电气参数
ELECTRIC PARAMETERS

输入电压 Supply Voltage	3KV~11KV,3相50Hz或60Hz
应承受的最小短路容量 Minimum Short Circuit VA	23MVA
供电变压器最小容量 Supply Transformer (minimum)	2800KVA
提升电动机额定功率（690VAC） Hoist Motor, Rated Power	2X900KW
提升电动机峰值功率（690VAC） Hoist Motor, Peak Power	2X1125KW
推压电动机额定功率（690VAC） Crowd Motor, Rated Power	500KW

推压电动机峰值功率（690VAC） Crowd Motor, Peak Power	625KW
回转电动机额定功率（690VAC） Swing Motor, Rated Power	2X400KW
回转电动机峰值功率（690VAC） Swing Motor, Peak Power	2X520KW
行走电动机额定功率（690VAC） Propel Motor, Rated Power	2X600KW
行走电动机峰值功率（690VAC） Propel Motor, Peak Power	2X750KW

注：1.本产品技术参数将随着科学技术的进步和采矿工艺的发展而不断改进和完善，恕不通知。
2.所有参数只适用于产品推介，不能用于对设备的工作性能进行评估。
3.电气参数均基于额定电压690V及环境温度50℃。
4.如需更多技术参数，请咨询厂家。

Note: 1.This WK-35 is reliability and improved the performances with the progress of cutting edge technology in design and the development of mining technology. All technical specification are subject to variation without notice.
2.The parameters are suitable for WK-35 standard application design and promotion, can't be used to evaluate the equipment performance.
3.The electrical parameters are based on environmental temperature 50℃ and rated voltage 690V.
4.For further information please contact our TZ office in China or consult with TZ agents at your locations.

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WK-35挖掘机
WK-35 EXCAVATOR

2013版-1.01

太原重工股份有限公司
TAIYUAN HEAVY INDUSTRY CO.,LTD

WK-35挖掘机

WK-35矿用机械正铲式挖掘机为我公司研制的大型露天矿山采装设备，它汇集了我公司多年矿用挖掘机设计、工艺、制作的成功经验的同时，采用大量国内外先进技术，可适用于大型露天煤矿、铁矿及有色金属矿山的剥离和采装作业。

WK-35挖掘机采用三维仿真和有限元分析等现代设计方法，对整机性能和工作尺寸进行合理的选择；充分发挥自身的效力，提高了挖掘机与范围宽广的各种矿用车、破碎站等其他设备的匹配性，更好地满足用户高效装载、降低单位生产成本的要求。

电气系统采用整流/回馈公用直流母线变频调速系统，控制上以PLC为核心，采用上位监控、现场总线、变频调速的三级控制系统。具有：对电网无扰动、允许电压波动范围宽、功率因数高等特点；装有优化挖掘特性、自适应“提一挖”等软件；同时电铲具有故障自诊断和运行状态显示、电能计量等功能。这种系统技术先进、运行可靠、传动效率高、耗能低。

WK-35型挖掘机与172～326t矿用汽车配套使用。

技术特点：

- 齿轮齿条推压方式，切入性强，效率高；
- 硬齿面齿轮传动，齿轮寿命长；
- 回转、行走采用行星减速机；
- 高位驱动，延长驱动系统寿命；
- 采用全盘式气动制动器。

WK-35 EXCAVATOR

WK-35 excavator is a large size excavating equipment for open-pit mine developed by TZ. It combines the successful experiences accumulated for many years of design, processing and manufacturing of mining shovels, in the meantime absorbs lots of advanced new technology from domestic and abroad. WK-35 is suitable both for stripping and excavating on open-pit coal mine, iron mine and ferro-metal mine.

WK-35 excavator has adopted state-of-art and cutting edge technology, like three-dimension imitation, definite circle analysis and so on. It is of good performance, reasonable working dimensions and exerts its efficiency to fully play to enhance its matching ability with all sorts of haul trucks and crush stations to better satisfy end-user's requirements for higher production and lower operation cost.

Electric system adopts Rectifier/Regeneration to common DC Bus-bar and variable frequency speed adjustment. The electric control, taking PLC as the core, is a 3-stage system of up-position monitoring, field bus and frequency variable speed control. It is of futures of no disturbance to power grid allowing wider range of power voltage fluctuation and high power factor. The system is loaded with software to optimize the dig/cut curve and automatically optimization of hoist and dig power distribution. The system can realize self troubleshooting and running status display, electric power calculating and so on. This system has the advantages of state-of-art technology, reliable operation, high transmission efficiency and low power consumption.

WK-35 excavator is designed to match with mining trucks with capacity of 172MT to 326MT.

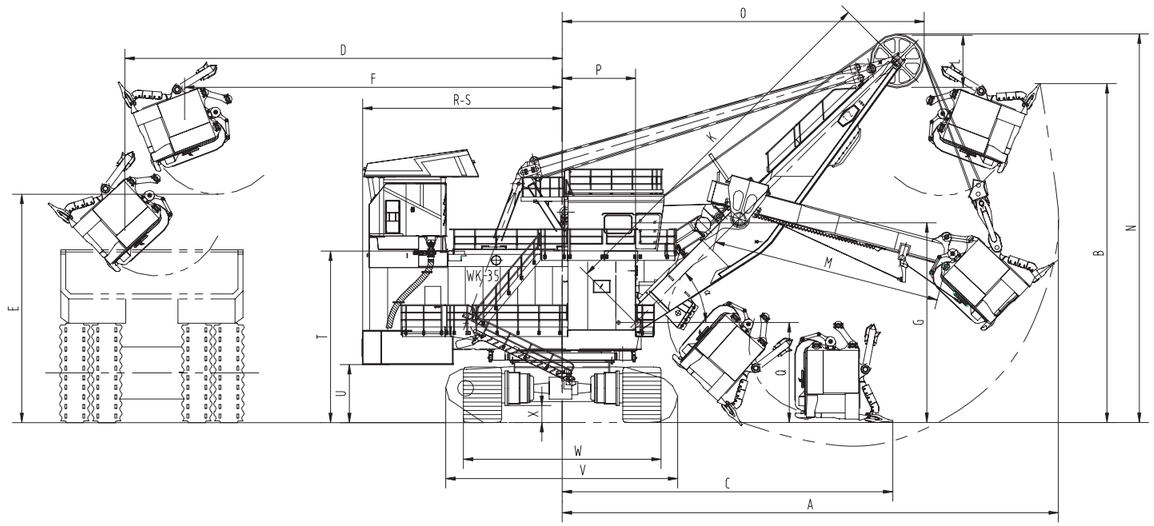
Technical characteristic:

- Gear-rack crowding, powerful penetration, high efficiency;
- The transmission gears use carburizing treatment to increase the surface hardness and lifetime ;
- Swing and propel mechanism adopt planetary reducers;
- The Propel mechanism adopts higher position drive to improve cycle life;
- Air-release-spring-set disc brakes are applied.

作业范围 WORKING RANGES

单位: m

A	最大挖掘 半径 Digging Radius (max)	24.00	E	最大卸载高度 Dumping Height (max)–Door Open	9.40
B	最大挖掘 高度 Height of Cut (max)	16.20	F	最大卸载高度时的卸载半径 Dumping Radius at Max. Dumping Height	18.40
C	水平清道 半径 Floor Level Radius	15.80	G	司机水平视线至停机面高度 Height-Ground to Operator's Eye Level	9.55
D	最大卸载半径 Dumping Radius (max)	20.90			



性能参数 MAIN PERFORMANCE PARAMETERS

1	额定载荷	Nominal Payload	65	t
2	斗容范围	Dipper Capacity	25~54	m^3
3	最大提升速度	Hoist Speed (max)	1.6	m/s
4	最大推压速度	Crowd Speed (max)	0.65	m/s
5	最大行走速度	Propel Speed (max)	1.08	km/h
6	最大提升力	Max. Hoist Force	2150	kN
7	最大推压力	Max. Crowding Force	850	kN
8	履带最大牵引力	Max. Crawler Dragging Force	4520	kN
9	最大爬坡角度	Max. Gradebility (degree)	13	°
10	履带板平均接地比压（履带板宽度=1397mm) Bearing Area-Ground Pressure (width of crawler shoes=1397mm)		425	kPa
	履带板平均接地比压（履带板宽度=1829mm) Bearing Area-Ground Pressure (width of crawler shoes=1829mm)		330	kPa
11	工作重量 (履带板宽度=1397mm)	Working Weight (width of crawler shoes=1397mm)	1065	t
	工作重量 (履带板宽度=1829mm)	Working Weight (width of crawler shoes=1829mm)	1080	t
12	配重	Counterweight	228	t

主要尺寸 GENERAL DIMENSIONS

单位: m

α	起重臂对停机平面的倾角 Boom Angle	45°	R	机棚尾部回转半径 Radius of Rear End	9.95
K	起重臂长度 Boom Length	17.68	S	机棚宽度 Width of Cab	9.40
L	起重臂顶部滑轮直径 Diameter of Boom Top Sheave	2.44	T	机棚顶至停机面的高度 Height–Ground to Top of Main Cab	8.35
M	斗杆有效长度 Effective Dipper Handle Length	10.36	U	配重箱底面至停机面高度 Height–Ground to Bottom of Counterweight	2.70
N	顶部滑轮上缘至停机平面高度 Clearance Height of Boom Point Sheave	18.54	V	履带部分总长度 Overall Length of Crawlers	10.80
O	顶部滑轮外缘至回转中心的距离 Clearance Radius of Boom Point Sheave	17.30	W	履带部分宽度 (履带板宽度=1397mm) Overall Width of Crawlers	9.05
P	起重臂支脚中心至回转中心的距离 Centre of Rotation to Boom Foot Pin	3.51		履带部分宽度 (履带板宽度=1829mm) Overall Width of Crawlers	9.48
Q	起重臂支脚中心高度 Height–Ground to Boom Foot Pin	4.75	X	履带驱动装置最低点距停机面高度 Height–Ground to Bottom of Crawler Drive Device	0.811