JEILSNA
CONSTRUCTION EQUIPMENT

VIBRO HAMMER

SIDE GRIPPER VIBRO HAMMER

MACHINE FEATURES

- Outstanding workability and mobility.
- Easier operate when there is not enough vertical clearance above the foundation to permit use of a conventional pile hammer such as downtown area, bridge area and the vicinity of high-voltage electricity power lines than crane hammer does.
- Equipped with bigger vibration force powered by hydraulic motors and optimal bearings for high frequency vibration.
- Install vibro-isolating rubber for high frequency purpose.
- Easier connect and disconnect hydraulic hose lines to hammer from excavator.
- 360-degree swing for operator convenience.
- Comfortable driving and extraction of sheet pile, H-pile and tube pile with wire hanging method.
- The clamping lug can handle and move construction materials easily.
- Pile driving power improved by 20% compared to the existing equipments.
- Rigid clamping by Hardox inside.
- Lower cost of maintenance than crane hammer.

VIBRO HAMMER APPLICATINOS

SPECIFICATION	VIBRATING HAMMER	KTVH200	KTVH300
WEIGHT OF CARRIER (MACHINE) APPLICABLE	TON	18.0 ~ 26.0	27.0 ~ 32.0
	LBS	39,683 ~ 57,320	59,525 ~ 70,548
WAY OF OPERATION	TYPE	VERTICAL	VERTICAL
OPERATING WEIGHT (OF VIBRATING HAMMER)	KGS	1,720	1,800
	LBS	3,792	3,968
OPERATING WEIGHT (OF EXTENSION BOOM)	KGS	600	700
	LBS	1,323	1,543
RELIEF / SETTING PRESSURE (OF MACHINE / CARRIER)	KG/CM2	180 ~ 200	200 ~ 250
	PSI	2,562 ~ 2,846	2,846 ~ 3,558
OPERATING PRESSURE (OF VIBRATING HAMMER)	KG/CM2	180 ~ 200	200 ~ 250
	PSI	2,562 ~ 2,846	2,846 ~ 3,558
OIL SUPPLY / OIL FLOW (FOR VIBRATING HAMMER)	LPM (L / MIN)	130 ~ 180	170 ~ 200
	GPM (G / MIN)	34.32 ~ 47.52	44.88 ~ 52.80
IMPACT / STRIKING FREQUENCY	BPM (BLOW PER MINUTE)	2,000 ~ 2,500	2,000 ~ 2,500
CENTRIFUGAL FORCE (= ECENTRIC FORCE)	KN	300	390
CLAMPING JAW	LENGTH - mm	564	564
	LENGTH - INCH	22.00	22.00
	WIDTH - mm	260	260
	WIDTH - INCH	10.00	10.00
	HIGHT - mm	695	695
	HIGHT - INCH	27.00	27.00
OVERALL OPERATING - SIZE (OF VIBRATING HAMMER)+(WITH MOUNTING CAP)	LENGTH - mm	730	730
	LENGTH - INCH	28.70	28.70
	WIDTH - mm	1,140	1,140
	WIDTH - INCH	44.00	44.00
	HIGHT - mm	2,030	2,030
	HIGHT - INCH	80.00	80.00

MACHINE FEATURES

- G30 is Robotic Pile Drivers enabling you yo drive sheet piles, steel tubes, timber piles, h-i beams, cheaper, safer, quicker than traditional pile drivers.
- G30 is Robotic Pile Drivers With Side Grip and Bottom Clamp picks up the piles and turn to desired position adjusting the tilt and start driving the pile.

ADVANTAGES

- Drive Steel Sheet Piles , Steel Tubes , Timber Piles, H-I Beams.
- No Manpower Needed except excavator operator resulting less cost .
- Quick Change of Hands Suiting Your Pile Type and Size.
- Special Design resulting No Over Heating Problem.
- Carrier : 18-25 tons class excavators.

SIDE GRIPPER VIBRO HAMMER APPLICATINOS



SPECIFICATION

Weight (excluding adaptor)	1,980 Kg
Eccentric Moment	4 kgm
Centrifugal Force	395 kN
Frequency	2,700 rpm
Working Pressure	200Bar ~ 250Bar
Displacement	135 liter/min.
Dynamic Weight	1,150 Kg
Amplitude	7,7 mm
Rotation	360 Deg
Tilt	20 Deg.
Auto Drive System	Optional
Dimensions	140cm(L) × 140cm(W) × 160 cm(H)

Sheet Piles

From 300 mm to 600 mm Width
From 150 mm to 300 mm Depth
Max.Up to 1,250Kgs/ Each Pile

H-I Beams

From H160 to H260
Max.Up to 1,250Kgs/ Each Beam

Steel Tubes

From 150 mm to 320 mm Diameter
Max.Up to 1,250Kgs/ Each Pipe

Wood Piles

From 150 mm to 320 mm Diameter
Max.Up to 1,250Kgs/ Each Timber

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FEATURES

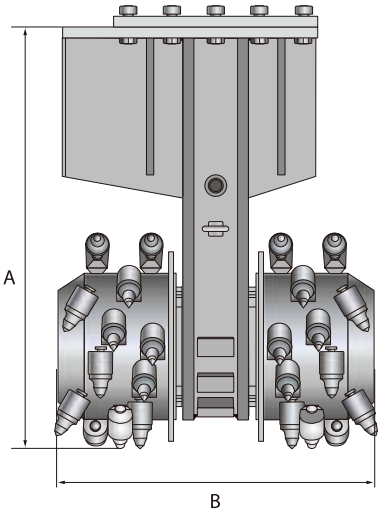
- **Robust** - long lasting low maintenance
- **Reliable** - sput gear transmission technology
- **Strong** - maximum cutting power to penetrate the rock

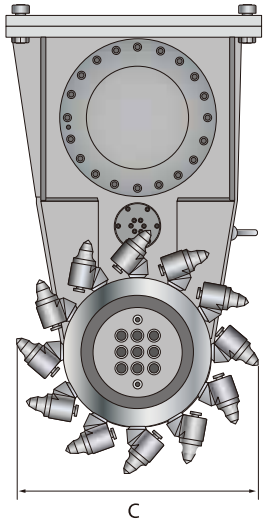


BENEFITS

- Extremely accurate scaling / grinding / profiling
- Lower vibrations reduce fatigue
- Direct reuse material as backfill
- Quiet operation in noise sensitive area
- Underwater operation

TWIN HEAD ROCK GRINDER






TYPE	RG05	RG10	RG15	RG20	RG30	RG50
Carreir weightg class (t)	5 - 8	8 - 12	12 - 18	18 - 25	25 - 40	40 - 60
Service weight (kg)	310	470	820	1,000	1,700	2,600
Total Length (mm) A	805	965	1,130	1,200	1,420	1,580
Total width of cutting head (mm)B	480	680	780	800	1,000	1,240
Diameter of cutter drum(mm) C	225	450	575	575	670	680
Rated Power (kW)	30	45	65	80	120	160
Oil flow rate (l/min)	49-90	75-124	109-170	140-250	190-320	275-410
Operating pressure (bar)			max, 350 bar			
Ratatoinal speed (rpm)	90-160	80-135	60-90	60-110	45-85	55-85
Pick Speed (m/s)	1.5-2.7	1.7-2.8	1.8-2.7	1.8-3.3	1.6-2.7	2.0-2.9
Max.cutting force at 350bar (kN)	17,800	23,200.0	36,200	50,400	69,900	81,800
Max. Torque at 350 bar (Nm)	3,150	5,200	10,400	14,000	23,400	27,800
Max. rock hardness (MPa)	25	40	50	60	80	100
Number of picks (Pcs)	56	64	44	48	48	56
Pick shank diameter (mm)	20	20	25	25	30	30

JOB APPLICATIONS

- **UNDERWATER OPERATION**
- **TREE STUMP REMOVAL**
- **UNDERGROUND** CONSTRUCTION
- **TRENCH & PIPELINE** CONSTRUCTION
- **MAKING ROAD ACCESS**

TRENCH & PIPELINE CONSTRUCTION

TUNNEL CONSTRUCTION

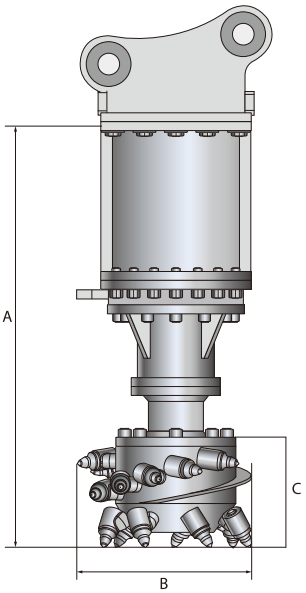
DEMOLITION / CONCRETE / BUILDING RENOVATION

MINING

FROZEN GROUND

PROFILING / LEVELLING

SINGLE HEAD ROCK GRINDER



TYPE	RGL20	RGL30	RGL40
Carreir weightg class (t)	15 - 23	20 - 30	25-35
Service weight (kg)	820	1,200	1,200
Total Length (mm) A	1,100	1,900	1,900
Total width of cutting head (mm)B	360	500	500
Diameter of cutter drum(mm) C	450	600	600
Rated Power (kW)	80	120	120
Oil flow rate (l/min)	140-250	190-320	190-320
Operating pressure (bar)		max, 350 bar	
Ratatoinal speed (rpm)	60-110	60-110	45-85
Pick Speed (m/s)	1.8-3.3	2.1-3.6	1.6-2.7
Max.cutting force at 350bar (kN)	49,500	51,300	68,800
Max. Torque at 350 bar (Nm)	14,000	17,500	23,400
Max. rock hardness (MPa)	60	70	80
Number of picks (Pcs)	25	35	35
Pick shank diameter (mm)	30	30	30

COMPACT ROCK GRINDER

TECHNICAL DATA	UNIT	SRG03
Recommended rotation speed	rpm	150
Recommended oil flow	l/min	32
Maximum oil flow at 10 bar	l/min	60
Maximum operating oil pressure	bar	350
Torque at 210 bar	Nm	720
Torque at 350 bar	Nm	1,200
Cutting force at 210 bar	N	6,450
Cutting force at 350 bar	N	10,700

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