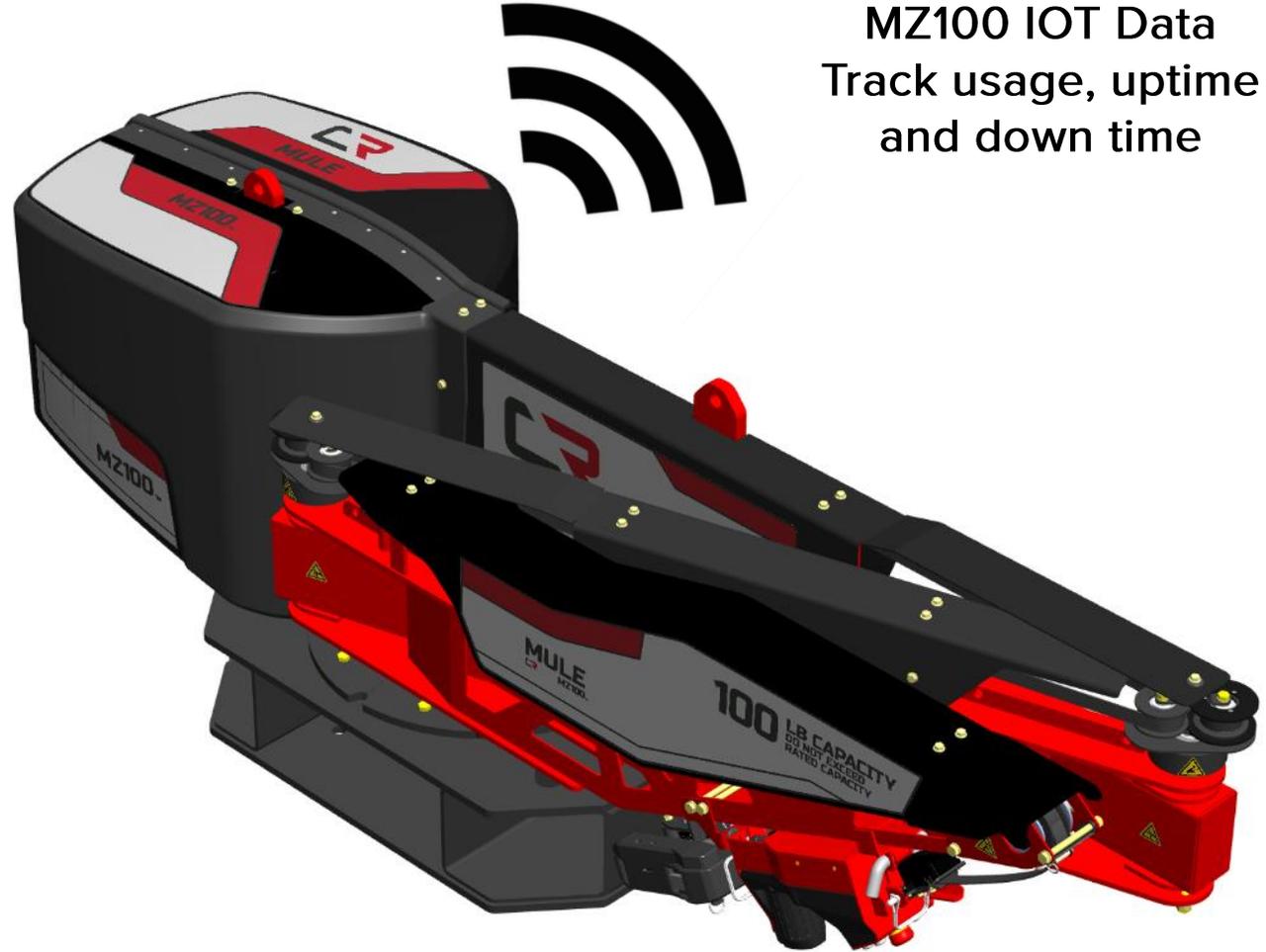


MZ100 OVERVIEW

 **CONSTRUCTION
ROBOTICS™**
BUILD SMART

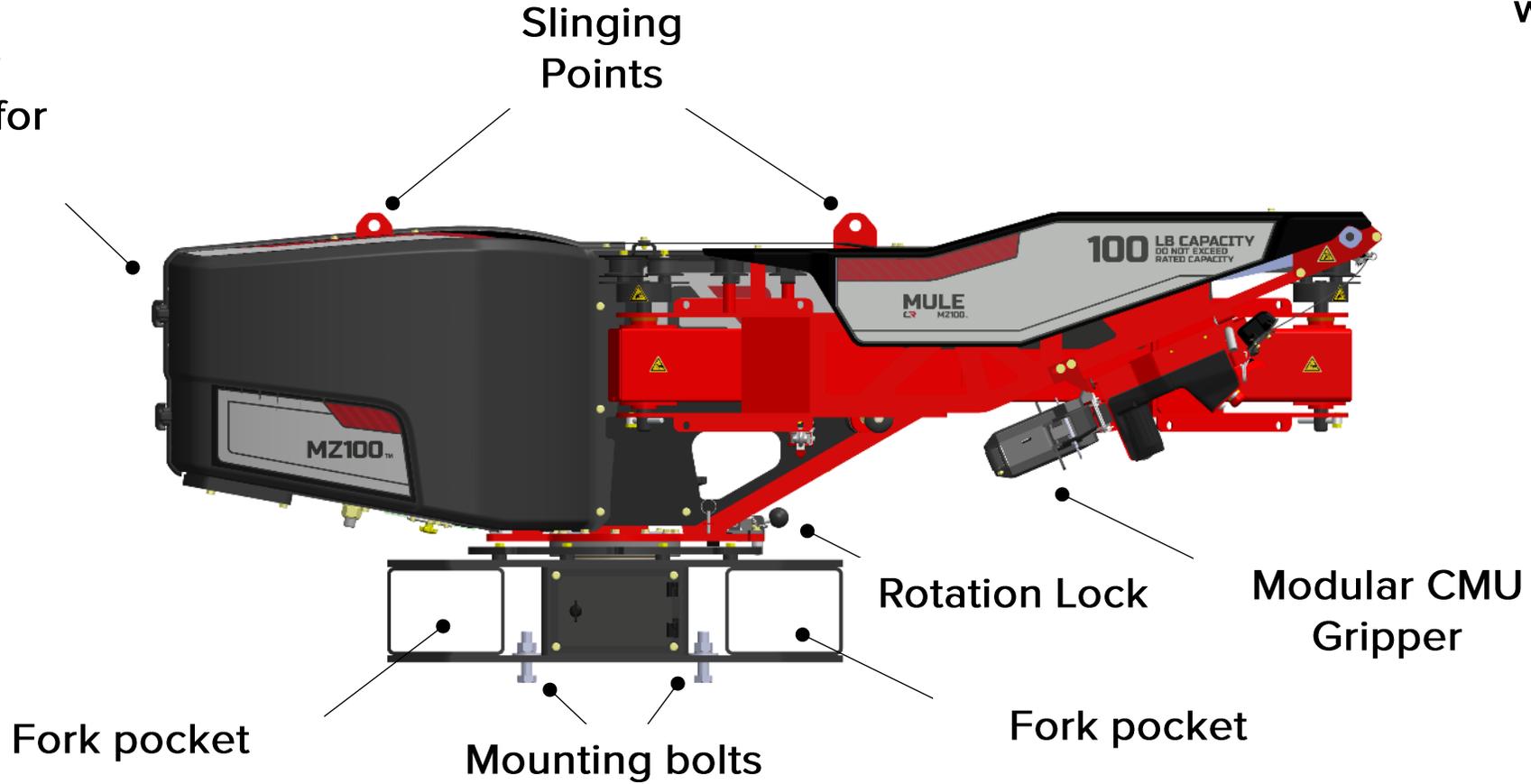
	MZ100
Machine Weight	809 lb. / 367 kg
Lifting Capacity	100 lb. / 45 kg
Reach Radius	12 ft. / 3.65 m
Vertical Travel / Reach	20 ft. / 6.09 m
Head Height Clearance	2 ft. 2 in. / 0.66 m
Height	2 ft. 7 in. / 0.78 m
Width	1 ft. 10 in. / 0.81 m
Length	14 ft 7 in / 3.83 m
Stowed Length	6 ft. 11 in. / 2.10 m
Stowed Width	2 ft. 4 in. / 0.71 m
Power	Battery / 120V AC

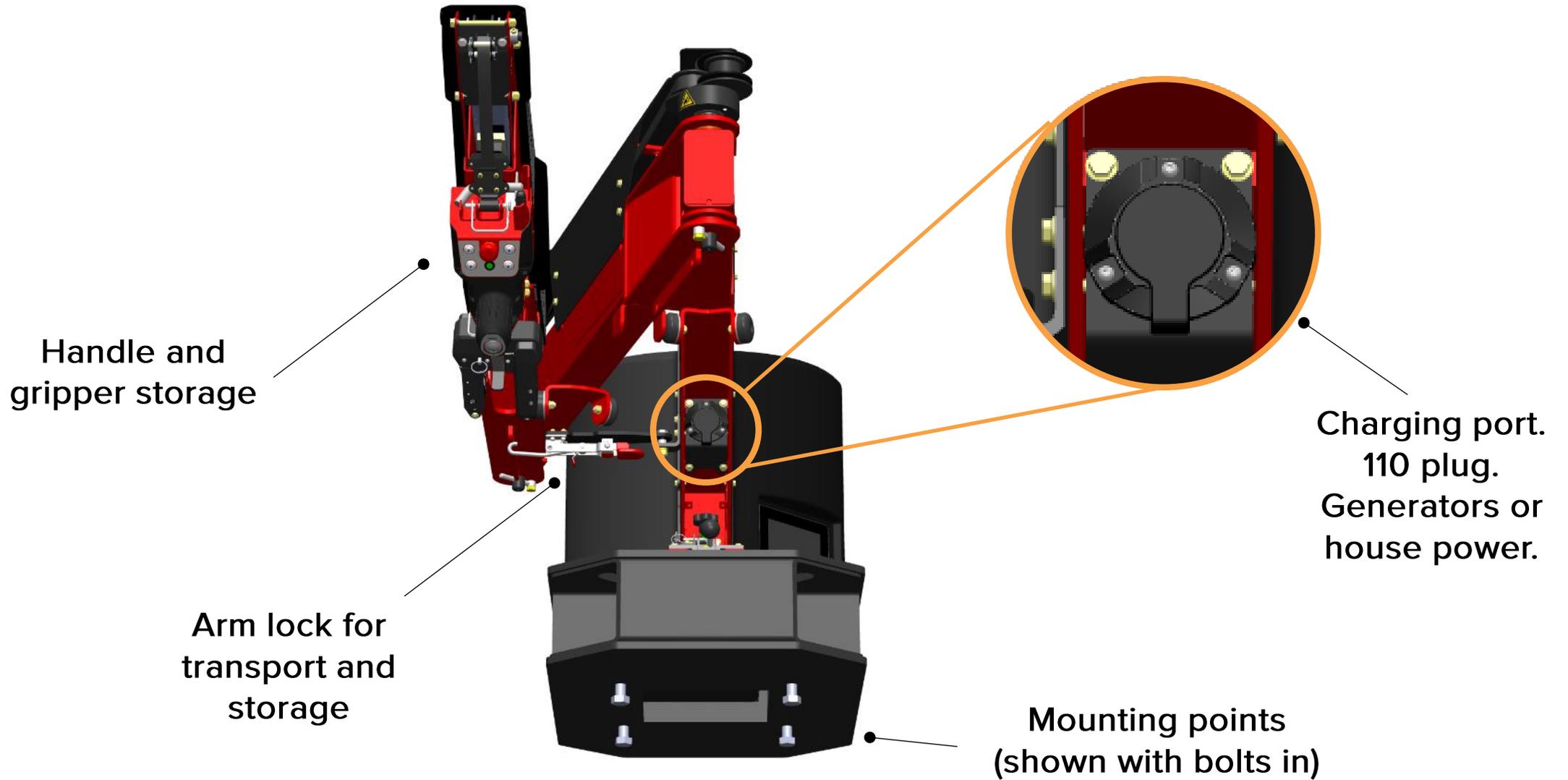


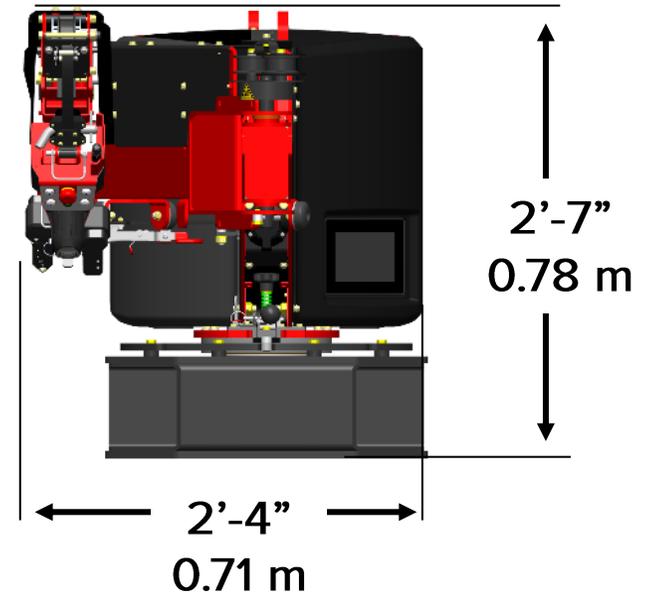
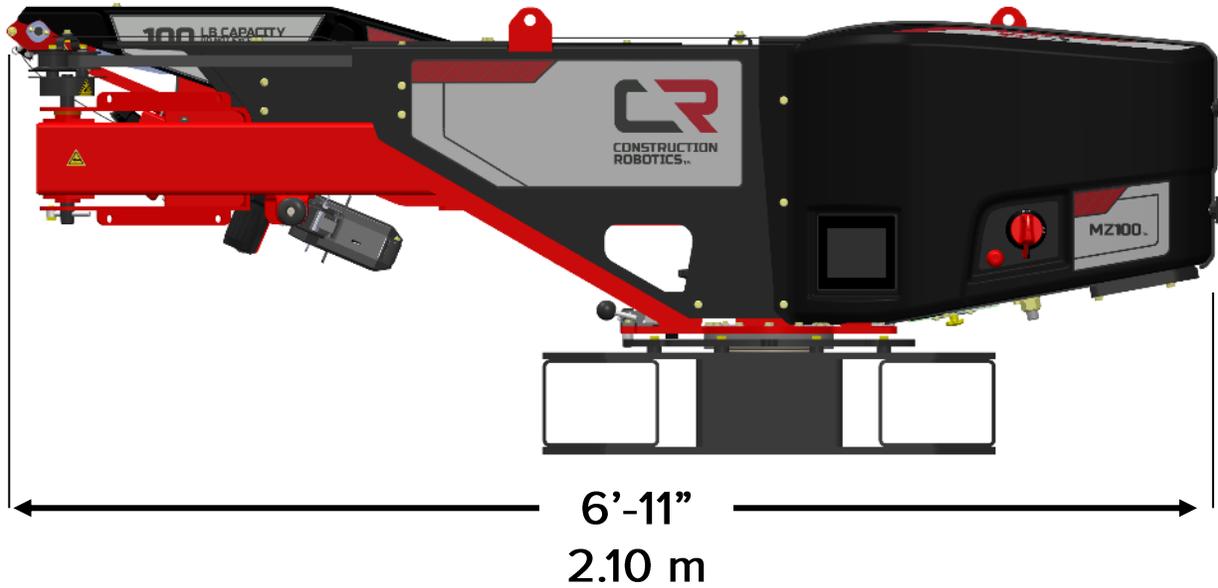
MZ100 IOT Data
Track usage, uptime
and down time

Lithium ion Battery.
~32 hours of operation per charge. 3.5 hrs for full charge

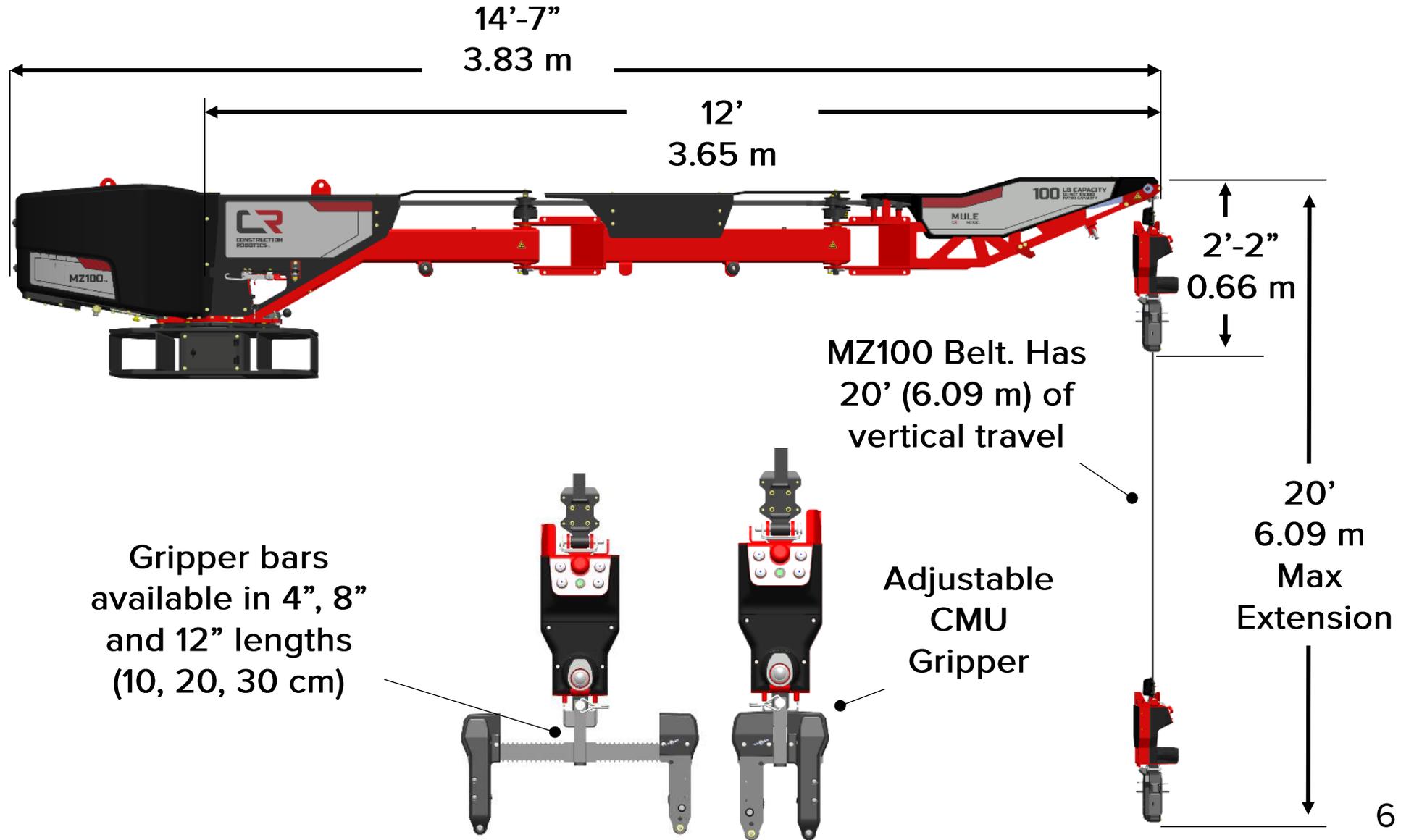
MZ100 as shown weighs 809 lbs (367 kg)

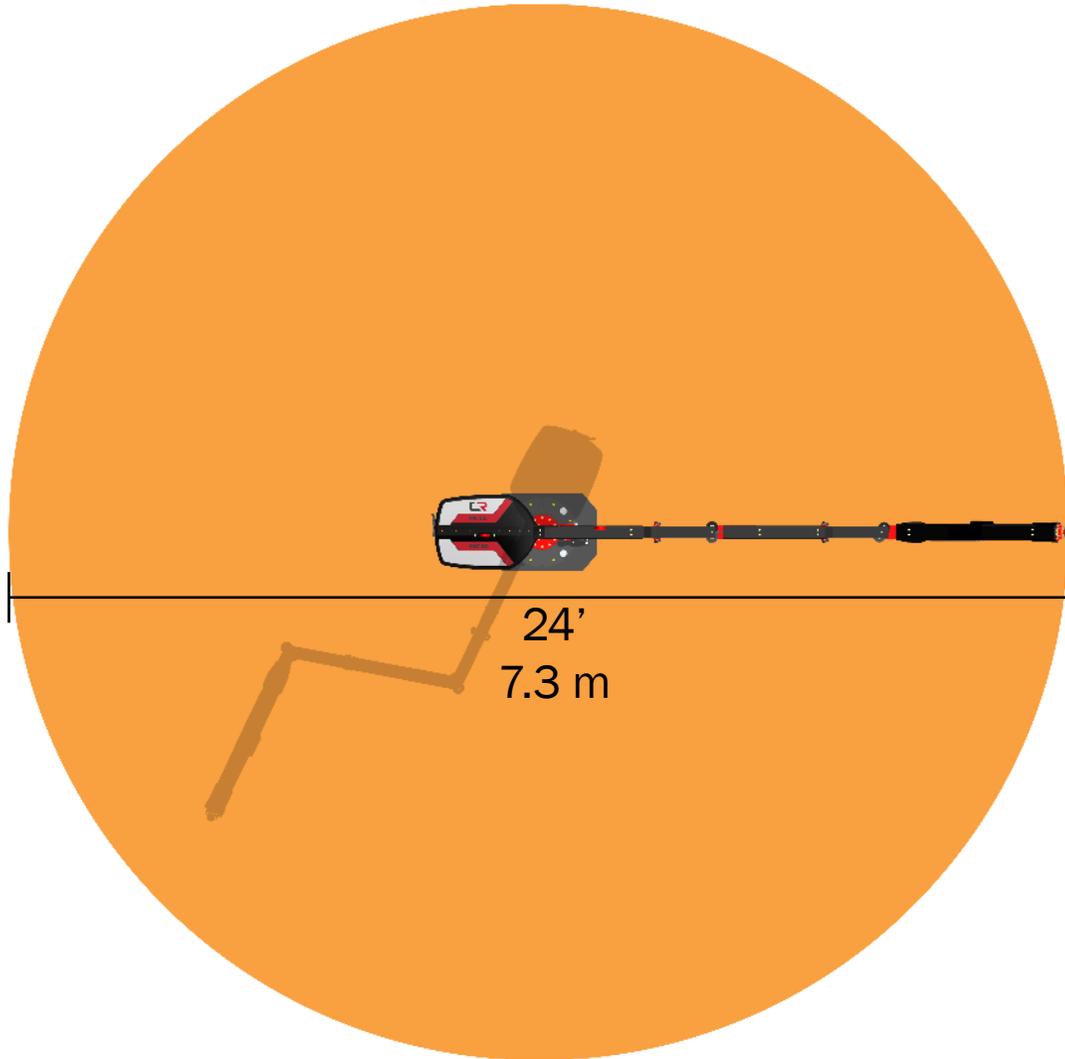






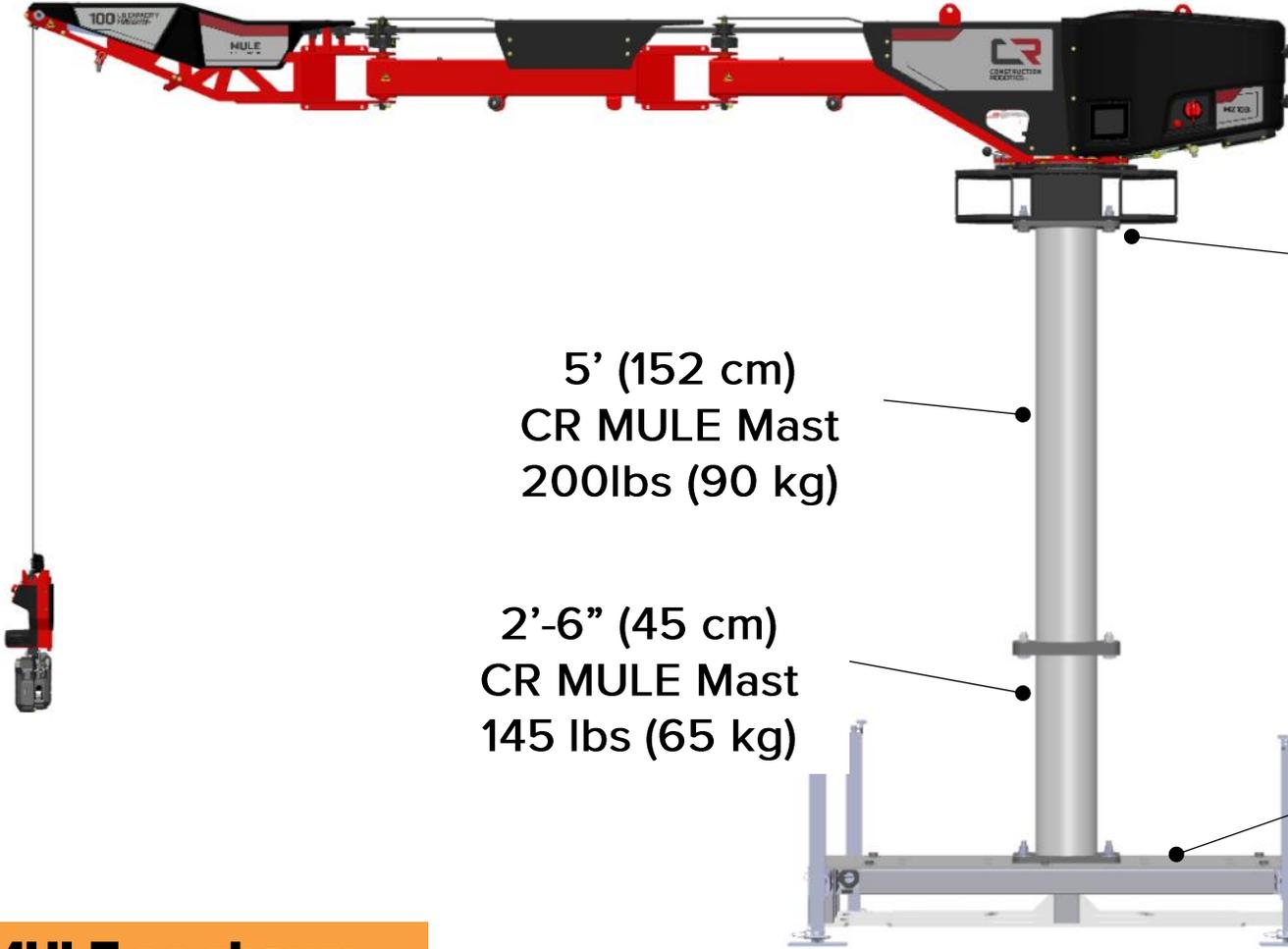
**MULE as shown
809 lbs / 367 kg**





The MZ100 has full 360° rotation providing a 12' (3.6 m) radius working area.

The orange circle denotes the reach/working area of the MZ100. Arm 2 and Arm 3 allow workers to work around obstructions and provide more flexibility to the worker.



5' (152 cm)
CR MULE Mast
200lbs (90 kg)

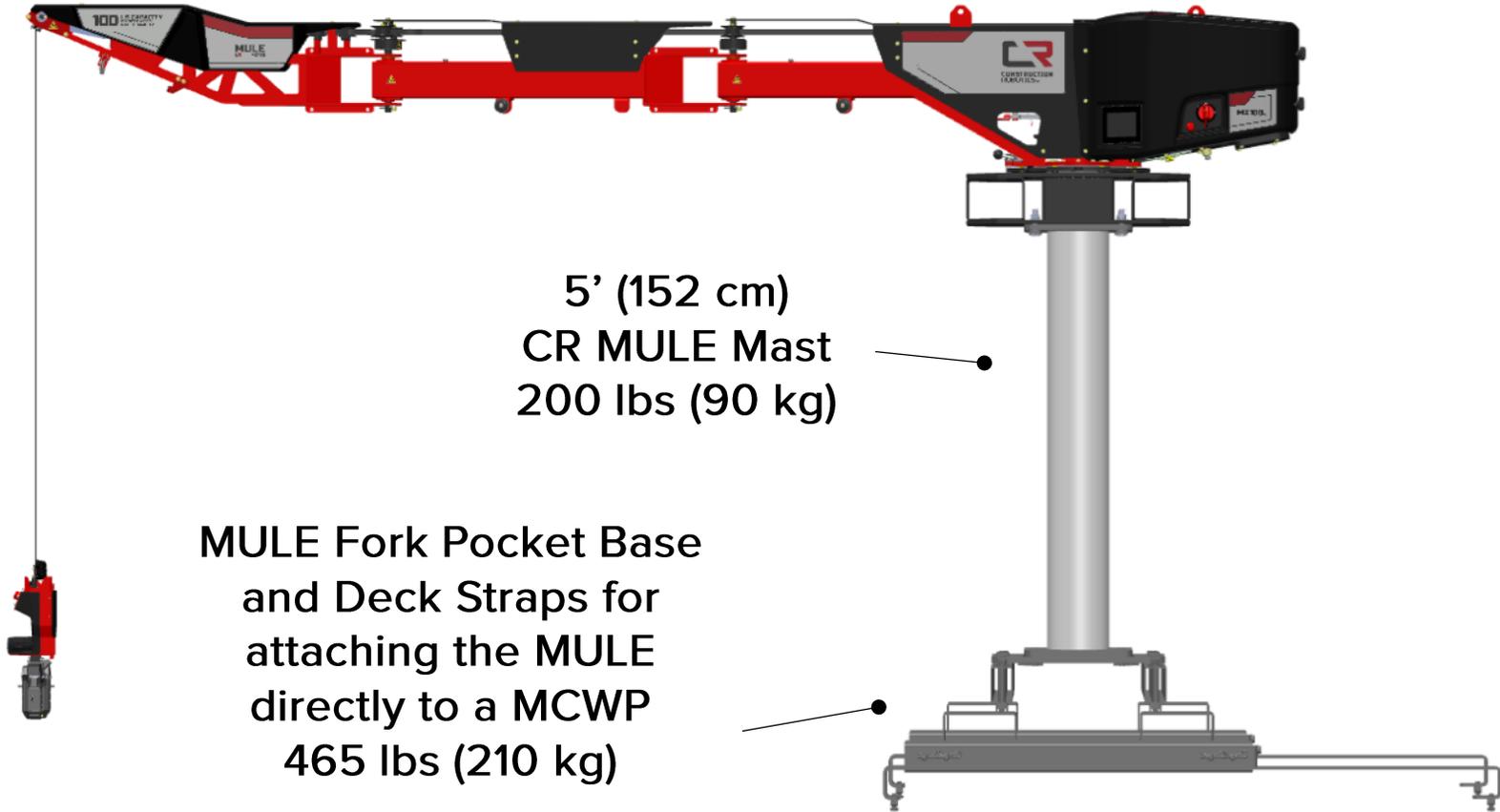
2'-6" (45 cm)
CR MULE Mast
145 lbs (65 kg)

Standard bolt
pattern allows
for multiple
configurations

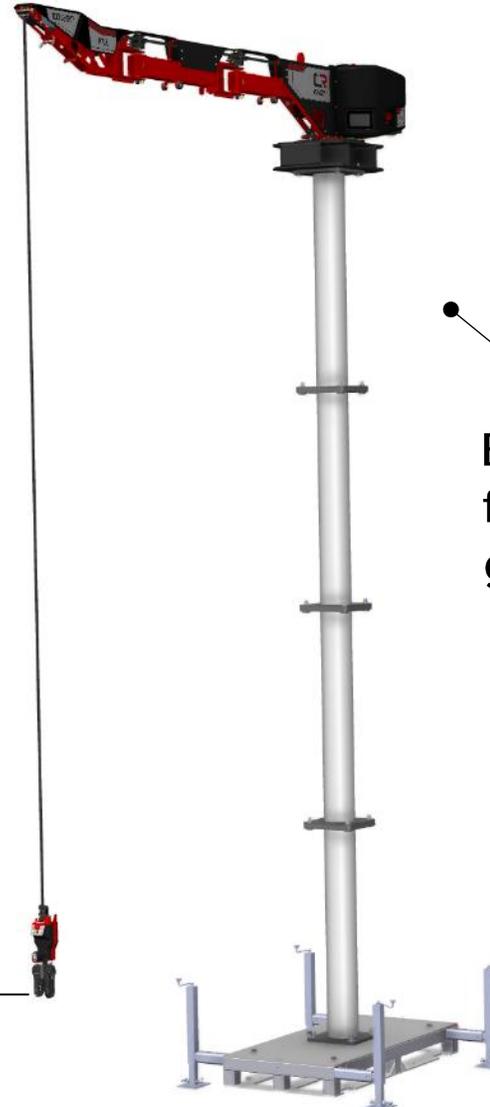
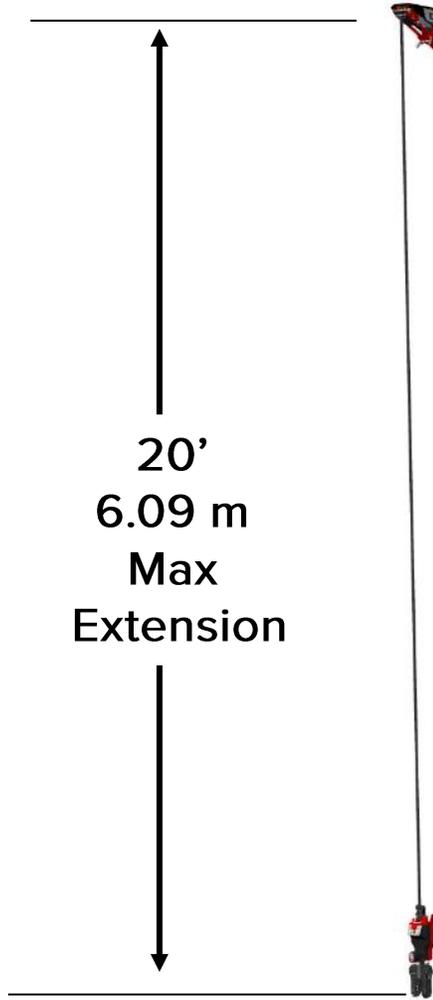
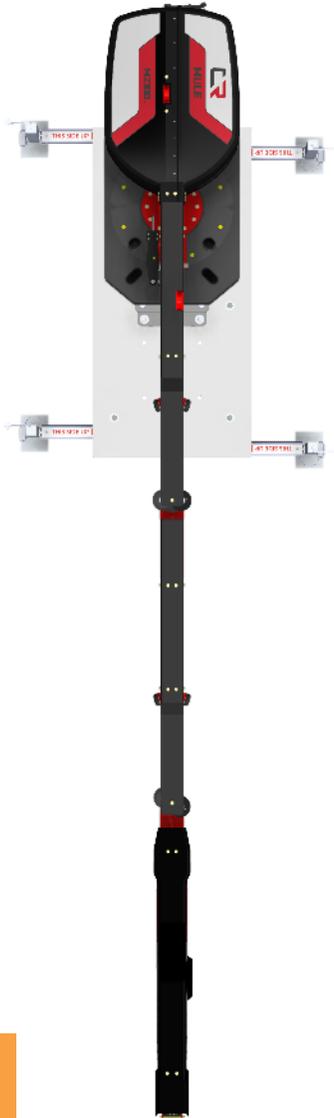


MULE Ground Base with
outriggers, allows for
freestanding up to
20' (6.09 m)
950 lbs (430 kg)

**MULE as shown
2,104 lbs / 954 kg**



**MULE as shown
1,474 lbs / 669 kg**



Example configuration
from working from the
ground base with four
5' (152 cm) masts

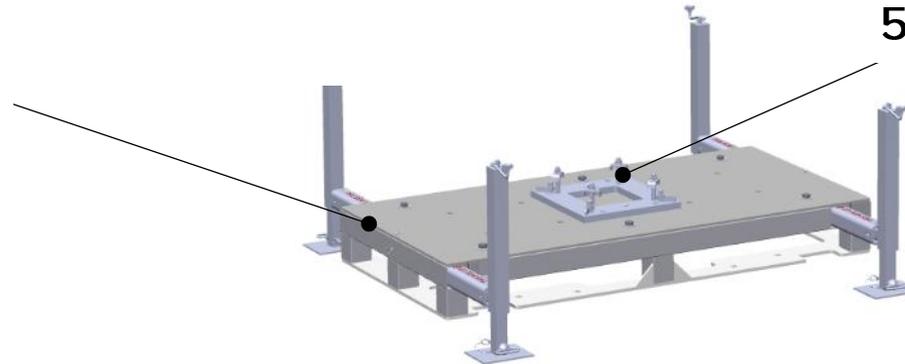
**MULE as shown
2,559 lbs / 1,160 kg**

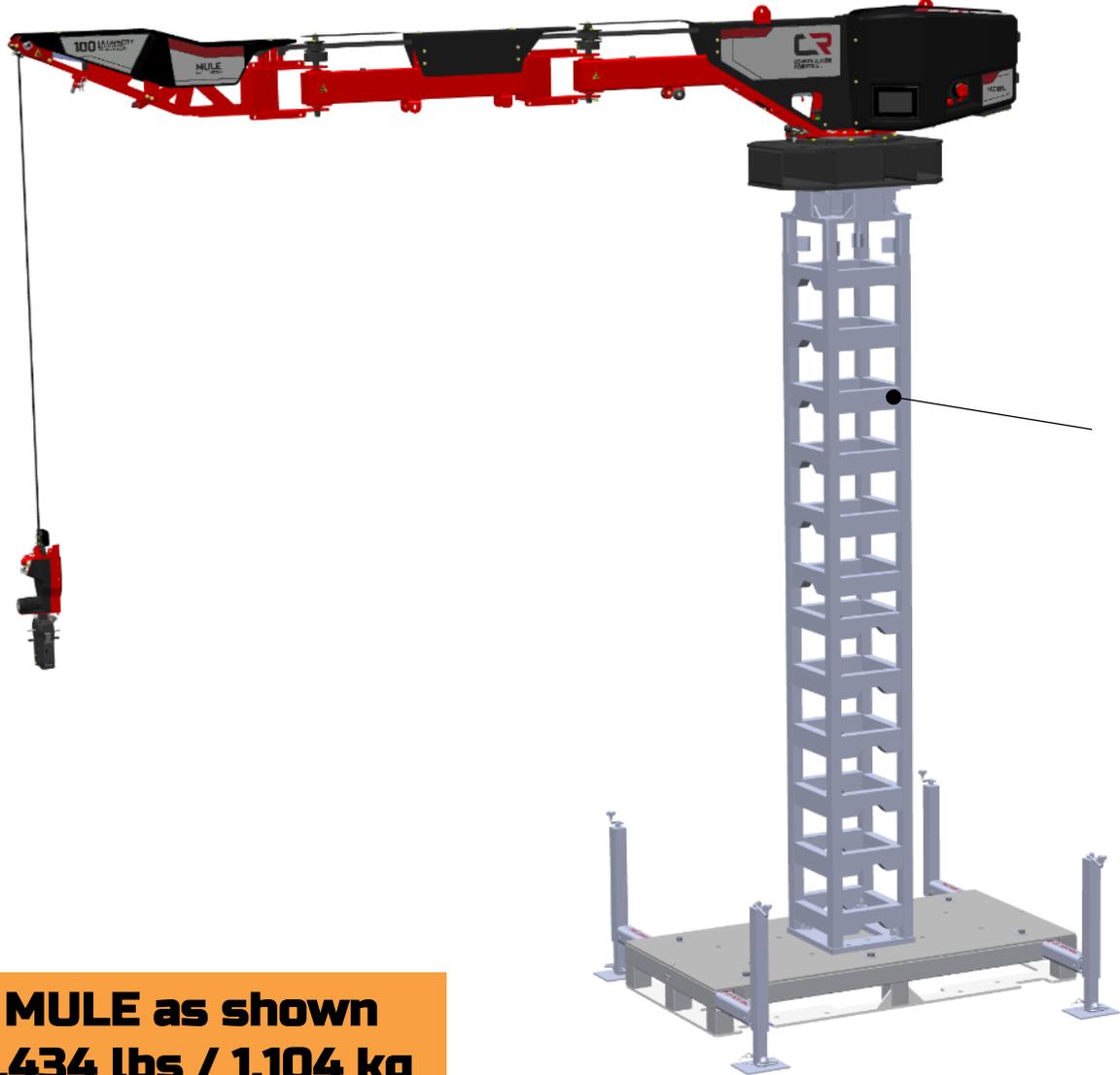


Hydro Mobile/ ProSeries
Mast Adapter Top
148 lbs (67 kg)

MULE Ground Base
with outriggers-
allows for
freestanding up to
20' (6.09 m)
950 lbs (430 kg)

Hydro Mobile/ ProSeries
Mast Adapter Bottom
59 lbs (27 kg)



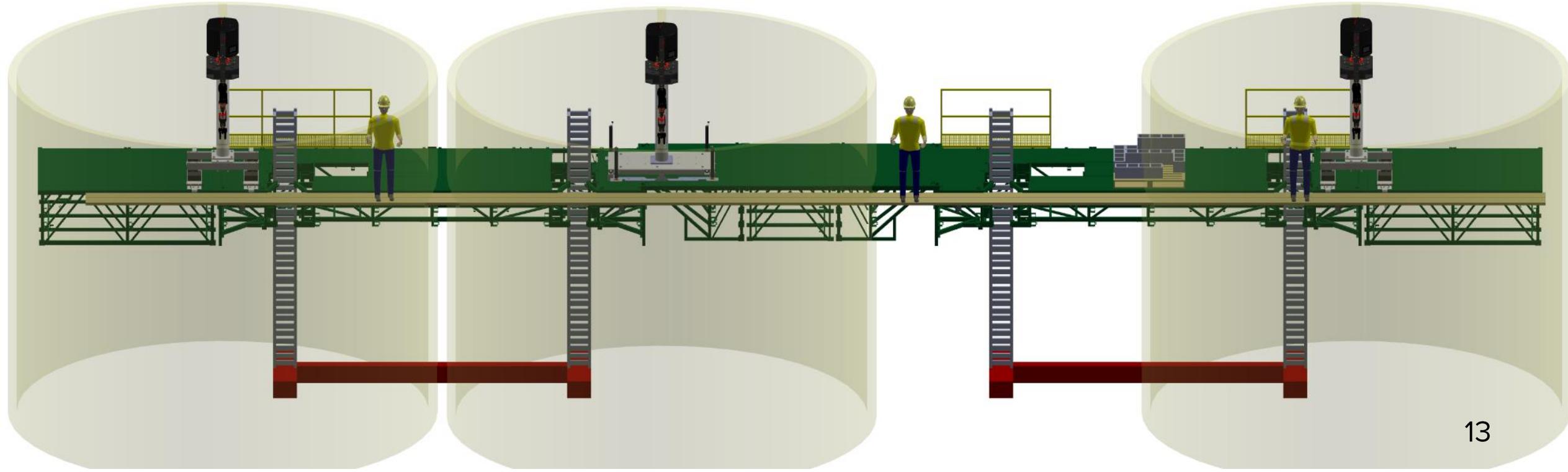


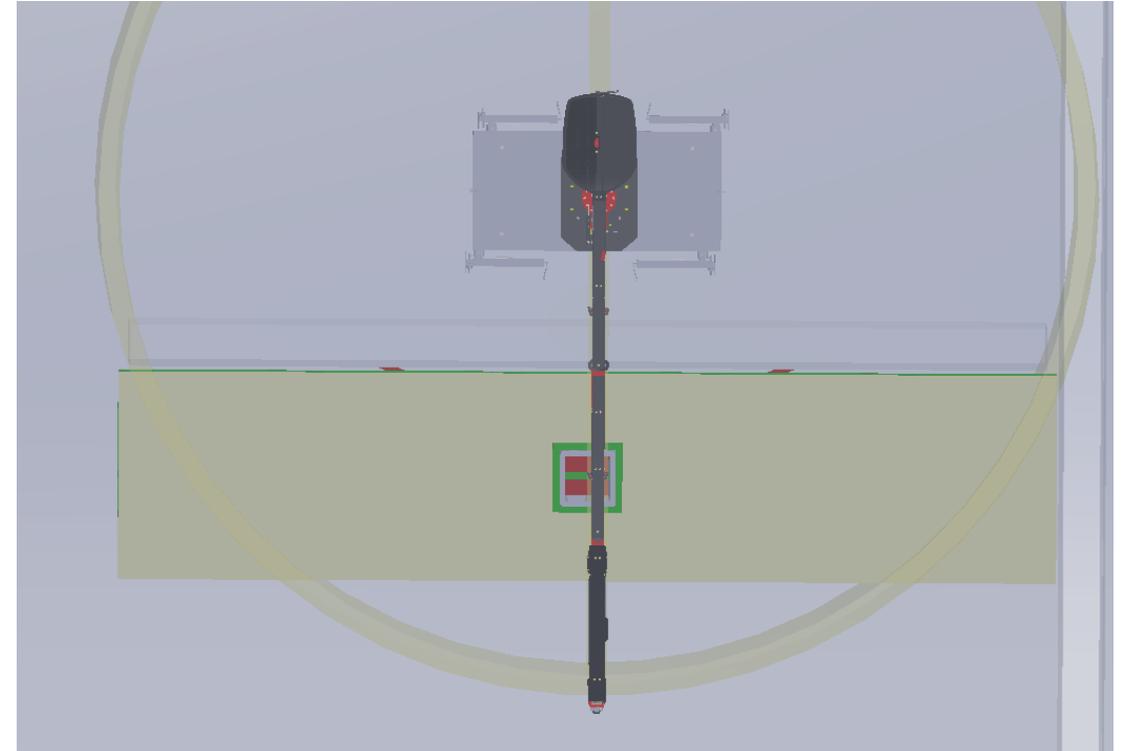
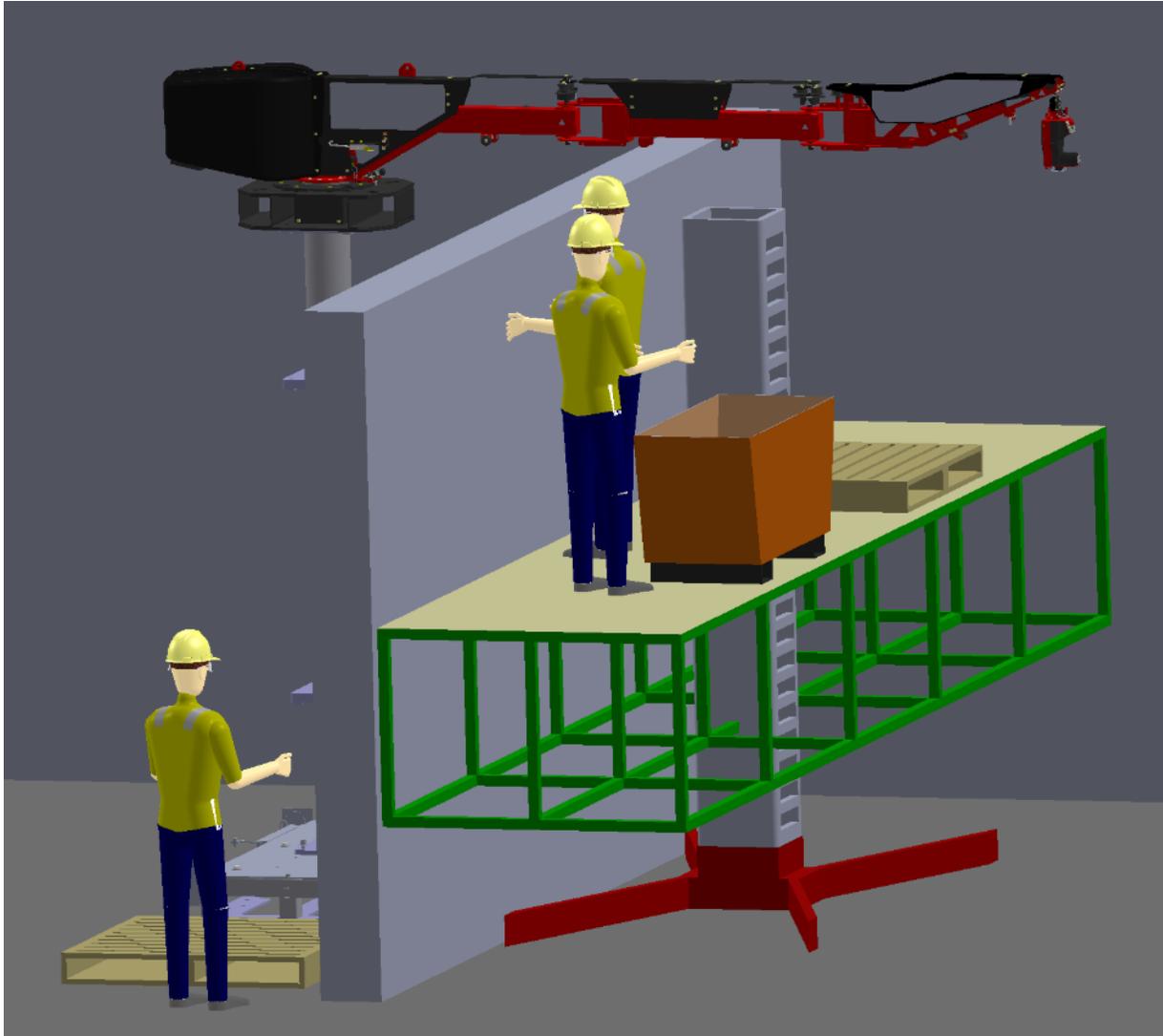
Adapter allows you to
utilize Hydro Mobile and
ProSeries Masts
5' (152 cm) Masts
235 lbs (106 kg)

**MULE as shown
2,434 lbs / 1,104 kg**

Here is an example layout of MCWP setup. The circles show the MZ working area.

This example shows the standard ground base sitting on the HydroMobile. The ground base is heavier than the Fork Pocket Base and takes up a larger space



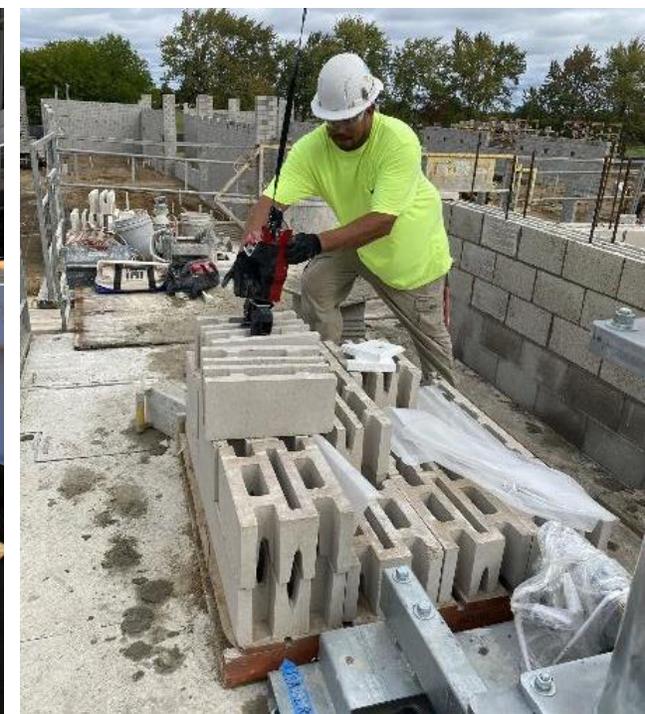
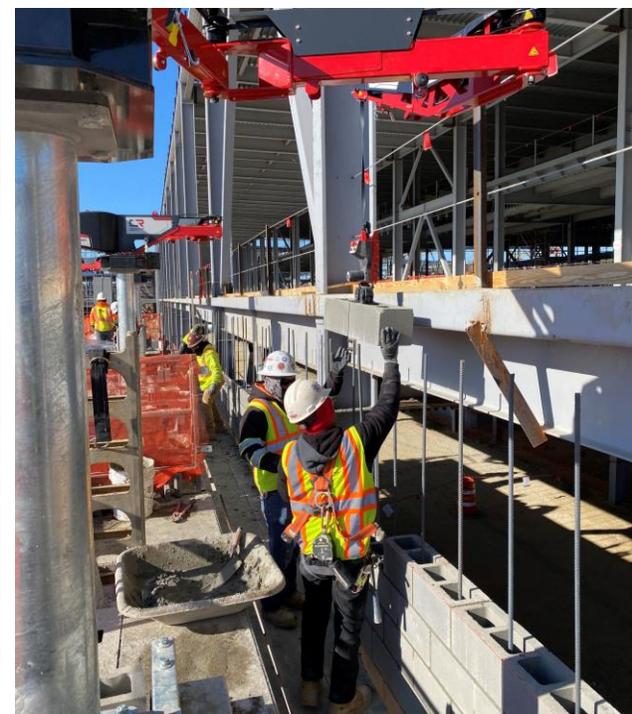


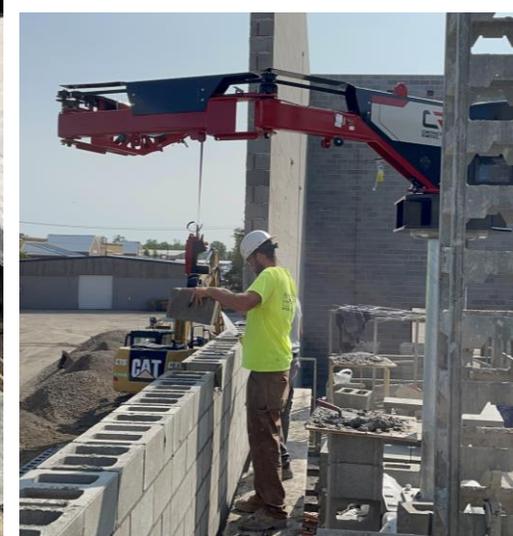
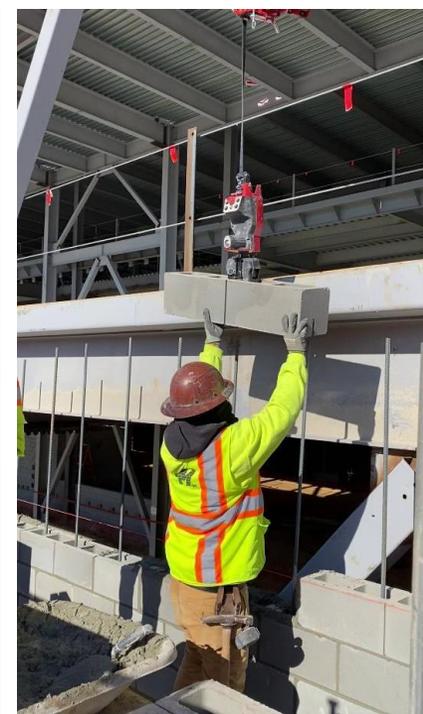
Freestanding the MULE
on the opposite side of
the wall



Mast Climbers

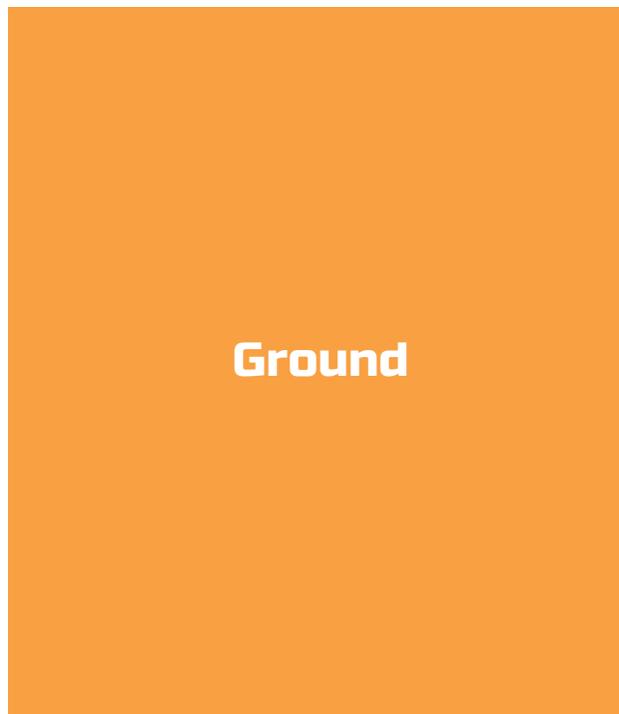
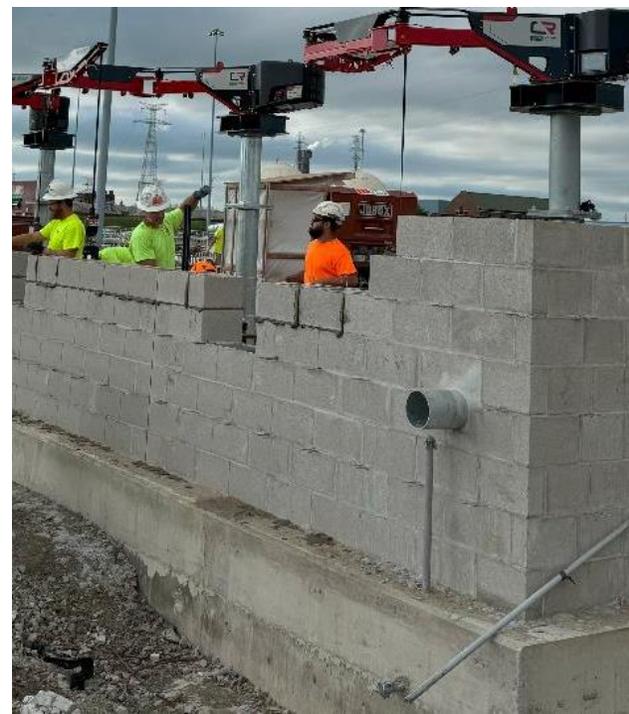






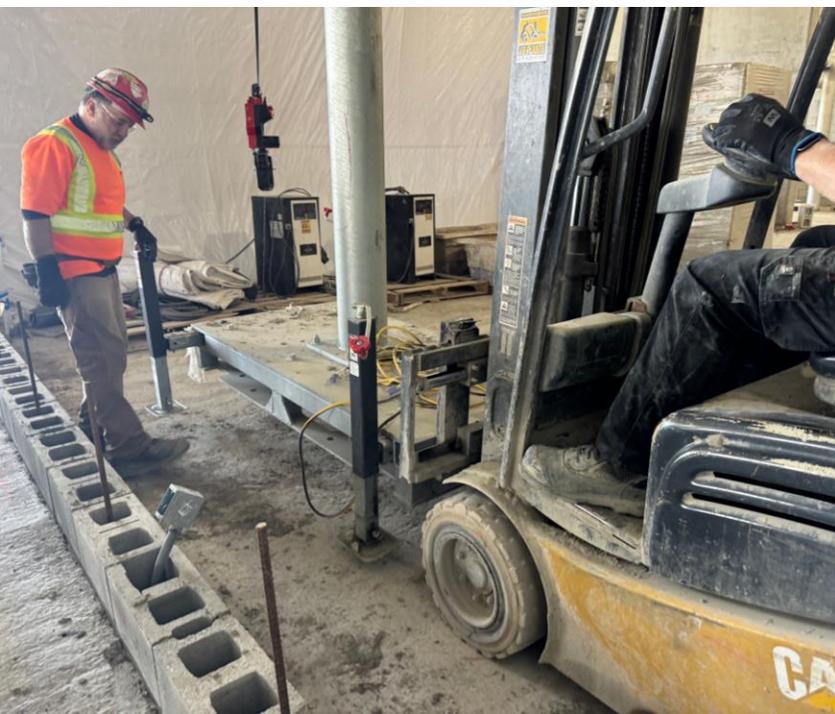


Setup





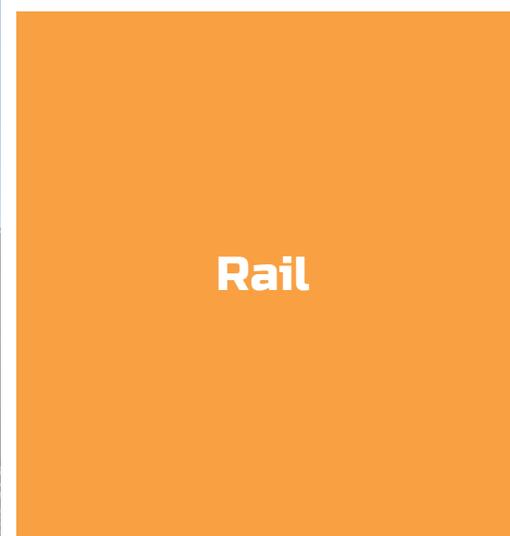
Moving

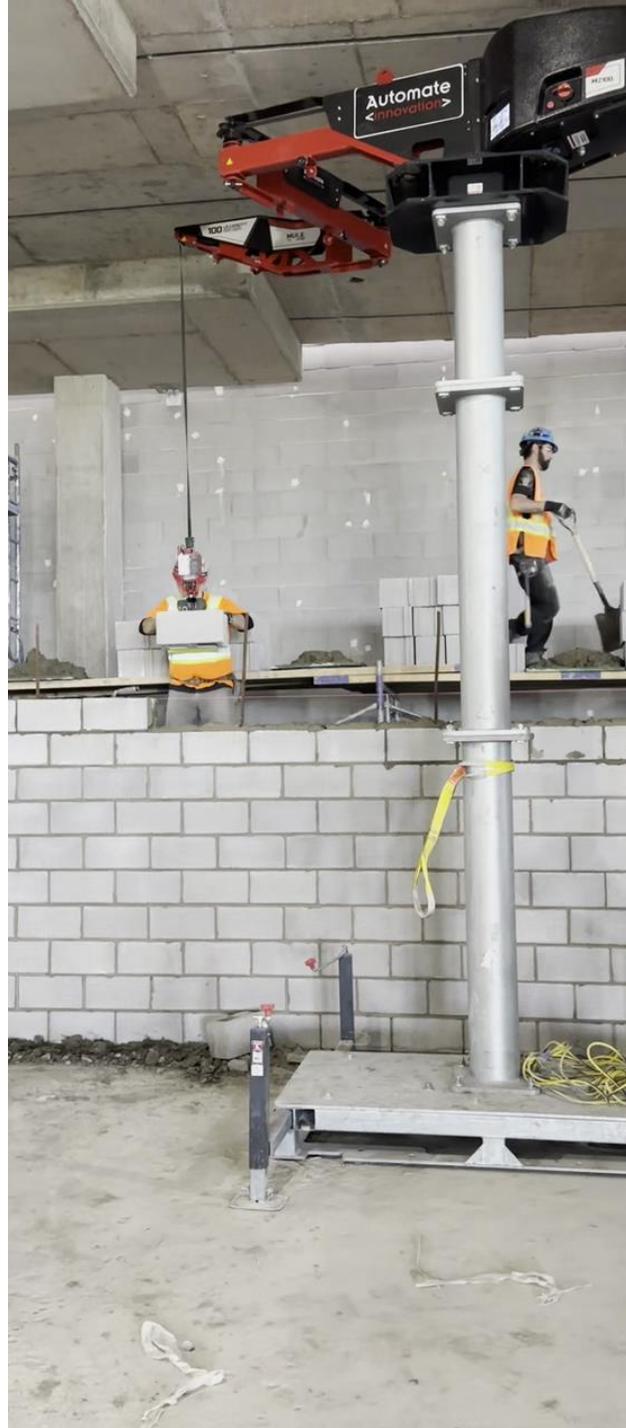


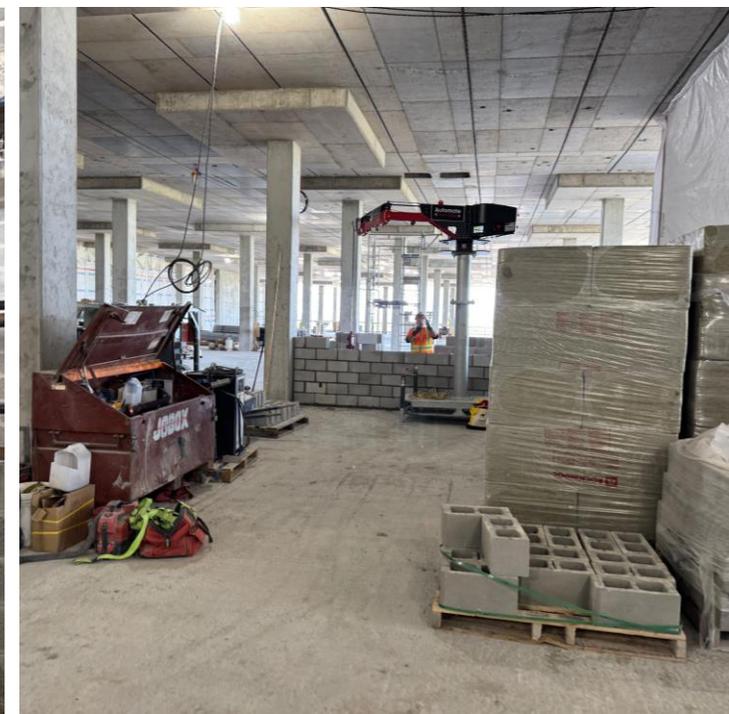
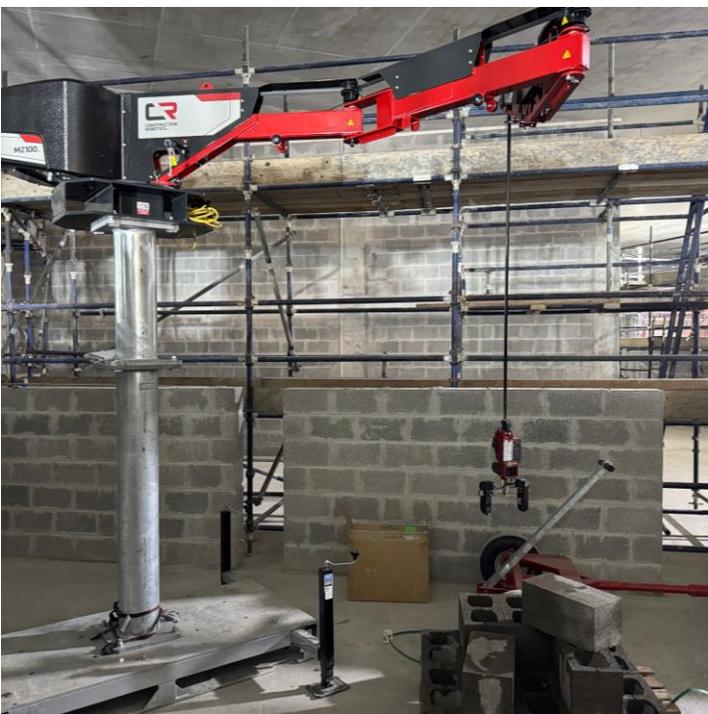


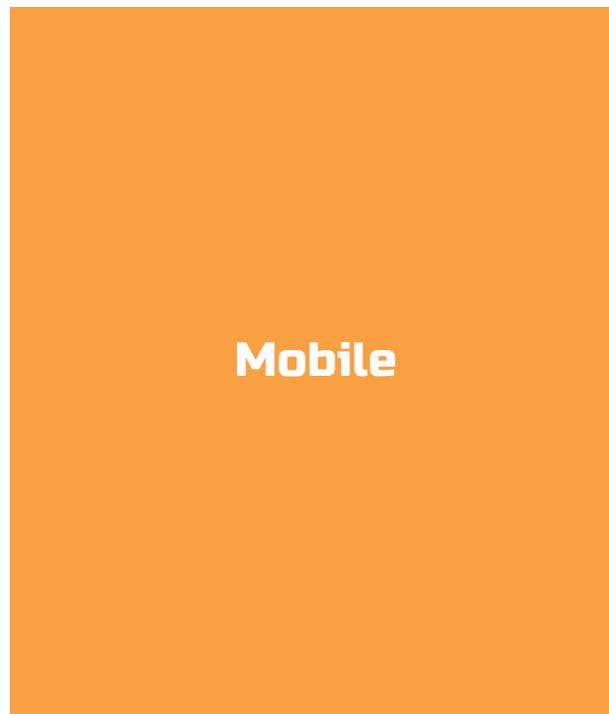
Frame

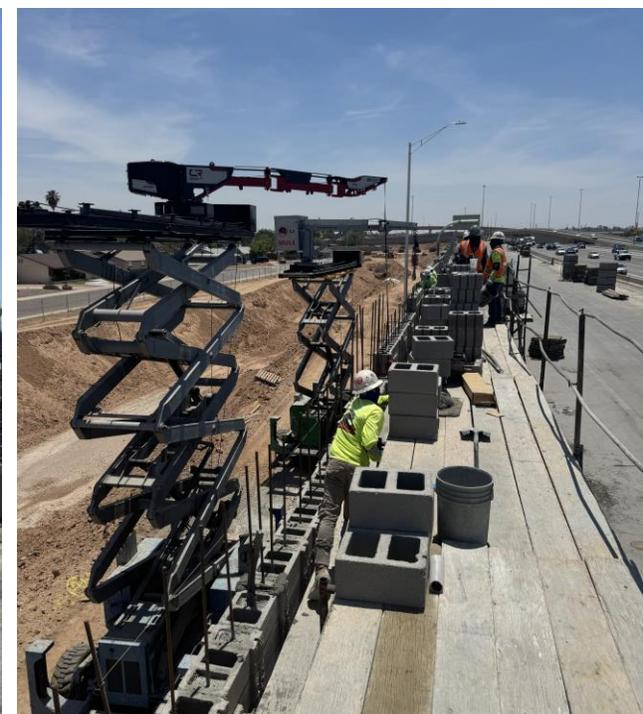
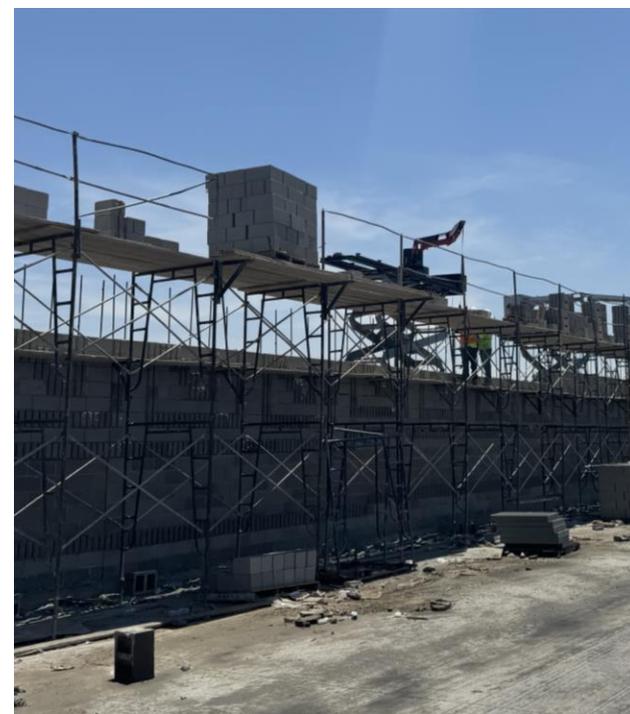
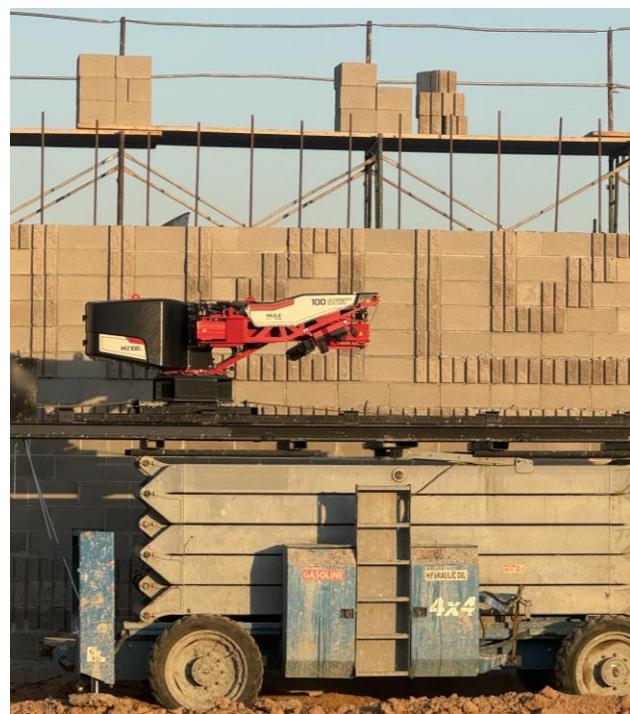










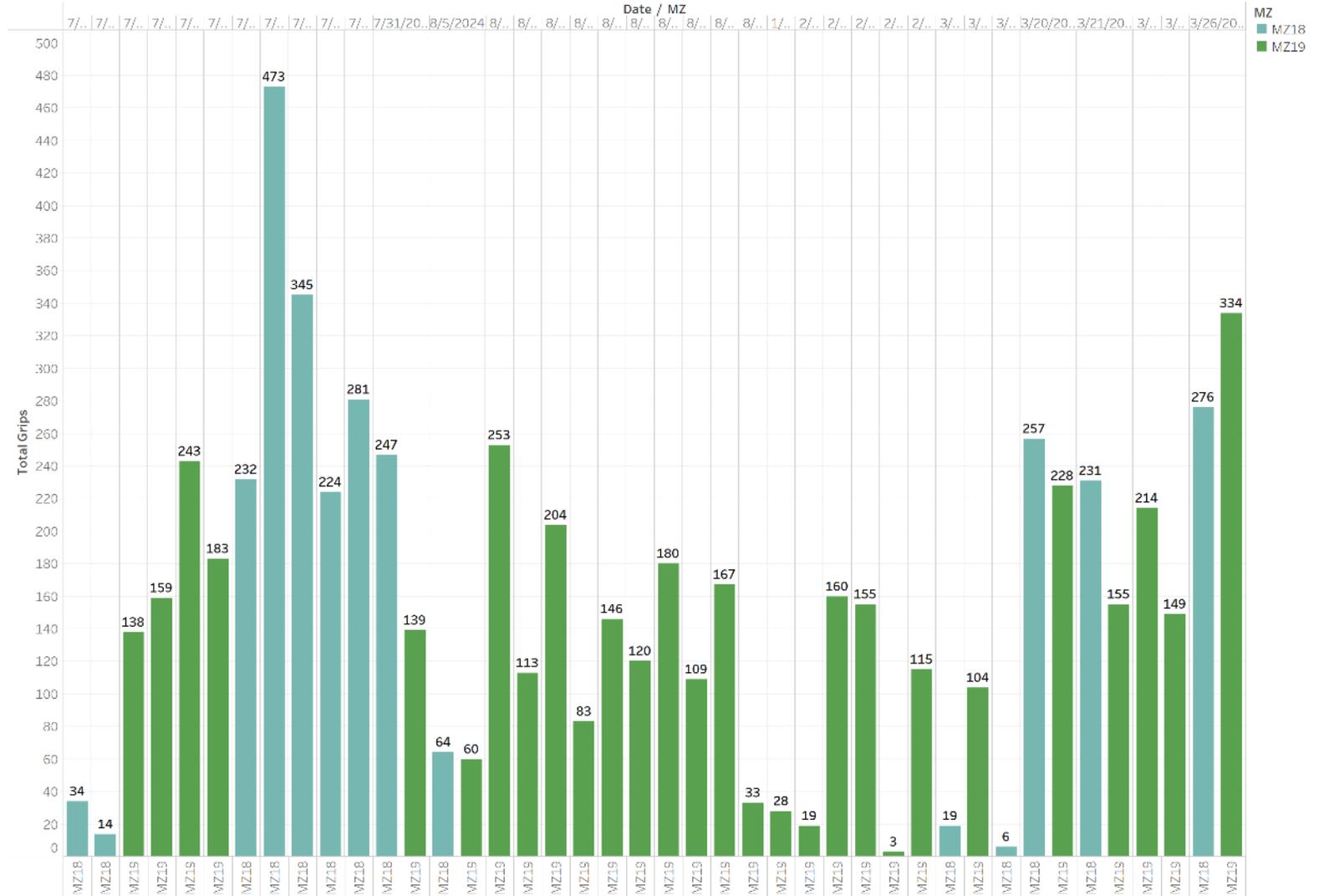




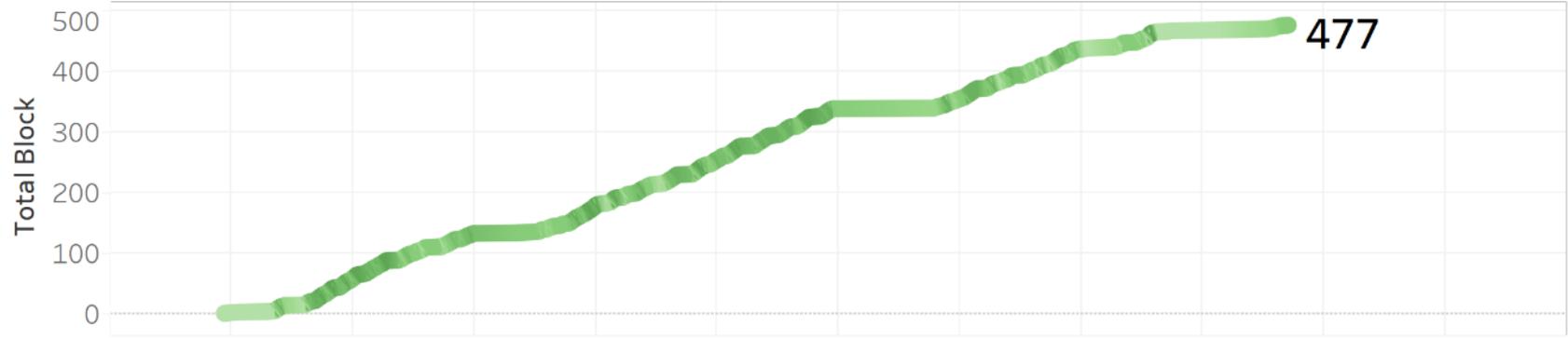
Sample data summary

			Grips Per Hour Machine On to Machine Off	Grips Per Hour not including downtime	When the machine was turned	The First grip of the day	The last grip of the day	When the machine was turned off	Time between first and last grip	Avg. time between grips, all grips (Minutes)	Average time between grips, when running (Minutes)	Longest time between grips (h:mm)	Runtim excludes time between grips longer than 10 minutes	Adds up all the time that the machine is down
Date	MZ	Total Grips	GPH Day	GPH Run	Machine On	First Grip	Last Grip	Machine Off	Total Run Time	Average Time between Grips	Avg. Time between Grips Running	Longest Down Time	Actual Runtime	Acutal Down Time
7/15/2024	MZ18	34	11.7	41.9	8:07 AM	8:09 AM	11:01 AM	11:01 AM	2:52	4.8		00:52	00:48	02:05
7/16/2024	MZ18	14	12.4	45.8	3:15 PM	3:16 PM	4:23 PM	4:23 PM	1:06	4.2		00:49	00:18	00:49
7/17/2024	MZ19	138	46.0	65.4	8:12 AM	8:21 AM	11:12 AM	11:12 AM	2:51	1.3		00:19	02:06	00:53
7/18/2024	MZ19	159	24.6	59.5	7:53 AM	7:57 AM	2:21 PM	2:21 PM	6:24	2.4		01:15	02:40	03:47
7/19/2024	MZ19	243	48.8	80.6	7:54 AM	7:56 AM	12:53 PM	12:53 PM	4:57	1.2		00:23	03:00	01:58
7/22/2024	MZ19	183	24.4	80.7	8:19 AM	8:30 AM	3:49 PM	3:49 PM	7:18	2.4		03:22	02:16	05:13
7/24/2024	MZ18	232	51.1	75.3	7:58 AM	7:59 AM	12:30 PM	12:30 PM	4:31	1.2		00:23	03:04	01:27
7/25/2024	MZ18	432	55.5	79.7	7:56 AM	7:58 AM	3:43 PM	3:43 PM	7:45	1.1		00:49	05:25	02:22
7/25/2024	MZ18	41	20.3	52.2	2:41 PM	2:53 PM	4:42 PM	4:42 PM	1:48	2.8		00:24	00:47	01:14
7/26/2024	MZ18	345	46.8	70.7	7:54 AM	7:58 AM	3:17 PM	3:17 PM	7:19	1.3		00:42	04:52	02:29
7/29/2024	MZ18	224	28.4	73.5	7:54 AM	8:01 AM	3:47 PM	3:47 PM	7:45	2.1		00:52	03:02	04:49
7/30/2024	MZ18	281	35.9	61.8	7:48 AM	7:53 AM	3:38 PM	3:38 PM	7:44	1.7		00:58	04:32	03:17
7/31/2024	MZ18	247	31.5	70.3	7:52 AM	7:53 AM	3:42 PM	3:42 PM	7:48	1.9		01:01	03:30	04:18
7/31/2024	MZ19	139	20.2	56.4	8:29 AM	8:33 AM	3:21 PM	3:21 PM	6:47	2.9		02:03	02:27	04:24
8/5/2024	MZ18	64	13.9	67.4	11:08 AM	11:14 AM	3:44 PM	3:44 PM	4:29	4.2		01:06	00:56	03:38
8/5/2024	MZ19	60	9.3	79.8	9:18 AM	11:14 AM	3:43 PM	3:43 PM	4:29	6.2		01:55	00:45	05:40
8/7/2024	MZ19	253	32.2	67.8	7:26 AM	7:26 AM	3:16 PM	3:16 PM	7:49	1.8		00:54	03:43	04:06
8/8/2024	MZ19	113	13.6	107.4	7:35 AM	8:27 AM	3:54 PM	3:54 PM	7:26	4.3		04:50	01:03	07:16
8/13/2024	MZ19	204	26.0	84.3	7:49 AM	7:50 AM	3:40 PM	3:40 PM	7:50	2.3		02:00	02:25	05:25
8/14/2024	MZ19	83	22.9	49.9	8:37 AM	8:46 AM	12:14 PM	12:14 PM	3:28	2.6		00:35	01:39	01:57
8/22/2024	MZ19	146	20.7	89.4	8:52 AM	8:52 AM	3:55 PM	3:55 PM	7:02	2.9		01:41	01:37	05:25
8/23/2024	MZ19	120	20.5	61.7	8:50 AM	8:51 AM	2:42 PM	2:42 PM	5:50	2.9		01:18	01:56	03:55
8/26/2024	MZ19	180	23.2	66.8	8:18 AM	8:26 AM	4:04 PM	4:04 PM	7:38	2.6		01:30	02:41	05:04
8/27/2024	MZ19	109	18.5	76.3	10:24 AM	10:29 AM	4:17 PM	4:17 PM	5:47	3.2		01:18	01:25	04:27
8/28/2024	MZ19	167	20.8	60.3	8:03 AM	8:06 AM	4:06 PM	4:06 PM	7:59	2.9		01:17	02:46	05:16
8/29/2024	MZ19	33	23.1	58.8	8:01 AM	8:05 AM	9:26 AM	9:26 AM	1:21	2.5		00:32	00:33	00:52
1/17/2025	MZ19	28	13.7	48.3	10:24 AM	10:36 AM	12:07 PM	12:27 PM	1:31	3.2	1.2	00:46	00:34	01:00
2/5/2025	MZ19	19	27.0	46.2	2:59 PM	3:01 PM	3:24 PM	3:42 PM	0:23	1.2	1.2	00:05	00:24	00:00
2/6/2025	MZ19	160	22.1	55.5	8:29 AM	8:31 AM	3:40 PM	3:44 PM	7:09	2.7	1.1	01:39	02:52	04:18
2/7/2025	MZ19	155	64.5	55.2	7:50 AM	7:55 AM	1:41 PM	10:15 AM	5:46	2.2	1.1	01:58	02:48	02:56
2/15/2025	MZ19	3	8.8	96.4	8:21 AM	8:37 AM	8:38 AM	8:41 AM	0:01	3.5	0.5	00:15	00:01	00:15
2/28/2025	MZ19	115	37.2	58.5	8:23 AM	8:24 AM	11:24 AM	11:28 AM	2:59	1.5	1.0	00:29	01:57	01:02
3/11/2025	MZ18	19	29.2	34.7	9:36 AM	9:41 AM	10:12 AM	10:15 AM	0:30	1.6	1.6	00:06	00:32	00:00
3/17/2025	MZ19	104	18.0	52.0	9:55 AM	10:45 AM	3:27 PM	3:41 PM	4:42	2.7	1.2	01:30	01:59	02:42
3/19/2025	MZ18	6	16.8	32.7	2:46 PM	2:47 PM	2:57 PM	3:08 PM	0:10	1.4	1.4	00:02	00:11	00:00
3/20/2025	MZ18	257	33.1	53.6	7:48 AM	7:55 AM	3:24 PM	3:33 PM	7:28	1.8	1.1	01:10	04:47	02:48
3/20/2025	MZ19	228	29.7	54.4	7:59 AM	8:00 AM	3:25 PM	3:40 PM	7:25	1.9	1.1	01:30	04:11	03:14
3/21/2025	MZ18	231	35.1	61.2	7:48 AM	7:49 AM	2:20 PM	2:23 PM	6:31	1.7	1.0	01:19	03:46	02:45
3/21/2025	MZ19	155	23.8	68.0	7:47 AM	7:51 AM	1:12 PM	2:19 PM	5:21	2.1	0.9	01:31	02:16	03:08
3/24/2025	MZ19	214	29.1	52.6	8:18 AM	8:18 AM	3:36 PM	3:39 PM	7:18	2.0	1.2	01:20	04:04	03:14
3/25/2025	MZ19	149	18.0	59.1	7:18 AM	7:18 AM	3:15 PM	3:36 PM	7:56	3.2	1.0	03:40	02:31	05:25
3/26/2025	MZ19	334	39.8	84.9	7:27 AM	7:34 AM	3:46 PM	3:50 PM	8:11	1.5	0.7	01:29	03:56	04:22
3/26/2025	MZ18	276	29.3	50.9	7:25 AM	7:25 AM	3:41 PM	4:51 PM	8:16	1.8	1.2	01:08	05:25	02:51

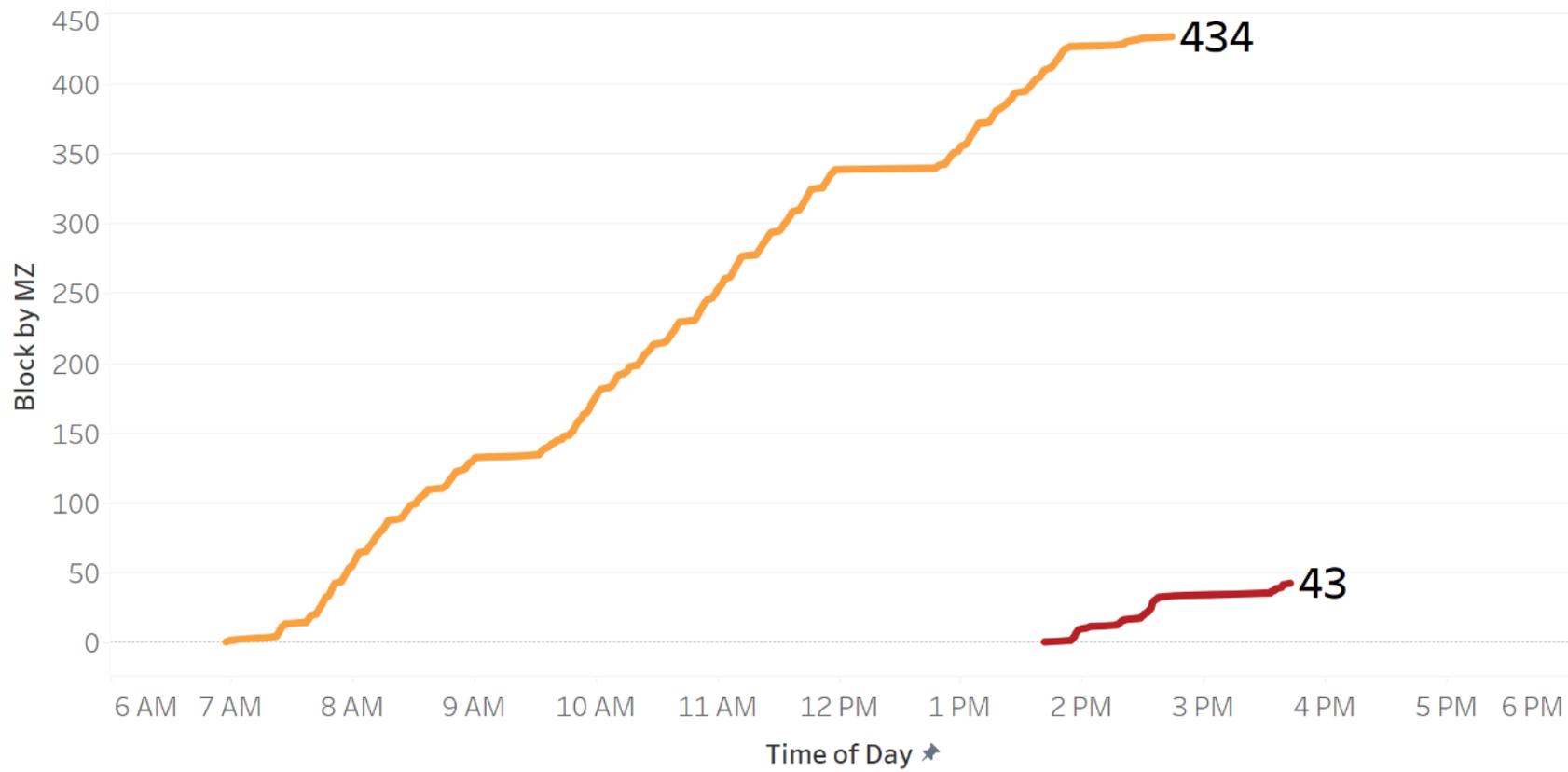
Sample project data at a high level.
We can deep dive into the daily activity.



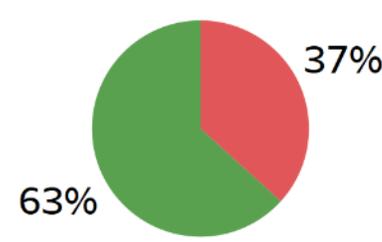
Total Blocks - 7/25/2024



Blocks by MZ - 7/25/2024



Running Vs Not



Running vs Not
■ Down Time
■ Running

Date
 7/25/2024
 Show history

Running vs Not



Machine
■ MZ18
■ MZ19



LET'S BUILD SMART.

Construction Robotics LLC
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585-742-2004
www.Construction-Robotics.com