

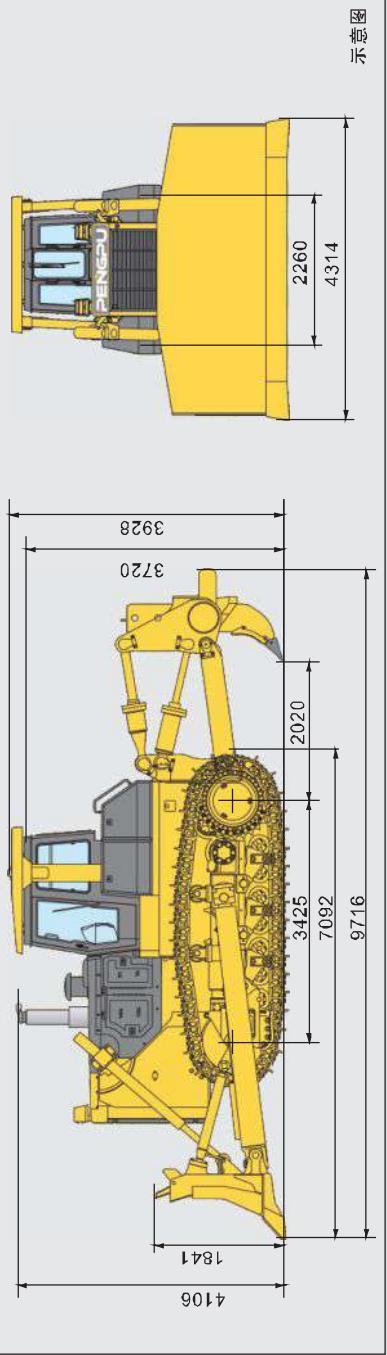
# PD410Y-2 推土机

PD410Y-2 BULLDOZER

**PENGU**

**PD410Y-**

履带式推土机  
BULLDOZER



## ● 传动装置 TRANSMISSION

| 型号 Model                                  | 康明斯 QSK19 C160 Cummins QSK19 C160   | 润滑履带 Lubricated track          |  |
|---|---|--------------------------------|--|
| 发动机 Type                                  | 卧冷式 直列 六缸 涡轮增压、空冷中冷   | 节距(mm) Track pitch (mm)        | 260.35   |
| 额定功率(kW) Rated power (kW)                 | 340   | 宽度 (mm) Width (mm)             | 610  |
| 额定转速(r/min) Rated speed (r/min)           | 2000  | 履带节数 (条) Number of track links | 40   |
| 气数 - 11 组 Y 行程 (mm)                       | 6-Φ159×159  | 履带中心距 (mm) Track gauge (mm)    | 3425   |
| Number of cylinder stroke (mm)            | 325Kw/24V 电动机启动 Electric starting & 25KV/24V  | 蓄电池 Battery                    | 2260   |
| 启动方式 Starting method                      | 24V (12V×2)   | 空气滤清器 Air cleaner              | 227  |
| 发动机怠速怠速 (r/min)                           | 怠速、水平风 带空气除尘器 Dry horizontal type w/ precleaner   | 最低燃油消耗率 (g/kW·h)               |  |
| Min fuel consumption rate (r/min)         |   | 最大爬坡度 (%)                      |  |
| 最高爬坡度 (%)                                 |   | 最大爬坡度 (%)                      |  |
| ● 液压系统 HYDRAULIC SYSTEM OF WORK EQUIPMENT |   |                                |  |
| 变向制动器 steering brake                      | 湿式多片带压泵 T2Z液动助力刹车 液压分泵 Wet multiple disc. Sintered metal hydraulic brake pump. Hand-operated. Hand-operated with disc clutch. Hydraulic release | 最终传动 Final drive               | 1级减速器 1st gear reduction gear, one-section pinion in one case. |

# PD410Y-2推土机

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## 主要技术特点及优势

- ◇ 采用康明斯QSK19-C450发动机，动力强劲，性能稳定，符合国II排放标准。
- ◇ 液力换挡变速箱，换挡轻便，冲击小。
- ◇ 三元件单级单相液力变矩器效率高、能容大。
- ◇ 新型的驾驶室，视野开阔，并配以新型ROPS-FOPS防翻架，外观新颖，安全可靠。
- ◇ 采用三级电子报警装置，可实现对推土机监控。
- ◇ 工作装置采用先导操纵，操纵力小，负荷反馈液压系统，节能。
- ◇ 外形美观大方，操纵控制舒适便捷。
- ◇ 新型弹性减震台车，附着力强，轮子寿命长。
- ◇ 集中润滑，方便维护。
- ◇ 电动加油装置，方便加油。
- ◇ 集中测压，易于故障诊断。
- ◇ 采用自动排尘式空气预滤器，灰尘分离效果明显。

## Main Features

- ◇ Equipped with Cummins KTA19-C525 engine, more powerful and more reliable, compliant with national emission standard stage III.
- ◇ Hydraulic gearshift transmission for easier gear shifts and lower impacts.
- ◇ 3-element, single stage, single phase torque converter for higher efficiency and bigger capacity.
- ◇ Newly cab for a wide view, ROPS-FOPS structure for safety.
- ◇ Three-stage alarm electron monitor system effectively monitors the movement of the machine.
- ◇ Implement control is piloted for less operating efforts. Hydraulic system effects according to the load feedback to save fuel.
- ◇ More pleased appearance. Improved operating comfort.
- ◇ New elastic and shock absorption track frame for increased adhesion force and added wheel life.
- ◇ Centralized lubrication for easy maintenance.
- ◇ Electric fuel feeder for easy fuel feeding.
- ◇ Centralized pressure checking for easier malfunction diagnosis.
- ◇ Automatic dust discharge type air precleaner adopted to remove dust efficiently.

## 变速箱

变速箱采平行是齿轮和盘式离合器(共立排)。通过湿缓变速。结构形式为行星齿轮：多片离合器：液力结合控制。

### Gearbox

This machine is equipped with transmission of planetary gears and multi-plate clutch (parallel arrangement). Through wet gear shifting. Structure form is planetary gear: multi-plate clutch: liquid coupling combined control.

### 液力变矩器

液力变矩器是单级单相元件向心涡轮液力变矩器。合理匹配。与传统均列机传动相比，具有无可比拟的无级变速性能，提高机械使用寿命，提高机械通过性，延长使用寿命。

### Torque Converter

The torque converters are of the single stage, single phase torque converter, which provide optimum matched structure and excellent reliability. Which comparing to the normal ones, means the automatic gearshift can improve machine's lifetime and its working comfort and torque limit set protect on function.

### 最终传动

最终传动的齿轮是通过一级直齿轮和一级行星齿轮减速力传递给行走机构。采用飞溅润滑，浮动油封机构：“U”形式。Final drive

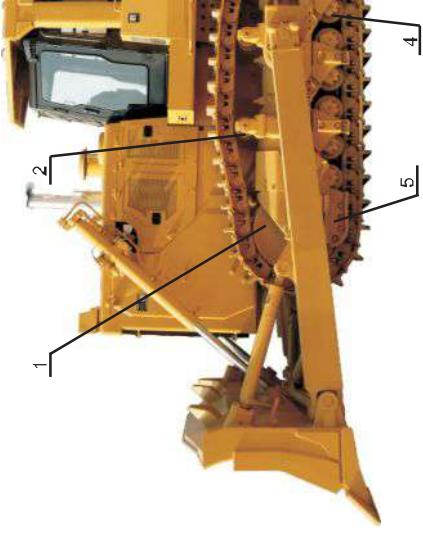
The final drive adopts double reductions of spur gears and planet power is transmitted to travel mechanism by driving gears. U-type seal.

## 专业动力 最佳品质

PROFESSIONAL POWER, BEST QUALITY



- ◇ 全空中冷、缓启动等技术进一步提高了发动机的可靠性、动力性、燃油经济性及排放等指标。
- ◇ 高效的Hoselet废气涡轮增压器可保证进气更充分，改善燃烧，提高发动机效率；空气中冷技术保证燃油经济性及排放更低。
- ◇ 康明斯专利技术的PT燃油系统，超高喷射压力，保证发动机雾化良好，燃烧充分。
- ◇ 采用高强度合金铸铁制造，刚性好、振动小、噪声低。
- ◇ 可更换湿式气缸套，散热效果好，更换容易。
- ◇ 缸体和缸盖均采取内置式压力润滑油道，结构紧凑，故障率低。
- ◇ 采用齿轮离心水泵强制水冷，大流量水道设计，冷却效果好。
- ◇ 电控系统配备报警指示灯，可以全工况监测发动机运行状况。
- ◇ 发动机准确反馈故障代码，可以快速有效的对发动机维护。



## 工作装置 WORK EQUIPMENT

### 推土板形式 Blade type

Charred air cooling, slow startup technology used in engine improves