

DIMENSIONS

CAPACITY

28 tonne capacity on fixed lug

27.6 tonne capacity on running rope

25 tonne capacity pick and carry on lug

BOOM

6.12-18.64m high tensile

3 section full power boom

ARTICULATION

44° either side of the centre

SPEED

Max 80km/hr

MASS

Gross vehicle mass 23.9 tonne

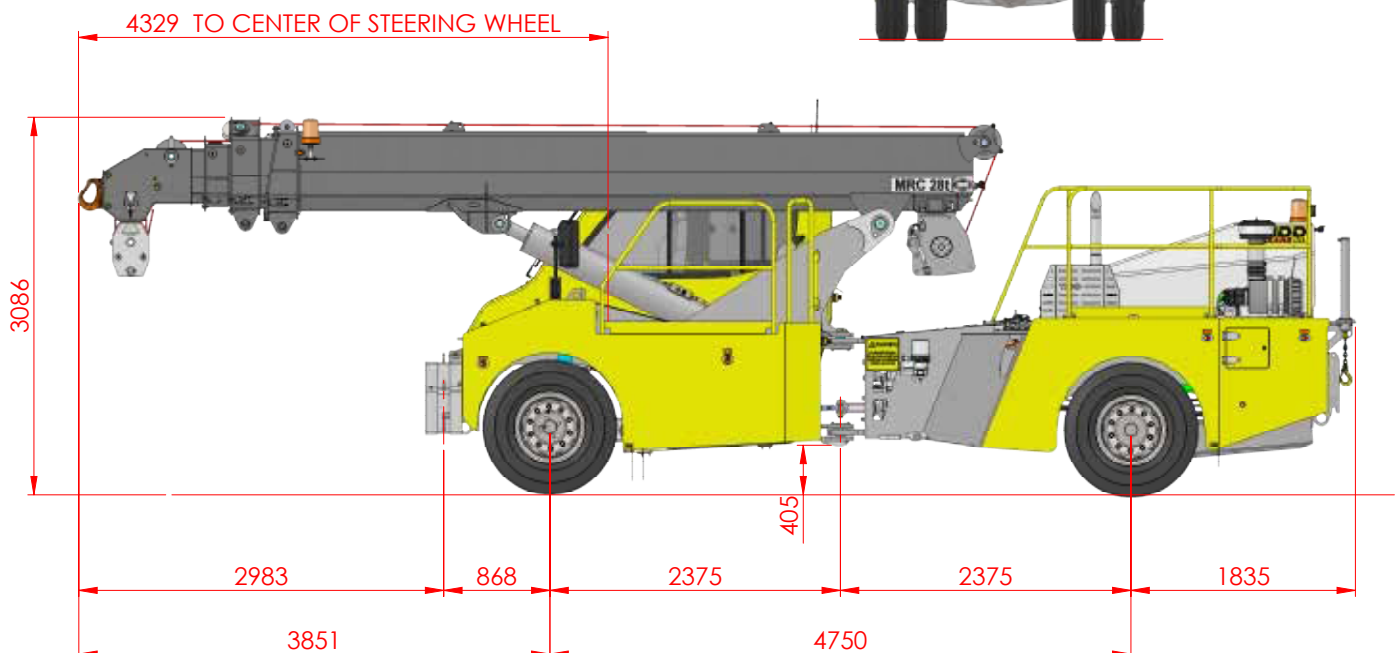
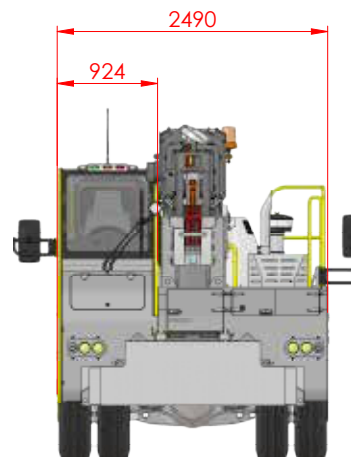
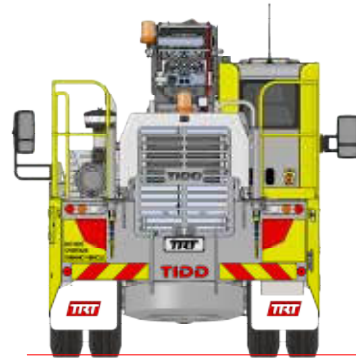
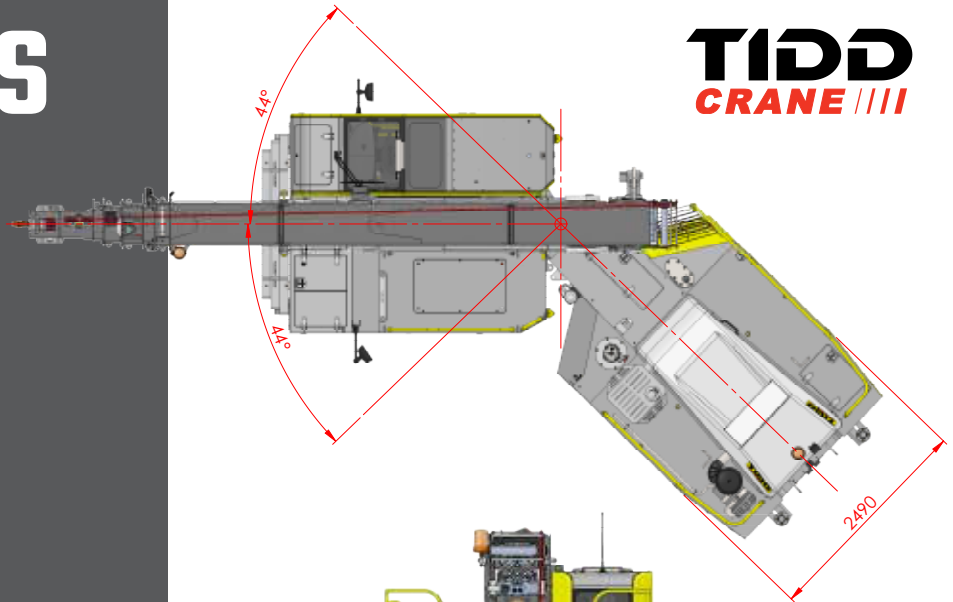
Front axle mass 11.9 tonne

Rear axle mass 12 tonne

COUNTERWEIGHT

2.3 tonne roadable, front and rear mount

TIDD
CRANE IIII



SPECIFICATIONS



The TDD PC28 is built with specialist features for construction and mining. There are a wide range of options available to tailor the crane to your operation. If the options you require are not listed below, please contact one of our experts.

CRANE

Double acting hydraulic cylinders (-6 to + 65°) with integral holding valve, allowing rigging to drop straight into the front chain box from the hook.

Anti-two block device.

Robway RCI8510 Dynamic Load Indicator with automatic cutouts and digital display.

A dash mounted deadlock switch allowing a temporary increase to 110% RC only with reduced function speeds.

A key locked Bridging switch is mounted externally on the cab limiting access to authorised persons.

Joystick control of boom and winch functions with 2-speed winch button, boom-telescoping switch proportionally controlled, and boom luffing with dead man trigger on grip.

15 tonne capacity Rhino hook.

4.6 tonne line pull Braden PD15 2-speed winch with automatic disc brakes and third wrap indicator.

14mm non-rotating wire rope x 6 falls.

15 tonne capacity spreader bar.

Large 2-sectioned chain box at the front of the crane and accessed directly from the hook.

1 tonne capacity carry deck with restraint points.

Two work lights on the boom and one rotating beacon on the boom and engine cover.

Three emergencies stop buttons, in cabin and either side of the crush zone in the articulation area.

Tri light safe load indicator on cabin roof with audible alarm.

CraneSafe inspection.

1 year warranty standard.

OPERATOR

Forward mounted cabin provides excellent vision.

Certified ROPS, 2-person cabin with double door access. (Patent No. 2012203625).

2 x 150 kg rated air suspension seats with 3-point seat belts.

Large dry storage area via the hinged cabin steps, ideal for storing soft slings.

Hand rails and access steps all have 3 points of contact at all times.

Safety glass throughout.

1.5 kg fire extinguisher.

Mirrors - placement for optimised visibility.

Reversing camera and alarm.

Air conditioning.

Bluetooth, Radio and USB Port.

RECOMMENDED OPTIONS

Slew Safe™ - Recommended - An effective system to restrict the driver from operating off the chart. With audible and visual alarms along with steering restrictions, Slew Safe cannot be over-ridden but will operate again when the load is back in the green. Accepted on many Tier 1 sites, as standard. (Patent pending 741038).

Traction Air™ CTI - Recommended - TRT's Tyre pressure management system to improve crane safety on varying road surface, maintaining the correct tyre pressure at all times. Backed by a 3 year/500,000km warranty. Contact us for more information.

DRIVELINE

Mercedes Benz OM906 six-cylinder, 6.4 litre, turbo charged, intercooled 205 kW diesel engine.

Allison 3000 series automatic transmission, 6 speeds forward.

Kessler high-speed planetary axles with diff lock on front axle.

Meritor transfer case.

Two stage engine and exhaust brake.

410 litre fuel tank with locking cap.

Automatically activated emergency hydraulic steering.

Dual line full air brakes on all wheels with ABS.

Pneumatically released spring applied emergency / park brake on all wheels.

Holding brake for front right wheel to allow slewing during stationary lifting.

Beka Max™ Auto Grease Pump.

TIDD hydro-pneumatic suspension on the front axle with hydraulic lockout for crane mode and automatic height adjustment for road mode.

Heavy duty parabolic spring suspension on rear.

High quality load sensing piston pump for hydraulic system, 305 litre hydraulic tank with filtration byway of pressure and return line filtration.

Battery isolator, external jump start terminals and starter isolator as standard.

LED 24V lighting system

Right side rear handrail for safe servicing of the engine area.

ADDITIONAL OPTIONS

Crane	25 degree offset Rhino attachment.
	Winch camera.
	1.9m offset Fly Jib with 0, 20 and 40 degree offsets.
	9.2t capacity single sheave hook block.
	Spare tyre and wheels.
	Spare tyre and wheel assembly mounted under rear chassis for safe easy access
Driveline	Super lift counterweight – releasing soon.
	Loose wheel-nut indicator.
	Exhaust spark arrestor.
Operator Comfort/Safety	Fast fill options; engine and transmission oil, hydraulic oil only and fuel only.
	FOPS certified top view glass.
	Refrigerated compartment under dogman seat.
	First aid kit.
	4.5kg or 9kg fire extinguisher left chassis mounted.
	Fire suppression system.
	UHF Radio.
	High visibility reflective tape striping to specification.
	Rear handrail – left side.

LOAD CHART 66%
PICK & CARRY



LMI DUTY 101-66

- THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 0.6°. CRANE SIDE SLOPE LARGER THAN 0.6° THE LMI WILL DERATE AUTOMATICALLY
- STABILITY AS PER AS1418.5 2013 PART 4.1.2.6.1 PICK AND CARRY 66.6% OF TIPPING LOAD
- OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- HOIST ROPE: 14MM 34 X 7 GRADE 1960 N/mm2 NON ROTATING MIN BREAKING FORCE 18400KG
- 4600KG MAX LINE PULL
- TYRE SPECIFICATION FRONT AND REAR
- SIZE 12.00 R20 CREEP LOAD RATING 8695KG @ 0.2 KPH
- STATIC LOAD RATING 9250KG @ 0 KPH
- TYRE PRESSURE 130 PSI
- MASS OF SLINGS AND HOOK BLOCK TO BE ADDED TO LOAD
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
- SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY

Table with 3 rows: Rated Capacity (kg) for 0°-10° articulation, Rated Capacity (kg) for 11°-20° articulation, Rated Capacity (kg) for 21°-44° articulation, Boom angle in degrees

REV: B
29/04/2019

Table with columns: RADIUS, BOOM LENGTH (M), 0° - 0.6° CRANE SIDE SLOPE, PC28 MOBILE CRANE: MAIN HOIST - COUNTER WEIGHT ON REAR, PICK AND CARRY. Rows 1 to 15.9.

STATIONARY

LMI DUTY **101-75**

- THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 0.6°. CRANE SIDE SLOPE LARGER THAN 0.6° THE LMI WILL DERATE AUTOMATICALLY
- STABILITY AS PER AS1418.5 2013 PART 4.1.2.6.1.1 STATIONARY 75% OF TIPPING LOAD WITH HOLD BRAKE APPLIED
- OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- HOIST ROPE: 14MM 34 X 7 GRADE 1960 N/mm2 NON ROTATING
- MIN BREAKING FORCE 18400KG
- 4600KG MAX LIME PULL
- TYRE SPECIFICATION FRONT AND REAR
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	Rated Capacity (kg) for 0°-10° articulation
	Rated Capacity (kg) for 11°-20° articulation
	Rated Capacity (kg) for 21°-44° articulation
	Boom angle in degrees

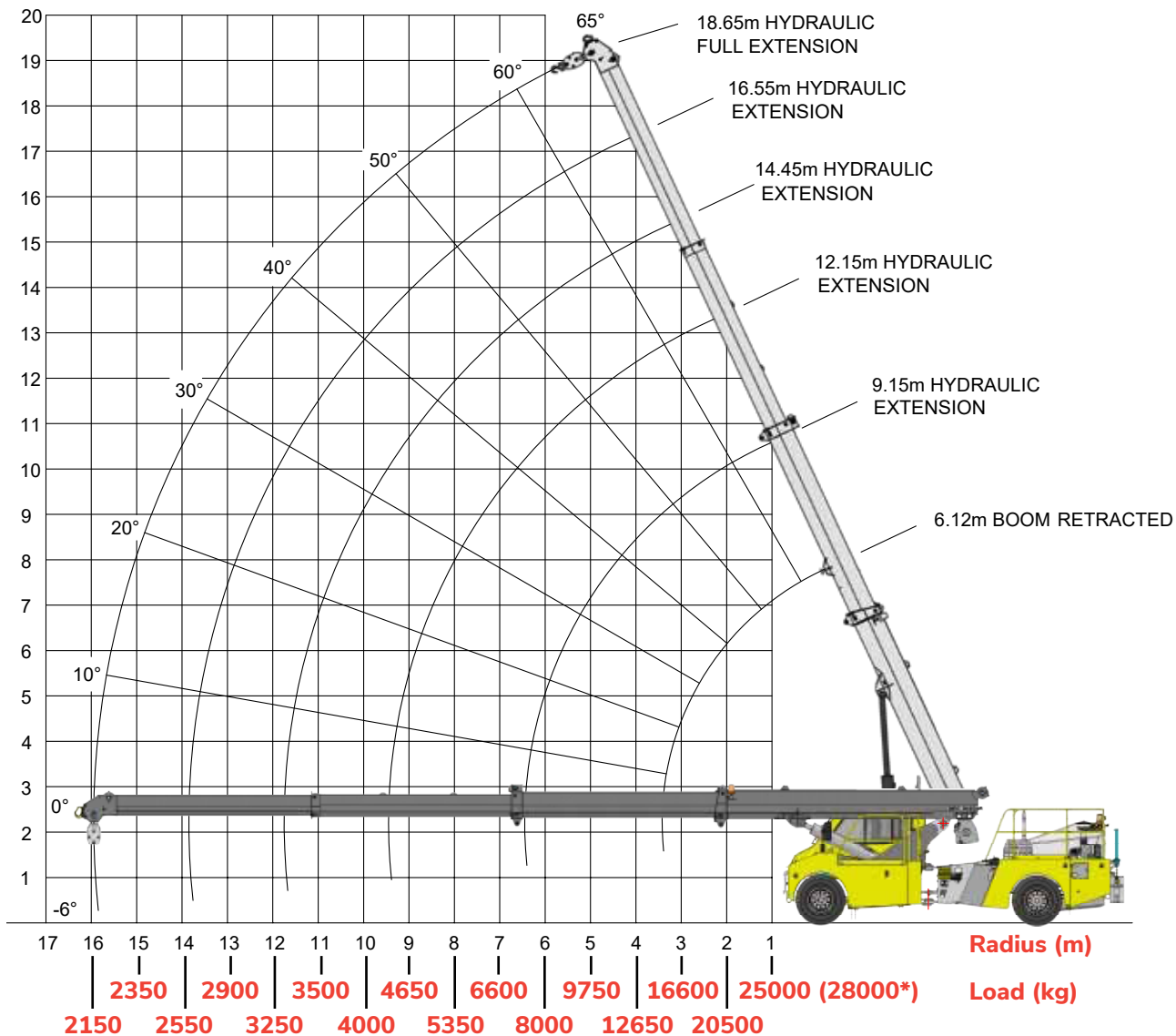
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10/05/2019

0° - 0.6° CRANE SIDE SLOPE: PC28 MOBILE CRANE: MAIN HOIST - COUNTER WEIGHT ON REAR																					STATIONARY	
RADIUS		BOOM LENGTH (M)																				
		6.12	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.45	15.50	16.50	17.50	18.64
1		21600	25000	25000	25000	25000	25000	25000														
		26320	22750	22750	22750	22750	22750	22750														
		23460	21250	21250	21250	21250	21250	21250														
		53	55	58	60	62	64	23500	23500	23500	23500	23500	23500	23500	23500	23500	23500	23500	23500	23500	23500	23500
1.5		23325	23325	23325	23325	23325	23325	23325														
		19975	19975	19975	19975	19975	19975	19975														
		47	50	53	56	60	62	64	23500	23500	23500	23500	23500	23500	23500	23500	23500	23500	23500	23500	23500	
		22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400
2		21280	21280	21280	21280	21280	21280	21280	21280	21280	21280	21280	21280	21280	21280	21280	21280	21280	21280	21280	21280	21280
		19040	19040	19040	19040	19040	19040	19040	19040	19040	19040	19040	19040	19040	19040	19040	19040	19040	19040	19040	19040	19040
		40	44	48	51	54	56	58	60	62	63											
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2.5		20302	20302	20302	20302	20302	20302	20302	20302	20302	20302	20302	20302	20302	20302	20302	20302	20302	20302	20302	20302	20302
		18165	18165	18165	18165	18165	18165	18165	18165	18165	18165	18165	18165	18165	18165	18165	18165	18165	18165	18165	18165	18165
		32	37	42	46	49	52	55	57	59	60	62	63	64								
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3		17741	17634	17528	17528	17528	17528	17528	17528	17528	17528	17528	17528	17528	17528	17528	17528	17528	17528	17528	17528	17528
		15874	15778	15683	15683	15683	15683	15683	15683	15683	15683	15683	15683	15683	15683	15683	15683	15683	15683	15683	15683	15683
		21	29	35	40	44	48	51	53	55	57	59	60	62	63	64						
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		12097	11532	11475	11284	11284	11284	11284	11284	11284	11284	11284	11284	11188	11093	10997	10949	10901				
4.5																						
5																						
6																						
7																						
8																						

WORKING RANGE

TIDD
CRANE

With counterweight on rear



NOTE: Rated capacity values shown are for the pick and carry chart. The stationary chart will give a higher rated capacity. *Stationary lifting on first lug.

After Sales Support

TRT is proud to manufacture the TIDD PC28, and we are committed to supporting our product for its warranty and beyond. The team of highly experienced TIDD service technicians and agents are available to assist operators, fleet owners and workshops with training, advice, documentation and product upgrades.

Parts

TRT stocks genuine spare parts for the TIDD PC28 in Australia and NZ. We can easily arrange overnight freight for all spares and service items to ensure the Crane is returned to service with minimal downtime.

Distributed by:

TRT reserves the right to alter specifications without notice. Photographs and drawings in this document are for illustrative purposes only. Product shown in photos contains optional features. TRT in so far as it is permitted by law to do so, shall not be liable in any way as a result of any reliance by any person on anything contained in this brochure.

Please contact us for current and detailed specifications. TRT Australia Pty Ltd / Tidd Ross Todd Ltd is the manufacturer of the TIDD PC28.

14052019

Designed & Manufactured by:



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