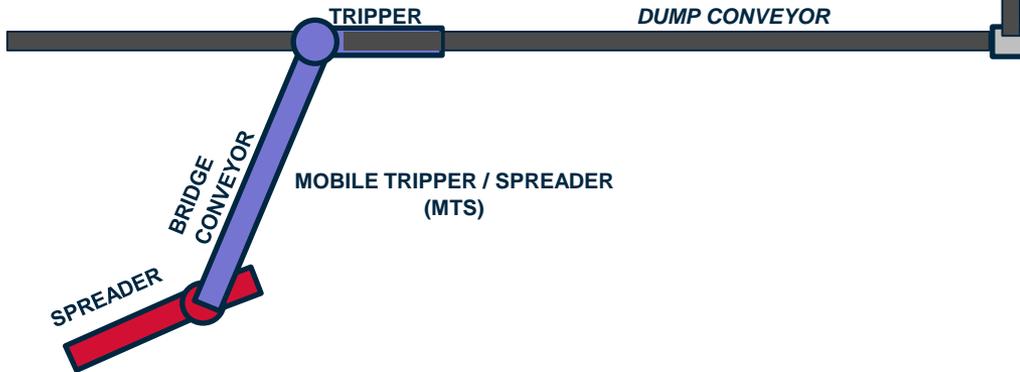
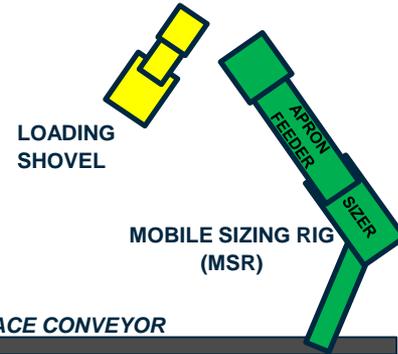
- The IPCC System is designed to crush and convey excavated overburden at a nominal mass flow rate of 10,000 tph.
- The mobile and relocatable system consists of:
 - Mobile Sizing Rig (MSR)
 - Overland Face Conveyor
 - Overland Ramp Conveyor
 - Overland Dump Conveyor
 - Mobile Transport Crawler (MTC)
 - Mobile Tripper and Spreader (MTS)



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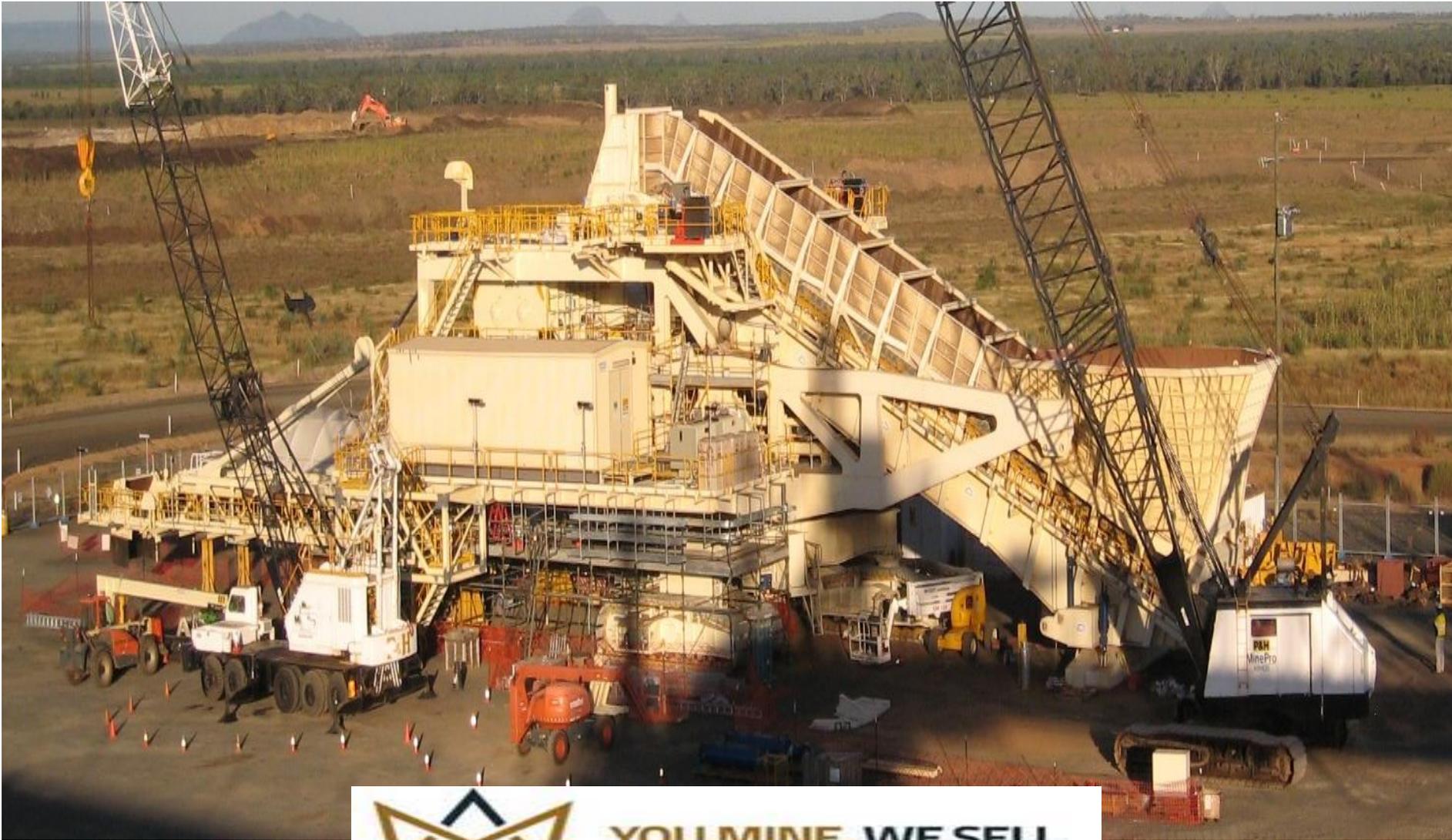
IPCC Layout

MTS



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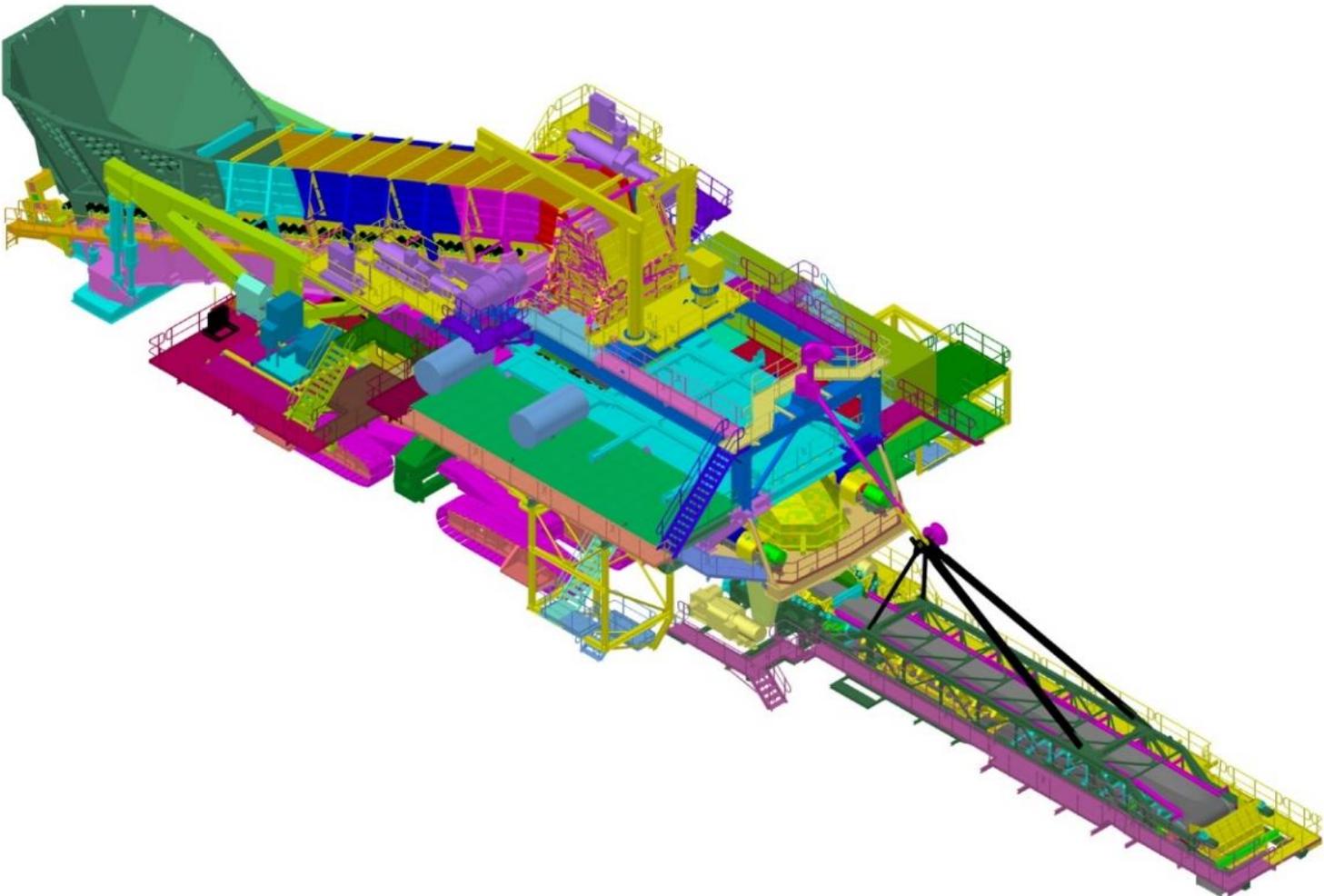
Mobile Sizing Rig (MSR)



Takraf Mobile Sizing Rig (MSR) Technical Data

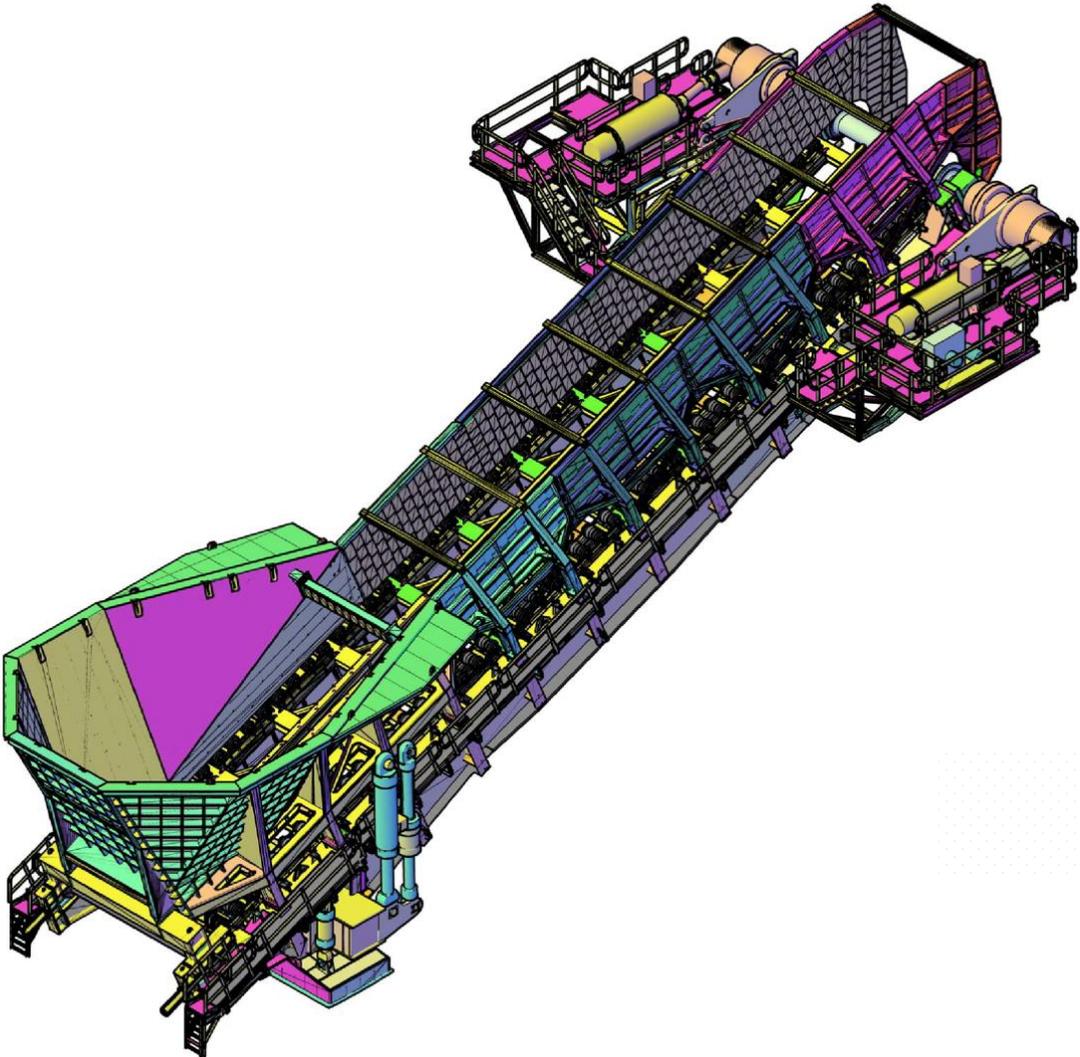
● Material to be conveyed	Overburden
● Theoretical Conveying Volume	10,000 t/h
● Bulk Density	1.6 t/m ³
● Max. Lump Size	450 x 350 x 350 mm
● Belt Width	2200 and 2800 mm
● Apron Feeder	3000 mm wide
● Machine Weight (dry)	1560 t
● Installed Power	3985 kW
● Max operating slope	10 %
● Travel speed	10 m/min

Mobile Sizing Rig



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Mobile Sizing Rig Apron Feeder



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Abon Sizer



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System Conveyors

Summary of the IPCC system conveyors

Conveyor Description	Conveyor ID	Length m	Width m	Belt Speed m/s	Drive Qty	Drive kw	Lift m
Apron Feeder	Feeder	24	2.2	0.26	2	710	
Sizer Discharge	BC 121 Conv	19	2.8	1.4	2	76	
Sizer Boom	BC122 Conv	24	2.2	4	2	200	5
Relocatable (Face)	BC101Conv	480	1.8	5.71	4	1350	64
Relocatable (Ramp)	BC102Conv	700	1.8	5.71	4	1350	95
Relocatable (Dump)	BC103Conv	2123	1.8	5.71	4	1350	66
Tripper Bridge	BC107Conv	73.6	2.2	4	2	400	11
Spreader Discharge	BC172Conv	58	2.2	4	2	400	11



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System Conveyors

- BC103 Overland Dump Conveyor (Tripper Conveyor)



- Shifting heads (overland conveyor shifting and aligning mechanisms) attach to the blade arm of a Dozer to relocate the conveyor as required



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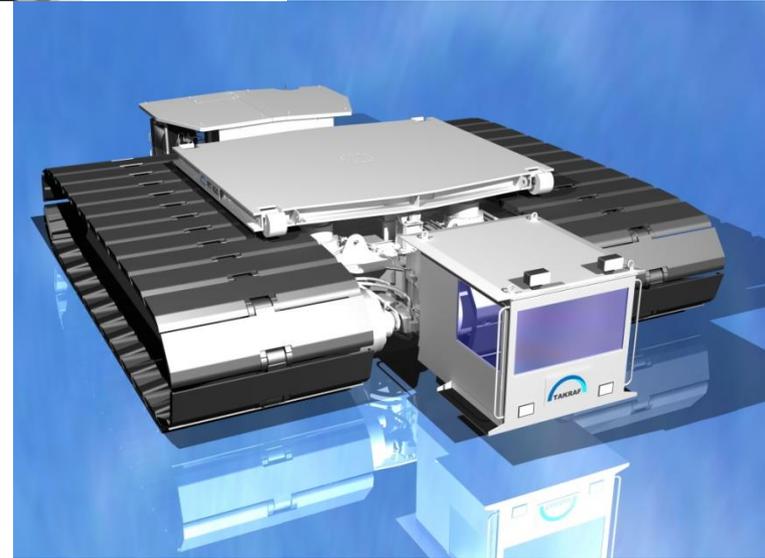
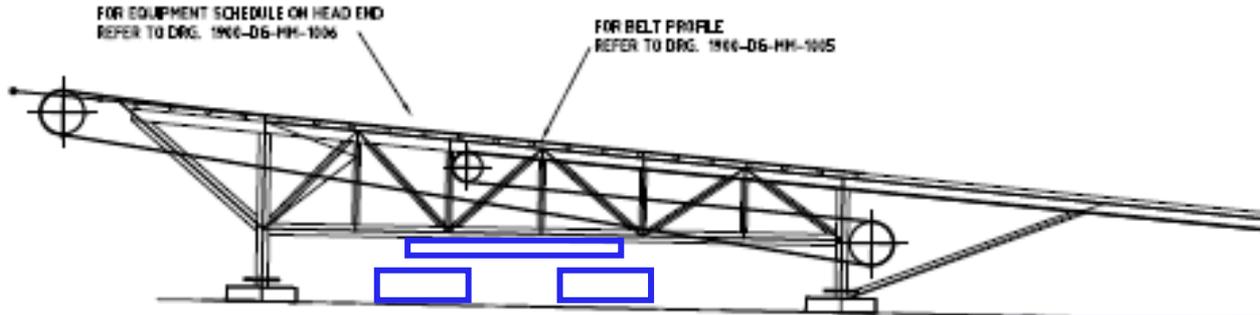
Mobile Transport Crawler (MTC) 420t capacity

- The Mobile transporter is used for transporting the conveyor drive head, placing counterweight beams and transporting general items



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Mobile Transport Crawler (MTC) 420t capacity



MTC (Mobile Transport Crawler)



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Mobile Tripper Spreader (MTS)



Takraf Mobile Tripper Spreader (MTS) Technical Data

- | | |
|---------------------------------|------------------------------|
| ● Material to be conveyed | Overburden |
| ● Theoretical conveying volume | 10,000 t/h |
| ● Bulk density | 1.6 t/m ³ |
| ● Max. Lump size | 450 x 350 x 350 mm |
| ● Dump conveyor centre distance | 2041m initially, then 2480 m |
| ● Lift | -3 m |
| ● Belt width | 1800 mm |
| ● Belt speed | 5.75 m/s |

Mobile Tripper Spreader (MTS) (on construction pad)



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MTS (in operation at dump conveyor head-end)



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System Operator Controls

- The entire system can be started, monitored and stopped by one operator from the operators cabin situated at the conveyor bridge of the MTS
- 6 Display Screens in Cabin
 - 1 x Scada for MTS
 - 1 x Scada for overall plant
 - 4 x CCTV screens
- Swivel Operators Chair with Joy Stick Controls



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IPCC Safe, Environmental Friendly and Efficient

- IPCC is a safer system as it reduces truck numbers, haul road congestion and Improved safety due to fewer mobile vehicle usage
- Less fossil fuel dependent using clean electrical power.
- Reduced manning requirements of between 40 – 60% due to higher automation.
- Reduced spare part requirements.
- Reduced greenhouse gas emissions of up to 25%
- Noise level reduction of up to 35%
- Dust emission reduction of up to 40%
- Reduced bad weather downtimes



IPPC in Action - YouTube Video

- IPPC in Action – Fully Mobile Configuration
 - <https://youtu.be/doNcVs-APvY>
- IPPC in Action – Semi Mobile Configuration
 - <https://youtu.be/1eqA8d3OuCo>

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