





一个企业就是一个传奇的故事
一个企业就是一个城市发展的见证



企业简介 Company Profile

山东天诺工程机械有限公司，是一家挖机多功能设备研发、设计、制造、销售、服务于一体的综合性企业，公司坐落于“孔孟之乡，礼仪之邦”的山东省济宁市。

公司拥有100余项专利产品，先后通过ISO9001认证、ISO14001认证、ISO45001认证、高新技术企业认证等。

公司拥有一批年轻精干的技术管理队伍，本着开拓进取的精神，不断求发展，引进国外先进技术，不断升级优化产品生产工艺及设备，经过多年经验积累，产品应用于国内外各知名品牌挖掘机、装载机，产品远销世界各地，赢得市场广泛赞誉及信赖。为众多企业提供个性化定制服务，为多种工程设备提供施工解决方案。公司始终坚持“质量第一，用户至上”的方针，竭力为客户提供性价比更高的产品，以更佳的售后服务满足客户需求。

公司主营产品分为五大类：

1、铁路养护装备：铁路换枕机、清筛机、边坡清理机、捣固机、清渣机、枕木夹、钢轨夹、道砟犁、运砟车、道砟筛分斗、清扫机等;

2、挖掘机多功能改装：卸火车加高底盘、挖机升降驾驶室、倾斜驾驶室、前凸驾驶室、两极驾驶室等

3、工程手臂：挖掘机加长臂、三节臂、打桩臂、抓料臂、标准臂、岩石臂、隧道臂等;

4、挖机属具：挖斗、岩石斗、栅格斗、贝壳斗、高频筛分斗、异形斗、旋转刮板、夹木器、抓钢机、抓钳器、树桩夹、劈木机、松土器等;

5、工程车辅助装备：装载机轮胎保护履带、防滑履带、自卸车防滑履带等。

Shandong Tiannuo Construction Machinery Co., Ltd. Is a comprehensive enterprise integrating R&D, design, manufacturing, sales and service of excavator multifunctional equipment. The company is located in Jining City, Shandong Province, the "hometown of Confucius and Mencius, the country of etiquette" .

The company has more than 100 patented products and has passed ISO9001 certification, ISO14001 certification, ISO45001 certification, high-tech enterprise certification, etc.

The company has a group of young and capable technical management teams. In the spirit of pioneering and enterprising, it constantly seeks development, introduces foreign advanced technology, and continuously upgrades and optimizes product production processes and equipment. After years of experience accumulation, the products are applied to well-known brands of excavators and loaders at home and abroad. The products are exported to all of the world and have won wide praise and trust in the market. It provides personalized customization services for many companies and construction solutions for a variety of engineering equipment. The company always adheres to the principle of "quality first, customer first", strives to provide customers with more cost-effective products, and meet customer needs with better after-sales service.

The company's main products are divided into five categories:

1.Railway maintenance equipment: railway sleeper changing machine, screening machine, slope cleaning machine tamping machine, slag cleaning machine, sleeper clamp, rail clamp, ballast plow, ballast transport vehicle, ballast screening bucket,sweeper, etc;

2. Excavator multifunctional modification equipment: unloading train raised chassis, excavator lifting cab, tilting cab, forward-facing cab,two-pole cab, etc;

3. Engineering arm: excavator long reach arm, three-section arm, pile arm, unloading arm, standard arm, rock arm,tunnel arm,etc;

4. Excavator accessories: digging bucket, rock bucket, grid bucket, shell bucket, high-frequency screening bucket special-shaped bucket, rotating scraper, wood clamp, steel grabber, grabber, stump clamp, wood grabber, soil ripper etc;

5. Engineering vehicle auxiliary equipment: tire protection track, anti-skid track, dump truck anti-skid track,etc.

铁路轨道机
Railroad Excavator

天诺机械 TIAN NUO MACHINERY



适用对象： 铁路新线建设、厂矿专用线路的铺设及维护作业。

主要特点：

采用高强度合金板，强度高，耐磨；

功能多样化，具备换枕、换轨、道砟清筛等功能；

两驱驱动行驶，速度小于 15km/h；

设有应急动力，确保设备故障后安全撤离。

Application: It’ s used for new railway line construction,mining special railway line construction and maintenance.

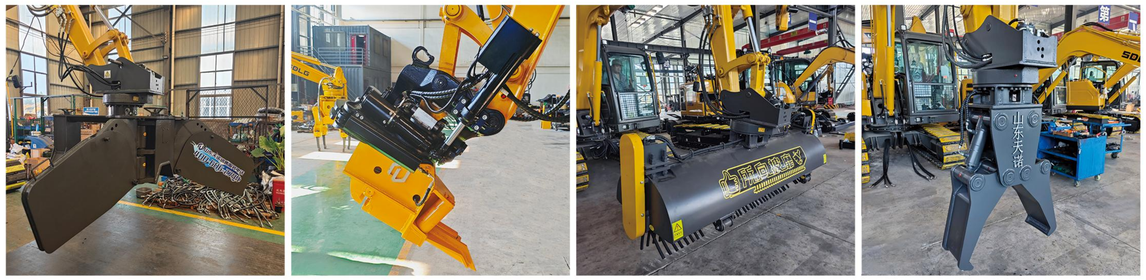
Characteristic:

It’ s made of high strength alloy plate,has good antiskid performance;

Multi-function,such as sleeper changing,rail changing,ballast removing;

Double motors driving,speed less than 15km/h;

Equipped with emergency engine,ensure the excavator leaving construction site when excavator has breakdown.



公铁 Railway excavator

适用轨距 Applicable gauge	1435mm/1520mm
铁路钢轨驱动型式 Driving type on railway	驱动轮 Driving wheel
铁路作业驱动型式 Working type on railway	履带 Crawler
行驶范围 Allow driving range	正常路面、铁道线路 Road and railway line
行驶速度 Driving speed	2.86-5.0/15km/h
马达型式 Motor type	柱塞马达 Plunger motor
枕木机开口 Sleeper grab opening width	650mm
作业角度 Rotation angle	360°
扒砟宽度 Scraping ballast width	2800mm
扒砟深度（钢轨面） Scraping ballast depth	500mm
运输尺寸（长宽高） Transportation size	6500*2260*2620mm

天诺机械 TIAN NUO MACHINERY

铁路清筛机
Ballast Blaster Undercutter

适用对象： 铁路线路道床破底清筛作业。

主要特点：

主机采用 160KW 大功率定制款挖掘机；

机头采用耐磨板，强度高；

采用 455 立式回转；

链轨材质 35MnBM，套 35CrMo 销 40Cr。

Application: It’ s used for ballast removing on the railway bed.

Characteristic:

The excavator used for 160KW high power engine,the undercutter head made of high strength steel plate,has good wear resistant performance;

The undercutter used with 455 vertical rotation;

The undercutter chain is made of 35MnBM,bush is made of 35CrMo,pin is made of 40Cr.





清筛机 Ballast blaster undercutter railway excavator

型号 Model	FR160F-TN
重量 Weight	1850KG
额定功率 Power	160KW/217.5HP
发动机品牌 Engine brand	潍柴 WEICHAI
适用轨距 Applicable gauge	1435mm/1520mm
铁路钢轨驱动型式 Driving type on railway	驱动轮 Driving wheel
铁路作业驱动型式 Working type on railway	履带 Crawler
行驶范围 Allow driving range	正常路面、铁道线路 Road and railway line
行驶速度 Driving speed	2.7-4.0/10-15KM/h
扒砟链作业方式 Ballast undercutter blade working type	侧切式 Cutting in side
扒砟宽度 Cutting width	2800mm

升降驾驶室改装
Lifting cab modification

天诺机械 TIAN NUO MACHINERY











适用对象： 港口码头装卸料，钢铁厂的废钢装载、铁路物流火车厢平仓、装卸等等需要提升视野范围的工况。

主要特点：

采用双油缸设计，稳定性更好；

采用特殊钢材，具有韧性高，承重量好的优点；

油缸采用了止回阀式，安全，故障率底；

采用进口马牌高压软管，耐寒、韧性好；

安装应急系统、双层安全保护装置，升降更安全；

产品灵活，可根据客户不同的需求定制升降高度，满足作业需求。



Application: It's used for material unloading on port and wharf,scrap steel loading,railway logistics train compartment screeding,loading and unloading site that need lifting sight region.

Characteristic:

It's used with double hydraulic cylinder,has good stability;

It's made of special steel material,with high toughness and good load-bearing performance;

Used with check valve type cylinder,safty and low failure rate;

Using imported CONTINENTAL high-pressure hoses, with good cold resistance and toughness;

Equipped with emergency system,double safty device,make lifting procession become more safty;

High flexible,we can accord customer requests design lifting height to achieve different working condition.

项目/型号 Item / Model	TNSJ75	TNSJ150	TNSJ150	TNSJ150
适配机型 Applicable tonnage	7-9T	13-50T	15-50T	20-50T
升降行程 Lifting height (mm)	1500	2500	3000	3200
驾驶室底离地最大高度 Max Cab above ground height(mm)	2500	3700	4200	4400
视线范围 Vision range (mm)	3800	5000	5500	5700
应急下降系统 Emergency descent system	配备provide	配备provide	配备provide	配备provide
升降油缸 Amount of lifting cylinder(pcs)	2	2	2	2

天诺机械 TIAN NUO MACHINERY

挖掘机龙门架
Excavator straddle carrier

适用对象： 铁路物流货场，火车、货车装卸料作业。

主要特点：

采用一体式加长履带设计，更安全稳定；

支腿采用高强度板材，箱体式焊接，承重强度和韧性更高；

模块化设计，安装方便快捷；

配备大挖斗，增加作业效率；

一体式和分体式两种模式可选；

产品灵活，可根据客户不同的需求定制开口、高度，满足不同作业需求。



Application: It's used for railway logistics site,train and cargo unloading material.

Characteristic:

Special design integrated lengthening crawler,has better stability;

Outrigger made of high strength steel plate,box type welded structure,with high toughness and good load-bearing performance;

Modular design, easy and fast installation;

Equipped with large buckets to increase work efficiency;

There are two modes to choose : integrated and split;

High flexible,we can accord customer requests design opening width and height to achieve different working condition.

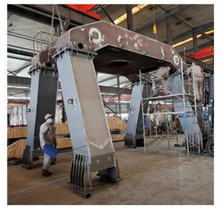














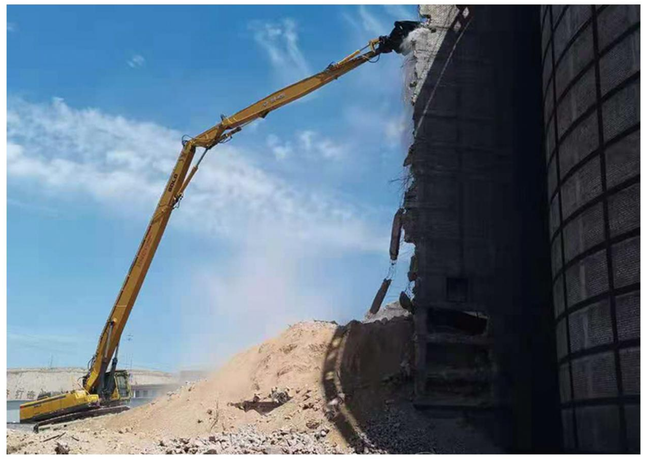
项目/型号 Item / Model	TNDCT200	TNDCTD300	TNDCT400
适配机型 Applicable tonnage	20-26T	27-35T	36-40T
通过高度 Passing height (mm)	4300	4300	4300
通过宽度 Passing width (mm)	4200	4200	4200
支腿数量 Amount of outrigger	4	4	4
支腿宽度 Outrigger width (mm)	700	700	700
履带板宽度 Crawler plate width (mm)	600	600	600
履带长度 Crawler length (mm)	6000	6000	6600
履带最大宽度 Max crawler width (mm)	1000	1000	1000
挖斗斗容 Bucket capacity (m^3)	2	2.5	3
挖斗宽度 Bucket width (mm)	1800	2100	2300
挖掘机连接方式 Excavator connect type	一体式/分体式 Integrated /Split type	一体式/分体式 Integrated /Split type	一体式/分体式 Integrated /Split type
重量 Weight (kg)	21000	23000	26000

三节拆楼臂
Three section demolition arm

天诺机械 TIAN NUO MACHINERY







适用对象： 高层建筑的拆解、解体作业。

主要特点：

由大臂、中臂、小臂三部分组成；

主体采用 Q355D、Q460C 或 Q690 板材，抗拉强度高；

整体设计合理，线条流畅；

采用高压管路，销轴采用 40Cr，大臂底座镶嵌铜套；

产品灵活，可定制生产。

Application: It's used for demolition of high-rise building.

Characteristic:

It's consist of boom,middle arm,arm;

It's made of Q355D,Q460C or Q690 steel,with high tensile strength;

The overall design is reasonable, with smooth lines;

It's used with high pressure oil tube,pin shaft is made of 40Cr, and the base of the boom is embedded with a copper bush;

High flexible,we can accord customer requests design boom to achieve different working condition.



适配挖机吨位 Applicable models	30–36T		40–47T	
三节臂总长臂 Total length (mm)	21000	22000	24000	26000
最大作业高度 Maximum working height (mm)	22050	23100	25100	27200
最大作业半径 Maximum working radius (mm)	20000	21000	23000	25000
运输长度 Transportation length (mm)	15330	16400	17900	19600
运输高度 Transportation height (mm)	3320	3460	3570	3630
后端回转半径 Rear turning radius (mm)	3320	3670	3670	3670
最大作业高度时半径 Radius at maximum working height (mm)	3100	3100	3100	3100
小臂长度 Arm length (mm)	7200	7500	8000	8500
中臂长度 Middle arm length (mm)	2300	2300	2300	2300
大臂长度 Boom length (mm)	11500	12200	13700	15200
增加配重 Counterweight (mm)	后移600 Move back600	后移600 Move back600	后移800 Move back800	后移1000 Move back1000
最大前端工作装置重量 Maximum attachment weight (T)	2	2	2	2

天诺机械 TIAN NUO MACHINERY

打桩臂
Piling arm











适用对象： 配合打桩机使用，适用于各种工地桩基建设。

主要特点：

由大臂、小臂组成，大臂为直臂，更有利于举升作业；

采用高强度合金板，屈服强度好、质量轻；

整体设计合理，线条流畅；

采用高压管路，销轴采用 40Cr，大臂底座镶嵌铜套；

产品灵活，可定制生产。

Application: It's used with pile driver, suitable for pile foundation construction on various construction site.

Characteristic:

It's consist of boom and arm,the piling boom is straight boom, its good for lifting;

It's made of high strength steel plate,with good yield strength and lightweight;

The overall design is reasonable, with smooth lines;

It's used with high pressure oil tube,pin shaft is made of 40Cr, and the base of the boom is embedded with a copper bush;

High flexible,we can accord customer requests design boom to achieve different working condition.

适配挖机吨位 Applicable models	36T		45T
打桩臂长度 Piling arm length (mm)	13000	15000	18000
打桩深度 Piling depth (mm)	12500	14500	17500
运输长度 Transportation length (mm)	12500	14300	16500
运输高度 Transportation height (mm)	3100	3100	3380
小臂长度 Arm length (mm)	4000	4000	4500
大臂长度 Boom length (mm)	9000	11000	13500
增加配重 Counterweight (mm)	后移40 Move back 40	后移60 Move back 60	后移60 Move back 60
前端工作装置最大重量 Maximum attachment weight (T)	2.8	2.8	3.5

两节加长臂
Two section long reach arm

天诺机械 TIAN NUO MACHINERY

适用对象： 需要扩大作业范围的工况，如河道清淤、护坡等。

主要特点：

长度可根据挖掘机吨位按需定制；

主体采用 Q355D、Q460C 或 Q550 板材，抗拉强度高；

整体设计合理，线条流畅；

采用高压管路，销轴采用 40Cr，大臂底座镶嵌铜套。

Application: It's suitable for construction that need enlarge working range,such as channel clean out,protect slope.

Characteristic:

We can accord the excavator model design boom length;

It's made of Q355D,Q460C or Q690 steel,with high tensile strength;

The overall design is reasonable, with smooth lines;

It's used with high pressure oil tube,pin shaft is made of 40Cr, and the base of the boom is embedded with a copper bush.













适配挖机吨位 Applicable models	20–25T		30–36T			40–47T		
加长臂长度 Long reach boom length (mm)	16000	18000	18000	20000	22000	20000	22000	24000
最大挖掘半径 Maximum digging radius (mm)	15300	17300	17300	19200	21020	19200	21020	23020
最大挖掘深度 Maximum digging depth (mm)	11200	12200	12200	14200	15600	14200	15600	16500
最大挖掘高度 Maximum digging height (mm)	13500	15300	15300	16600	17170	15600	16170	17170
最大卸载高度 Maximum uninstall height (mm)	11500	12200	12200	13500	14830	13700	14920	15630
最小前端回转半径 Minimum Front Swing Radius (mm)	4750	5150	5200	6250	6250	6250	7750	7750
大臂长度 Boom length (mm)	9800	10300	10500	11500	12500	11750	12750	13750
小臂长度 Arm length (mm)	6200	7700	7500	8500	9500	8250	9250	10250
小臂最大挖掘力ISO Arm maximum digging force lSO (KN)	82	64	115	94	78	167	138	109
铲斗最大挖掘力ISO Bucket maximum digging force lSO (KN)	151	99	151	151	151	151	151	151
铲斗容积 Bucket capacity (m^3)	0.5	0.4	0.8	0.7	0.5	1.0	0.8	0.6
增加配重 Counterweight (T)	0	2	0	3	4	2	3	4

天诺机械 TIAN NUO MACHINERY

抓料臂
Unloading arm



适用对象： 前端可安装贝壳斗、五瓣抓，用于铁路火车装卸、港口码头物料装卸、钢铁厂废钢装卸等工况。

主要特点：

采用高强度合金板，屈服强度好、质量轻；

销轴采用 40Cr 合金钢热处理，轻度高、韧性好；

采用高压管路，大臂底座镶嵌铜套；

整体抛丸除锈，延长使用寿命；

产品灵活，可定制生产。

Application: The arm can install clamshell bucket,5 claws grab,It's usually used for railway train compartment,wharf and port,scrap steel material unloading.

Characteristic:

It's made of high strength steel plate,with good yield strength and lightweight;

Pin and shaft is made 40Cr,this material passed heat treatment, has good toughness and lightweight;

It's used with high pressure oil tube,the base of the boom is embedded with a copper bush;

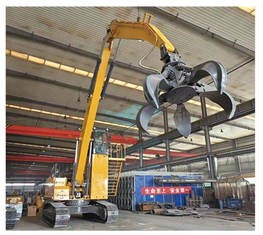
The boom passed shot blasting that can remove rust, extending service life;

High flexible,we can accord customer requests design boom to achieve different working condition.

适配挖机吨位 Applicable models	22–27T	30–38T	40–48T
抓料臂长度 Unloading arm length (mm)	12000	14600	16000
抓料范围 Unloading arm working range (mm)	9000	12000	13000
大臂长度 Boom length (mm)	8000	9000	9700
小臂长度 Arm length (mm)	4000	5600	6300
适配属具 Applicable attachment	贝壳斗/五瓣抓 Shell bucket/five-petal grab	贝壳斗/五瓣抓 Shell bucket/five-petal grab	贝壳斗/五瓣抓 Shell bucket/five-petal grab















液压手腕
Hydraulic wrist

天诺机械 TIAN NUO MACHINERY



适用范围： 安装于挖掘机臂与各种属具之间，具备 360°旋转与倾斜的功能，扩展属具的作业角度。

主要特点：

可快速完成属具切换；

属具实现 360°旋转及正负 45°侧摆；

采用优质合金钢一体铸造；

属具油路可自动导通。

Application: Installing between excavator boom and attachment,can 360 degree rotation and ±45° side tilt, this can extend the attachment working angle.

Characteristic:

This hydraulic wrist can quickly change different attachment.

It's made of high-quality alloy steel,integrated casting.

The attachment oil circuit can automatically conduct.







项目/型号 Item / Model	TN–02	TN–04	TN–07	TN–15	TN–20	TN–30
适配挖机 Applicable models	1-2T	2-4T	5-7T	12-15T	18-22T	26-32T
上部轴直径 Upper shaft diameter (mm)	25-30	30-35	40-50	60-65	70-80	80-100
上部轴开档 Upper shaft opening width (mm)	150-200	100-150	150-250	220-270	260-300	360-400
上部轴中心距 Upper shaft center distance (mm)	160	180-240	260-350	280-350	400-450	450-550
下部快换轴直径 Lower quick-attach pin diameter (mm)	30	35	40	60	80	80
最大倾角 (度) Maximum tilt angle (degrees)	±45°	±45°	±45°	±45°	±45°	±45°
流量 Flow rate (L/min)	14-28	18-38	18-38	80-100	100-120	140-180
最大工作压力 Maximum working pressure (BAR)	180	210	220	220	220	220
手指夹开口 Finger clip opening (mm)	300	330	310	500	565	636
重量 Weight (kg)	65	125	275	595	680	819

天诺机械 TIAN NUO MACHINERY

伐木机
Tree Cutting grapple

适用范围： 主要用于伐木、打枝、归堆、集材、造材、装卸及短距离运材等作业。

主要特点：

整体框架使用高强度钢材制造；

自动进给、自动去枝、遇堵处理；

匹配高性能比例阀；

显示屏上参数按需设置；

高智能精准测量，砍伐长度更为精准。

Application: It' s used for tree cutting,branch pruning,stacking, consolidating,manufacturing, loading and unloading,short distance transporting work condition.

Characteristic:

The overall framework is made of high-strength steel;

Automatic feeding,automatic removing branch,and automatic solving blockage;

Equipped with high performance proportional valve;

You can set the data according your request on dashboard;

High intelligence and precise measurement,cutting length is more accurate.



项目/型号 Item / Model	TN–Z5	TN–Z5L	TN–Z6
重量 Weight (kg)	560	850	1350
长度 Length (mm)	1260	1260	1500
宽度(闭合张开) Width (openings) (mm)	910/1160	910/1160	1000
锯板长度 Saw board length (mm)	18	21	25
锯油罐容量 Saw oil tank capacity (L)	3	5	8
工作压力 Working pressure (Mpa)	22.5	24	30
最大砍伐直径 Maximum cutting diameter (mm)	350	450	600
链锯速度 Saw chain speed (m/s)	40	40	60
前刀最大开口 Maximum opening of front blade (mm)	390	490	630
后刀最大开口 Maximum opening of rear blade (mm)	350	450	600

属具
Attachment



挂掘机属具是指安装在挖掘机机械臂上的各种工具和设备，用于替代传统的挖斗，以适应不同的施工需求和工况。这些属具具有多种功能，能够显著提升挖掘机的作业效率和灵活性。

Excavator attachments is tools that installed on the excavator arm, used to replace traditional buckets,that can suitable for different construction needs and working conditions. These attachments have multiple functions,can significantly improve the work efficiency and flexibility.



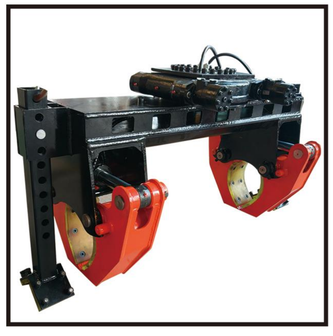


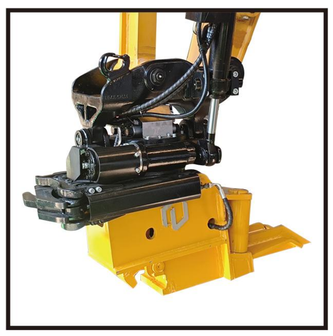












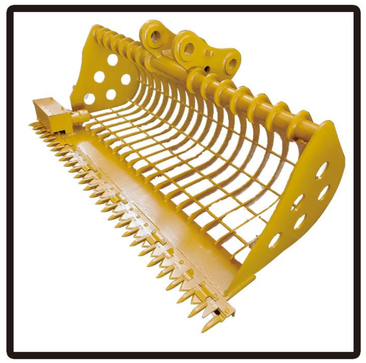










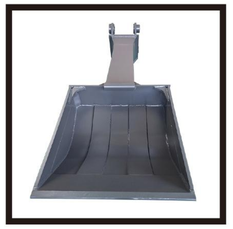


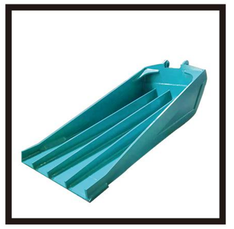




















轮胎保护履带
Tire protection crawler

天诺机械 TIAN NUO MACHINERY



适用范围：适用50装载机标准充气轮胎，用于钢厂、隧道工程、泥泞路面等恶劣环境。

主要特点：

采用履带式设计，与轮胎贴合度更紧密；

可有效防扎、防硌、防滑；

采用35MnBM材质，耐磨抗造；

履带设计，后期维护更简单。

Application: Suitable for 50 loader standard inflatable tires, used in harsh environments such as steel mills, tunnel construction, muddy roads.

Characteristic:

It's used with crawler type design, the fit with the tires is tighter;

It's can effectively prevent skidding and sinking;

It's made of 35MnBM material, wear-resistant and durable;

It's used with crawler type design, easier maintenance in later stage.













项目/型号 Item / Model	23.5–25（标准充气轮胎 Standard inflatable tires）	
适配机型 Applicable tonnage	50装载机 loader	50装载机 loader
规格 Specification	27节/条 27Section/unit	46节/条 46Section/unit
组成配件 Assembly parts	主板、侧板、螺栓 Main plate、side plate、nut	主板、螺栓 Main plate、nut
主板材质 Main plate material	35MnBM	31Mn2Si
侧板材质 Side plate material	45#碳结钢 45#Carbon steel	无 none
螺栓强度 Bolt strength	12.9级 12.9 grade	12.9级 12.9 grade
工艺 Technique	锻打件 Forged parts	铸造件 Casting parts
重量 Weight	530(kg/条) 530(kg/unit)	570(kg/条) 570(kg/unit)
用途 Usage	防扎、防硌、防滑 Anti puncture, anti scratch, antiskid	防滑 、防扎、防硌 Antiskid,Anti puncture, anti scratch

防滑履带
Antiskid crawler

天诺机械 TIAN NUO MACHINERY



适用范围：适用双桥车充气轮胎，用于工地泥泞路面。

主要特点：

采用履带式设计，与轮胎贴合度更紧密；

可有效防滑、防陷；

采用31Mn2Si材质，耐磨抗造；

履带设计，后期维护更简单。

Application: Suitable for inflatable tires of double axle vehicles, used on muddy roads on construction sites.

Characteristic:

It's used with crawler type design, the fit with the tires is tighter;

It's can effectively prevent skidding and sinking;

It' s made of 31Mn2Si material, wear-resistant and durable;

It's used with crawler type design, easier maintenance in later stage.





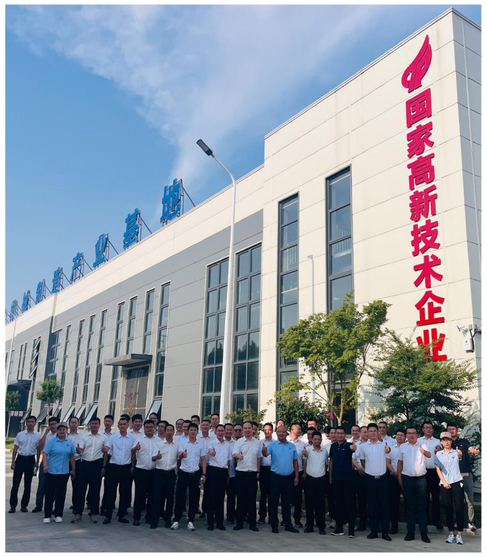




项目/型号 Item / Model	1200–20（标准充气轮胎 Standard inflatable tires）
适配机型 Applicable tonnage	双桥工程车 Double axle engineering vehicle
规格 Specification	53节/条 53Section/unit
组成配件 Assembly parts	主板、螺栓 Main plate、nut
主板材质 Main plate material	31Mn2Si
螺栓强度 Bolt strength	12.9级 12.9 grade
工艺 Technique	铸造件 Casting parts
重量 Weight	750(kg/条) 750(kg/unit)
用途 Usage	防滑、防陷 Anti puncture, Anti sinking

公司实力 / 荣誉
Company strength/honor





















































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