



创新 / 合作 / 共赢

Spring Motor Manual

FTH 系列 弹簧马达手册



上海总部

✉ mike@yfstart.com
☎ +86-21-59283219
🌐 <http://www.51starter.com>
📍 上海市青浦区新金路123号F栋2楼
2/F, Building F, No. 123, Xinjin Road, Qingpu
District, Shanghai, China.

芜湖总部

✉ mike@yfstart.com
☎ +86-18817887163
🌐 <https://www.yfstart.com>
📍 芜湖市鸠江区中南高科芜湖鸠江智造云谷产业园7-2栋
Building 7-2, Zhongnan Gaoke Wuhu Jiujiang Zhizao Cloud
Valley Industrial Park, Jiujiang District, Wuhu City, China.



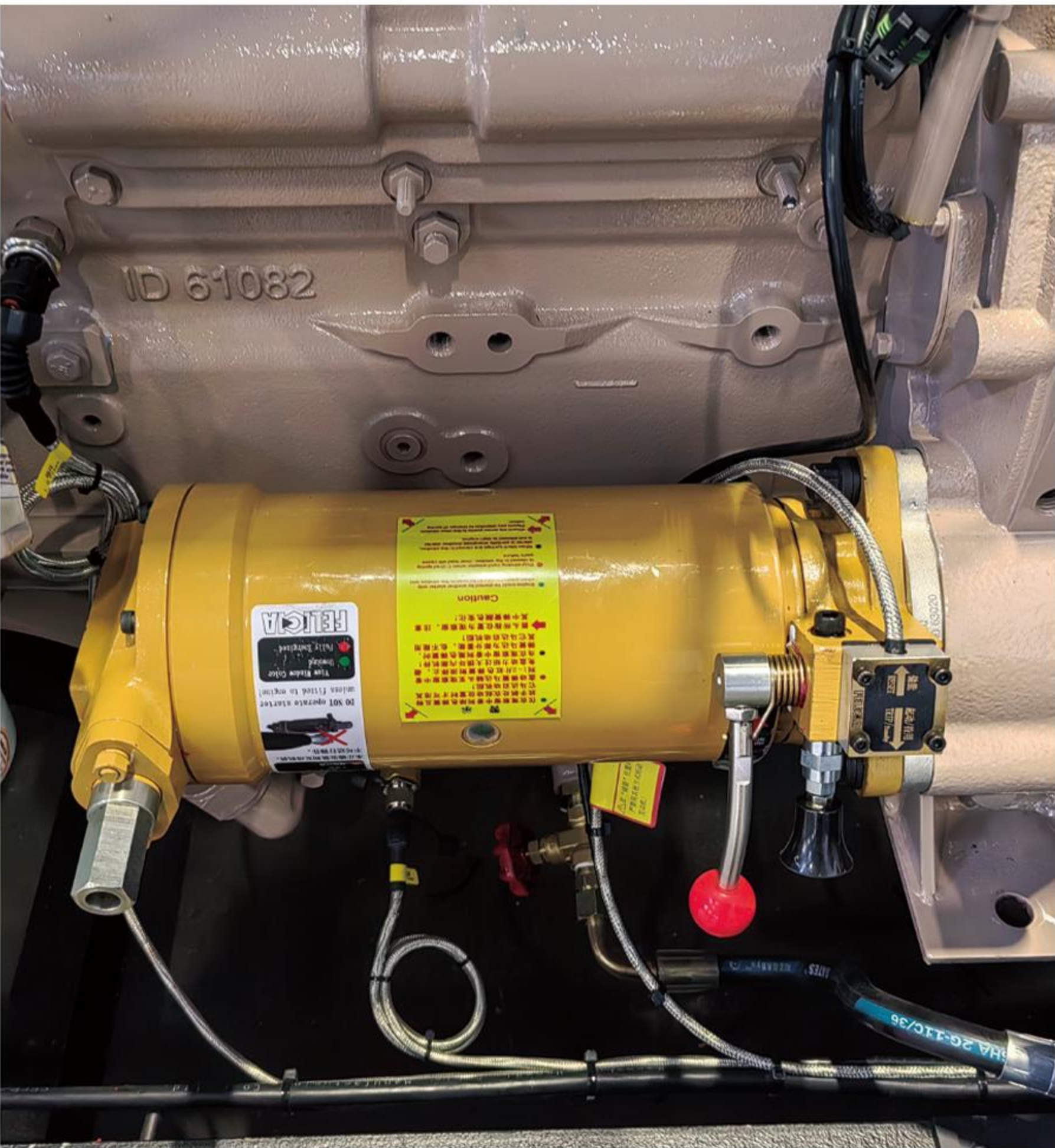
雨凡机械科技(上海)有限公司
YuFan Machinery Technology(Shanghai) Co., LTD.

FELICIA FTH系列弹簧马达

FELICIA FTH Series Spring Starters

专为无电源、防爆或极端工况设计，广泛作为备用启动系统适配各类柴油发动机。

Designed specifically for applications without power sources, in explosion-proof environments, or under extreme operating conditions, it is widely used as a backup starting system compatible with various types of diesel engines.



- 无电启动 · 全能应急**
Battery-Free Start-Up · All-Purpose Emergency Solution

独立弹簧储能驱动，脱离电力、气源限制，是柴油机组、船用主机、工程设备的刚需应急启动配套。

Powered by an independent spring-driven energy storage system, this solution is free from the constraints of electricity and compressed air, making it an essential emergency starting accessory for diesel generators, marine main engines, and construction equipment.
- 防爆阻燃 · 工业专用**
Flame-retardant and explosion-proof · For industrial use

全机械安全设计，零火花、零漏电，完美满足防爆区域安全规范，高危工况专属解决方案。

Fully mechanical safety design, with zero sparks and zero electrical leakage, fully compliant with safety regulations for explosive environments, and a dedicated solution for high-risk operating conditions.
- 稳定可靠 · 全天候待命**
Stable and reliable · On standby around the clock

设备突发故障时，随时可靠启动。

Reliable startup at any time in the event of a sudden equipment failure.
- 强力启动 · 扭矩充足**
Powerful Start-Up · Ample Torque

精密弹簧组储能，瞬间释放大扭矩，轻松驱动大马力柴油机，启动强劲不卡顿。

A precision spring assembly stores energy and releases high torque instantly, effortlessly driving high-horsepower diesel engines with a smooth, powerful start.



	FTH09	FTH14	FTH16	FTH19
Engagement method	预啮合 Pre-meshing			
Maximum engine displacement				
最大发动机排量	9 L	14 L	16L	32L
Weight				
重量	15.6KG	18.3 KG	22.8 KG	26 KG
Drive torque				
驱动力矩	126 N·m	126 N·m	126 N·m	184 N·m
Maximum operating torque				
最大盘动扭矩	85 N·m	85 N·m	85 N·m	110 N·m
Rotation direction				
旋向	CW 或 CCW（面朝马达鼻端看齿轮）		CW or CCW (when facing the motor nose end)	
Installation Flange				
安装法兰	SAE 1、SAE 2、SAE 3、定制		SAE 1、SAE 2、SAE 3、Custom	
Applications				
适用领域	消防、船舶、应急发电 Fire Safety、Marine、Emergency Power Generation			



FTH09



FTH14



FTH19