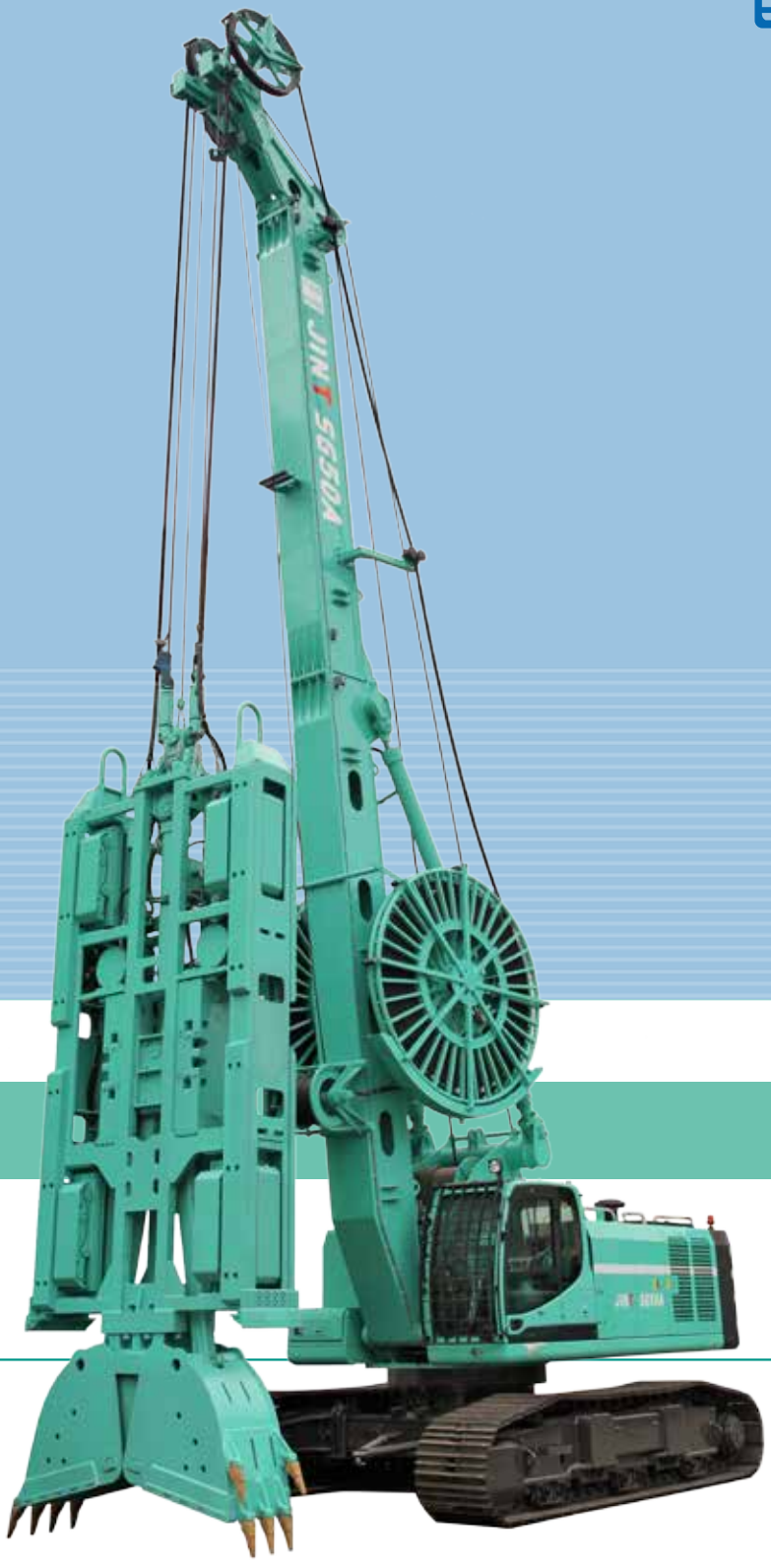
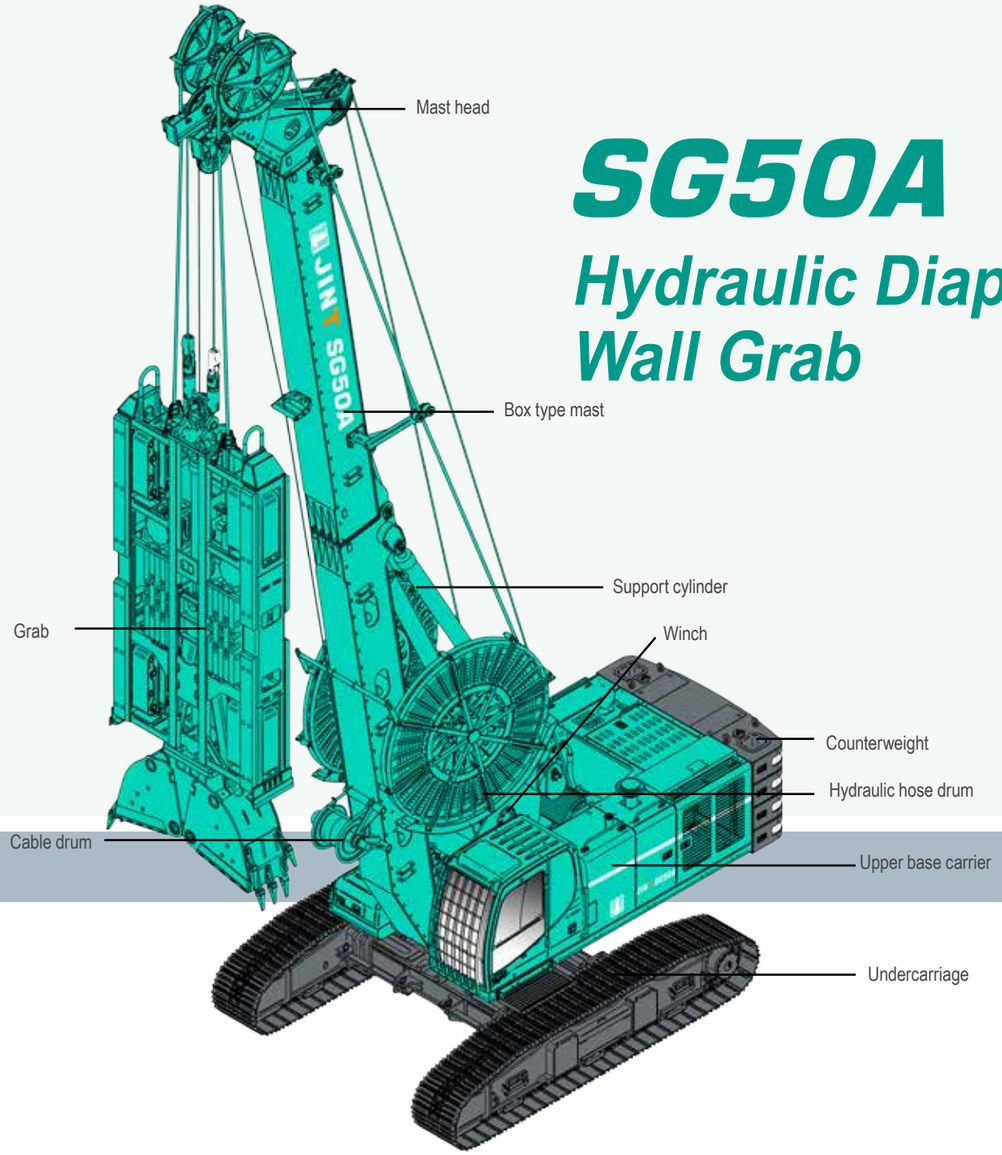
JINT



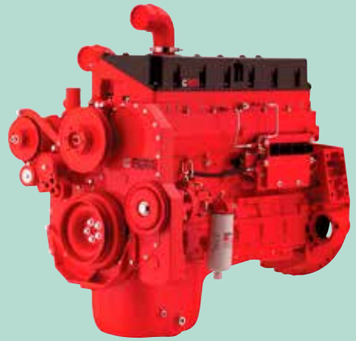
SG50A

Hydraulic Diaphragm Wall Grab



SG50A

Hydraulic Diaphragm Wall Grab



- Engine: Cummins QSM11, USA
- Emission standard: Tier 3

- Main valve: Kawasaki special design for rotary drilling rig, Japan
- Design for large drift diameter and large flow

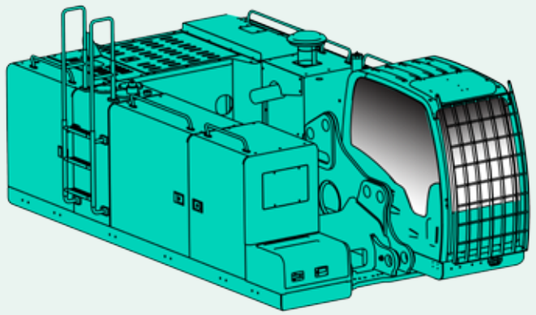
- Main and auxiliary pump: Kawasaki Load-sensitive variable pump, Japan

- Hydraulic oil level monitoring, easy for cutting off grab hydraulic oil circuit
- Monitoring of leak for control box on grab frame
- Dynamic display of wall depth, grab speed and position

SG50A Main Technical Parameters

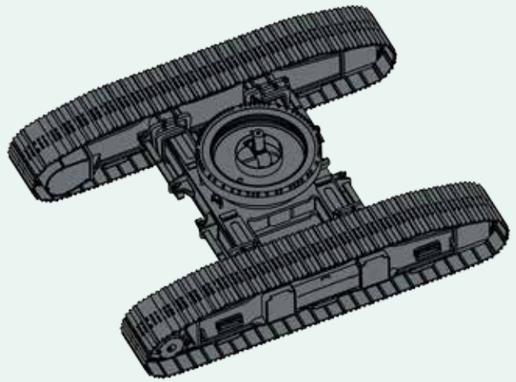
SG50A is developed on start products SG46A, which is optimized chassis design, including increasing engine power, improving hydraulic system to improve effective engine output; reaching reasonable parts layout, good heat radiating, easy maintenance and repair and effective saving fuel consumption.

Model	SG50A
Upper Base carrier	R485LC
Engine	QSM11-Tier 3
Rated output(kW/rpm)	266/1900
Undercarriage	JT85



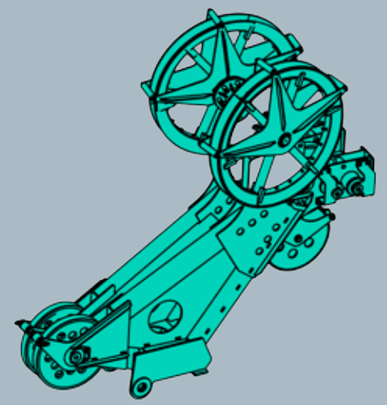
Upper base carrier——high efficiency, energy saving, comfortable, durable

- Full powered intelligent control system
- Parallel connected multi pumps improves effective output power
- Special main valve for diaphragm wall grab to minimize losses
- Proper pipeline layout is easy for maintenance



Undercarriage

- High strength slewing bearing
- Reliable H-type connected structure
- Retractable chassis with hydraulic cylinders
- Large sized bearing area could sustain large overturning moment.

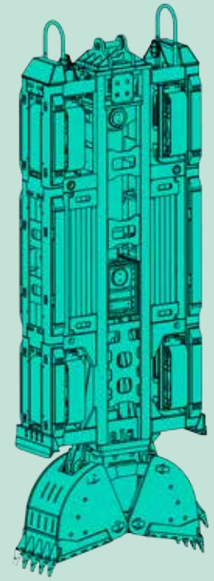


Mast head

- High strength lightweight design
- Optimum transportation height
- With height limited sensor
- With depth sensor

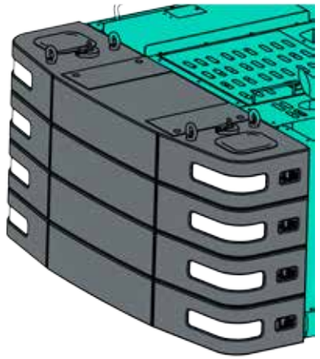
Variable grab

- Machine with variable grab, which can reach weight up from 18 ton to 25 ton.
- Improving different soil working efficiency and energy conservation and and environment protection.
- Extend the wire rope service life.
- Main cylinder Max. push force is 1600kN.
- Patent No. ZL201420553137.5



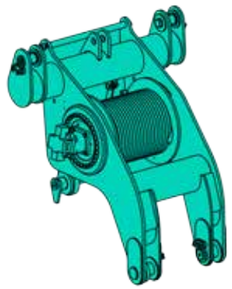
Variable combination of superposition counterweight

- Multi-layer horizontal placement counterweight
- Small rotation radius
- Flexible combination and practical adjustment
- Easy dismantling



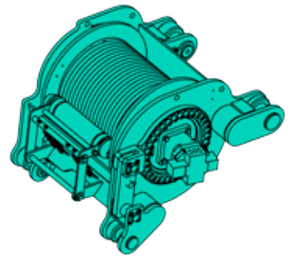
Front winch

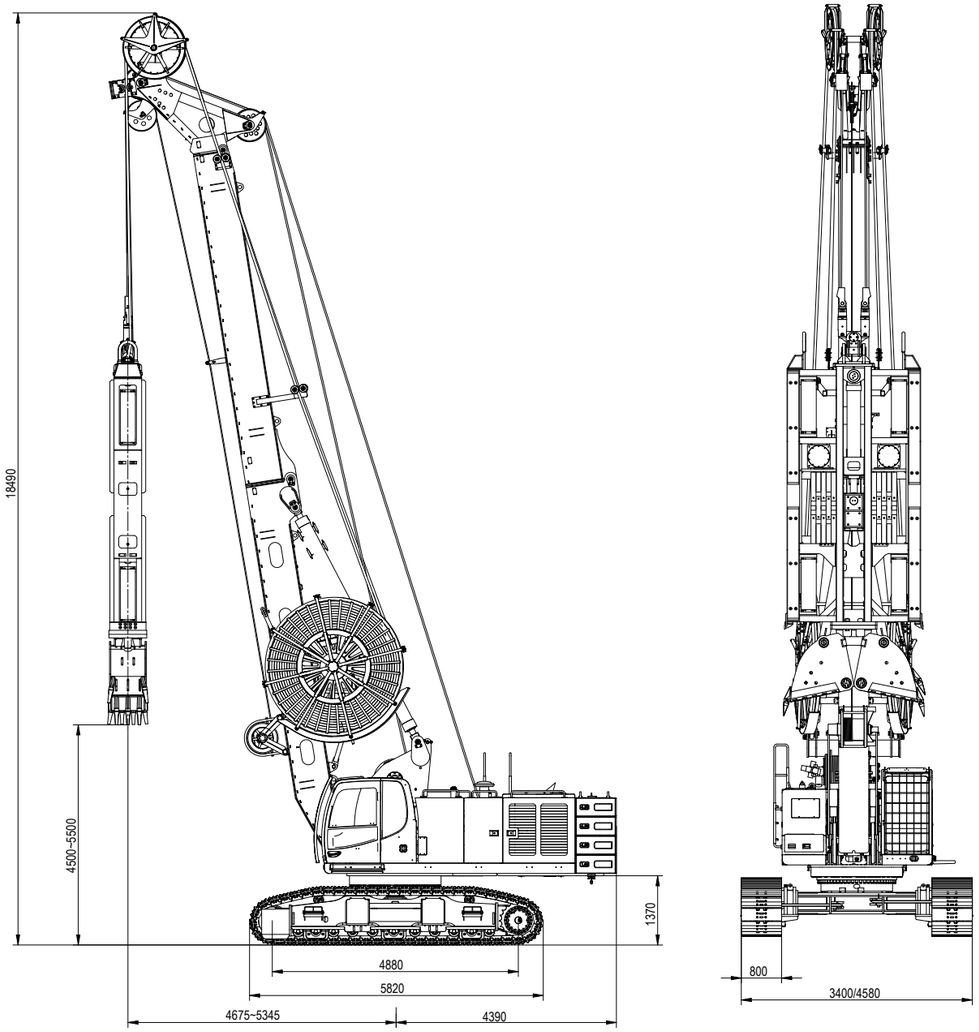
- Integrated design in Lifting frame and winch frame
- Design for long time heavy loaded operation
- LEBUS design for low wire rope consumption



Backside winch

- Design for long time heavy loaded operation
- LEBUS design for low wire rope consumption
- Pulling force sensor
- Easy maintenance



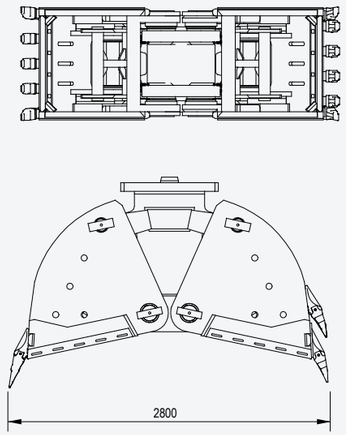


Technical Parameters

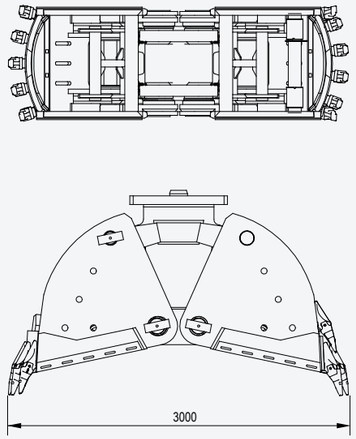
Model	SG 50A
Wall width(m)	0.3 ~ 1.5
Max.wall depth(m)	75
Max. extraction force(kN)	500
Single line pull of winch(kN)	2 x 250
System pressure(MPa)	33
Main pump flow(L/min)	2 x 380
Weight of grab(t)	14 ~ 25
Total weight (w/o grab)(t)	78
Dimensions	
Mast height(mm)	18490
Max.Height from grab to ground(mm)	4500~5500
Overall crawler length(mm)	5820
Overall crawler length(mm)	4675~5345
Swing radius of rear end(mm)	4390
Base machine	
Diesel	QSM11-Tier3
Max. rotation speed(rpm)	1900
Rated engine output(kW)	266
Retractable undercarriage	
Model of undercarriage	JT85
Tarack shoe outer distance(mm)	3400~4580
Tarack shoes width(mm)	800
Towing force(kN)	580
Crawler speed(km/h)	1.5

Grab

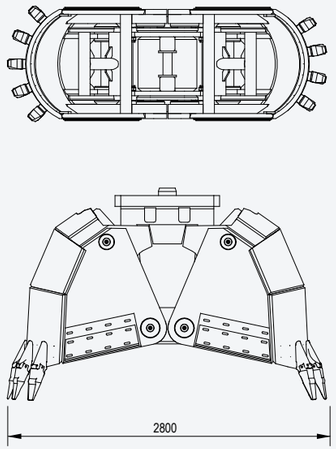
Rectangle grab



Round grab

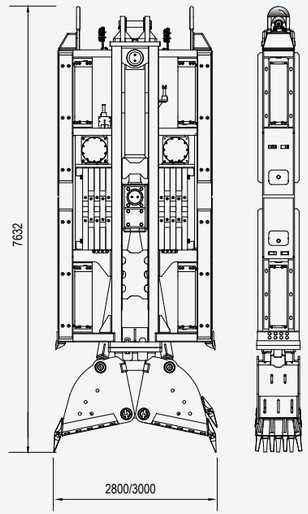


Large round grab

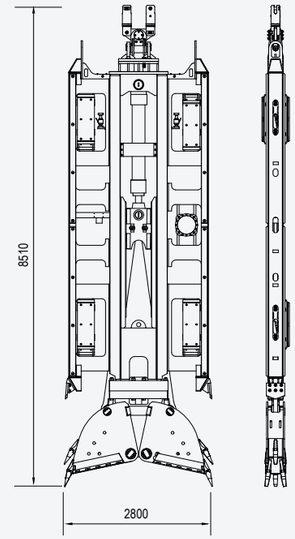


Grab Frame and Shovel

600 Series



300 Series



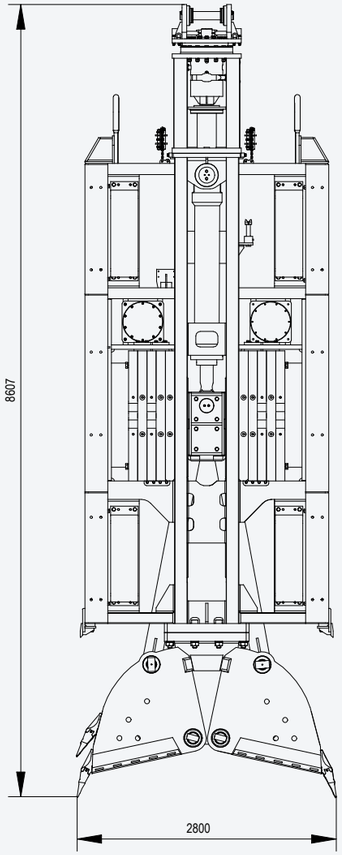
Grab type	Closing force (t)	Wall width（mm）	Grab and grab frame weight (kg)	
			Basic weight	Max weight
Rectangle grab	130	600	15120	20120
	130	800	18350	23350
	130	1000	19170	24170
	130	1200	20400	25400
Round grab	130	600	15270	20270
	130	800	18760	23760
	130	1000	19020	24020
	130	1200	20640	25640
Rectangle grab	160	600	17730	22730
	160	800	21250	24250
	160	1000	22030	25030
	160	1200	23320	25320

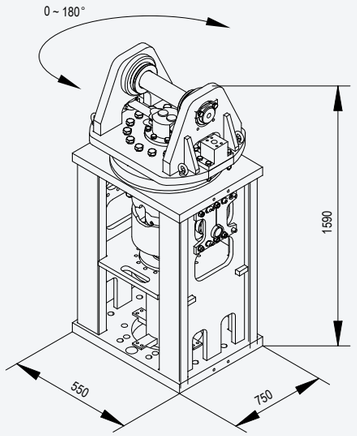
Other specification according to customer requirement.

Grab Slewing Device (optional)

This slewing device is on the top of grab frame. The grab frame with shovel can swing 180° by the slewing device.

Patent No.:ZL201120391796.X

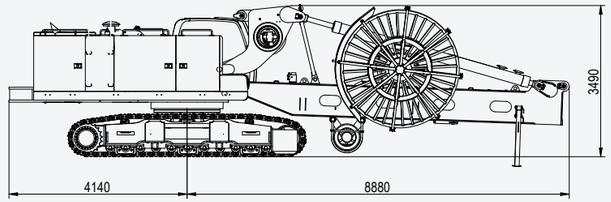




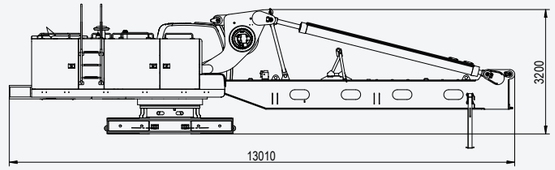
Transportation Parameters

1 Main base machine transportation

G=57t B=3400mm

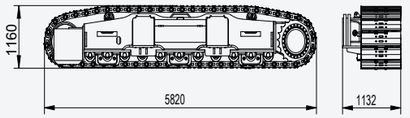


Main machine disassemble left and right bracket support, crawler , main winch , pipe drum, cable drum to transportation G=32t B=2980



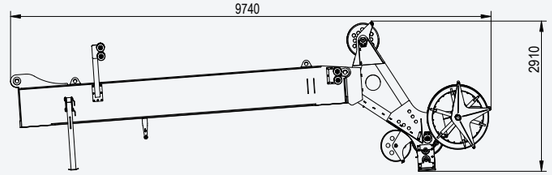
The left and right bracket supports with tracks

G=9tx2



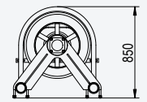
2 Upper mast+ mast head

G=5t B=1790mm



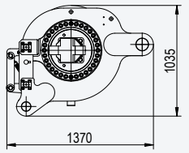
3 Cable drum

G=0.3t B=990mm



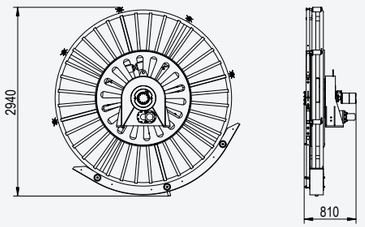
4 Front winch

G=2.2t B=1370mm



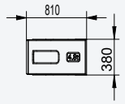
5 Hydraulic hose drum

G=1.2t×2

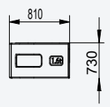


6 Counter weight

G=4.8tx3 B=2980mm



G=1.6t B=2980



Work Example

1

2

3

4

5

6

1.Xianfeng Road station of Line 3 subway in Harbin
2、3. Sixth Road station of Line 3 subway in Harbin
4.Line 3 subway in Suzhou
5.Xianfeng Road station of Line 3 subway in Harbin
6.Kuangji station of Line 2 subway in Taiyuan

(M)2016-11-SG50A

More Information：
www.jintai-sh.com

SG50A

SG60A

SG60B

SG70

400-820-8326

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