

T-FLEX MAISO

PREMIUM MANUFACTURER FOR 30 YEARS

Concrete vibrator | Flexible shaft | Rubber hose

T-FLEX MAISO

FAITHFULNESS, INNOVATION, PRECISION, EXCELLENCE
YOUR PRODUCTION EXPERT OF FLEXIBLE SHAFT-DRIVE PRODUCTS

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MAISO TRANSMISSION TECHNOLOGY CO., LTD
T-FLEX INDUSTRIES LTD



**A MANUFACTURER
WITH QUALITY,
TRUST AND SINCERITY**

COMPANY HISTORY

- In 1993, we started the research and production of Flexible Shaft with the company name **Jingyanggang Construction Machinery Co. Ltd;** 
- In 1997, we produced the 1st piece of Concrete Vibrators;
- In 2004, we started production and supplying of Flexible shaft and Rubber hose assembly;
- In 2008, we launched the Submersible Water Pump products lines;
- In 2013, we registered branch- company **T-Flex Industries Ltd.**  to supply construction machinery products line specially;
- In 2018, we upgraded to **Maiso Transimission Technology Co., Ltd**  to focus on R&D of Flexible shafts-drive products lines;
- In 2020, we moved to newly-built **30,000 sqm** factory and got ISO certificate.

30000^{M2}
Factory area

30+
Technology certification

120 people
Professional team



WHY CHOOSE US?

FOCUSING, PROFESSIONAL
AND COMPETITIVE

- No.1 Flexible Shaft production center in China
- 2 Generations technical team R&D enthusiasm and ability
- 30 Years experience focusing on Flexible shafts and Concrete vibrators
- 7*24 Hours timely responded service team
- 100% Ensured premium quality

WE ARE THE BEST, BUT WE DON'T MAKE YOU PAY FOR IT!

We offer everyone the technology they need on the budget they can afford.

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RUBBER HOSE

T-FLEX: PROFESSIONAL TO CONCRETE VIBRATOR



GOOD VIBRATIONS

Vibrating freshly poured concrete removes airbubbles, making the finished product stronger and longer-lasting. The quality of the end result can vary greatly depending on the quality of the tools being used.

T-FLEX never let you down. We have applied years of experience, research and development into producing the best concrete vibrators on the market.

Our range of tools covers every application of concrete vibration - working with any consistency of concrete, and every size and shape of formwork. Vibration is so important for the long-term strength of concrete that it is often required by building codes.

T-Flex equipment uses internal vibration- the most common and effective method - and can be handled by a single operator.

ELECTRIC VS. TRADITIONAL

ELECTRIC

- Low operating weight and noise levels
- Better vibration constancy and reliability
- Less maintenance and no fumes

TRADITIONAL

- Proven performance and reliability
- Compatible with drive units from all makers
- Classic and familiar design



ECENTRIC CONCRETE VIBRATOR

Eccentric concrete vibrator is more suitable for some shallow depth which need high frequency vibration, such as slabs, forms, precast, etc. As the noise generated is relatively low, it is suitable for working occasion where has low noise tolerance.

T-Flex makes strict control to spare parts quality level and the assembly precision to ensure the stable operation performance and long use life. Our products could be adaptive to some universal brands drive units, such as Wacker Neuson and Enar, as a more economical alternative.



T-FLEX ZPN-W ECCENTRIC CONCRETE VIBRATOR- WACKER TYPE

No	Model No.	Poker head dia* length(mm)	Flexible shaft dia (mm)	Rubber hose dia(mm)	Rubber hose length(m)	Amplitude(mm) Total value	Vibration Hz (V.P.M)
1	ZPN25	25*380	9.15	21	1m~9m, could be customized	1.2	183~200 (11,000~12,000)
2	ZPN35	35*410				1.6	
3	ZPN45	45*387				2.0	
4	ZPN55	57*410				2.3	
5	ZPN65	65*385				2.4	

FEATURES

HIGH WORK PERFORMANCE

Hardened steel poker head consisting of over-sized eccentric, high quality 4 bearings, double seal, heavy duty rubber hose, quick disconnection of the shafts and head, accurate assembly from parts to finished products, ensure the stable and high work performance.

OPTIONAL CHOICE

Square poker head and Rubber tip could be required.

ZPN-E SERIES ECCENTRIC CONCRETE VIBRATOR

No	Model No.	Poker head dia* length(mm)	Flexible shaft dia (mm)	Rubber hose dia(mm)	Rubber hose length(m)	Amplitude(mm) Total value	Vibration Hz (V.P.M)
1	ZPN32	32*368	9.15	27	1m~9m, could be customized	1.2	183~200 (11,000~12,000)
2	ZPN38	38*389				1.7	
3	ZPN48	48*379				2.1	
4	ZPN50	50*368				2.2	
5	ZPN58	58*387				2.3	



FLEX-VIBE PORTABLE ECCENTRIC CONCRETE VIBRATOR

Powerful, light-weight and efficient, Flex-VIBE portable petrol concrete vibrator is perfect for application scenario where maximum portability, light weight and balance are needed, such as slabs, stairways, footings and footpaths, etc.

BACKED BY THE POWER OF HONDA TO WORK LONGER

At the heart of the Flex-Vibe is the hard-working Honda GX35 4-stroke engine to consolidate the mix while avoiding the noise and hassle of a 2-stroke engine. Reliable and dependable, the GX35 is 100% compliant with all international engineering and environmental standards, and the drive unit is backed by a 3-year warranty from Honda.



BUILT FOR COMFORT TO MINIMIZE OPERATOR FATIGUE

Flex-Vibe supply rational design with ergonomics consideration. Equipped with an adjustable soft grip handle and padded carry strap, reducing workers' fatigue after the long hours working.



BUILT FOR EASY SPEED CONTROL

With a convenient on/off switch and a built-in tachometer, Flex-Vibe could supply the easy speed control and adjustable vibration speed.

LIGHTWEIGHT AND MOBILITY

Easy and convenient, handheld concrete vibrator can be used indoor or outdoor, to meet the needs casual vibration needs in construction site



FLEX-VIBE PORTABLE ECCENTRIC CONCRETE VIBRATOR

MODEL	XK35/45	
Vibrator head diameter&Length	mm	35*410 45*385
Hose Length	mm	550
Hose outer diameter	mm	27
Flex shaft core diameter	mm	9.5
Weight	kg	13
Frequency	vpm	10,000
Optional polyurethane tipped	Yes	
Drive unit	Honda GX35/Other optional economic engine	
Fuel type	Petrol	

FLEX- BP BACKPACK ECCENTRIC CONCRETE VIBRATOR

Powerful, ergonomic design, easily-operated, Flex-BP backpack petrol concrete vibrator plays quite a remarkable role in diverse work-sites where mobility, long-time power output needed but electricity unavailable.

SAFETY & MOBILITY

Flex-BP series is powered by a petrol engine and it doesn't need any electricity connection, increasing worker operating safety. As no electricity needed, Flex-BP allows a great mobility for operators in work site.

EASY HANDLING AND CONTROL

Throttle controller and on/off switch are integrated into the handle, which makes handling and vibrator control easier.



ERGONOMIC DESIGN

Flex-BP series offer an ergonomic design where the engine weight is properly supported by the operator's hips and a soft belt to improve operator's comfort. By reducing operator fatigue and discouraging injury-prone postures, Flex-BP improves overall work site productivity.

EXTENDED USE LIFE

Flex-BP equipped with premium transmission flex shaft and rubber hoses; which best steel wires and top-quality rubber and reinforced ends used, provide higher resistance to withstand more intense bending. Eccentric poker heads are processed by the modern CNC center to ensure detail accuracy. And double seal prevents the entrance of lubricants.

Flex-BP equipped by specially-designed engine mount includes shear resistant insulators and a reinforced base plate.

From engines and each part, Flex-BP supply professional solution to extend concrete vibrator's use life.

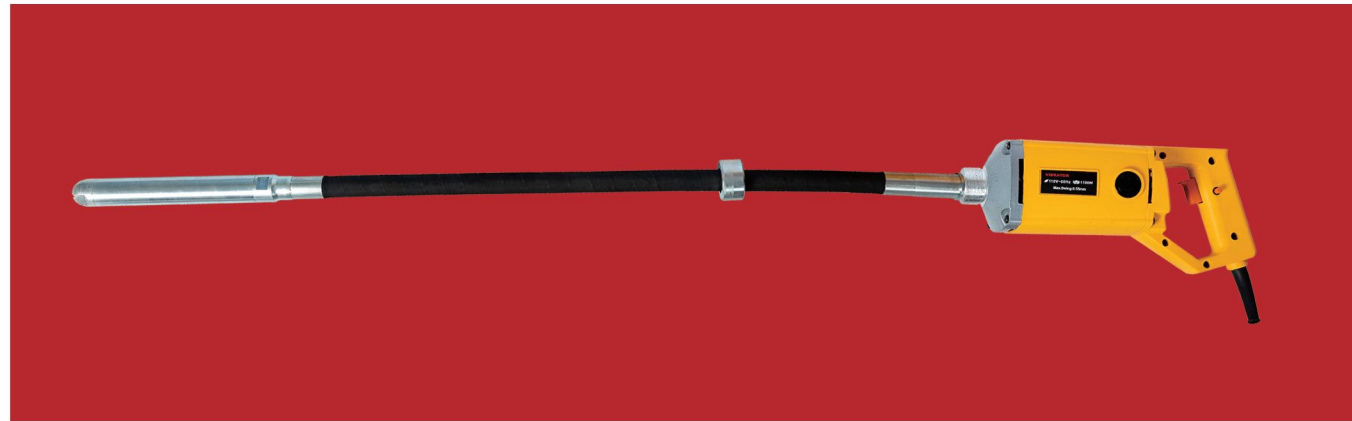


T-FLEX		FLEX- BP BACKPACK ECCENTRIC CONCRETE VIBRATOR		
MODEL		BP25/35/45		
Drive unit		Honda GX35/Other optional economic engine		
Fuel type		Petrol		
Vibrator head diameter&Length	mm	25*380	35*410	45*385
Hose Length	m	2/3		
Hose outer diameter	mm	21/27/27		
Flex shaft core diameter	mm	8/9.15/9.15		
Frequency	vpm	10,000		
Optional polyurethane tipped		Yes		

FLEX-ZHN HANDHELD ECCENTRIC CONCRETE VIBRATOR

Light-weight, portable and compact design for all day use, Flex-ZHN Handheld electric eccentric concrete vibrator is ideal for construction, patching and other concrete repair jobs.

Powered by high-frequency electric motor or Lithium battery motor, Flex-ZHN eccentric vibrators are designed specially to transfer power under high vibration frequency.



T-FLEX ZHN SERIES HANDHELD ELECTRIC ECCENTRIC CONCRETE VIBRATOR

No	Model No.	Poker head dia* length(mm)	Flexible shaft dia (mm)	Rubber hose dia(mm)	Rubber hose length(m)	Amplitude(mm) Total value	Vibration Hz (V.P.M)
1	ZHN25	25*225	8	24	0.6~1.2, could be customized	1.2	200~260 (12000~15500)
2	ZHN28	28*190				1.4	
3	ZHN32	32*190				1.5	

POWERFUL AND EFFICIENT

Drive by high-speed motor, effectively improve the concrete vibration to consolidate cement and remove all the trapped air bubbles to give you the toughest cement.

LIGHTWEIGHT AND MOBILITY

Easy and convenient, handheld concrete vibrator can be used indoor or outdoor, to meet the casual vibration needs in construction site

ERGONOMIC DESIGN & ONE-KEY START SWITCH

The lightweight and ergonomic handle design is ideal for easy operation and consistent use

FLEX-ZSN HANDHELD PENDULUM CONCRETE VIBRATOR

Light-weight, portable and compact design for all day use, Flex-ZSN Handheld pendulum concrete vibrator is ideal for construction, patching and other concrete repair jobs. It helps to remove bubbles, and make the concrete flat. Based on pendulum concrete vibrator design, the handheld pendulum vibrator poker could increase the friction area within the poker head to help maintain speed and prevent a loss in rpm.



T-FLEX ZSN SERIES HANDHELD ELCTRIC PENDULUM CONCRETE VIBRATOR

No	Model No.	Poker head dia* length(mm)	Flexible shaft dia (mm)	Rubber hose dia(mm)	Rubber hose length(m)	Amplitude(mm) Total value	Vibration Hz (V.P.M)
1	28*380	28*380	8	25	0.6~3.6,couldbe customized	1.4	200-260 (12000-15600)
2	32*470	32*470	10	30		1.5	
3	35*380	35*380	10	30		1.6	
4	38*470	38*470	10	30		1.7	
5	45*470	45*470	10	30		2	
6	50*470	50*470	10	30		2.2	
7	60*470	60*470	10	30		2.4	

ADAPTIVE DRIVING UNIT

No	Electric motor model No.	Power (w)	Voltage (V)	Frequency (Hz)	RPM
1	H35-1	750w	220/110	50/60	4000
2	H35-2	800w			
3	H35-3	900w			
4	H35-4	1100w			
5	H50-1	1300W			
6	H50-2	1500W			
7	H50-3	1800W			

PENDULUM CONCRETE VIBRATOR

As the most classic type concrete vibrators, pendulum vibrators were designed for heavy-duty applications and demanding sites. Powered by modern petrol or diesel engines or electric motors, it offers high performance and usability.



LONG REACH

A lengthy 6-meter hose provides excellent reach around the worksite, giving the operator more control.

DESIGNED TO PERFORM

The conical shape of the pendulum raceway increases the friction area within the poker head to help maintain speed and prevent a loss in rpm.

BUILT TO LAST

The use of premium quality flexible shaft and steel reinforcement in the rubber hose contribute to a long service life.

SIMPLE, COST-EFFECTIVE MAINTENANCE

The overall simplicity of the design ensures maintenance is easy and inexpensive.



C SERIES SPRING CONCRETE VIBRATOR (WITH COUNTER SPRING INSIDE THE POKER HEAD)

No	Model No.	Diameter (mm)	Length (mm)	Hose OD (mm)	Flexible D (mm)	Dynapac type	Japanese type
1	C28	28	450	25	8	C28D	C28J
2	C32	32	470	30	10	C32D	C32J
3	C38	38	470	30	10	C38D	C38J
4	C45	45	470	30	10	C45D	C45J
5	C60	60	486	30	10	C60D	C60J

CJ SERIES CONCRETE VIBRATOR (WITHOUT COUNTER SPRING INSIDE THE POKER HEAD)

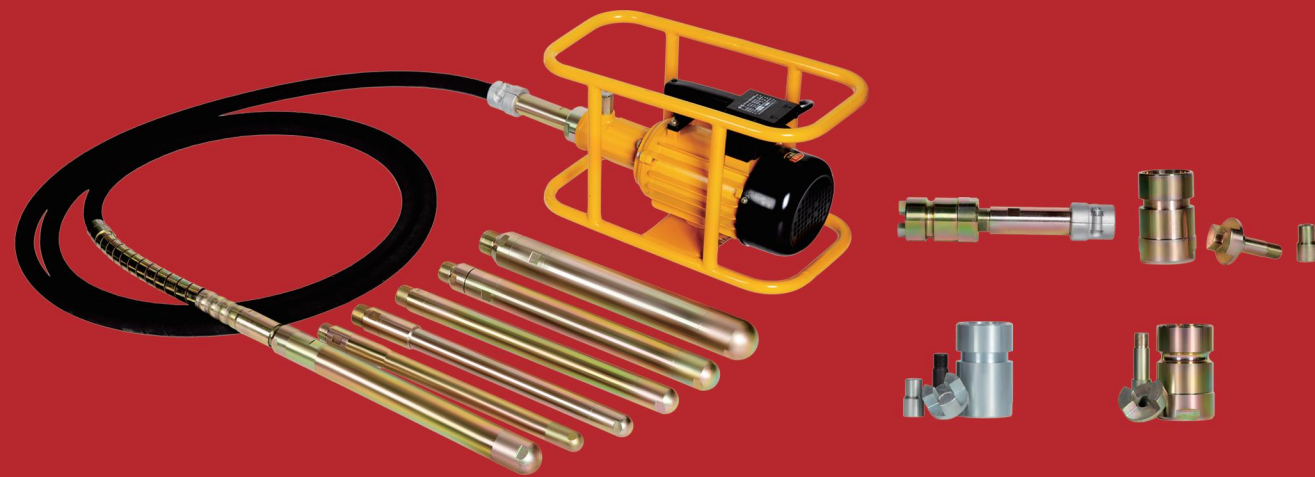
No	Model No.	Diameter(mm)	Length (mm)	Hose OD(mm)	Flexible shaft D(mm)
1	CJ28	28	450	25	8
2	CJ32	32	470	30	10
3	CJ38	38	470	30	10
4	CJ45	45	470	30	10
5	CJ60	60	486	32	13
6	CJ70	67	495	36	13

DYNAPAC TYPE CONCRETE VIBRATOR

As the most classic type concrete vibrators, pendulum vibrators were designed for heavy-duty applications and demanding sites. Powered by modern petrol or diesel engines or electric motors, it offers high performance and usability.

OPTIONAL FORMS ACCORDING TO CUSTOMERS' REQUIREMENTS:

- 1, With or without counter spring inside the vibrator head optional
- 2, With 3-claw or 2-claw optional. Australia and surrounded areas prefer 3-claw type
- 3, With round connecting groove (ball type) or square connecting groove (pin type)
- 4, With or without outer liner on rubber hose



JAPANESE TYPE CONCRETE VIBRATOR

Japanese coupling type pendulum concrete vibrators are widely used in Japan, Turkey, Mid East, Europe, Africa, etc.

It mainly includes Hayashi (EXEN) and Mikasa 2 types and we could supply both types. Customers could decide which one he need.

OPTIONAL FORMS ACCORDING TO CUSTOMERS' REQUIREMENTS:

- 1, With or without counter spring inside the poker head optional
- 2, With round Hayashi (EXEN) connecting groove (ball type) or square connecting groove (pin type)
- 3, With or without outer liner on rubber hose



T-FLEX		DYNAPAC TYPE CONCRETE VIBRATOR						
No	Model	Poker head dia* length(mm)	Flexible shaft dia (mm)	Rubber hose dia(mm)	Rubber hose length(m)	RPM	Amplitude(mm) Total value	Vibration Hz (V.P.M)
1	CJ28D/C28D	28*450	8	25	2m, 4m, 5m, 5.5m, 6m, 9m, 10m, 12m (can be optional)	2850	1.4	183~200 (11,000~12,000)
2	CJ32D/C32D	32*470	10	30		2850	1.5	
3	CJ38D/C38D	38*470	10	30		2850	1.7	
4	CJ45/C45D	45*470	10	30		2850	2	
5	CJ60/C60D	60*486	13	32		2850	2.4	

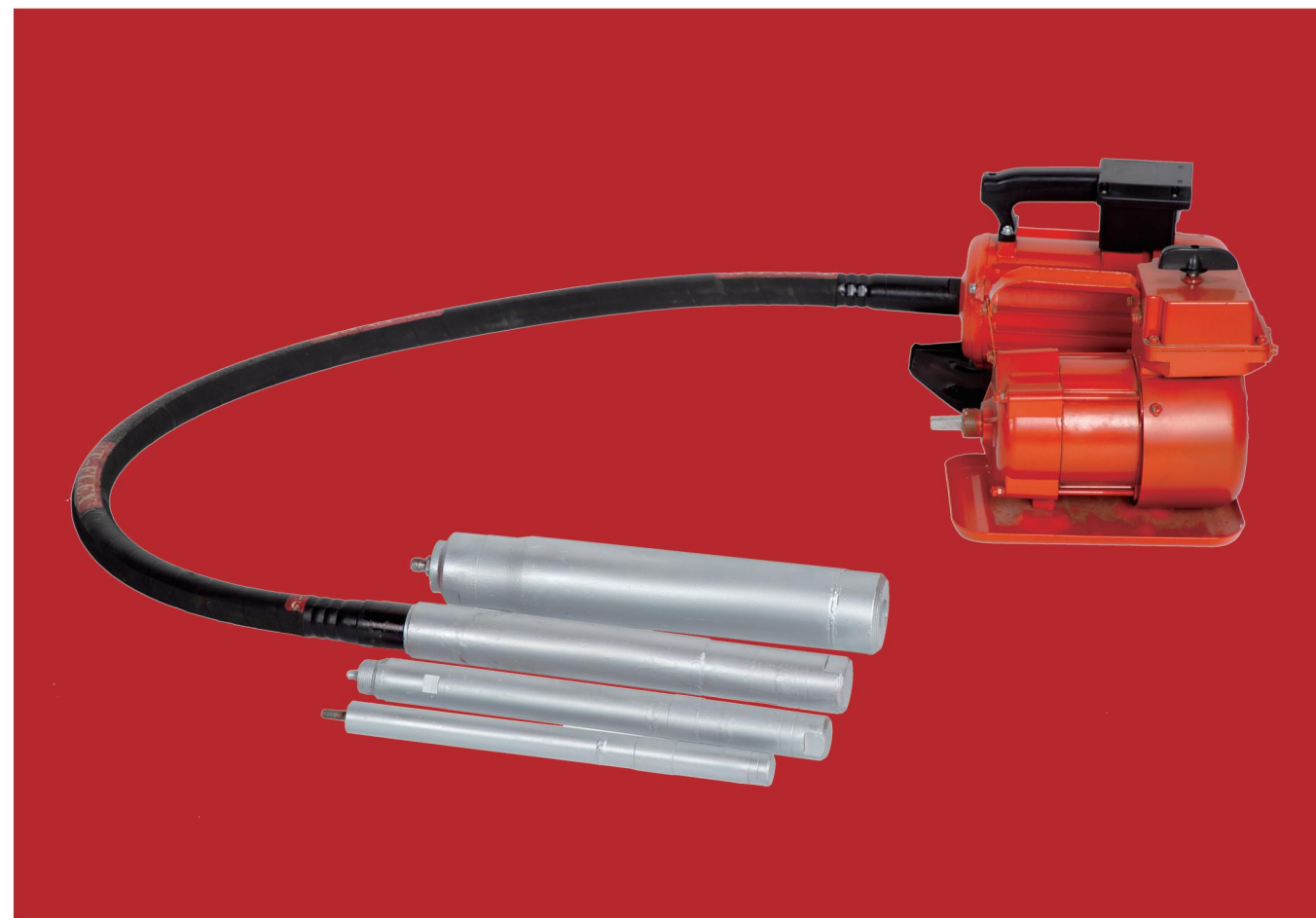
T-FLEX		JAPANESE TYPE CONCRETE VIBRATOR						
No	Model	Poker head dia* length(mm)	Flexible shaft dia (mm)	Rubber hose dia(mm)	Rubber hose length(m)	RPM	Amplitude(mm) Total value	Vibration Hz (V.P.M)
1	CJ28J/C28J	28*450	8	25	2m, 4m, 5m, 5.5m, 6m, 9m, 10m, 12m (can be optional)	2850	1.4	183~200 (11,000~12,000)
2	CJ32J/C32J	32*470	10	30		2850	1.5	
3	CJ38J/C38J	38*470	10	30		2850	1.7	
4	CJ45J/C45J	45*470	10	30		2850	2	
5	CJ60J/C60J	60*486	13	32		2850	2.4	

RUSSIA TYPE CONCRETE VIBRATOR

Russia type pendulum concrete vibrator is specially used in Russia, Ukraine, Kazakhstan, etc. It is different with other regions used type.

T-Flex could supply Russia market needed drive unit and vibrator poker with flex shaft.

T-FLEX		RUSSIA TYPE CONCRETE VIBRATOR						
No	Model	Poker head dia* length(mm)	Flexible shaft dia (mm)	Rubber hose dia(mm)	Rubber hose length(m)	RPM	Amplitude(mm) Total value	Vibration Hz (V.P.M)
1	R28	28*380	10	26	2m, 4m,	2850	1.4	183~200 (11,000~12,000)
2	R38	38*430	13	36	5m, 5.5m,	2850	1.7	
3	R51	51*400	13	36	6m, 9m,	2850	2.2	
4	R76	76*430	13	36	10m (can be optional)	2850	2.5	



ZN (CHINA) TYPE CONCRETE VIBRATOR

ZN series concrete vibrator poker head with its flexible shaft is specially used in China and surrounding area. It is noted for its strong versatility and high working efficiency.

T-FLEX		ZN(CHINA) TYPE CONCRETE VIBRATOR						
No	Model	Poker head dia* length(mm)	Flexible shaft dia (mm)	Rubber hose dia(mm)	Rubber hose length(m)	RPM	Amplitude(mm) Total value	Vibration Hz (V.P.M)
1	ZN25	28*380	8	25	2m, 4m, 5m,	2850	1.4	183~200 (11,000~12,000)
2	ZN35	35*380	10	30	5.5m,6m,	2850	1.6	
3	ZN50	50*450	13	36	8m, 9m,	2850	2.2	
4	ZN70	67*463	13	36	10m,12m (can be optional)	2850	2.5	



SUBMERSIBLE FLEX DRIVE PUMP

Submersible flex drive pumps are particularly used in harsh or extreme conditions, such as waste management, construction, mining, marine and agriculture.

T-Flex pumps could source water from depth of up to 15m. The maximum flow is 63m³ per hour.



FEATURE

- 1, Complete aluminum pump housing makes product lighter and better rust-proof performance
- 2, Hardened steel wear plates
- 3, Heavy duty coke resistant cast iron impeller
- 4, Bearing case of pump head is designed to get high durability and easy maintenance

OPTIONAL CHOICE

- 1, Outlet size 2" or 3" could be ordered
- 2, 3 or 4 bearings could be ordered to strength the durability

ECONOMICAL FLEX DRIVE PUMP

Item	Model No.	TF P50	TF P80
Pump specification	Outlet size (mm)	50.8(2")	76.2(3")
	Max lift (m)	16	15
	Max flow capacity (m ³ /h)	43	55
	Body material	Aluminum	
Hose & Flexible shaft specification	Hose outer diameter(mm)	32/36	
	Hose inner diameter (mm)	18/20	
	Flexible shaft diameter(mm)	13	
	Length (m)	4~15	
Drive unit	Honda GX160 Petrol/ Robin EY20 Petrol/ Yanmar L48N Diesel/ Other economical engines optional		

HIGH-END (AUSTRALIA TYPE) FLEX DRIVE PUMP

FEATURE

- 1, Complete aluminum pump housing makes product lighter and better rust-proof performance
- 2, Heavy duty & double row bearings are designed to get high durability and easy maintenance
- 3, Oil bath lubrication
- 4, Lifting eyelets
- 5, Hardened steel wear plates
- 6, Heavy duty coke resistant cast iron impeller
- 7, 28mm solids pumping capacity
- 8, Seven oil seals for superior bearing protection
- 9, Quick action cam-lock hose fittings

HIGH-END FLEX DRIVE PUMP

Item	Model No.	TF P50A	TF P50A
Pump specification	Outlet size (mm)	50.8(2")	50.8(2")
	Max lift (m)	26	26
	Max flow capacity (m ³ /h)	63	63
	Body material	Aluminum	Iron
Hose & Flexible shaft specification	Hose outer diameter(mm)	38	
	Hose inner diameter (mm)	21	
	Flexible shaft diameter(mm)	15	
	Length (m)	4~15	
Drive unit	Honda GX160 Petrol/ Robin EY20 Petrol/ Yanmar L48N Diesel/ Other economical engines optional		



INTERNAL CONCRETE VIBRATOR POWER UNIT

SINGLE/THREE PHASE ELECTRIC MOTOR FOR PENDULUM CONCRETE VIBRATOR

FEATURE

- 1, The motor is special with light weight and easy carry. It also has a unique anti-reverse device with push button mode.
- 2, Easy to operate and high safety of poker concrete vibrator.
- 3, We can promise the nameplate power is consistent with the actual power.
- 4, 100% cooper core enameled wire to ensure the long use life.
- 5, Good heat resistance performance.

T-FLEX SINGLE PHASE MOTOR

No	Model	Power (KW)	Power (HP)	Voltage (V)	Voltage class(V)	Power frequency (HZ)	R.P.M
1	50-D	1.1	1.5	220~	220/230/240V	50/60	2850/3450
2	70-D	1.5	2				
3	90-D	2.2	3				
4	50-D II	1.1	1.5	110~	100/110/120/127V		
5	70-D II	1.5	2				
6	90-D II	2.2	3				

T-FLEX THREE PHASE MOTOR

No	Model	Power (KW)	Power (HP)	Voltage (V)	Voltage class(V)	Power frequency (HZ)	R.P.M
1	50	1.1	1.5	380 3~	380/400/415/460	50/60	2850/3450
2	70	1.5	2				
3	80	2.0	2.7				
4	90	2.2	3				
5	50 II	1.1	1.5	220 3~	200/208/220/240		
6	70 II	1.5	2				
7	90 II	2.2	3				



GASOLINE AND DIESEL ENGINE FOR CONCRETE VIBRATOR

HEAVY-DUTY CONSTRUCTION

Both units feature solid frame protection with a protective plate to shield the engine. Gasoline unit has an easy-to-reach on/off switch.

QUICK-RELEASE COUPLING

Quick-release design makes it easy to connect/disconnect pokers.

REDUCED NOISE AND VIBRATION

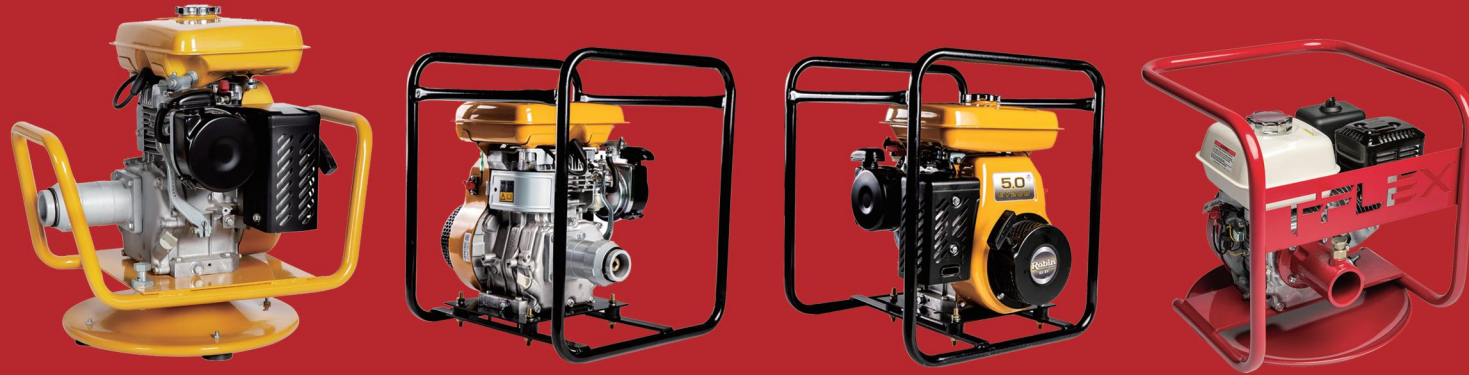
Engine is mounted on rubber element to isolate vibration.

QUALITY ENGINES

Honda®, Robin® gasoline engines provide reliable performance. The Honda engine includes an oil alert for easy maintenance.

EFFICIENT

Modern engines with low fuel consumption.



T-FLEX		GASOLINE ENGINE FOR CONCRETE VIBRATOR				
Model No.		DP1	DP2	DP3	DP4	DP5
Engine brand		Robin	Robin	Honda	Honda	Loncin
Model		EY20	EX17	GX160	GX200	G200F
Power @3600rpm	hp	3.5	4.0	4.0	5.0	5.5
Power @3600rpm	kw	2.61	2.9	2.9	3.7	4.1
Power @3000rpm	hp	3	3.5	3.5	4.4	4.8
Power @3000rpm	kw	2.24	2.6	2.6	3.2	3.6
Weight	kg	25	24	24	25	25
Fuel type		Petrol	Petrol	Petrol	Petrol	Petrol
Fuel tank capacity	L	3.8	3.2	3.1	3.1	3.6
Startup mode		Recoil start				

T-FLEX		DIESEL ENGINE FOR CONCRETE VIBRATOR			
Model No.		DD4Y	DD3L	DD2C	DD1H
Engine brand		Yanmar	Loncin	CHANGCHAI	Hi-earns
Model		L48N	D230F	CC170FB	HR173FB
Power @3600rpm	hp	4.2	4.4	4.7	5.4
Power @3600rpm	kw	3.1	3.3	3.5	4.05
Power @3000rpm	hp	3.8	4	4	4.8
Power @3000rpm	kw	2.8	3	3	3.6
Weight	kg	38	38	44	39
Fuel type		Diesel	Diesel	Diesel	Diesel
Fuel tank capacity	L	2.4	2.3	2.5	2.5
Startup mode		Recoil start			

HIGH SPEED ELECTRIC MOTOR FOR ECCENTRIC CONCRETE VIBRATOR

FEATURE


- 1, The motor is special with light weight and easy carry. It also has a unique anti-reverse device with push button mode.
- 2, Easy to operate and high safety of poker concrete vibrator.
- 3, We can promise the nameplate power is consistent with the actual power.
- 4, 100% cooper core enameled wire to ensure the long use life.
- 5, Good heat resistance performance.

 HIGH SPEED ELECTRIC MOTOR FOR ECCENTRIC CONCRETE VIBRATOR					
MODEL	Voltage V	VFrequency Hz	Power hp	1No-load Speed RPM	Picture
ZIP120A	230 ~	50-60	1.5	18000	
ZIP120A-II	110 ~	50-60	1.5	18000	
ZIP120B	230 ~	50-60	1.5	18000	
ZIP120B-II	230 ~	50-60	1.5	18000	
ZIP120C	230 ~	50-60	1.5	18000	
ZIP120C-II	230 ~	50-60	1.5	18000	
ZIP180 (Heavy Duty)	230 ~	50-60	2.4	18000	
ZIP180-II(Heavy Duty)	110 ~	50-60	2.4	18000	

EXTERNAL CONCRETE VIBRATOR

FEATURE

- 1, T-Flex external concrete vibrator adopts a special motor, which is small size and light-weight, easy to carry, install and maintain.
- 2, The vibrator adopts a fully enclosed structure, which is dust-proof and moisture-proof.
- 3, The vibrator adopts special vibrating motor design, uses unique eccentric structure, and is symmetrically distributed on the outside of the bearing.

 EXTERNAL CONCRETE VIBRATOR								
No	Model No.	Power (KW)	Vibration frequency (1/min)	Amplitude (mm)	Rated voltage (V)	Volatge frequency (HZ)	Centrifugal force	Size (L*W*H) mm
1	ZD-25	0.25	2840	0.6	380	50	980N	230*130*150
2	ZD-25-II	0.25	3400	0.6	380	60	980N	230*130*150
3	ZD-55	0.55	2840	0.9	380	50	1200N	250*185*170
4	ZD-55-II	0.55	3400	0.9	380	60	1200N	250*185*170
5	ZW-3.5	0.75	2840	1.2	380	50	350kgf	275*200*190
6	ZW-3.5-II	0.75	3400	1.2	380	60	350kgf	275*200*190
7	ZW-5	1.1	2840	1.5	380	50	500kgf	350*205*215
8	ZW-5-II	1.1	3400	1.5	380	60	500kgf	350*205*215
9	ZW-5D	1.1	2840	1.5	220	50	500kgf	370*215*215
10	ZW-5D-II	1.1	3400	1.5	220	60	500kgf	370*215*215
11	ZW-7	1.5	2840	1.6	380	50	700kgf	370*215*215
12	ZW-7-II	1.5	3400	1.6	380	60	700kgf	370*215*215
13	ZW-10	2.2	2840	1.8	380	50	900kgf	420*215*215
14	ZW-10-II	2.2	3400	1.8	380	60	900kgf	420*215*215

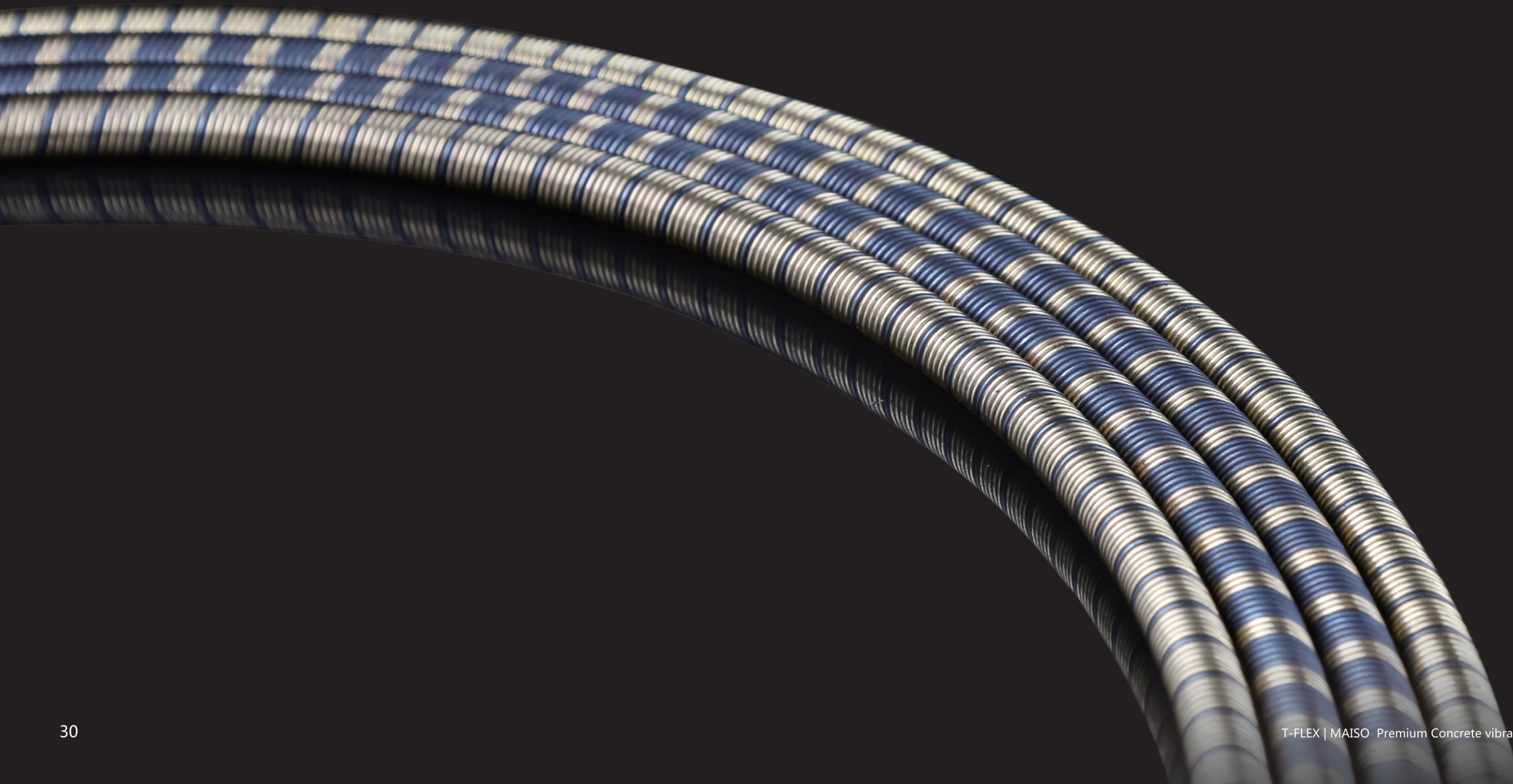


MAISO PRODUCTION EXPERT OF FLEXIBLE SHAFT-DRIVE PRODUCTS

MAISO

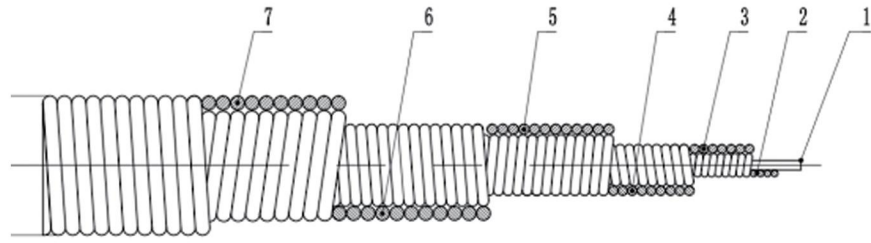
60 Production lines
1,000,000m/ month production capacity

TOP MANUFACTURER OF FLEXIBLE
SHAFT IN ASIA AND PACIFIC AREA



FLEXIBLE SHAFT

Flexible shaft is a shaft with little rigidity and free bending flexibility. Used to connect a different axis and two axes that are not in the same direction or have relative motion to transmit rotational motion and torque. It can transfer rotational motion and torque flexibly to any position.



Flexible shaft usually consists of a core wire in the middle and several layers of wire alternately wound outside. Each layer has 4~12 steel wires, and the adjacent 2 layers of steel wires are wound in opposite directions. Flexible shaft products distinguish left and right rotation direction, suitable for different rotation directions of the motor and ensure the life of the flexible shaft.



FLEXIBLE SHAFT BASIC PARAMETERS

Diameter; Length; Structure;
Surface Treatment; Torque;
Cutting type; Bending diameter; Coupling type;

MATERIAL

65Mn, 70# carbon steel wire, brass coated steel wire, brass wire, stainless steel wire etc.

DIAMETER

0.9-60mm

FLEXIBLE SHAFT PERFORMANCE INDEX

APPEARANCE	STRAIGHTNESS/CURVE UNIFORMITY	TORQUE	STEADY ROTATION
1.Uniform color 2.Smooth surface 3.No broken wire,no jumper,no uneven surface	1.No bending of the flexible shaft in the vertical state. 2. Flexible shaft curvature is in good consistency.	1.Flexible shaft product can meet facility and tool's toque requirement under working condition. 2.Product can withstand motor start-up peak torque.	1.Flexible shaft rotates smoothly and uniformly without delay or pulsation.

MAISO PRODUCT SPECIFICATION PARAMETER FOR PART OF OUR PRODUCTS

Flexible shaft diameter(mm)	Material	Tolerance (mm)	Bending Diameter (mm)	Layer	Max Failure Torque (N.m)	Weight (Kg/Meter)
0.9	304 stainless steel wire	(-0.05, 0)	10-20	3 layers 1 core	0.5	0.0036
1.5	304 stainless steel wire	(-0.1, 0)	20-30	3 layers 1 core	1.05	0.0100
2	304 stainless steel wire	(-0.1, 0)	30-40	3 layers 1 core	1.3	0.0178
3.2	brass coated steel wire	(-0.1, 0)	40-60	4 layers 1 core	2.8	0.0457
4	304 stainless steel wire	(-0.1, 0)	60-80	4 layers 1 core	5.2	0.0714
5	70#/65Mn	(-0.12, 0)	80-100	4 layers 1 core	6.8	0.1116
5.2	304 stainless steel wire	(-0.12, 0)	80-100	5 layers 1 core	6	0.1207
6 (normal)	70#/65Mn	(-0.15, 0)	90-110	6 layers 1 core	6.6	0.1606
6.35	70#/65Mn	(-0.15, 0)	140-160	4 layers 1 core	15	0.1799
6.5	brass coated steel wire	(-0.15, 0)	100-120	7 layers 1 core	9.5	0.1885
7	304 stainless steel wire	(-0.15, 0)	140-160	5 layers 1 core	16	0.2186
8 (all black)	70#/65Mn	(-0.15, 0)	180-200	5 layers 1 core	37	0.2856
8 (5 brass coated 3 black)	brass coated steel wire+70#	(-0.15, 0)	140-160	5 layers 1 core	30	0.2856
9	70#/65Mn	(-0.15, 0)	180-200	4 layers 1 core	42	0.3614
9.15 (high speed)	70#/65Mn	(-0.15, 0)	240-260	5 layers 1 core	45	0.3736
9.5 (all brass coated)	brass coated steel wire+70#	(-0.15, 0)	150-180	6 layers 1 core	50	0.4027
10 (normal)	70#/65Mn	(-0.18, 0)	240-260	4 layers 1 core	50	0.4462
12 (normal)	70#/65Mn	(-0.18, 0)	250-270	5 layers 1 core	70	0.6425
13 (normal)	70#/65Mn	(-0.18, 0)	260-280	5 layers 1 core	110	0.7541
14 (normal)	70#/65Mn	(-0.18, 0)	280-300	5 layers 1 core	90	0.8746
15 (normal)	70#/65Mn	(-0.18, 0)	320-340	5 layers 1 core	120	1.0040
16 (normal)	70#/65Mn	(-0.18, 0)	340-360	5 layers 1 core	180	1.1423
18 (normal)	70#/65Mn	(-0.18, 0)	450-480	5 layers 1 core	210	1.4457
20 (normal)	70#/65Mn	(-0.25, 0)	650-700/ 1000-1100	5 layers 1 core	360	1.7848
22 (normal)	70#/65Mn	(-0.25, 0)	1000-1100	5 layers 1 core	400	2.1596
25	70#/65Mn	(-0.2, 0.3)	900-1100	10 layers 1 core	570	2.7888
26	70#/65Mn	(-0.3, 0.3)	900-1100	7 layers 1 core	950	3.0163
27 (normal)	70#/65Mn	(-0.5, 0)	900-1100	7 layers 1 core	520	3.2528
32 (normal)	70#/65Mn	(-0.5, 0)	1000-1200	9 layers 1 core	680	4.5691
40	70#/65Mn	(-0.5, 0)	1000-1200	10 layers 1 core	800	7.1392
48	70#/65Mn	(-1, 0)	1000-1200	12 layers 1 core	1500	10.2804

CONCRETE VIBRATOR USED FLEX-SHAFT INNER CORE

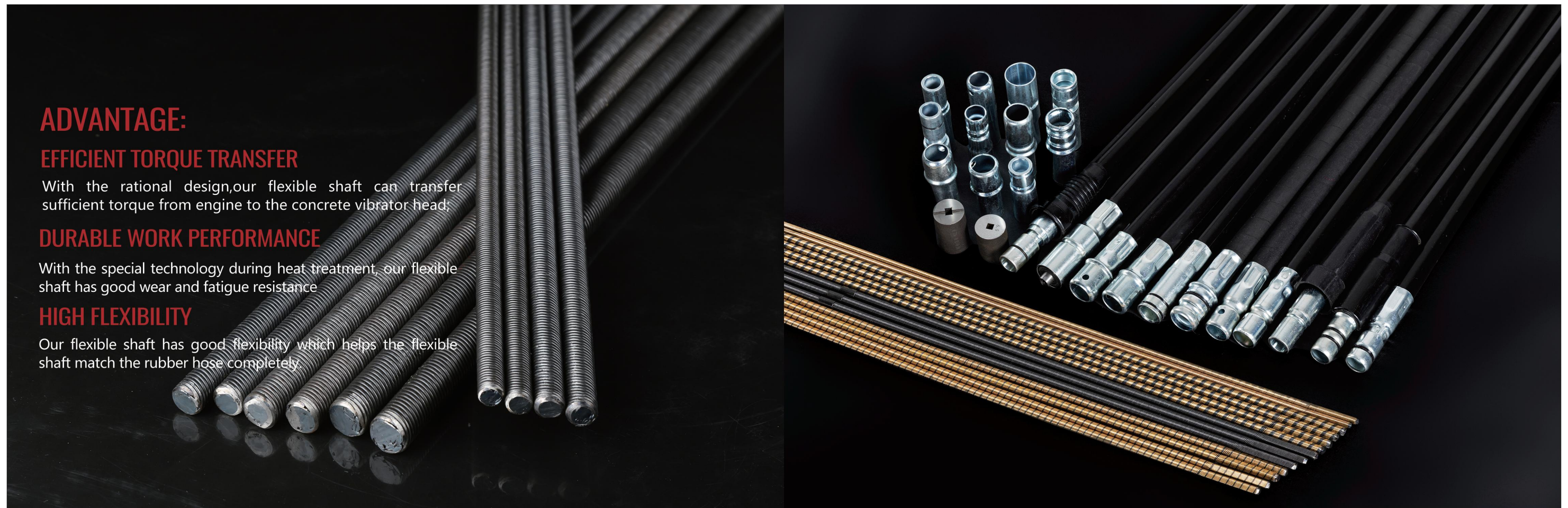
MAISO CONCRETE VIBRATOR USED FLEX-SHAFT INNER CORE				
Shaft Dia.(Φ)	Material	Length	Ref. Bending Dia(mm)	Ref. Destroy Torque(N.m)
7.5 (high speed)	70# carbon steel	0.5m~15m could be customized	160-200	19-22
8	70# carbon steel		260-310	35-39
9	70# carbon steel		220-260	45-50
9.5 (high speed)	70# carbon steel		330-370	50-55
10	70# carbon steel		230-270	55-60
10 (high speed)	70# carbon steel		330-370	55-60
11	70# carbon steel		230-270	60-65
12	70# carbon steel		240-280	65-70
13	70# carbon steel		250-290	70-100

BRUSH CUTTER USED FLEX-SHAFT ASSEMBLY

MAISO BRUSH CUTTER USED FLEX-SHAFT ASSEMBLY				
Shaft Dia.(Φ)	Surface color	Structure	Bending dia (mm)	Destroy Torque (N.m)
8mm	black	5 layers 1 core	140-160	33-37
8mm	5 brass coated wires with 3 black wires	5 layers 1 core	140-160	35-39
9mm	black	6 layers 1 core	160-180	43-47

ADVANTAGE

Experienced production team, which can ensure our product precision and quality;
 OEM production center for world level brush cutter brands;
 Rubber hose could be made in environmental-friendly material which are the top level in market.



ADVANTAGE:

EFFICIENT TORQUE TRANSFER

With the rational design, our flexible shaft can transfer sufficient torque from engine to the concrete vibrator head;

DURABLE WORK PERFORMANCE

With the special technology during heat treatment, our flexible shaft has good wear and fatigue resistance

HIGH FLEXIBILITY

Our flexible shaft has good flexibility which helps the flexible shaft match the rubber hose completely.

DRAIN CLEANING MACHINE FLEXSHAFT ASSEMBLY



DRAIN CLEANING MACHINE FLEX-SHAFT ASSEMBLY

Flex shaft Dia(mm)	Matched Hose dia (mm)	Length	Flexshaft bending Dia(mm)	Matched coupling end
6~18mm	Match with flex shaft dia	max 40 meters, could be customized	could be customized according to application requirement	Available

Flexible shafts with sheathing and connector used in Drain cleaning machine are available! Every part could be customized according to the working condition. Most common sizes for flexible shaft is 6mm/8mm/10mm/12mm/16mm/27mm in diameter, the matched sheathing could be provided together for customer's one-stop service.

FEATURES

- High-flexibility, which can help the working head to pass elbows with different bending radius;
- High-durability, which can make the flexible shaft rotate in high speed with long working time;
- High adaptability, which can help our flexible shaft used in different brand and different models of drain cleaning machine/dust cleaning machine

ELECTRICAL TOOL USED FLEX-SHAFT

There are many power tools are using flexible shaft, such as the Grinding tools, Electrical sheep shear, Flexible shaft power drills, Hanging mills, etc. Maiso could produce the required flexible shaft for diverse power tools.



DRAIN CLEANING MACHINE FLEX-SHAFT ASSEMBLY

Material	Diameter	Length
70#, 65Mn or 304H, etc	Ø3.2mm to Ø8mm	From 0.2m to 2m Other sizes could be customized

FEATURES

- Rust protection, Especially stainless steel material can help the flexible shaft with long service time;
- High torque transmission, which can ensure the accurate operation

MEDICAL EQUIPMENT USED FLEXIBLE SHAFT



Flexible shaft are frequently used in some medical use equipment, such as Expectorant machine, Dental equipment, Surgical equipment, etc. The product precision and the sanitary condition are quite important to the medical used flexible shafts. Maiso has the special production lines to produce the standard flexible shafts used in medical application scenario.

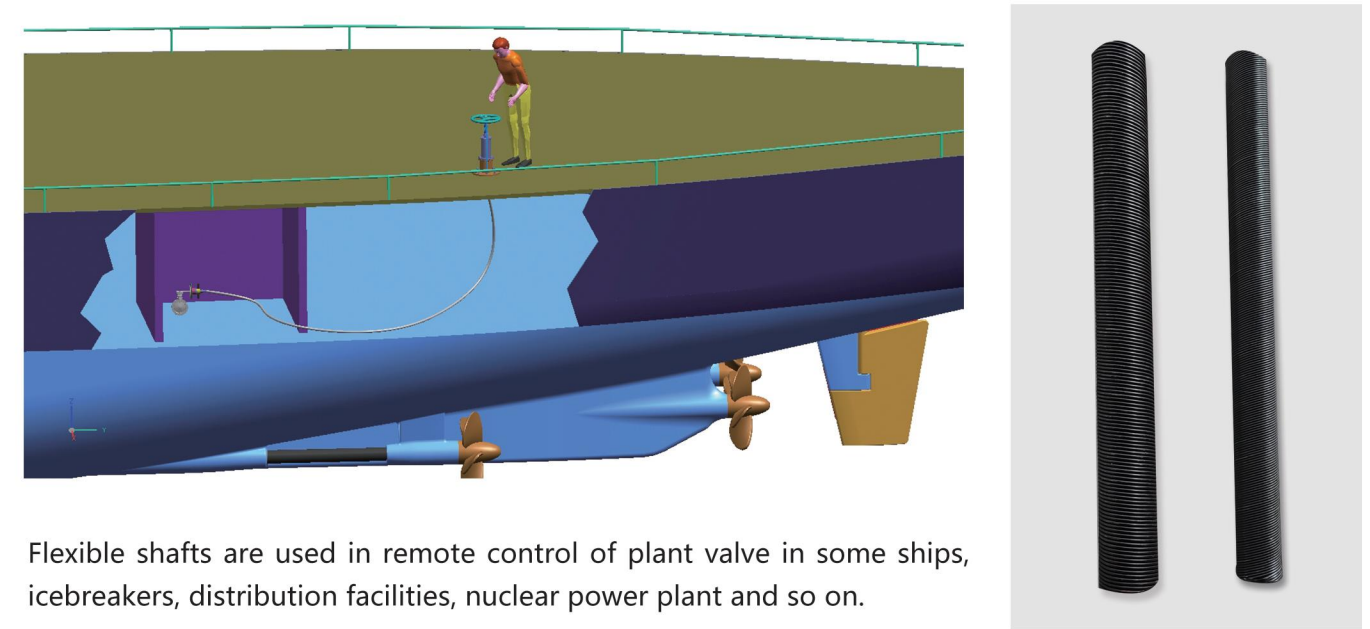
MATERIAL
STAINLESS STEEL 304H

DIAMETER
FROM Ø1.5MM TO Ø4MM

LENGTH
FROM 0.2M TO 2M

OTHER SIZES COULD BE CUSTOMIZED

REMOTE CONTROL OF PLANT VALVE



Flexible shafts are used in remote control of plant valve in some ships, icebreakers, distribution facilities, nuclear power plant and so on.

MATERIAL
STAINLESS STEEL 304H

HIGH-CARBON
STEEL 65MN, 70#

DIAMETER
FROM Ø10MM TO Ø25MM

LENGTH COULD BE CUSTOMIZED

BOAT USED FLEX-SHAFT



There is one kind of flexible shaft could be widely used on pedal-powered boat. They are working to transfer the power from pedal to propeller, then the boat can move forward or backward.

MATERIAL
STAINLESS STEEL 304H

DIAMETER
FROM Ø8MM TO Ø12MM

LENGTH
FROM 0.6M TO 1M

OTHER SIZES COULD BE CUSTOMIZED

AGRICULTURAL EQUIPMENT USED FLEXIBLE SHAFT



Flexible shafts work busily in the harvest season! The strong, heavy-duty flexible shafts are necessary in tractor, harvester, etc.

MATERIAL
STAINLESS STEEL 70#

MATERIAL
FROM Ø20MM TO Ø40MM

LENGTH
FROM 0.5M TO 5M

OTHER SIZES COULD BE CUSTOMIZED

RUBBER HOSE

20 YEARS RUBBER HOSE PRODUCTION EXPERIENCE
1,300,000 M/MONTH PRODUCTION CAPACITY



We are not just a Rubber Hose producer;
we are dedicated environmental protector!

RUBBER HOSE

A rubber hose is a flexible tube made from solid rubber or a combination of rubber and other materials. The good flexibility allows rubber hose to bend and twist without getting deformed or damaged. Besides, rubber hoses are also known for their excellent resistance to chemicals, oils, and other corrosive fluids. Meanwhile, rubber hoses are also lightweight, making them easy to handle and install. These characteristics make rubber hoses commonly suitable to connect different components or support some inner flexible shafts which are subject to movement or vibration to transfer fluid, power in diverse applications, such as construction, agriculture, automotive, manufacturing, and more.

We mainly sell Rubber hose together with our Flexible shaft as an assembly in Construction vibrators, Submersible pumps, Gardening Brush cutter machines, Draining cleaning machines and other electrical tools.

OUTER DIAMETER
Ø16MM ~ Ø100MM

INNER DIAMETER
Ø9MM ~ Ø80MM

LENGTH
MAX 25M

Specific lengths and diameters could be customized to ensure a proper fit for any application!



CONCRETE VIBRATOR AND SUBMERSIBLE PUMP USED RUBBER HOSE

MAISO RUBBER HOSE		16	20	22	24	25	30	32	36	38	42
Outer Diameter (mm)		16	20	22	24	25	30	32	36	38	42
Inner Diameter (mm)		9	10	10	13	15	16	18	20	21	25
Outer Tensile Strength at Break(N/cm ²)		>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000
Inner Adhesive Force (N/cm ²)		50-60	50-60	50-60	60-65	60-65	60-65	60-65	60-65	60-65	60-65
Strip Steel Material		40Mn or 65Mn									
Strip Steel Hardness (HRC)		20-30	20-30	20-30	25-30	25-30	25-30	25-30	25-30	25-30	25-30
Strip Steel Material		75-80									
Strip Steel Hardness (HRC)		1 or 2 layers (96pcs or 120pcs wires per layer)									
Rubber Hardness (SHA)		According to customer's need									

OPTIONAL SUPPLYING

- 1, Strip steel material could be 40Mn or 65Mn
- 2, Steel wire braid could be 1 or 2 layers
- 3, Outer tensile strength at break could be chose



MORE VALUE

Special production line and designed particular composition to make environmental-friendly rubber hoses with complying with RoHS, PAHs, Reach, TSCA, CP65, etc.



OEM PRODUCTION SERVICE

We supply OEM production service for global customers who run own brands successfully in the local market. We can produce according customers' requirement.

MAISO T-FLEX BRAND AGENT SERVICE

- We would like to cooperate with the agents from different regions to present our own good-name brand. We could supply
- Nice designed package
- Sufficient products form
- Timely delivery
- Profitable price quotation
- Market protection

TIMELY DELIVERY

We ensure the production finished not longer than 45 days after SC confirmed.

PRICE COMPETENCE

We ensure the lowest price among the same quality level supplying.