# 永州 翊 翔 和 电设备有限公司

YONG ZHOU YI XIANG MACHINERY & EQUIPMENT LTD.



yi≫iang 翊翔机电

# SD7 推土机



#### SD7推土机概况

SD7 Bulldozer

SD7推土机系半刚性悬挂、高驱动、液压机械传动,液压操作的230马力履带推土机,工作装置可配置直倾铲、角铲、推煤铲、单钩松土器、三钩松土器,驾驶 室为翻滚保护司机棚,可配置空调。

SD7-230马力高驱动推土机集现代科技成果于一身,其全新的结构布置,卓越的整机性能,极高的作业效率,安全舒适的操作条件,可靠的整机质量,优质的服 务是您明智的选择。

SD7 bulldozer are 230 horsepower track-type dozer with elevated sprocket, hydraulic direct drive, semi-rigid suspended and hydraulic controls. It can be equipped with straight tilting blade, angle blade, coal pushing blade, single shank ripper, three shanks ripper. The cab is Rops with air conditioner.

SD7-230 horsepower, elevated sprocket bulldozer integrate modern secience into it, its new structure, good performance, high working efficiency, safety and comfortable operation condition, realiable entire quality, excellent service is your wise choosing.

#### 整机性能参数

#### Main specifications

使用质量(不包括	(松土器):		23800kg
松土器质量:			3900kg
发动机飞轮功率			169kW
接地压力(不带核			71.9kPa
离地间隙:			404mm
网带接地长度:			2890mm
履带中心距:			1980mm
外形尺寸(长×贯	(×高):	7604×3823×3402mm(特指配果	直倾铲时)
(带单钩松土器)			
坡行角度:		纵向30°	横向 25°
理论行驶速度(kr	n/h):		
前进一档		倒退一档	0~4.8
前进二档	0~6.5	倒退二档	0~8.2
前进三档		倒退三档	0~13.2
推土机作业率(运	距40m):		350m3/h
0		- John Carlotte	23800ka

Operating weight(not including ripper) 3900kg Ripper weight: 169kW Engine flywheel power Ground pressure(without ripper): 71 9kPa 404mm Ground clearance: 2890mm Ground contact length: 1980mm Track gauge: Overall dimensions(L × W × H): 7604 × 3823 × 3402mm (with single shank ripper) (with straight tilting blade) Latitude30 ° Transverse 25° Gradeability:

Theory travel speed(km/h) 1st gear backward 0 - 481st gear forward 0~3.9 2nd gear backward 0~8.2 2nd gear forward 0~6.5 3rd gear backward 0 - 13.23rd gear forward 0~10.9 Dozing operation rate(moving distance 40m): 350m3/h

#### 发动机性能参数

## Diesel engine specifications

NT855-C280(重庆康明斯Cummins) A. 柴油机型号: 柴油机型式: 水冷单行、立式、四冲程、涡轮增压、六缸、140mm缸径 2100RPM 额定转速, 飞轮功率(转速为2100RPM时):

上柴 C6121ZLG10(卡特许可证生产的3306发动机) B. 柴油机型号: 水冷单行、立式、四冲程、涡轮增压、六缸、121mm缸径 柴油机型式: 2100RPM 额定转速: 飞轮功率(转速为2100RPM时); 169kW 24伏电起动 起动方式:

NT855-C280 (Cummins made in chongqing) A. Model: B. Model: C6121ZLG10(Licensed CAT 3306 diesel engine Made in shanghai) Type: Water cooled, single line, vertical, fourstrokes, turbocharged, 6-cylinders, diameter A.140mm; B.121mm.

2100RPM Rated speed: 169kW Flywheel power(speed at 2100 rpm): 24V electric starting Starting mode:

#### 变矩器部件

#### Torque converter

SD7推土机配套用变矩器为功率外分流式液力机械变矩器

Torque converter used in SD7 bulldozer is power separating hydraulicmechanical type

#### 变速总成 Transmission assembly

独到的结构将中央传动、变速箱和变速控制阀构造成为一个整体部件。可 将总成或其中任一部件拆装,极其便于维修。变速箱为多级行星传动,完全实现了 积木式拆装, 并通过性能优良的多功能控制阀可在前进或倒退一、二、三各档位 之间任意快速的变换.

It integrates center drive, transmission and speed changing control valve into one component. It can be assembled or disassembled as a assembly or as a part. It is very convenient to service. Transmission is multi-stage planetary gear drive to realize modular assembling and disassembling. The shift can be changed among 1st gear, 2nd gear, 3rd gear forward or reverse rapidly, through multi-functional control valve.

## 转向与制动离合器部件 Steering and braking clutch

转向离合器与制动离合器均为免调式、湿式多片离合器,制动离合器为碟 簧压紧。液压分离的常结合离合器,转向离合器为液压压紧的非常结合离合 转向与制动离合器联动、手操纵,可实现缓转弯、急转弯、整机制动,脚 踏板实现整机总制动,设计有停车制动杆,起动发动机时行走系保持制动状态, 保证坡道起动发动机不溜车。

Steering clutch and braking clutch are adjustment free, oil-type, multidisc clutch. The braking clutch is pressed by spring, separated hydraulicly, constant meshed type. Steering clutch is hydraulic pressed, non-constant engaged clutch. The action of steering and braking is combined, operation manually to realize steering slowly, sharply and braking. The braking of entire machine can be realized through the pedal. Parking braking rod is designed to keep the undercarriage system in braking condition when starting the engine and guarantee the machine not to slip on slope when starting the

#### 终传动

#### Final drive

终传动为两级行星传动减速机构,装在转向与制动离合器外侧,组合式链 齿、拆装,维修极其方便。

Final drive is two-stage planetary reduction gear mechanism. It is mounted at outside of steering and braking clutch. Combined sprocket segment is very convenient for assembling, disassembling and service.

#### 底盘液压系统

#### Hydraulic system of the machine

底盘液压系统由油泵、变速控制阀、转向与制动控制阀、顺序阀、变矩器 出口溢流阀、滤油器及管路等组成。

齿轮泵 主泵: 160L / min 流量: 3.1MPa 工作压力:

It is composed of oil pump, transmission control valve, steering and braking control valve, sequence valve, relief valve at torque convertor outlet, filter and lines.

Gear pump Main pump: 160L/min Oil flow: 3.1MPa Working pressure:

#### 防倾翻保护配空调司机棚 Rops with air conditioner cab

司机棚为六边形薄壁箱形结构。六面均装有玻璃,视野开阔,后面是推拉 玻璃。空调只有冷热两种功能。翻车防护架结构刚性强,推土机在非常状态时 能有效的保护司机的安全。

The cab is hexagonal thin wall box-type structure. Glass is mounted at six sides with wide viewing area. Pulling and pushing glass is installed at back side. Air conditioner adapts a type of cooling and heating. The structure of Rop is rigid. It can protect the driver efficiently when the bulldozer is in special condition.



# SD7 推土机

## 工作装置液压系统 Implement hydraulic system

工作装置液压系统控制铲刀的升降、侧倾及松土器的升降动作, 主要出油 油缸、进口阀组、换向阀组、油箱管路及操纵部分组成。

主泵: 流量:

高压齿轮泵

系统工作压力:

194L / min 18 6MPa

Implement hydraulic system can control lifting, lowing and tilting of the blade. It also can control lifting, lowing of the ripper. It mainly consists of oil pump, cylinder, inlet valve group diverter valve group, oil tank line and controlling parts.

Main pump:

High pressure gear pump

Oil flow:

194L/min

System working pressure:

18 6MPa

### 左右行走系统 Left and right undercarriage system

行走系统履带呈三角形布置,驱链轮高置,行走架前后两个引导轮,七个支 重轮。行走系统配置弹簧缓冲、液压缸涨紧装置,行走架后端支承在枢轴上, 前部与平衡梁绞接。通过选配不同宽度的履带板,保证推土机发挥最佳的牵引效

The track is triangle shape. The sprocket is elevated. There are two idlers in front and at rear of the frame and seven track roller. Recoil spring and cylinder adjuster is mounted at the undercarriage. The rear end of undercarriage frame is supported on the pivot. The front end is articulated with the equalizer bar. Choosing different width of track shoe can ensure the bulldozer developing its optimum traction efficiency.

#### 维修保养加注容量 Maintenance filling capacity

柴油箱:	450升
冷却系水箱:	118升
发动机曲轴箱:	20升
后桥箱:	150升
工作装置油箱:	100升
枢轴润滑油箱:	15升
终传动:	15升
Fuel tank:	450L
Water tank of cooling system:	118L
Camshaft box of the engine:	20L
Bevel gear case:	150L
Implement oil tank:	100L
Pivot lubricating tank:	15L
Final drive:	15L

#### 可选置工作装置和部件 (带\*者为普通型)

#### Optional implement and components (\* ordinary)

- 1) 司机棚.
  - a. 防倾翻保护空调司机棚\*
- b. 防倾翻保护司机棚
- c. 防倾翻保护司机凉棚
- 2) 前置工作装置: a. 直倾铲\*

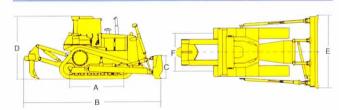
3)后置装置:

- b. 角铲
- c. U型铲(推煤铲)
- a. 单钩松土器\* b. 三钩松土器 c. 后牵引机构
- 4) 行走系统履带板可配制履带板宽度:
  - b. 560mm a. 510mm
- 5)根据用户特殊需求可配森林用铰盘推土机、沙漠推土机、湿地推土机、 环卫推士机等。
- 1) cab:
- A. Rops with air conditioner cab\* B. Rops cab C. Rops canopy
- Front mounted implement:
- A, straight tilting blade<sup>s</sup>
- C. U-type blade B. Angle blade
- Rear mounted implement:
  - B, three shanks ripper A. single shank ripper\* C, back drawing mechanism
- A, 510mm B, 560mm\*
- Track shoe of undercarriageOptional track shoe width: C. 660mm
- D. 914mm
- 5) Winch dozer used in forest, desert dozer, LGP dozer, HW dozer can be chosen according to special requirements of customer

## SD7推土机性能简介

SD7高驱动履带推土机动力强劲、性能优良、作业率高、行驶平稳、视野 、舒适性好、操作简单、维修方便、并采用电子监控系统。

- 一,SD7高驱动履带推土机突破了传统的履带推土机设计方法,将驱动链 论脱离了行走架,布置到与终传动、转向制动离合器,中央传动同一轴线上、 夏带星三角形布置、捎除了地面直接传递给驱动链轮的冲击载荷,使传动系统
- 四。液力机械变矩器采用外分流机械、液力两部分输出,(液力输出占70%。 机械输出占30%),兼备了液力传动能自动适应载荷的变化和机械传动通过性能 好的特点,拓宽了发动机与变矩器匹配的高效范围,提高了传动效率。
- 五. 动力换档变速箱采用行星式结构,紧凑合理,体积小,传动效率高,变速箱离合器采用多片湿式,油压结合、弹簧分离、摩擦片采用强制冷却润滑,最
- 压紧,液压分离的常结合离合器,转向离合器为常分离,液压结合离合器;转向与制动离合器联动手操纵,可实现线转弯、急转弯、整车制动、脚踏板实现整车总制动。设有锁车机构,起动处的大型等。 显动发动机不溜车,使整机作业更加安全可靠
- 向与制动离合器外侧,组合式链齿,结构紧凑。维修终传动时,不必拆下行走 架,维修拆装方便。
- 由压力略高于工作负荷压力,减小了滥流功耗,提高了系統自身效率。精确的 故调控制,提高了作业平稳性,降低了司机作业的技术要求。
- 舒适、操作方便。
- 推土机工作时分别对柴油机的水温、油压;底盘液压系统和工作装置液压系统 的工作油温,油压;柴油箱中的油量等参数进行记录监控。推土机一旦发生故 障,电子监控仪即发出报警,避免了由于小故障的发生未能及时处理而造成推 上机的严重损坏



铲刀型式	履带接地 长度 A	整机长度 B	铲刀高度 C	整机高度 D	铲刀宽度 E	履带接地 中心距 F		提升高度	铲刀容量
直倾铲	2895	7604	1550	3402	3500	1980	500	1170	8.4
推煤铲	2895	7880	1350	3402	4428	1980	670	1115	8.1
角铲	2895	7571	1100	3402	4253	1980	670	1115	5.2
低比压铲	3185	7190	1150	3482	4382	2235	635	1170	5.8

Blade type	Track ground contact length(A)	Length of machine (B)	Blade- height (C)	Overall height (D)	Blade width (E)	Track center distance (F)	Digging depth	Lifting height	Blade capacity
Straight tilting blade	2895	7604	1550	3402	3500	1980	500	1170	8.4
Coal pushing blade	2895	7880	1350	3402	4428	1980	670	1115	8,1
Angle blade	2895	7571	1100	3402	4253	1980	670	1115	5.2
LGP blade	3185	7190	1150	3482	4382	2235	635	1170	5.8

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www.crane-china.com 幽翔 机电

## yi ang 永州國翔和电设备有眼公司 yong zhou yi xiang machinerya e quipment ltd.

地址:湖南省长沙市五一大道韭菜园路389号华美欧大厦2013-2014室 ADD:ROOM 2013-2014, HUAMEIOU BUILDING, NO.389,

邮址(E-mail):info@crane-china.com 总机(TEL):86-731-85816117 82880555/666/777 传真(FAX):86-731-85816217 82880111

电话(TEL):86-746-8422780 8323288 传真(FAX):86-746-8420289 地址:湖南省永州市冷水滩区湘永路129号中亚家园2104室 ADD:ROOM 2104, ZHONGYA JIAYUAN, NO.129 XIANGYONG RD, LENG SHUI TAN DISTRICT, YONGZHOU, HUNAN, CHINA