



**IMT**

**TIREHAND™**



**MINING & CONSTRUCTION**  
SERIES

**Uptime  
in no time.**

# Two days is a long time to spend changing a tire

## We work hard. To make your hard work easy.

IMT's TireHand™ is the quickest, most efficient way to install and rotate the massive tires your business runs on.

It's also the smartest way to get the job done. Extensive input from customers like you is a big reason why.

Our engineers work closely with customers to develop products designed and engineered specifically for their unique tire service needs. Equipment managers want faster tire changes for more uptime from their primary equipment. Tire maintenance technicians want a single machine to handle all their tire handling tasks. And safety personnel want to protect their crews at all costs.

The results include SiteStar™ mobile lubrication systems, Dominator™ field service packages and TireHand – a piece of equipment that can turn two days worth of work for an entire service crew into just two hours work for a single person. While the first IMT TireHand was introduced in 1972, there's still nothing else like it on the market. Once you take a closer look at its extensive list of exclusive features, you'll understand why.

### More choices.

The IMT TireHand family is uniquely qualified to handle all your OTR tire needs. Only the IMT TireHand offers you a choice of loader-mounted, forklift-mounted or hydraulic crane-mounted models to assure a perfect fit with your specific application.

### A wider range of capacities.

Because size and weight requirements vary, our eight TireHand models feature the widest capacity ranges in the business. TireHands accommodate tires from 25" to 164" in diameter and up to 25,000 lbs. Based on the trend towards larger equipment and tires, we've even anticipated your future needs. The lift capacity of our largest TireHand, the 3565, exceeds current maximum tire weights.

### A more natural, more efficient approach.

Efficient installation still comes down to one critical factor – precision placement. The more precise you can be, the faster and easier the entire process is. That's why IMT TireHands offer an unbeatable combination of features to deliver an unmatched range of motion. It's the ultimate in control. A more natural, more efficient way for an operator to hydraulically grip, pull, lift, turn and position a tire. And the operator can do it all from the security of the control console.



## Forklift truck or loader mounted.

### Off-road. On-site. In the shop. Or the yard.

IMT TireHands can go wherever they're needed. Optional quick coupler attachments mean you don't even need a dedicated piece of equipment for it. There are four loader or forklift models in all. Simply choose the one that covers your full range of capacity requirements and couple it to an appropriately sized wheel loader or forklift.



Every TireHand is designed to provide the operator with an excellent field of view from the cab, both during transport and installation or removal procedures. And that visibility can contribute to your bottom line two ways. It helps improve overall efficiency, ensuring equipment

uptime in no time. Plus, it helps prevent damage to costly rims and wheel assemblies in the process.



**Quick-coupler system means you don't even need a dedicated piece of equipment for your TireHand.**

## Crane mounted.



### Multiple sites? No problem.

If you have multiple sites to service, IMT has the solution for you. Our TireHandler™ packages are true mobile tire service centers specifically designed for your long distance, large tire jobs. There are four different models to choose from, so one package can effectively cover all your large tire handling needs.

Each complete TireHandler package integrates our rugged, reliable TireHand with an extra-durable, heavy-duty IMT crane. Together they operate as one precision instrument, effortlessly handling your biggest jobs. The lift system is mounted on a super-tough, stress-absorbing frame designed for on-site conditions, as well as the highway.

Reinforced steel skirting increases overall body strength, while helping protect the underbody storage compartments. Outriggers offer added stability. There's even an IMT Diamond Air™ compressor on-board and plenty of tool storage space. Everything you need in one very convenient, very reliable package.



# It's also a thing of the past.

## Superior body rotation.

While competitive systems offer a very limited range of body rotation, IMT TireHands provide up to 390° of body rotation. This exceptional operating flexibility enables the operator to make adjustments quickly and effortlessly on the fly.

## Exclusive, continuous pad rotation.

Pad rotation makes it easy to properly align tire and rim assemblies with the wheel. Plus, our full 360° of pad rotation streamlines the entire tire handling procedure into one smooth, continuous motion. While the tire is being raised, the pads can be simultaneously rotated into position for faster, more efficient installation.

## Convenient lateral shifting capability.

Every TireHand features lateral movement. This means an operator doesn't have to waste precious time repeatedly jockeying for the perfect approach. The operator simply moves the TireHand into the general vicinity and adjusts it on the spot, for final precise positioning.

## IMT tough.

Like all IMT products, TireHands are built for long, productive careers in some of the harshest, most miserable work environments you can imagine. Our rugged components don't even give



Only IMT TireHands provide up to 390° of body rotation.



Continuous pad rotation simplifies alignment procedures.



Lateral shifting makes it easy to get the job done on the first pass.

corrosion a fighting chance. They're painted inside and out before assembly with DuPont's Imron® 5000 polyurethane for more complete paint coverage.

And it's baked on for a lasting finish.

The IMT TireHand is available as an attachment for forklifts or wheel loaders, or as part of a complete IMT TireHandler™ package, like the 32018 shown here.



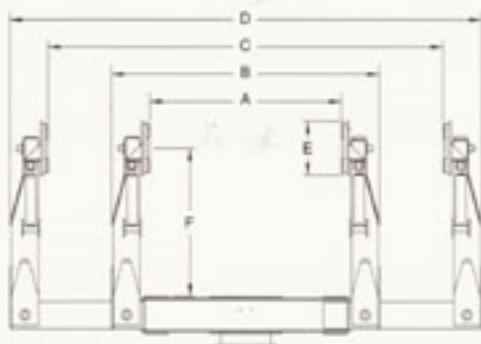


Figure 1

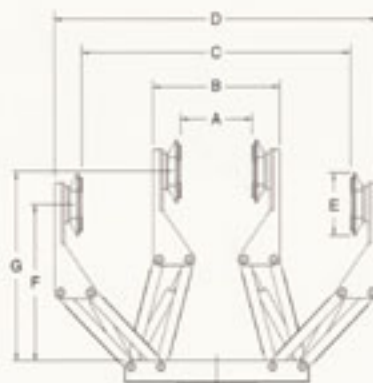


Figure 2

TireHand model	TH7	TH10	TH14	TH15B	1449A	2551B	2557B	3565	
IMT crane model	7415	12916	20017	32018	N/A	N/A	N/A	N/A	
Loader model	N/A	N/A	N/A	N/A	Cat 950	Cat 966D	Cat 980C	Cat 988	
Forklift truck capacity — lbs. (kg)	N/A	N/A	N/A	N/A	15000 (6804)	33000 (14969)	36000 (16330)	55000 (24948)	
<b>Dimensions — inches (cm)</b>	<b>Figure 1</b>	<b>Figure 1</b>	<b>Figure 1</b>	<b>Figure 2</b>	<b>Figure 1</b>	<b>Figure 2</b>	<b>Figure 2</b>	<b>Figure 2</b>	
A Minimum inside opening	50 (127)	55 (140)	64 (163)	60 (152.4)	50 (127)	52 (132)	43 (109.2)	41 (104.1)	
B Maximum inside opening	106 (269)	115 (292)	132 (335)	155 (393.7)	110 (279)	135 (343)	160 (406.4)	164 (416.6)	
C Minimum outside opening	64.5 (164)	71.25 (181)	88.75 (225)	92 (233.7)	66 (168)	84 (213.4)	75 (190.5)	73 (185.4)	
D Maximum outside opening	120.5 (306)	131.25 (333)	156.75 (398)	187 (475)	126 (320)	167 (424.2)	192 (487.7)	196 (497.8)	
E Gripper width	20 (50.8)	24 (61)	18 (45.7)	24 (61)	18 (45.7)	24 (61)	24 (61)	36 (91.4)	
F Rotation clearance	25.12 (63.8)	32.75 (83.2)	49.5 (126)	72 (182.9)	55 (140)	62 (157.5)	71 (180)	84 (213.4)	
G Rotation clearance	—	—	—	92 (233.7)	77.75 (197)	78 (198)	91 (231)	103 (261.6)	
<b>Specifications</b>									
Narrow base	Tire size	18.00-25 thru 24.00-49	18.00-25 thru 27.00-49	18.00-25 thru 36.00-51	18.00-25 thru 40.00-57	18.00-25 thru 27.00-49	18.00-25 thru 36.00-51	18.00-25 thru 40.00-57	18.00-25 thru 48/95R57
	Min. - Max. tire dia. — inches (cm)	66 thru 101 (167.6 thru 256.5)	66 thru 107 (167.6 thru 271.8)	60 thru 129 (152.4 thru 327.7)	66 thru 143 (167.6 thru 363.2)	66 thru 107 (167.6 thru 271.8)	66 thru 129 (167.6 thru 327.7)	66 thru 143 (167.6 thru 363.2)	66 thru 154 (167.6 thru 391.2)
Wide base	Tire size	26.5-29 thru 38-39	26.5-29 thru 40/65-39	23.5-25 thru 50/65-51	23.5-25 thru 55.5/85-57	26.5-29 thru 37.5-39	26.5-29 thru 50/65-51	23.5-25 thru 53.5/85-57	23.5-25 thru 57.5/85-57
	Min. - Max. tire dia. — inches (cm)	76 thru 95 (193 thru 241.3)	76 thru 96 (193 thru 243.8)	66 thru 129 (167.6 thru 327.7)	66 thru 154 (167.6 thru 391.2)	76 thru 100 (193 thru 254)	76 thru 122 (193 thru 309.9)	66 thru 154 (167.6 thru 391.2)	66 thru 154 (167.6 thru 391.2)
Maximum capacity — lbs. (kg)	3000 (1361)	5000 (2268)	8000 (3629)	12000 (5443)	4200 (1905)	10000 (4536)	13000 (5897)	25000 (11340)	
Body rotation — degrees	300*	342*	342*	350*	350*	350*	350*	390*	
Clamping span — inches (cm)	50 to 106 (127 to 269.2)	55 to 115 (139.7 to 292.1)	64 to 132 (162.6 to 335.3)	60 to 155 (152.4 to 393.7)	50 to 110 (127 to 279.4)	52 to 135 (132.1 to 342.9)	43 to 160 (109.2 to 406.4)	41 to 164 (104 to 417)	
Method of clamping	Horizontally telescoping	Horizontally telescoping	Horizontally telescoping	Parallelogram	Horizontally telescoping	Parallelogram	Parallelogram	Parallelogram	
Clamping pad rotation — degrees	None Stationary	None Stationary	90°	360° continuous	120°	360° continuous	360° continuous	360° continuous	
Rotation system	Spur gear drive					Dual motor single spur gear drive		Dual spur gear drives	
TireHand weight — lbs. (kg)	1200 (544)	1750 (749)	3400 (1542)	4870 (2209)	2020 (916.3)	8640 (3920)	6300† 8100†† (2858) (3674)	16600 (7530)	

\* Forklift style without side-shift.

†† Loader style with side-shift.

**Building Lasting Values**



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