



**SOLIDEAL®**

# **SOLIDEAL®**

## **Construction**

## **WHEELS & RIMS**

**OFF THE ROAD WHEELS PRODUCED  
TO ETRTO, TRA AND JATMA  
STANDARDS**

### **THREE-PIECE**

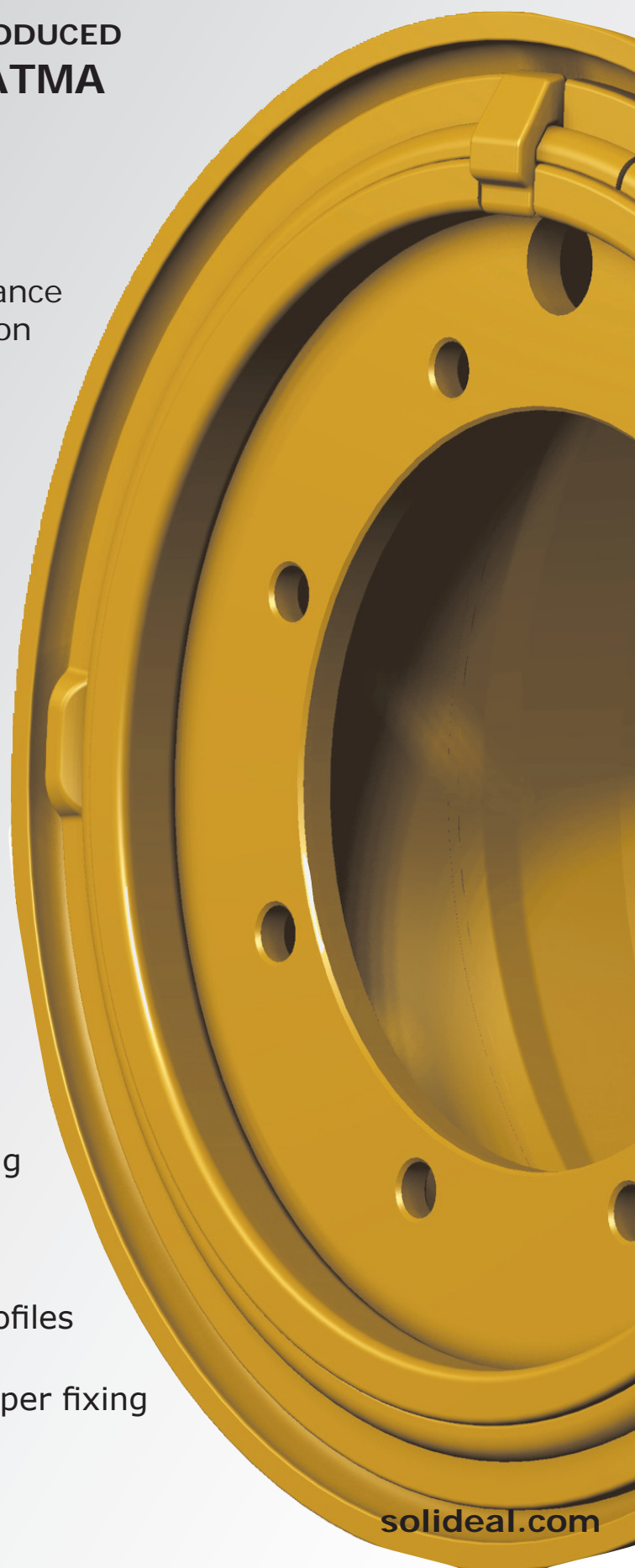
- Safe and reliable performance for all standard construction equipment
- Available in Semi-Drop Centre (SDC) and Full Tapered Bead Seat Rim Contour (TB)
- Designs for easy tire installation and precise fitment
- Fits tubeless and tube-type tires as well as solid tires

### **FOUR-PIECE**

- Heavy duty construction available in a full range of 24" both pneumatic and solid tires

### **FIVE-PIECE**

- Full range of sizes up to 29" and manufactured to fit construction and mining vehicles
- Increased bead seat thickness or heavier loose flange and fixed flange profiles for maximum durability
- Optional driver key and taper fixing are available



[solideal.com](http://solideal.com)



### 3 PIECE CONSTRUCTION WHEELS (Tube type)

RIM SIZE	VALVE TYPE	RIM THICKNESS [mm]	VERSION	TIRE SIZE
8.50V - 24 IRA	W/T	8	Std	12.00 - 24 13.00 - 24 (AIR)
9.00V - 24 IRA	W/T	8	Std	12.00 - 24 (AIR) 13.00 - 24 (AIR) 14.00 - 24 (AIR)
10.00WI - 24 IRA	W/T	8	Std - D	13.00 - 24 (AIR) 14.00 - 24

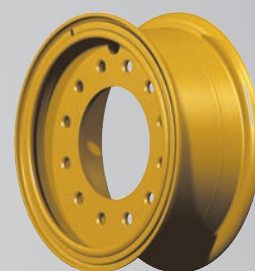
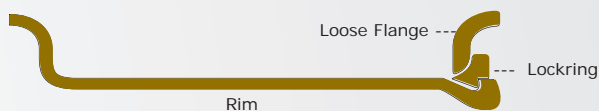
**IRA** - Interim advanced rim contour

**W/T** - With valve slot, to use with tube type tires

**Std** - Standard

**D** - Taper fixing type

#### RIM PROFILE



### 3 PIECE CONSTRUCTION WHEELS (Tube/tubeless type)

RIM SIZE	TYPE	VALVE TYPE	RIM THICKNESS [mm]	VERSION	TIRE SIZE
11.00TG - 20	SDC	W/T - T/L	6	Std	11.5-20 12.5-20 13.5-20 14.5-20
8.00TG - 24	SDC	W/T - T/L	8	Std	12.00-24TG 13.00-24TG 14.00-24TG 12.00-24TG (SOLID)
10.00VA - 24	SDC	W/T - T/L	8	Std - M - T - K	13.00-24 (AIR) 14.00-24 (AIR) 16.00-24 (AIR)
9.50 - 25 / 1.7	TB	W/T - T/L	8	Std	
10.00 - 25 / 1.5	TB	W/T - T/L	8	Std - M	14.00-25 (AIR)
11.00 - 25 / 1.7	TB	W/T - T/L	8	Std	16.00R-25
11.25 - 25 / 1.7	TB	W/T - T/L	8	Std	
12.00 - 25 / 1.3	TB	W/T - T/L	8	Std	15.50-25 (AIR)
14.00 - 25 / 1.5	TB	W/T - T/L	8	Std - K	17.50-25 (AIR)
17.00 - 25 / 1.7	TB	W/T - T/L	8	Std	20.5-25 (AIR) (Max 16PR)

**SDC** - Semi drop centre rim contour

**TB** - Full tapered bead seat rim contour

**W/T** - With valve slot, for tube type tires

**T/L** - Tubeless, with valve hole for tubeless tires

**Std** - Standard

**M** - Heavy driver key and pocket

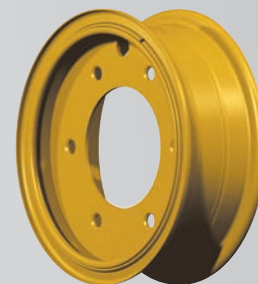
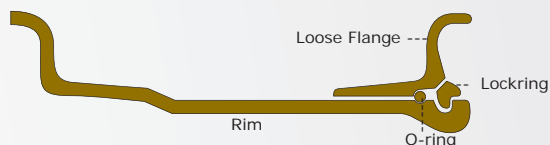
**K** - Knurling

**FR or FR(B)** - Blockreinforcement at fixed flange side

**LR or LR(B)** - Blockreinforcement at loose flange side

**T** - Turned ID of rim

#### RIM PROFILE



**Other versions on request**



### 5 PIECE CONSTRUCTION WHEELS (Tube/Tubeless type)

RIM SIZE	TYPE	VALVE TYPE	RIM THICKNESS [mm]	VERSION	TIRE SIZE
13.25-20/1.7*	TB	T/L	14	FR - LR - D	46 x 16-20
10.00-25/1.5	TB	W/T - T/L	12	Std - N- D	14.00-25
10.00-25/2.0	TB	W/T - T/L	12	Std - N- D	14.00-25
11.25-25/1.5	TB	W/T - T/L	12	Std - N - M - S - HD - LR (B) - FR(B) - LD - D - Z	
11.25-25/2.0	TB	W/T - T/L	12	Std - N - M - S - HD - LR (B) - FR(B) - LD - D - Z	14.00-25(SOLID) 16.00-25(AIR + SOLID)
13.00-25/2.5	TB	W/T - T/L	12	Std - N - M - S - HD - LR (B) - FR(B) - LD - RE - D	18.00-25(AIR) 480/95-25
14.00-25/1.5	TB	W/T - T/L	12	Std - N- D	17.50-25(AIR)
15.00-25/3.0	TB	W/T - T/L	12	Std - N - M - LR (B) - FR(B) - D	21.00-25(AIR)
17.00-25/2.0	TB	W/T - T/L	12	Std - N - M - D - HD	20.50-25(AIR)
19.50-25/2.5	TB	W/T - T/L	12	Std - M - X - D	23.50-25(AIR)
22.00-25/3.0	TB	W/T - T/L	12	Std - N - M- P - X - D	26.50-25(AIR)
25.00-25/3.5	TB	W/T - T/L	12	Std - N - M- P - L -D	29.50-25(AIR)
36.00-25/1.5	TB	W/T - T/L	12	Std	66 x 43.00 x 25/12PR
17.00-29/3.5	TB	W/T - T/L	12	Std - M - D	24.00-29
24.00-29/3.0	TB	W/T - T/L	12	Std - M - D	
25.00-29/3.0	TB	W/T - T/L	12	Std - M - D	29.50-29
24.00-29/3.5	TB	W/T - T/L	12	Std - M - D	
25.00-29/3.5	TB	W/T - T/L	12	Std - M - D	29.50-29
26.00-29/3.5	TB	W/T - T/L	12	Std - M - D	33.25-29
27.00-29/3.5	TB	W/T - T/L	12	Std - M - D	33.25-29(AIR)

**TB** - Full tapered bead seat rim contour  
**W/T** - With valve slot, to be used with tube type tires  
**T/L** - Tubeless, with valve hole for tubeless tires  
**Std** - Standard

**FR or FR(B)** - Blockreinforcement at fixed flange side  
**LR or LR(B)** - Blockreinforcement at loose flange side  
**M** - Heavy driver key and pocket

**N** - Lockring driver

**D** - Taper fixing type

**S** - Spotweld on rim

**HD** - Increased bead seat thickness (TBS)

**LD** - Reduced sidering thickness

**Z** - Increased sidering thickness

**P** - Light/short profile (bead seat) application

**RE** - Reduced rim width

**X** - Short loose flange rim profile

**L** - Surlock at advance band

**NC** - Crimped lockring driver

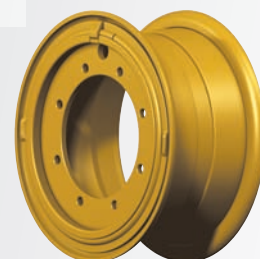
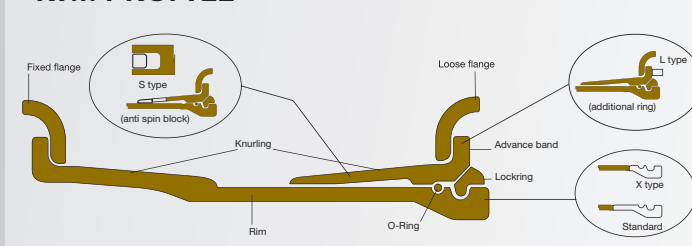
**NW** - Welded lockring driver

**FD** - Flange driver

**HL** - High Load

**DE** - Extended diameter

### RIM PROFILE



### OPTION 1:

Lockring Driver



Heavy driver pocket



Heavy driver key



### OPTION 2: Taper fixing (See page 4)



### 4 PIECE CONSTRUCTION WHEELS (Tube type)

RIM SIZE	VALVE TYPE	RIM THICKNESS [mm]	FLANGE THICKNESS (mm)	VERSION	TIRE SIZE
8.00V - 24 IRA	W/T	11	12	Std - D	12.00-24 (AIR)
8.50V - 24 IRA	W/T	11	12	Std - D - X	12.00-24 (AIR) 12.00-24 (SOLID) 13.00-24 (AIR)
9.00 - 24 IRA	W/T	11	12	Std - D	12.00-24 (AIR) 13.00-24 (AIR) 14.00-24 (AIR)
10.00 - 24 IRA	W/T	11	12 - 14	Std - HD - Reinf - D - X	14.00-24 (AIR) 14.00-24 (SOLID)
11.25 - 24 IRA	W/T	11	14	Std - D	355/85-24 48.5 x 14-24 (SOLID)
12.00 - 24 IRA	W/T	11	14	Std - D	48.5 x 14-24 (SOLID)

**IRA** - Interim advanced rim contour

**W/T** - With valve slot, for tube type tires

**Std** - Standard

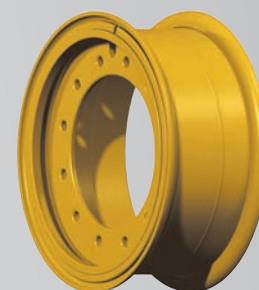
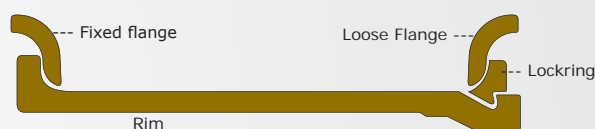
**HD** - Increased bead seat thickness or heavier Loose flange & fixed flange profile

**D** - Taper fixing type

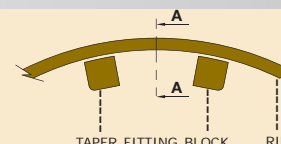
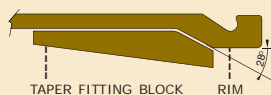
**X** - Short loose flange rim profile

**Other versions on request**

#### RIM PROFILE



#### OPTION: Taper fixing



### SAFETY & MAINTENANCE TIPS

- The wheels/tires and applications indicated in this catalogue are intended as a guide only for typical applications; please contact our representatives for verification for your specific use.

- Any tire size(s) indicated in this leaflet recommended to fit a Solideal wheel size are according to ETRTO, TRA and JATMA standards only. These recommendations are not an indication of wheel/tire capacity compatibility.

- Customers should always **check the load/speed indices** for tires, wheels and their components. If unsure, always check with the tire and/or wheel manufacturer for their recommendations.

- The incorrect use/fitting of components on construction wheels can result in wheel failure. Mounting and removal of wheels and tires should only be performed by **trained personnel**.

- Always ensure that the tires are **fully deflated** (by removing the valve core completely) before removing the wheel or its components from a vehicle, especially for multi-piece construction wheels. Avoid

standing in front of construction wheels during assembly: loose components which might spring off if damaged.

- Prior to inflation and deflation, the components of construction wheels should always be carefully checked for correct fitment and positioning. Never try to place/remove components with the use of force. **Deformed, corroded or damaged components must be replaced.** In case of incorrect fitment, demount the components and restart the mounting procedure.

- Solideal wheels are designed for earthmover and industrial applications **up to 80 km/h (50mph)**.

- The inflation/deflation of multi-piece construction wheels must only be carried out by fully trained personnel, who should follow exactly the instructions provided by the wheel and tire manufacturers as well as government safety regulations. Safety cages and bars must be used in all applications in conjunction with remote inflation gauges.

INFORMATION IN THIS LEAFLET IS SUBJECT TO CHANGE.

SAFETY AND MAINTENANCE TIPS ARE RECOMMENDED AS A GUIDE AND SHOULD NOT BE SUBSTITUTED FOR PROFESSIONAL TRAINING. SOLIDEAL WILL NOT BE RESPONSIBLE FOR MISUSE OF WHEEL PRODUCTS.

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