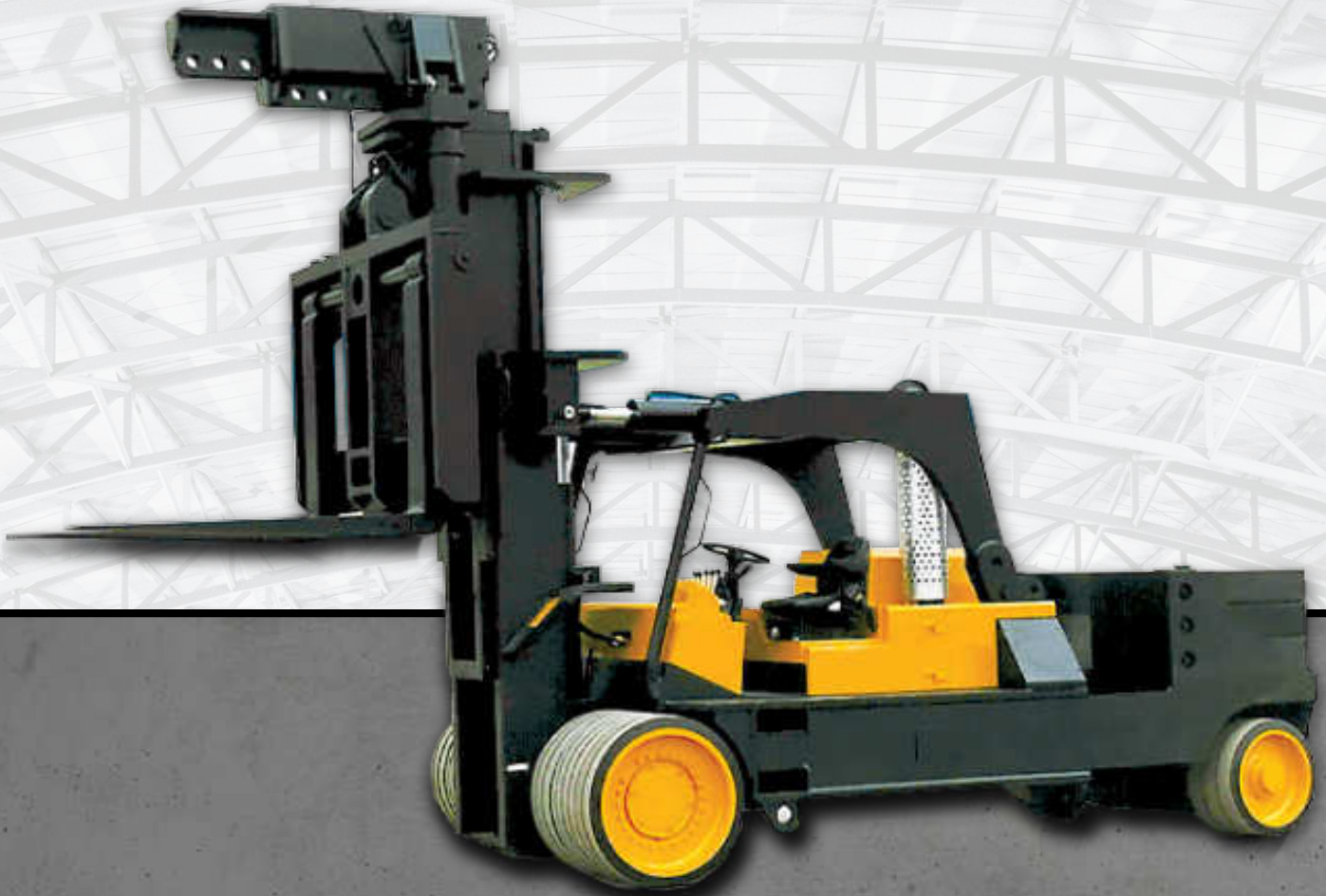




RIG-N-LIFT 80/100

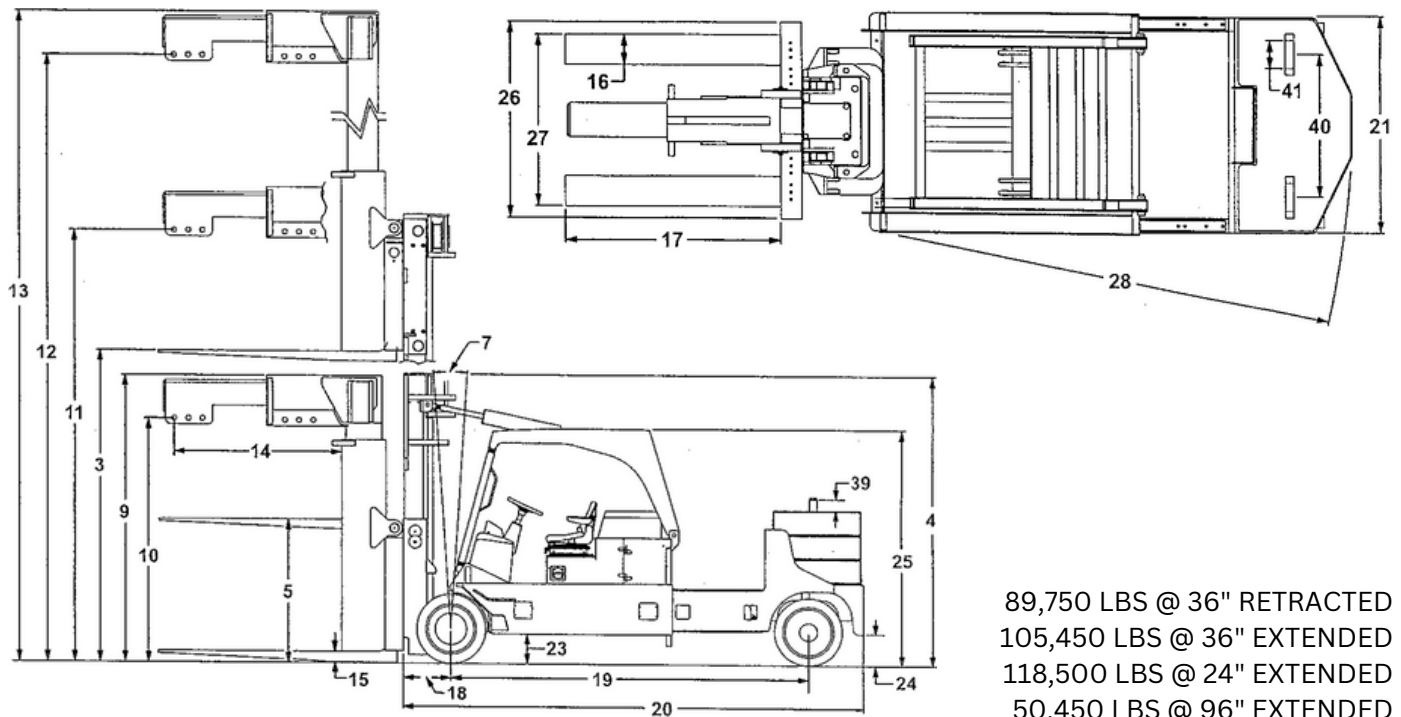


SPEC SHEET
RIG-N-LIFT 80/100

CUSHION TIRE | EXTENDABLE COUNTER-WEIGHT



RIG-N-LIFT 80/100 | SPEC SHEET



ENGINE	KEM 8.0L LP V8
TRANSMISSION	Electric Powershift Funk 3-Speed
DRIVE AXLE	97" Planetary Axle
TIRES	FRONT 36" X 34" X 30" REAR 28" X 16" X 22"
GRADE	EMPTY 22% LOADED 16% STALL 36%
TILT	FORWARD 10° BACK 5°
WEIGHT	GROSS: 109,200 LBS BOOM: 10,500 LBS FORKS: 4,400 LBS COUNTERWEIGHT: 36,000 LBS (3 @ 12,000 LBS each)
BOOM REACH (in)	Ground to Top of Boom Lowered - 119" Ground to Boom Lift Eye Lowered - 106" Ground to Boom Lift Eye Raised-Boom Only - 161" Ground to Boom Lift Eye Raised-Mast and Boom - 237" Ground to Top of Boom Raised-Mast and Boom - 250" Boom Lift Eye From Face of Boom-Retracted/Extended - 48"/72"
LOAD CAPACITY	89,750 LBS @ 36" RETRACTED 105,450 LBS @ 36" EXTENDED
WIDTH	102"
WHEELBASE	RETRACTED: 132" EXTENDED: 156"

Additional Features:

- Comes with Boom Stand
- Horizontal Boom retracts while using forks
- 2-stage FFL roller mast



RIG-N-LIFT 80/100 | SPEC SHEET

1	Rated Lift Capacity - Retracted/Extended *	lbs.	89,750/105,450
2	Load Center from Face of Forks - Retracted/Extended	in.	36/36
3	Maximum Fork Height (MFH)	in.	81
4	Overall Lowered Height (OAL)	in.	119
5	Free Fork Height (FFH)*	in.	26
6	Tilt Cylinder Location	Location	Overhead
7	Tilt Angle - Forward/Backward	Degrees	10/5
8	Boom Sections Including Stationary	Quantity	2
9	Ground to Top of Boom Lowered	in.	119
10	Ground to Boom Lift Eye Lowered	in.	106
11	Ground to Boom Lift Eye Raised - Boom Only	in.	161
12	Ground to Boom Lift Eye Raised - Mast and Boom	in.	237
13	Ground to Top of Boom Raised - Mast and Boom	in.	250
14	Boom Lift Eye From Face of Boom - Retracted/Extended	in.	48/72
15	Fork Thickness	in.	5
16	Fork Width	in.	12
17	Fork Length	in.	96
18	Load Distance	in.	41
19	Wheelbase - Retracted/Extended	in.	132/156
20	Length to Fork Face - Retracted/Extended	in.	205/229
21	Overall Width	in.	102
22	Ground Clearance - Mast	in.	5
23	Ground Clearance - Center	in.	6.5
24	Ground Clearance - Counterweight	in.	9
25	Height to Top of Overhead Guard	in.	103
26	Carriage Width	in.	102
27	Maximum Fork Spread	in.	96
28	Outside Turning Radius - Retracted/Extended	in.	181/203
29	Maximum Travel Speed - Retracted/Extended	mph	5.7/1.5
30	Gradeability - No Load/Extended	%	22
31	Gradeability @ 1 MPH - with Rated Load/Extended	%	16
32	Gradeability @ Stall - with Rated Load/Extended	%	36
33	Weight - No Load - Drive/Steer *	lbs.	44,150/65,050
34	Weight - No Load - Total *	lbs.	109,200
35	Weight - With Load/Extended - Drive/Steer *	lbs.	201,550/13,050
36	Weight - With Load/Extended - Total *	lbs.	214,600
37	Boom Weight	lbs.	10,500
38	Fork Weight (pair)	lbs.	4,400
39	Counterweight - Segments x lbs each	lbs.	3 x 12,000
40	Counterweight lift lug center to center	In.	62
41	Counterweight lift lug opening - H x W	In.	4x9
42	Tire Size Front	in.	36 x 34 x 30
43	Tire Size Rear	in.	28 x 16 x 22

* With Standard Forks, Without Boom



RIG-N-LIFT 80/100 | SPEC SHEET

STANDARD FORKS ONLY

		Load Center						
Model 80/100	CWT Ext.	24"	36"	48"	60"	72"	84"	96"
	0"	106,300	89,750	77,650	68,400	61,150	55,300	50,450
	24"	118,500	105,450	91,250	80,400	71,850	64,950	59,250

STANDARD BOOM ONLY

		Load Center						
Model 80/100	CWT Ext.	24"	36"	48"	60"	72"	84"	96"
	0"	77,300	68,200	60,950	55,150	50,350	-	-
	24"	95,500	84,200	75,300	68,100	62,150	-	-

***All load capacities are rated with the mast vertical.



RIG-N-LIFT 80/100 | SPEC SHEET

Operator Cab

- Meets ANSI 856.1 FOPS
- Left-hand operator position
- Rubber-mounted cab isolated from the frame
- Low, non-skid steps for safe and easy entry/exit
- Adjustable semi-suspension seat and retractable seat belts
- Onboard Load Calculator
- Master digital display unit provides all vehicle gauges (eg. oil temperature, fuel level)
- Engine fault code diagnostic capability
- Soft-touch hydraulic levers
- Spring-apply hydraulic release parking brake
- Hydraulic weight scale

Mast & Carriage

- Quick-Change Fork System for quick connect/disconnect of attachments
- Heavy-duty mast rails provide visibility and full capacity at maximum lift heights
- High-strength adjustable composite wear pads on boom
- Main and side thrust rollers are impact-resistant and designed to reduce friction
- Greaseable mast pivots constructed with wear-resistant bronze bushings and hardened steel pins
- Safety valve built into base of lift cylinder securely holds load in event of hose failure
- Chrome-plated cylinder rods

Power

- KEM 8.0L LP Engine
- Built-in Engine protection
- Inboard muffler
- O-ring face seal fittings
- Tilt-lock counterbalance valve to prevent mast drift
- Easy-access oil filter and drain for quick and easy maintenance
- Large clean-out covers on top of hydraulic tank for easy access and convenient drain plug on the bottom
- Filters are easily accessible
- Color-coded electrical wires enclosed
- Standard 12-volt electrical system

Strength

- Planetary drives rated for durability in high-capacity, high-torque applications
- Double reduction gearing for increased torque
- Precision ground, heat-treated gears

Steer Axle

- Thick top plate on welded beam steer axle provides added strength
- Highly maneuverable in tight areas
- Dual-action bolt-on cylinder is protected by heavy steel support beams and provides effortless power steering
- Lower maintenance costs due to minimal amount of moving parts
- Easy-access lubrication points
- Tapered roller bearings

Paint/Finish

- Two-part rust-inhibiting polyurethane base coat and two-part polyurethane top coat for corrosion protection
- Majority of components are powder-coated, which is up to 10 times thicker than traditional spray paint resulting in greater scratch and chip resistance
- Environmentally friendly; produces virtually no VOC's

Serviceability

- Hinged panels and hoods
- Every component sourced from a reputable vendor or manufactured by Royal Rig N' Lift providing cost savings and rapid parts availability

Optional Equipment & Features

- Fire extinguisher
- Single or Dual-Camera
- Side-shifting, independent fork positioner (SS/FP)
- Boom attachments: hooks, shackles, swivels and more
- Lifting ring assemblies (slides over boom for 2-pc picks)
- Additional work lights
- "Blue Spot" Safety Light
- Custom Paint