

Statistics for April 2023

April 2023 Call Volume

Call Type	# Of Responses	% Of Call Volume
Fires	0	0 %
Rescue & EMS	48	53.93 %
Hazardous Condition (No Fire)	3	3.37 %
Service Calls	12	13.48 %
Good Intent Calls	14	15.73 %
False Alarms	8	8.99 %
Severe Weather /Disaster	4	4.49 %
Special Incident Type	0	0 %
Total:	89	100 %

EMS Patients (Residents vs. Non-Resident)

Resident	Non- Resident
40	10



Vehicle extrication tools





Old vs new

Amkus Rescue Systems Hydraulic Extrication Tools



Hurst EDraulics





Old vs new

Amkus Rescue Systems Hydraulic Extrication Tools

- Requires gas powered generator
- Additional personnel needed to operate both generator and tool
- Tools attached to generator by hydraulic hoses, limits mobility
- Only two tools can be operated at one time
- NFPA 1936 2020 Compliant: No
- Manufactured 1999 (24 years old)

Hurst EDraulics

- Battery Operated (no carbon monoxide)
- Able to be operated indoors
- Stand-alone tool can be fully operated by one firefighter
- No hydraulic hoses
- All tools can be operated simultaneously
- Submersible in salt or fresh water up to 11 feet
- NFPA 1936 2020 Compliant: Yes
- Manufactured 2023



Cutters

Amkus AMK 22







- Weight: 46 lbs
- Cutter Opening: 5 inches
- Amkus claims a maximum cutting force of 200,807 lbs however this number has not been tested by a 3rd party and does not translate to new NFPA performance based standards

Hurst Edraulic S 789 E3 Cutters

- Weight: 49.4 lbs
- Cutter Opening: 8.07 inches
- Max Cutting Force: meets NFPA 1936 2020 Standards A8/B9/C8/D9/E9/F5

nFPA Performance based Testing

NFPA CUT TABLE

Material Category	A Round Bar	B Flat Bar	C Round Pipe	D Square Tube	E Angle Iron	F Rectangular Tube
						
STEEL TYPE:	A-36 Hot-Rolled	A-36 Hot-Rolled	Schedule 40 A-53 Grade B	A-500 Grade B	A-36	4130
PERFORMANCE LEVEL	DIAMETER	THICKNESS X WIDTH	NOMINAL SIZE X OD X WALL THICKNESS	DIM X WALL THICKNESS	SQ. DIM X THICKNESS	SQ. DIM X THICKNESS
	MM	MM	MM	MM	MM	MM
1	9.5	6.4 x 12.7	9.5 x 17.2 x 2.2	12.7 x 1.5	12.7 x 3.2	25 x 50 x 1.7
2	12.7	6.4 x 25.4	19 x 26.6 x 2.79	19.1 x 1.5	25.4 x 3.2	25 x 50 x 2.1
3	15.8	6.4 x 50.8	25.4 x 33.5 x 3.3	25.4 x 2	31.8 x 4.8	25 x 50 x 3.0
4	19.1	6.4 x 76.2	31. x 42.2 x 3.5	31.8 x 3	38.1 x 4.8	50 x 76 x 3.2
5	22.2	6.4 x 101.6	38.1 x 48.3 x 3.8	38.1 x 3	38.1 x 6.4	50 x 76 x 4.8
6	25.4	9.5 x 76.2	50.8 x 60.5 x 3.8	44.5 x 3	44.5 x 6.4	50 x 101 x 4.8
7	31.8	9.5 x 101.6	63.5 x 73.2 x 5.1	50.8 x 3.8	38.1 x 9.5	50 x 101 x 6.4
8	38.1	9.5 x 126	76.2 x 89 x 5.6	63.5 x 4.8	50.8 x 9.5	
9	44.45	9.5 x 152.4	89 x 101.6 x 5.8	76.2 x 4.8	63.5 x 9.5	

* Category F consists of high strength exotic metals found in modern vehicles



spreaders

Amkus AMK-30CX

- Max Spreader Opening: 32 in.
- Max Spreader Force: 16,950 lbs
- Weight: 47.5 lbs

Hurst Edraulic SP 555 E3

- Max Spreader Opening: 28.7 in.
- Max Spreading Force: 147,924 lbs
- Weight: 43.6 lbs



Ram

Amkus AMK-40R

- Max Length: 40 inches
- Max Push Force: 30,650 lbs
- Weight: 33 lbs

Hurst EDraulic R 522 E3

- Max Length: 59.2 inches
- Max Push Force: 42,100 lbs
- Weight: 45 lbs



Conclusion

- Hurst EDraulic tools, while slightly heavier, are significantly more powerful
- Battery operated tools allow for increased mobility as they are not connected to a separate power supply
- With no exhaust gases, tools can be operated indoors or in confined spaces
- With all tools operating simultaneously, tasks can be completed more efficiently
- No additional personnel are needed to operate hydraulic power supply, freeing up resources to provide patient care
- Submersible tools meet the needs of a coastal community