

# SAFETECH

Welcome to an introduction to one of Safetech's many materials handling products. This attachment provides a product overview and should assist you to make a more informed purchasing decision.

Below you will find:

- Detailed product information
- Technical Specifications
- Product pictures
- A link to the Safetech website for further information



## GORBEL WORKSTATION CRANES

One of the most efficient ways to reduce workplace manual handling whilst retaining floor space and layout flexibility is by installing an overhead workstation crane system.

Work Station cranes are a proven way to improve productivity, increase quality, and provide a safer work environment. They are three times easier to use than traditional I beam cranes and allow for safe lifting and product handling over a large area – effectively creating a “safe work cell” for users. A study conducted by the Human Factors Laboratory at Rochester Institute of Technology\* for Gorbelt shows that work station cranes increase productivity up to 28 percent compared with I-beam cranes.

The ergonomic work zone created by a work station crane has the added advantage of freeing up floor space for production. All lifting tasks within the work cell are accessible by the crane. The ease of movement is the same throughout the entire work cell - unlike other crane systems that tend to bind and are more difficult to move when the load is in the corner of the work cell or off to the side.



*Automotive*



*Metal Fabrication*

# HOW DO GORBEL ERGONOMIC CRANES WORK?

Work station cranes are designed with a simple focus: to lift a load with minimal effort and maximum efficiency. All of the components in a Gorbel enclosed track workstation are engineered to reduce friction and weight. This creates a crane that is easy to use yet retains precision and speed when moving a workload.

Important elements of the Gorbel workstation include;

- Industry leading 5 year warranty
- 2 degree taper of the track running flange and wheels helps to centre the trolley for smooth, effortless movement
- Enclosed track design virtually eliminates dirt and dust from the rolling surface. This reduces wear on the trolley wheels and end trucks.
- The smooth running surface reduces rolling resistance.
- Low profile of the steel track allows system installation where headroom is a problem.
- The low track weight reduces the applied forces exerted on the supporting structure.
- Long spans allow systems to be installed where hanging points are infrequent.
- Five capacities (125 kg, 250 kg, 500 kg, 1,000 kg., and 2,000 kg.) enable bridge weights and costs to be kept to a minimum.
- Unique DuraComp 4 wheels that outperform steel wheels in endurance and lower rolling resistance.



*Automotive Machining*



*Distribution centre. Palletising with side by side freestanding cranes.*

## CEILING MOUNTED WORK STATION BRIDGE CRANE

- Incorporates two parallel runways suspended from the building ceiling along which the bridge can travel. A hoist trolley or end effector attaches to the bridge thus providing full lifting coverage over the entire work area.
- Multiple bridges can be hung from runways. Capacities of the individual bridges may vary according to need and the layout.
- Ceiling mounted cranes don't require any floor space.



*Timber Mill*

## FREE STANDING WORK STATION BRIDGE CRANE

- When the crane can't be attached to the building columns can be used to create a freestanding structure that supports the runways and bridges.
- Incorporates two parallel runways suspended from the building ceiling along which the bridge can travel. A hoist trolley or end effector attaches to the bridge thus providing full lifting coverage over the entire work area.
- Mixed designs can incorporate freestanding columns on one side and attach to the ceiling on the other side
- Multiple bridges can be hung from runways. Capacities of the individual bridges may vary according to need and the layout.



*Multiple cranes at an industrial equipment manufacturer. Several of these cranes were relocated from a previous site.*



## MONORAILS – FREESTANDING, CEILING MOUNTED

- A single runway, either ceiling mounted or freestanding along which hoist trolleys can travel.
- Can be used in conjunction with bridge cranes to create more complex solutions to product handling problems.
- Monorails available in capacities up to 2,000 kg's.



*Chemical Handling*

## JIBS – FREESTANDING OR WALL MOUNTED

- Jibs provide full lifting coverage over a circular work area.
- They can be mounted to the floor or the wall. If floor mounted the concrete must be of sufficient quality and depth to support the footing.
- Jibs available in capacities up to 500 kg's



## JIBS – ARTICULATED

- Articulating Jib Cranes can position loads in places you cannot reach with traditional jibs.
- Free Standing Articulating Jibs can rotate up to 360° on the primary boom and 260° on the secondary boom.
- Ideal when it comes to positioning and spotting loads around an obstruction, through an open doorway, or rotating in close to the free standing mast.



# SELECTING THE RIGHT GORBEL WORKSTATION CRANE

To help us design the right crane we will require the following information:

- a. Are you considering a jib crane or a gantry crane? Does the gantry crane need to be ceiling mounted or freestanding?
- b. What capacity do you require?
- c. What are the dimensions of the floor area that the crane needs to cover?
- d. How much clearance is needed below the hoist?
- e. Do you require more than one bridge per gantry crane?
- f. Do you have a particular type of hoist in mind (manual vs electric)?

The answers to the above questions will allow us to customise the design to your needs.

## SPECIFICATIONS

<b>CRANE</b>	<b>CAPACITY</b>	<b>BRIDGE LENGTH</b>	<b>RUNWAY LENGTH</b>
	<b>kgs</b>	<b>metres</b>	<b>metres</b>
Ceiling Mounted	125	8.5	31.4
or Free Standing	250	10.3	37.8
	500	10.3	37.8
	1,000	10.3	37.8
	2,000	8.5	31.4

<b>CRANE</b>	<b>CAPACITY</b>	<b>HUB (HEIGHT)</b>	<b>SPAN (LENGTH)</b>
	<b>kgs</b>	<b>metres</b>	<b>metres</b>
Jibs freestanding	125	4.3	4.9
	250	4.3	4.9
	500	4.3	4.9



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# SAFETECH

## PRODUCT RANGE

Safetech manufacture a wide range of materials handling and pallet wrapping equipment. If you would like more information about products in the following categories then please contact us.

### LIFTING AND LEVELLING



### OVERHEAD HANDLING SYSTEMS

### COMPLETE STRETCH WRAPPING



### PALLET HANDLING

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