STANDARD EQUIPMENT FOR BASE MACHINE 基础设备标准

- Air cleaner, double element with dust indicator
  空气滤清器，带灰尘报警器的双元件
- Alternator, 35 ampere/24V
  交流发电机，35A/ 24V
- Batteries, 195 Ah/2 x 12V
  电池，195Ah / 2 x 12V
- Belt drive cooling fan 皮带传动冷却风扇
  Decelerator pedal 减速器踏板
- Engine hood 发动机罩
- Engine side covers, vertically opened
  发动机侧护罩，平开
- Lighting system, (includes 4 front, 2 rear)
  照明系统（包括前4个，后2个）
- Locks, filler caps and covers
  锁，加注帽和盖子
- Manuel operation, hydraulic boost
  手动操纵，液压助力
  Split muffler 分体式消声器
- Radiator guard door, flat
- 散热器防护门，平坦
- Radiator reserve tank 散热器储罐
  Rear cover后盖
- ROPS mounting brackets ROPS 安装支架
  Starting motor,11kW/24V
  启动电机，11 kW / 24V
- Seat, adjustable 可调节座椅
  Track roller guard, end sections
  滚轮保护装置，端部
- Track shoe assembly 履带板总成
- —Heavy–Duty sealed and lubricated track
  重型密封和润滑履带
- 560 mm 22" single grouser shoe
  560毫米22" 单履带履带板
- Underguards, oil pan and transmission
  保护罩，油底壳和传动装置
- Wet, multi–piece, spring compression, hydraulically separated steering clutch
  湿式、多片、弹簧压紧、液压分离转向离合器

STEEL CAB 钢结构驾驶室

- Additional weight 430kg 附加重量430kg
- All–weather, enclosed steel structure A/C cab适应各种天气的钢结构空调驾驶室
- Dimensions: 尺寸
  —Length: 1680mm 长度：1680毫米
  —Width: 1464mm 宽度：1464毫米
  —Height: 1668mm 高度：1668毫米
  —Height from floor to ceiling: 1518mm 车顶天花板离地高度：1518毫米



ROPS CANOPY FOR CAB 驾驶室ROPS遮篷

- Additional weight 1050kg 附加重量1050千克
- Meets ISO 3471, SAE J/ISO 3471 ROPS 符合ISO3471标准、SAE J/ISO 3471ROPS 标准和ISO3449FOPS标准
- standards, and ISO 3449 FOPS standard.

Roof dimensions: 车顶尺寸
—Length: 2183mm 长度：2183毫米
—Width: 2310mm 宽度：2310毫米
—Height from operator compartment floor: 2056mm
操作间地板至车顶高度：2056mm



TRIPLE-SHANK RIPPER 三齿松土器



- Additional weight (including hydraulic control unit): 4382 kg附加重量（包括液压控制单元）：4382千克
- Beam length: 1166 mm 横梁长度：1166毫米
- Maximum digging depth: 1250mm 最大挖掘深度：1250毫米
- Maximum lift above ground: 955 mm 最大离地举升高度：955毫米

SHOES 履带板

Shoe width 履带板宽度	Total ground contact area 接地面积
560 mm 22.0" single–grouser shoe 单凸履带板	3.53 m^2

地址：内蒙古包头市青山区民主路
电话：0472–3117006（整机）/ 86–472–3117687（国外） 0472–3118853（配件）
传真：0472–3117851
邮政编码：014032
网址：www.ddgcjx.com

NORINCO GROUP

XCMG

Net 功率净值：235kw 320HP @2000rpm
Gross功率毛值：257kw 320HP @2000rmp
OPERATING WEIGHT 操作质量35700kg

TY320D 推土机



The Cummins QSNT-C345 dieselengine provides an output of ***235 kW*** 320 HP withexcellent productivity.

康明斯QSNT-C345柴油发动机的输出功率为235 kW 320 HP，生产效率极高。

Vertically opened engine side cover for easy and safer servicing.

平开发动机侧盖使维修更简单更安全

High capacity ***Straight tilt dozer*** combined the highest power in its class with outstanding productivity.

高容量直推式推土机将同类产品中的最高功率与出色的生产力相结合

Left hand ***joystick*** controls all tractor motion. Right hand joystick controls all the movements of blade and ripper.

左手操纵杆控制推土机的所有动作。右手操纵杆控制土铲及松土器的所有动作。



Electronic monitoring system prevents minor problems form developing into major ones.

电子监控系统防止小问题扩大化

Net 功率净值：
235kw 320HP @2000rpm
Gross 功率毛值：
257kw 345HP @2000rmp
OPERATING WEIGHT 操作质量：
35700kg
BLADE CAPACITY 推土铲容量
Straight Tilt Doze
直倾式推土铲: 11.7m³

Wet, multiple-disc brakes Eliminates brake-band adjustments for maintenance-free operation

湿式多片制动器消除制动带的调整，以便进行免维护操作

Bolt-on segmented sprocket teeth

螺栓固定的分段链轮齿便于现场更换

Photo may include optional equipment.

操作室 OPERATOR'S COMPARTMENT TY320D CRAWLER DOZER

All steering, direction, and speed changes are made by three joysticks on the left–hand. If the operator wants to move the machine the front left, he simply pulls the first left joystick back. If the operator wants to turn the machine to the front right,he simply pulls the third left joystick back.

所有转向，方向和速度变化都由左手的三个操纵杆控制。如果操作员想要将机器向前左转向，他只需将左边第一个操纵杆向后拉动即可。如果操作员想要将机器向前右转向，他只需将左边第三个操纵杆向后拉动即可。

Low–noise design
低噪音设计

For smoother riding comfort, power train components and hydraulic control valves are mounted to the frame with rubber pads to soften vibration and shut out noise. The walk–through operator compartment is uncluttered for smooth entry and exit. An adjustable seat with backrest is standard equipment.

为了更顺畅的乘坐舒适性，动力传动系部件和液压控制阀通过橡胶垫安装到车架上，以减轻振动并隔绝噪音。操作员操作室整齐划一，便于进出。标准配备带靠背的可调座椅。





Three–stage height adjustable armrests
三段高度可调的扶手

Three–stage height adjustable arm rests and relocated fuel control lever provide comfortable operation and increased leg space.

三段高度可调的扶手和重新定位的燃油控制杆提供舒适的操作和增加的腿部空间。

Electronic monitoring system
电子监控系统

An electronic monitoring system prevents minor problems from developing into major ones. All meters and gauges are controlled by a microcomputer, which provides a wide indication range for an easier, more precise reading.

电子监控系统可以防止小问题发展成为主要问题。所有仪表均采用国外知名品牌VDO监控系统，以便读取更加简单，更精确。





Steering functions (left hand)
转向功能（左手）

Forward and re Steering functions and speed control
转向功能及速度操纵

Realize the turning to left and to right
可实现车辆向左和向右转

Realize the turning forward and reverse, from first, to second, to third shifting
可实现车辆前进和倒退，一档到二挡到三挡

Blade functions (right hand)
推土铲功能（右手）

Straight tilt dozer
直推式推土机

Front joystick controls lift and tilt of blade
前操纵杆控制铲刀升降、倾斜

Rear joystick controls lift of ripper
后操纵杆控制松土器升降

TY320D CRAWLER DOZER RELIABILITY FEATURES 可靠性能

Field–proven engine
经现场验证的发动机

Powerful QSNT–C345 diesel engines provides a massive output of 235 kW 320 HP. The engine power is transmitted smoothly to the final drives via a high–efficiency torque

功能强大的QSNT–C345柴油发动机可提供235千瓦320马力的大功率输出。发动机动力通过高效率的扭矩平稳地传递到最终传动

Flat bottom frame
平底框架

A flat bottom frame, the monocoque track frames and forward–mounted pivot shafts provide good maneuverability in muddy terrain by preventing mud from building up under the frame.

平底框架，承载式履带架和前部安装的枢轴通过防止泥浆在框架下堆积而在泥泞的地形中提供良好的可操作性。

Sturdy design
坚固的设计

Because fewer components mean greater reliability, we’ve designed a simple hull frame made of a thick, single plate. Track frames have a large–section construction for maximum rigidity. Even the box–section construction of the blade back beam is reinforced, all with durability in mind.

因为更少的组件意味着更高的可靠性，我们设计了一个由厚厚的单板制成的简单船体框架。
履带框架采用大截面结构，可实现最大刚性。即使是刀背梁的箱形截面结构也得到了加强，所有这些都考虑到耐久性。

TY320D CRAWLER DOZER EASY MAINTENANCE 易于维护

Wet, multiple–disc brakes

Eliminate brake–band adjustments for maintenance–free operation.

湿式多盘式制动器消除制动带调整，实现免维护运行。



Oil pressure check ports
油压检查端口

Oil pressure check ports for the power train are centralized on the right hand side of the operator

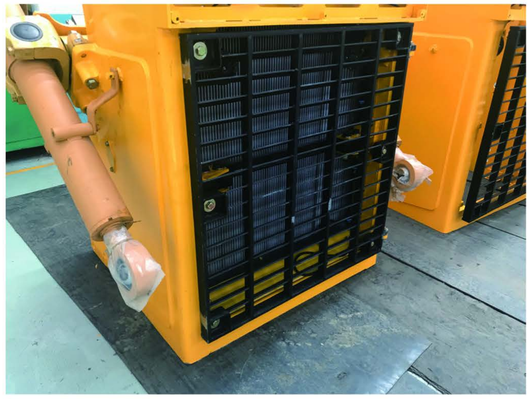
动力传动系的油压检查端口集中在操作员的右侧踏板下



Front radiator door
前散热器防护门

Openable and closable radiator mask facilitates radiator cleaning.

可打开和可关闭的散热器面罩有助于清洁散热器。



规格 SPECIFICATIONS TY320D CRAWLER DOZER

ENGINE 发动机

Model 型号·····Cummins QSNT–C45
Type 类型·····4–stroke cycle, water–cooled, direct injection
4冲程循环、水冷、直喷
Aspiration 增压·····Turbocharged 涡轮增压
Number of cylinders 油缸数量·····6
Bore x stroke. 孔*冲程····· 139.7 mm x 152.4 mm
Piston displacement 活塞排量····· 14 ltr 升
Gross功率毛值·····257kW（345HP）
Net 功率净值·····235kW（320HP）
Rated rpm 额定转速·····2000rpm
Fan drive type 风扇驱动器类型·····Mechanical 机械式
Lubrication system 润滑系统
Method 方法…Gear pump, forced lubrication 齿轮泵、强制润滑
Filter 过滤器·····Full–flow 全流量
Net maximum torque最大净扭矩····· 1509 N・m /1400 rpm

TORQFLOW TRANSMISSION 扭矩流传输

Gearbox: planetary gear, multi–plate clutch, hydraulic combined with forced lubrication
变速箱：行星齿轮，多片离合器、液压结合强制润滑式。

Travel speed 行驶速度	Forward 前 进	Reverse 后 退
1st（km/h）	0－3.6	0－4.4
2nd（km/h）	0－6.6	0－7.8
3rd（km/h）	0－11.5	0－13.5

OPERATING WEIGHT（APPROXIMATE）操作质量（近视值）

Tractor weight: 推土机重量

Including rated capacity of lubricant, coolant, full fuel tank, operator and standard equipment
包括额定容量的润滑油，冷却液，满油箱，操作人员和标准设备…·····31000kg

Operating weight 操作质量

Including straight tilt dozer, cab, operator, standard equip ment, and rated capacity of lubricants, coolant, and full fuel tank
包括直倾式推土铲，驾驶室，操作员，标准设备和额定容量的润滑油，冷却液和满油箱·····35700kg

TRANSMISSION SYSTEM 传动系统

Torque converter:
three components, one grade and one phase
Central drive:
spiral bevel gear, first stage deceleration, splash lubrication
Steering clutch:
wet, multi–piece, spring–loaded, hydraulically separated
Steering brakes:
Wet, floating, direct clutch, hydraulic assist brake
Final drive:
secondary spur gear reduction, splash lubrication

液力变矩器：三元件、一级一相
中央传动：螺旋锥齿轮、一级减速、飞溅润滑
转向离合器：湿式、多片、弹簧压紧、液压分离
转向制动器：湿式、浮式、直接离合、液压助力制动
终传动：二级直齿轮减速、飞溅润滑

Minimum turning radius*:最小转弯半径*..... 3940mm
*As measured by track marks on ground. *以地面上的履带标记测量。

UNDERCARRIAGE 下车

Suspension 悬挂·····Eight–beam swing, balanced beam suspension structure 八字梁摆动式、平衡梁悬挂结构
Track roller frame滚筒架····· Monocoque, large section, durable construction 承载式，大截面，耐用结构
Track shoes.履带板 ·····
Lubricated track. A unique dust seal prevents external abrasive material from entering the pin bushing gap for extended life.
Easy adjustment of track tension with a grease gun.
润滑的履带。独特的防尘密封件可防止外部磨损性物质进入销轴衬套间隙，从而延长使用寿命。使用黄油枪可以轻松调整履带张力。
Number of carrier rollers (each side)（每边）托运轮数量·····2
Number of track rollers (each side)（每边）支重轮数量·····7
Number of shoes (each side)（每边）履带板的数量·····41
Grouser height 履带高度·····80mm
Shoe width 履带板宽度·····560mm
Track gauge 轨距·····2140mm
Length of track on ground 地面履带轨长度·····3150mm
Ground contact area 接地面积·····3.53m²
Ground pressure.接地比压 ·····0.104mPa

COOLANT AND LUBRICANT 冷却剂和润滑剂 CAPACITY(REFILL) 容量（重新填充）

Fuel tank 燃油箱·····600L
Coolant 冷却液·····121L
Engine oil 机油·····47L
Transmission, bevel gear, and steering Transmission system
变速器、锥齿轮和转向传动系统·····185 L
Final drive (each side)终传动（每边）·····55L

HYDRAULIC SYSTEM 液压系统

泵的类型····· CBZ4200齿轮泵
流量（额定发动机转速下的排放流量）·····355L/min
液压油缸·····Double–acting, piston双作用、活塞
最高工作油压·····13.7Mpa

	Number of cylinders 油缸数量	Bore 孔径
Blade lift 推土铲起升	2	140 mm
Blade tilt 推土铲倾斜	1	225 mm

Control valve 控制阀
Double spool control valve for mechanical angle power tilt bulldozers.
用于机械角度动力倾斜推土机的双联阀柱式控制阀。
Positions: 位置：
–Blade lift推土铲升降 ·····
·····Raise, hold, lower, and float 起升、保持、降低和漂浮
–Blade tilt 铲刀倾斜·····
·····Right, hold, and left 向右、保持、向左
Additional control valve for triple–shank ripper
用于三齿松土器的附加控制阀
Positions: 位置
–Ripper lift松土器升降·····
·····Raise, hold, and lower 起升、保持和落下

Hydraulic oil capacity (refilling): Straight tilt dozer
液压油容量（加注）：直推式推土机·····
·····90L

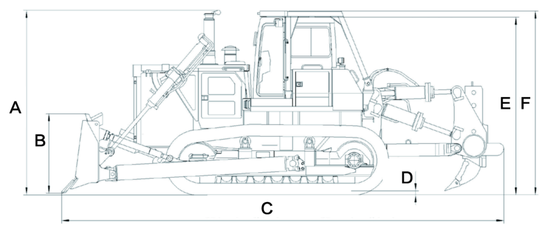
DOZER EQUIPMENT 推土机设备

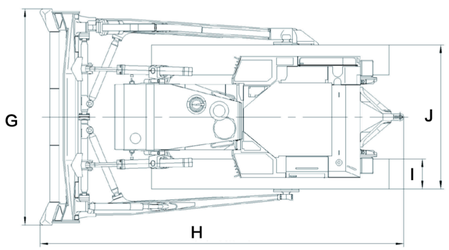
Use of high tensile strength steel in moldboard for strengthened blade construction.
在推板上使用高强度钢材以加固推土铲结构

	Overall length with dozer 推土机总长度	Blade capacity* 推土铲容量	Blade length x height 推土铲长*高	Maximum lift above ground 离地最大举升高度	Maximum drop below ground 离地最大切土高度	Maximum tilt adjustment 最大倾斜调整	Angling angle 斜向角度	Additional weight 重量
Straight Tilt Dozer 直倾推土机	6880mm	11.7m³	4130mmx 1590mm	1560mm	560mm	1000mm	–	4520kg

Remarks: * Blade capacities are based on the SAE recommendation practice J1265.
备注：*推板容量基于SAE推荐惯例J1265。

DIMENSIONS 尺寸





Ground clearance 离地高度·····500mm

A	3709 mm	F	3695 mm
B	1590 mm	G	4130 mm
C	8916 mm	H	6880 mm
D	80 mm	I	560 mm
E	3601 mm		2700 mm