



## Talpac

### Description

Talpac — Runge's haulage software application — is designed to evaluate haulage fleet systems for the mining industry.

Because of its trusted impartiality, Talpac has been globally accepted as an industry standard for determining the productivity and economics of truck and loader hauling systems.

### Application

Users of Talpac software can:

- Calculate fleet productivity for long- and short-term planning
- Evaluate equipment along with optimum loading techniques and bucket sizes
- Determine haulage costs using discounted cash flow analysis and incremental truck costing; this makes Talpac an essential tool in the equipment selection and justification process
- Easily integrate cost data and calibrate haulage systems against actual performance data from fleet monitoring systems
- Create user defined reports
- Select graphics options
- Customise Talpac to site-specific parameters that affect fleet productivity, such as haul route, truck and loader types, material characteristics, work rosters and other operating limitations
- Report on tyre duty (TKPH or TMPH) for each haul route to assist with the management of tyre heating
- Report on fuel consumption, assisting with fuel supply management.

Talpac includes an extensive database of over 500 trucks and 400 loaders, which is updated annually.

### Benefits

Some of the key benefits of Talpac are listed below:

- Talpac is a flexible software application that allows users to compare equipment options on the basis of productivity and unit cost of production, using standard discounted cash flow analysis
- Truck fleet optimisation is an integral part of the Talpac system and is used to quantify the economic effect of over- and under-trucking, assisting in optimising truck allocation to each loader
- Talpac incorporates equipment loading analysis to optimise equipment specifications, such as loader bucket size, truck capacity and number of passes per truckload
- Talpac collates results used to examine the relationship between variables in calculations (such as productivity vs. haul length and lift)
- Talpac can be calibrated to match actual cycle times.



Run No.	Fleet Size	Fleet Production Per Year tonne	Production Change %	Fleet Discount Capital Cost \$/tonne	Fleet Discount Operating Cost \$/tonne	Fleet Discount Avg. Cost \$/tonne	Cost Change %	Marginal Cost \$/tonne
12	1.00	1,859,032.19	0.00	0.19	0.87	1.05	0.00	0.00
13	2.00	3,281,667.50	97.81	0.18	0.61	0.78	-25.64	0.51
14	3.00	4,796,370.74	189.11	0.18	0.53	0.71	-32.92	0.54
15	4.00	5,845,129.05	252.32	0.19	0.53	0.72	-31.59	0.79
16	5.00	6,247,763.68	276.59	0.22	0.59	0.81	-23.57	2.04

A screenshot taken from Talpac software

## About Runge

Runge Limited (Runge) is a leader in the provision of technology products, consulting services, and training courses to the global mining industry, delivering solutions and services across a range of commodities.

With expertise across a range of mining disciplines, our approach to the *business of mining* is strongly grounded in economic principles and delivering mine planning solutions that are tightly coupled with our technological support and training. Through these solutions, mining professionals gain access to technology and knowledge that allows them to optimise their business planning process. We provide expertise from corporate advisory and strategic planning through due diligence and related financial services to resource and reserves management.

Runge currently owns and operates 18 offices in 10 countries throughout the world. Our team includes Pincock Allen & Holt, Minarco-MineConsult, MRM Mining Services Pty Ltd and GeoGAS.

Runge provides people and technologies from across our global offices. We have integrated processes which ensure consistency of quality deliverables for our customers around the world. For any given project we enlist the best combination of technology and people to suit the location, commodity, scope and specialist skill requirements.

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