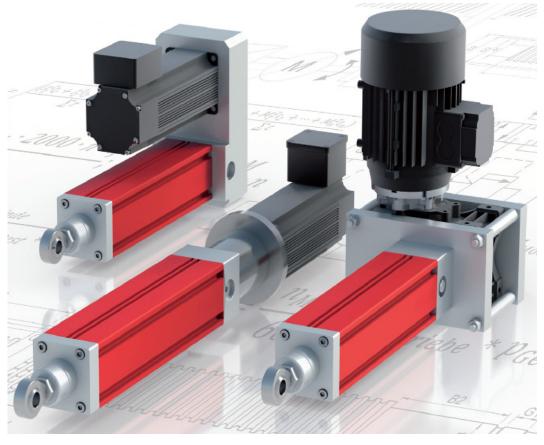
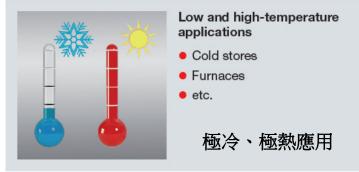
KINESYS Area / 節能動力單元系統領域



HYDAC KineSys KINESYS Electric Cylinders HEZ







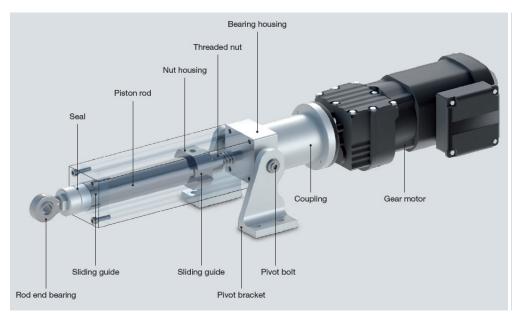


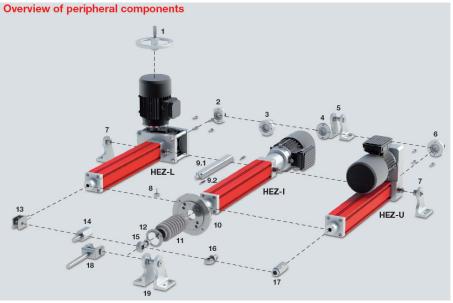
(HYDAC) INTERNATIONAL

KINESYS Area / 節能動力單元系統領域









電動缸結構圖示 缸體是結合了螺桿、螺帽、滑塊、線軌的組合體

電動缸外部配備圖示

KINESYS Area / 節能動力單元系統領域

動力驅動模式以及馬達樣式(非同步、同步、直流馬達)

Spindle types

Depending on the operating conditions, a trapezoidal thread drive, ball screw drive or planetary roller screw drive can be used.

Trapezoidal thread drive

Application of trapezoidal thread spindles:

- low positioning speed (< 35 mm/s)
- low duty cycle (< 50 %)
- impact load possible
- possibility of self-locking
- cost-effective applications
- medium positioning accuracy (≥ 0.1 mm)

Ball screw drive

Application of ball screw spindles:

- high positioning speed
- high duty cycle
- high degree of efficiency (> 85 %)
- highly dynamic applications
- high positioning accuracy (≥ 0.05 mm)

Planetary roller screw drive

Application of planetary roller screw spindles:

- demanding applications
- impact load possible
- designed for high powers

Motor types

Asynchronous motor

For simple lifting applications, without precise stroke regulation:

- cost-effective
- retraction and extension
- with reversing contactor switch
- with proximity switches and frequency inverter (for description see page 8)

Synchronous motor

Suitable for applications with control and regulation processes performed via frequency inverter:

- accurate positioning via distance measuring system or encoder
- highly dynamic operation
- short-time overload capacity (to overcome holding torque and abrupt torque changes)
- speed/velocity control and regulation

DC motor

Suitable for low-power, portable drive solutions:

- inexpensive
- mobile
- small





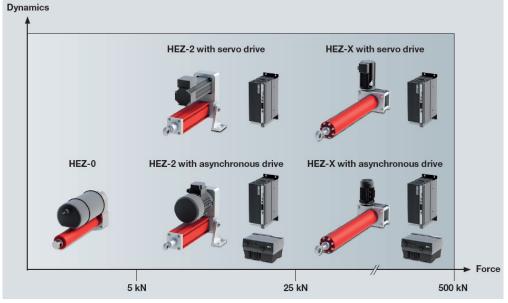


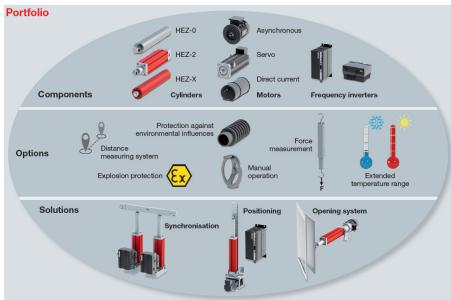


KINESYS Area / 節能動力單元系統領域









- 1. Frequency inverter (HFI-MM) + Asynchronous motor
- 2. Switch cabinet frequency inverter (HFI-CM) + Synchronous motor
- 3. Switch cabinet frequency inverter (HFI-CM) + Servo motor (HSM)

HYDAD INTERNATIONAL KINESYS Area / 節能動力單元系統領域

Frequency inverter (HFI-MM) + Asynchronous motor

變頻器+非同步馬達



Operation with decentralised HYDAC surface-mounted frequency inverter (HFI-MM) and asynchronous motor

For drive solutions with simple control requirements, a frequency inverter is supplied, mounted directly on the electric motor.

Properties:

- Smooth start-up
- Variable feed speeds and travel profiles
- Simple positioning tasks
- Analogue and digital inputs/outputs, and optional common bus systems
- Free-of-charge parameterisation software HMM Start-Up
- System tailored to customer application

KINESYS Area / 節能動力單元系統領域

Switch cabinet frequency inverter (HFI-CM)

+ Synchronous motor

變頻控制器+同步馬達



Operation with HYDAC switch cabinet frequency inverter (HFI-CM) and asynchronous motor

For more demanding applications, a more powerful inverter is used for control. This inverter is installed outside the HEZ, in a switch cabinet.

Properties:

- More complex travel profiles
- Advanced positioning tasks
- Various inputs/outputs possible, including bus systems
- Free-of-charge parameterisation software HFI-CM Start-Up
- System tailored to customer application

KINESYS Area / 節能動力單元系統領域

Switch cabinet frequency inverter (HFI-CM) + Servo motor (HSM)

變頻控制器+伺服馬達



Position-regulated operation with HYDAC switch cabinet frequency inverter (HFI-CM) and HYDAC servo motor (HSM)

For high-precision control, regulation and positioning, the servo motor is the ideal drive. For high powers with a wide range of speeds and loads, extremely high positioning accuracy can be achieved.

The frequency inverter is mounted externally, in a switch cabinet.

Properties:

- Maximum positioning accuracy
- Maximum system dynamics
- A cam disc function can be mapped
- Various inputs/outputs possible, including bus systems
- Free-of-charge parameterisation software HFI-CM Start-Up
- System tailored to customer application

KINESYS Area / 節能動力單元系統領域

HEZ-electric cylinders version U U型電動缸-行動裝置設備應用 整組插拔組裝模式 (Plug & Play)



DESCRIPTION

The KineSys HEZ – electric cylinders version U are suitable for the use in mobile machinery and equipment. The compact closed housing protects from environmental influences. The selectable line voltage of the motors provides a wide range of applications in vehicle and industrial sector. A displacement encoder can be integrated.

FEATURES

- Positioning force up to 6,8 kN dynamic, 18 kN static
- Speed 11 54 mm/s
- Stroke 50 600 mm
- Installation of proximity switches possible
- Protection class up to IP 65
- Line voltage 12, 24, 36 VDC and 230, 400 VAC



小巧免維護

.可油缸整合極限開關或是encoder

.動態出力可達680Kg、靜態出力可達1800Kg.

.採用DC 12, 24, 36伏特,或是AC 交.流230, 400伏特。

.行程50-600 mm.

.速度11-54 mm/s.

PRODUCT ADVANTAGES

- Compact design
- Service-free
- Integration of limit switches on the cylinder
- Integration of displacement encoder is possible
- Plug-and-Play ready