

HEBEWUNDER CASTOR



This gizmo uses compressed air to lift scenery over 40 mm.

Click [here](#) to see the Hebewunder in action on YouTube.

Hebewunder Castor [up to 400 kg] The Hebewunder is the perfect choice of castor to move heavy scenic trucks around the stage. Probably the biggest advantage of using the Hebewunder over braked castors is the fact that the truck will sit firmly on the floor when it is lowered into place. This ensures a well spread load and therefore great stability with no chance of accidental movement. Leaving built scenic pieces on braked castors during performance can result in the floor flexing due to the high point loading. This could translate into "wobbly scenery" from the audience's point of view or delayed scene changes because of the difficulty to marry up bolt holes or fixings. Each Hebewunder can lift 400 kg by means of compressed air. The triple swivel castors have the advantages of ensuring a minimal offset for easy initial rolling, good load spreading and excellent track jumping capabilities. The 50 mm castors employed on these units have solid aluminium wheels fitted with bearings and 92° Shore Vulkollan® tyres. This allows great load bearing while maintaining a useful low overall height.

When rolling:

- ✓ Smooth motion
- ✓ Easy directional changes
- ✓ Wide tread width easily jumps stage tracks
- ✓ Low profile
- ✓ High weight load
- ✓ Quiet
- ✓ Hard wearing treads

When stopped:

- ✓ Whole truck lowers to the ground anchoring it solidly
- ✓ Weight load spreads across the stage to avoid castors resting on spongy planks
- ✓ Ideal for musicals and dance routines when braked castors might skid
- ✓ No chance of hydraulic fluid leaks - run on air only
- ✓ When the truck is lowered the base area increases greatly improving static stability
- ✓ Actors can manoeuvre heavy trucks with ease and brake them with push button ease
- ✓ Circuitry can be arranged so that control can be operated from either end of trucks
- ✓ Lowered truck reduces step height [as low as 160 mm]

During construction:

- ✓ Easy to fit
- ✓ Full drawings available
- ✓ All parts available from Flints
- ✓ Everything normally available from stock
- ✓ Larger tanks can be hidden inside built units
- ✓ Smaller tanks can fit under the truck
- ✓ Everything bolts, screws or push fits together
- ✓ No prototyping or time consuming experiments

Wheel Type	For	Against	Typical Use
Vulkollan® Vulkollan® is the registered trademark of Bayer AG. It is a high performance polyurethane elastomer based on Vulkollan® polyols and Desmodur® 15.	Quiet, high tear strength, 10 times the working life and 3 times the load carrying of rubber, low rolling resistance, excellent recovery from static periods	Expensive	All uses but especially heavy scenery used during performance

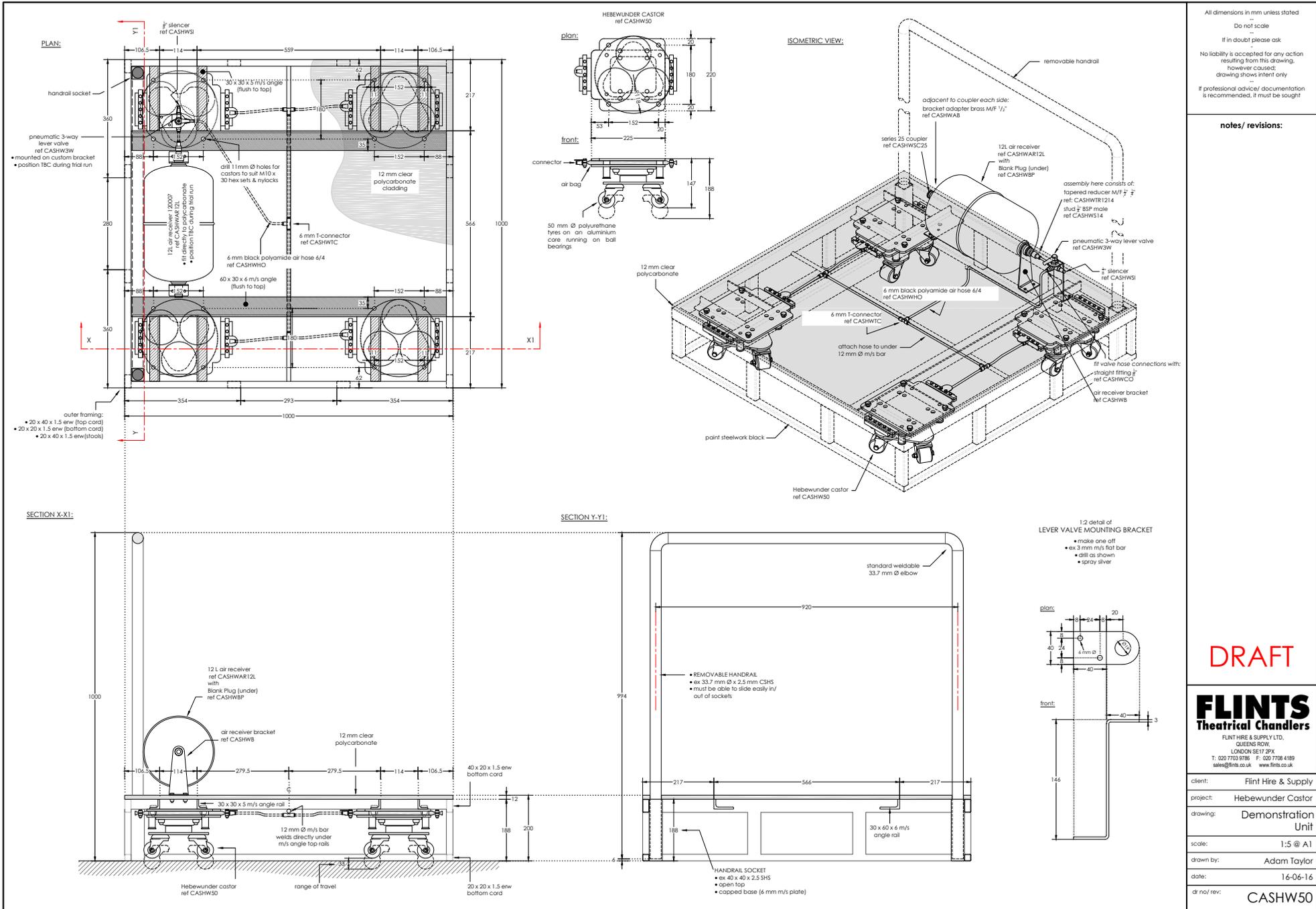
Hebewunder Castor Accessories

Flints can supply all the accessories necessary.

Hebewunder Accessories	quantity needed to make the truck overleaf	code	price
 Air Receiver 12 L 4-Port M 1/2" [other sizes available]	1	CASHWAR12L	£172.29
Blank Plug	1	CASHWBP	£1.96
 Tapered Reducer M/F 1/2" 1/8" [for Pressure Gauge]	1	CASHWTR1218	£2.43
Pressure Gauge 50 mm [up to 11 bar] [needs CASHWTR1218]	1	CASHWPG	£4.97
Bracket Adapter Brass M/F 1/2" BSP	2	CASHWAB	£4.75
BZP Bracket for Receiver	2	CASHWB	£15.95
Fibre Washer	2	CASHW12W	£1.20
Series 25 Coupler M 1/2" BSPT	1	CASHWSC25	£10.73
 Tapered Reducer M/F 1/2" 1/4"	1	CASHWTR1214	£2.15
6 mm Stud 1/4" BSP	1	CASHWS14	£3.12
3-Way Ball Valve 1/8"	1	CASHW3W	£66.68
Connector 1/8" BSPP [for 6 mm hose]	2	CASHWCO	£2.57
Silencer	1	CASHWSI	£2.89
6 mm Polyamide Black Air Hose 25 m [boxed]	1	CASHWHO	£19.30
T-Connector for 6 mm Hose	3	CASHWTC	£5.17
 P.T.F.E. tape 10 mm x 5 m	n/a	TAP077	£0.90

Hebewunder Castor	wheel diameter	load	overall height		swivel radius	tread width	weight	top plate dimensions		holes		code	price
			min	max				width	length [includes air supply]	centres	Ø		
 50	50 mm	400 kg	147 mm	188 mm	250 mm	40 mm	9 kg	220 mm	330 mm	180 x 150 mm	11.5 mm	CASHW50	£423.52

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All dimensions in mm unless stated
Do not scale
If in doubt please ask
No liability is accepted for any action resulting from this drawing, however caused: drawing shows intent only
If professional advice/documentation is recommended, it must be sought

notes/ revisions:

DRAFT

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client:	Flint Hire & Supply
project:	Hebewunder Castor
drawing:	Demonstration Unit
scale:	1:5 @ A1
drawn by:	Adam Taylor
date:	16-06-16
dr no/ rev:	CASHW50

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