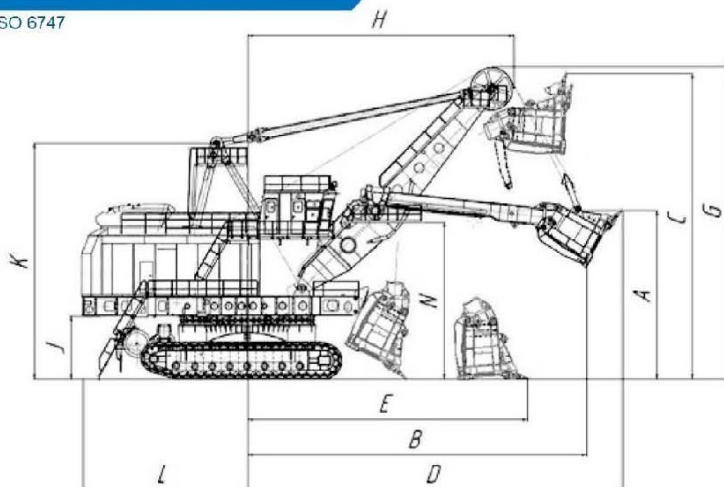


EKG-18R/20K

Crawler-mounted electric shovel

Complies with ISO 6747



Performance parameters

	EKG-18R	EKG-20K
Main bucket capacity, m ³	20	20
Optional bucket capacity range, m ³	16-26	18-28
Bucket payload, t	40	40
Maximum hoist force, t	170	170
Maximum crowd force, t	75	75
Operation cycle time, sec.	27	27
Maximum digging height, m	C	17.3
Maximum digging radius, m	D	22.6
Digging radius at floor level, m	E	16
Maximum dumping radius, m	B	19.4
Maximum dumping height, m	A	11.2

Weight and dimensions

		EKG-18R	EKG-20K
Working weight of shovel, t		770	750
Counterbalance weight, t		50	50
Ground pressure, MPa		0.250	0.245
Clearance height	– at head sheaves	G	19.2
	– at bipod stand	K	14.0
Clearance radius	– at head sheaves	H	17.5
	– at turntable		10
Clearance under turntable-to-ground	J	3.5	3.5
Clear width	L	10.0	10.0
Ground clearance		0.9	0.9
Operator's eye level	N	9.75	9.75

Electrical equipment

Type of electric drive	Thyristor converter-Motor
Voltage , kV	50 Hz, 6 KV
Power of main transformer , kVA	1000

Main drives motors

Drive	Power, kW	Revolutions per minute, r/min	Q-ty per shovel
Hoist	560	540	2
Crowd	350	900	1
Swing	350	900	2
Propel	200	750	2

Gear group

Gearbox	Construction design	Q-ty per shovel
-propel	Three-stage in-line and planetary gear reduction unit	2
-hoist	Double-reduction in-line gear unit	1
-crowd	Combined double in-line and planetary gear reduction unit	1
-swing	Double planetary gear reducer	2

Turntable

Length of turntable, m	16.2
Width of turntable, m	8.0

Rotation unit

Construction design	Supporting and turning mechanism with cone-shaped rollers
Ring gear	4752
- diameter, mm	
- number of teeth/module	132/36

Propel mechanism

Construction design	Double crawler track-mounted
Overall length, m	12.0
Clear width, m	9.4
Track gauge, m	8.8
Crawler belt	1.6
- width, m	
- number of track links	49
- pitch of chain, mm	515
Travel speed, km/h	1.0