

Hurst eDraulics: Overnight Success?



Not a Chance!
16 Years of Evolution...
...to becoming the best selling tools today!

GETTING A GRIP:

Hurst Diamond Tips

150 Relentless Diamond Points on Every Spreader Tip (eDraulics & Hosed Tools)



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HURST eDRAULICS:

No Overnight Success!

Hurst eDraulic History:

Currently, Hurst's eDraulics (Meaning Electric Power Driving the Hydraulic Pump) are the best selling tools, period – hosed or otherwise. But let's review the history.

Generation #1 (1998 – 2002):

The first generation of our eDraulic tools (not called eDraulics back then in 1998) were unbalanced, had bulky batteries, but worse than that, these tools had chronic problems with the battery as well as with the tools. Cold Temperatures were an issue as were constant break downs. Some units came back to our shop as many as 6 times. The frustration level was extreme. Eventually, all these tools were taken out of service, and we ceased to promote these tools.

Generation #2 (2002 – 2009):

This second generation of our Hurst Battery Tools (still not called eDraulics) had nickel cadmium technology. After the fall-out from the first generation, Code 4 did its own extensive testing and didn't promote this

vintage as Spreading and Cutting Forces were less than our Hosed-Hydraulics. These tools were also sluggish.

Generation #3 (2009 – Present): Modern Hurst eDraulics

We had heard that Hurst and its sister company Lukas in Germany were quietly working on something special for about 2 or 3 years. Finally, the Generation 3 of Hurst's Battery-Operated Hydraulic Tools were introduced to the world. This was the dawn of Hurst eDraulics.

Though Hurst eDraulic Tools had arrived, we were still cautious and wanted to push them harder than any tools Hurst ever developed to ensure longevity in the field. We still have 3 sets or original Demo eDraulics from 2009 and between the 3 sets we have cut up over 1500 cars and 25 School Buses and have breached hundreds of man-doors, over-head doors as well as foundation walls in confined spaces. Each of these sets has seen more action than fire departments would see in 10 lifetimes. Hurst's eDraulics are here to stay. They have become real game changers.

OUR MOST ASKED QUESTIONS ABOUT HURST eDRAULICS:

How Many Battery/eDraulics Tools do you have in service?

Code 4 has hundreds of eDraulic Tools in Service

How Long have you had this version of Battery Tools (eDraulics)?

4 years

How many departments are currently using your battery tools?

Code 4 has over 100 eDraulic Users

How many winters @ Minus 30C/ Minus 20F?

Code 4's eDraulics have 4 years performance at these temps

Who are they?

Ask us for a written list. Many are on page 16

How many loaner battery tool sets do you have in case we need one?

Code 4 has 6 Sets of eDraulic Loaners



CODE 4: EXTRICATION COURSES

Courses meet or exceed NFPA 1006 Compliance Requirements

CLASSROOM:

This portion incorporates important rarely-visited elements including Newtonian Physics, Hydraulics and the concept of Empirical Deduction and how they apply to the rescue scene.

New Vehicle Technology Training involving Hybrids.

PRACTICAL:

The intent of the practical portion is for you to be armed with understanding basic and advanced elements of auto-extrication and vehicle anatomy and be able to address questions presented to you.

PRACTICAL AND WRITTEN TESTING:

All students will be tested on both Classroom and Practical elements learned the previous day.

FORENSIC EXTRICATION EVALUATION – A CODE 4 TRADEMARK:

An evaluation teaching technique created exclusively by Chris Christie of Code 4 is one of the most powerful elements of our two and three day courses. Using his BSc., and background of writing and/or publishing over 100 articles as well as producing numerous Training DVDs related to the field of extrication, this powerful technique is one of the best Training techniques available to date.

Forensic Written Test on Final Day

CODE 4 EXTRICATION COURSES:

- 1 Day Basic Extrication Course
- 2 Day Advanced Extrication Course
- 2 Day Train the Trainer Course
- 3 Day Train the Trainer Course
- 2 Day Bus Extrication Course



TRAINING TIP: Stop Cutter Migration

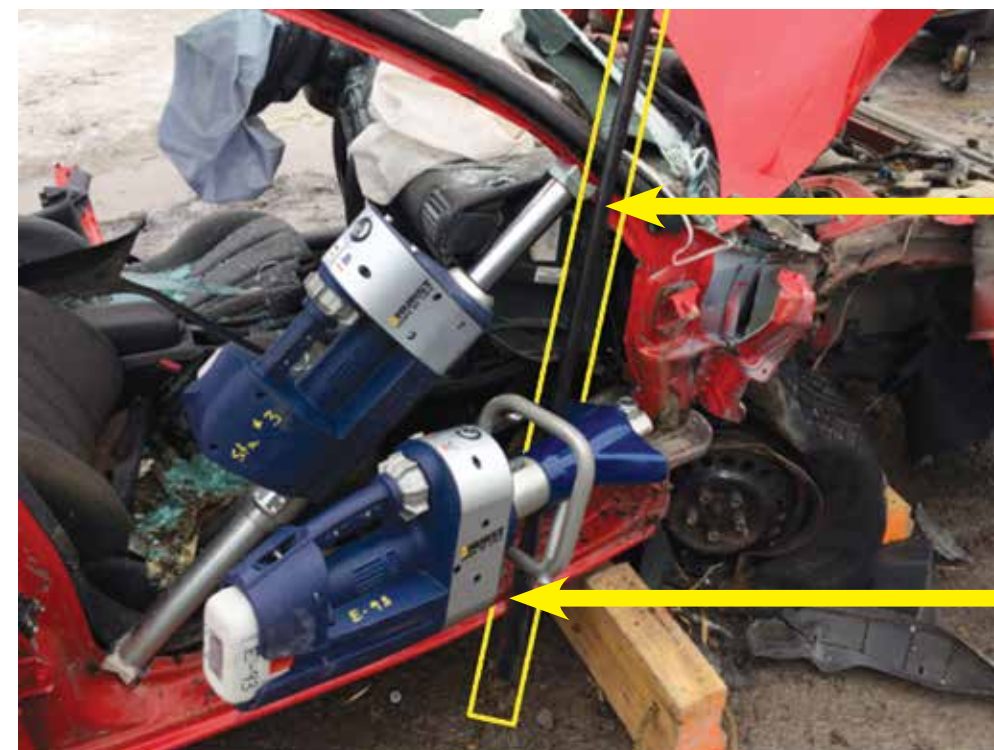


Figure 1

Situation:

X

You have already initiated a Dash Displacement with your Ram. As you extend the Ram the displacement is struggling and you realize it is because you didn't cut completely through the Lower "A" Post. So you re-introduce the Cutter and position the Cutter to cut through the Lower "A" Post, but now, it pivots inward towards the patient's seat and touches the Ram and now compromises the Ram and potentially the patient as well.

Y

What do you do?

Open the cutter and take it completely away. Place a long Pry Bar (*highlighted in yellow*) so that the top portion of the Bar rests on the outside of the Upper "A" Post (Point X) and the lower portion of the Pry Bar rests against the outer side of the Running Board (Point Y). Again, reintroduce the Cutter and slowly close the Cutter to finish cutting entirely through the "A" Post. As the Cutter closes, it will now pivot into the Pry Bar and the Pry Bar will block the Cutter from pivoting into the Ram. Even if you don't have a Ram in place, but simply want to stop hand entrapment against the patient's seat, this technique is a great option.

X

Y

– Jason Defosse



Figure 2



HURST eDRAULICS

SEPARATE TOOL SYSTEM

All Hurst eDraulic Tools are NFPA Certified



SP 300E SPREADER
c/w 2 Batteries & Charger



S 311E Cutter
c/w 2 Batteries & Charger



S 700E CUTTER



R 411E RAM
c/w 2 Batteries & Charger
(extension not shown)

CODE 4: CURRENT eDRAULICS TESTIMONIALS

"Could not be happier with our Hurst eDraulics (after having hosed tools for 25 years)"....."We have used our Hurst eDraulics for 3 years and they have excellent Power, Speed and Dependability"....."These are solid tools that have performed exceptionally well over hundreds of evolutions"....."The Power of the Tools and the duration of Battery Life were beyond what we were expecting"....."We have had numerous MVAs as well as 2 Chain Reaction MVAs and the eDraulic S700E is our most powerful cutter"....."During an extremely Cold Rescue, the eDraulic Tools worked very well to complete the extrication"....."The ability to immediately deploy the eDraulic Tools with just the push of a button has allowed us to complete an extrication before we can even hook up the hosed tools"....."L.E.D. Lights are a huge benefit at night"....."The quiet at the scene with no power unit noise allows us to do our job with fewer distractions."

HURST eDRAULICS

COMBINATION TOOL SYSTEM

Rapid Response Tool: A Must For Every Department



60
RECENT
SC 350E
DELIVERIES

SC 350E Combination Tool
c/w 2 Batteries & Charger Add: 110 Volt Adapter

EVERY
DEPARTMENT
MUST HAVE AT
LEAST ONE
SC 350E
COMBINATION
TOOL

110 Volt Adapter
Run Off Generator All Day Long



OUR CUSTOMERS: eDRAULICS IN OTHER APPLICATIONS:

- FIRE SUPPRESSION:** "We Used the SP 300E eDraulic Spreader to first breach an Overhead door so we could lay a hose line for a Structure Fire – great because no time was wasted hooking up hoses"
- BUILDING COLLAPSE:** "Carrying our Hurst eDraulic Spreader and Cutter up 3 flights during a building collapse for a construction worker rescue, the eDraulic Tools performed flawlessly"
- 96 CAR CHAIN REACTION MVA:** "We have 3 Sets of Hurst Hosed tools, and 5 Hurst eDraulics Tools. In this call, we deployed only 2 eDraulic tools one-half mile down the highway from our Rescue Unit - extricating patients along the way with no hoses to hinder us"
- MANPOWER ADVANTAGES:** "In this same 96 vehicle MVA, we needed only 2 Rescuers to carry 2 tools. With our Hosed tools, we would have needed 5 Rescuers – 2 for both tools, 2 for the power unit and 1 for the Hoses"
- ELEVATOR RESCUE:** "The excellent portability of the Spreader allowed for a rapid Elevator Rescue"



LOW & HIGH PRESSURE

SEPARATE TOOLS



Defender/SP 310 Spreader



JL-500/S700 Cutter



Quad Power Unit
4 Pumps: 2 @ Turbo Speed



Simo Power Unit
2 Pumps: 1 @ Turbo Speed



T-59 Ram
Our Best Ram Ever

COMBINATION TOOL SYSTEM



**MOC/SC-550
COMBINATION TOOL**



**ML 630 SI
DUAL PUMP**

185
TOOL
DELIVERIES
IN 2013/2014



Streamline Couplings
Convert your old Hurst Tools
- Change Tools under Load

SPECIALTY ITEMS



SCHMITZ ULTRA-MITZ
The safest gloves ever



Rhyno Windshield Saw
A must for every windshield



The Shark
Collapsible Cribbing



HURST Quick Strut
Sets up in 30 seconds



SC 250 M Manual Combi
The Best Manual Tool Ever



Jack Rabbit Tool
9" Lift, Many Applications & Great for Elevator Rescues



Mini-Cutter
For So Many Applications



**Ajax 911-RK Super
Duty Kit**

VEHICLE STABILIZATION TOOLS

RESCUE 42: *The Best There Is.*



Orillia Fire Department, Ontario

295
SYSTEMS
DELIVERED



**Dash Displacement
with Rescue 42**

Rescue 42 STRUT TRUCK KIT:
Our most popular 4 strut kit

TRAINING TIP

Eliminate Ram Slippage



Only Attempt this with Hurst Tools. If you have another brand other than Hurst, check with the Manufacturer whether this can be done with their tools. This is a technique to consider when all else has failed. You want to be very careful with this technique by being slow and deliberate.

SITUATION:

You are attempting a Dash Displacement and the extending end of the Ram is dangerously slipping up the "A" Post with a risk of slipping off in a violent manner. You are unable to safely continue a Dash Displacement.

WHAT DO YOU DO?

Clamp the Spreader perpendicular to the "A" Post in anticipation of the underside of the Spreader Tip meeting the extending Head of the Ram as it rides up the "A" Post so that the Ram Head will eventually press up against the Spreader Tip. The Ram Head will actually tuck up underneath the Spreader Tip where it meets the "A" post.

KEY POINTS:

- 90% of the Ram's force is directly on the "A" Post, NOT THE SPREADER TIP. The Spreader Tip merely stops any slippage.
- Spreader Tip must always be at right angles to the "A" Post.
- Hold the Spreader throttle in a closed position for 10 seconds to allow the continued squeezing of the Spreader to ensure the Spreader is clamped tight (the 10 seconds would ensure that the Spreader has reached pressure relief).
- As the extending Ram Head touches the underside of the Clamped Spreader Tip, stop to check and see that the intersection between the Ram Head, the "A" Post and Spreader Tip appears stable.
- Slowly proceed with very short bursts of the Ram Throttle to ensure safety and continue to elevate the Dash just enough to remove the patient since stability diminishes more and more as the Ram is extended.
- Do not have any Rescuer stand close to the Spreader/Ram Interface in the Upper "A" Post area in case the Ram kicks off.

– Chris Christie

VETTER AIR BAGS

OUR BEST SELLING SYSTEM:

2 Bag, 54 Ton High Pressure System

42 DELIVERIES IN 2013/2014



OUR LOW PRESSURE WEDGE BAG SYSTEM

Increased Stability

- Uniform pressure distribution
- Safe operation
- For thin-walled coachwork
- Wedge-shaped for optimum lift angle



Wedge lifting bag set up to 13.2 US tons		3110008800
2 wedge lifting bags 1 bar (14.5 psi), 6 t (6.6 US tons)	2 filling hoses 1 bar, 5 m, yellow and red (14.5 psi, 16.4 ft.)	
Dual controller 1 bar (14.5 psi), deadman control	Pressure regulator 200 / 300 bar (2,900 / 4,350 psi)	
Packing bag 80x56x23 cm (31 x 22x9 inches)	Repair material	

CODE4 SERVICE

1. AIR BAG TESTING

ACCORDING TO **GUV-G 9102** AND **MANUFACTURER REGULATIONS & OSHA SECTION 25, #2-H:**

“VETTER” AIR BAG INSPECTION AND PRESSURE TESTING EVERY 5 YEARS

CALL US TO HAVE YOUR AIR BAGS TESTED



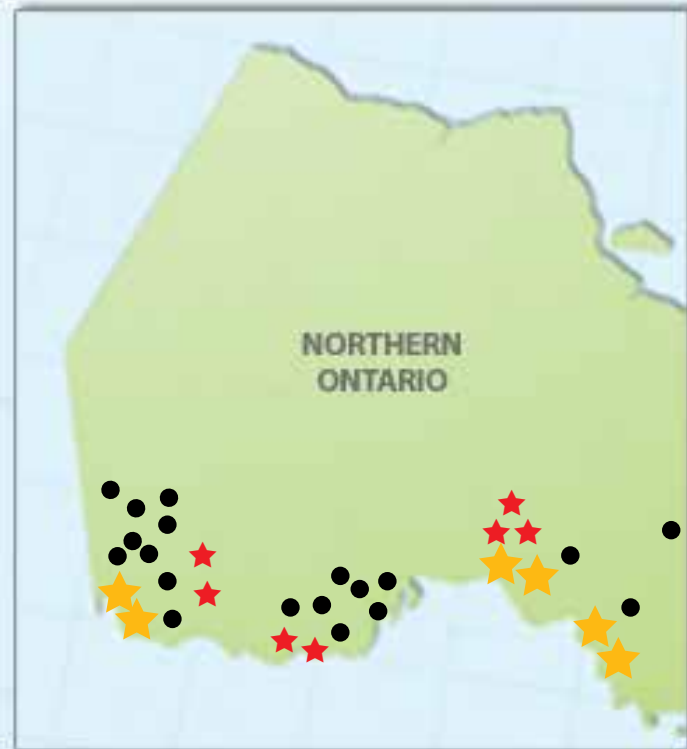
2. HURST “JAWS OF LIFE”

PREVENTATIVE MAINTENANCE (PM) TOOL SERVICE

MAKE SURE YOUR TOOLS ARE READY FOR YOUR NEXT RESCUE

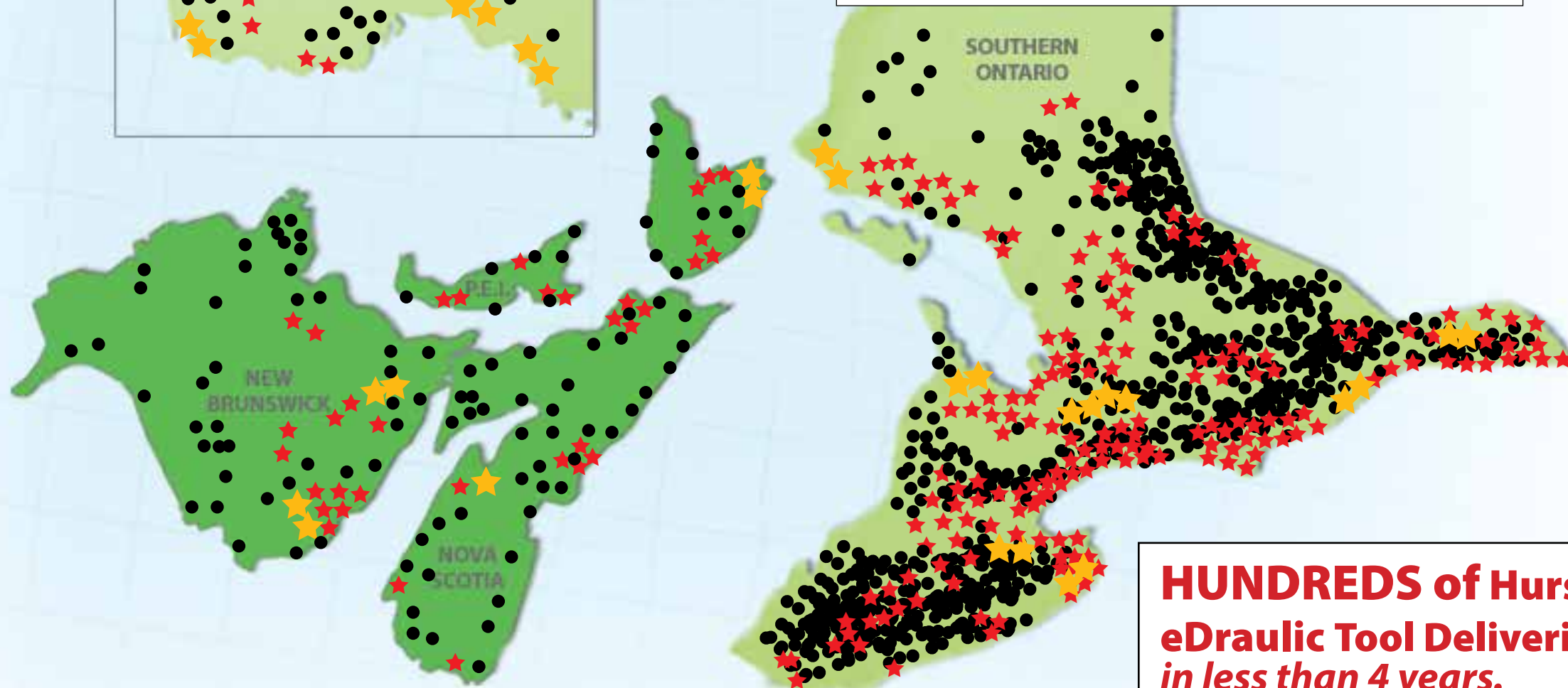
CALL US TO SCHEDULE YOUR NEXT PM SERVICE

HURST eDRAULIC DELIVERIES



- ★ *New eDraulic Deliveries*
- ★ *Existing eDraulic users*
- *Hurst Hosed Systems*

*Department of National Defence:
96 Hurst eDraulic Tools*



HUNDREDS of Hurst
eDraulic Tool Deliveries
in less than 4 years.



eDRAULICS DELIVERIES:

BLUE INDICATES CURRENT DELIVERIES

eDRAULICS: ONTARIO:

Milton FD; Hamilton FD (4 Sets); **Napanee FD** (2 Sets); **Guelph FD** (3 Sets); **Welland FD** (3 Sets); **Collingwood FD; Quinte West FD** (3 Sets) **Woodstock FD; Kemptville FD; Winchester FD; Mountain FD; Kerwood FD; Mount Brydges FD; Papineau-Cameron FD; Orangeville FD; Nipigon FD; Rideau Lakes** (2 Sets); **West Grey FD** (2 Sets); **Sault Ste. Marie FD; Orillia FD – Akwasasne FD** (3 Sets); Toronto FD; Guelph FD (2 Sets); Department of National Defense (24 Sets); Whitby FD (2 Sets); La Salle FD; Oshawa FD (3 Sets); Ramara FD; Severn Township FD; Rama FD; Elliott Lake FD; Whitney FD; Tiny Township FD; Sudbury FD (3 Sets); Niagara Falls FD (2 Sets); CFB Trenton FD (2 Sets); Puslinch FD; Vaughan FD (4 Sets); Dymond (T.S.) FD; Barrie FD (3 Sets); Cornwall FD; Mohawk FD; Atomic Energy FD; Bracebridge FD; Fort Frances FD (2 Sets); Cambridge FD; US Steel Nanticoke FD; North Stormont FD; Hawkesbury FD; Wardsville FD - Britt FD; Napanee FD; Thorold FD; Magnetawan FD; GM Canada FD; St. Catharines FD; Toyota Canada; Leeds and 1000 Islands FD; Peterborough FD (2 Sets); South River FD

eDRAULICS: ATLANTIC REGION:

Cocagne FD; Saint John FD (2 Sets); **Chipman FD; Sunny Corner; Lakes & District FD Waterville FD**; New Maryland FD; Belleisle FD; Sydney Mines FD; Antigonish County Fire Dept (2 Sets); Freeport FD; Souris FD; Kinkora FD; L'Ardoise FD

RESCUE 42: ONTARIO - MOST RECENT:

Elliot Lake FD; Atikokan FD; Brockville FD; Cartier FD; Grand Valley FD; Akwasasne FD (2 Sets); **Norfolk County FD** (6 Sets); **Havelock FD; Norwood FD; Prescott FD**; DND FDs (20 Sets); Haldimand County FD (6 Sets); Waterloo FD (5 Sets); Chatham-Kent FD (6 Sets); St. Catharines FD (2 Sets); North Glengarry FD; Neebing FD; US Steel FD; Sarnia FD; London FD (2 Sets); Cambridge FD; Meaford FD; Wilmot Twp FD; Centre Hastings FD; Fort Francis FD; Kenora FD; Edwardsburgh-Cardinal FD; Brussels FD; Peterborough FD; Terrace Bay FD; Guelph FD (2 Sets); Gravenhurst FD; North Dumfries FD; Pickering FD (2 Sets); and many more...

RESCUE 42: ATLANTIC REGION - MOST RECENT:

Moncton FD (2 Sets); Barneys River FD; Petitcodiac FD; **Coles Island FD**; Digby FD; Reserve Mines FD; Salisbury FD; and many more...

QUAD (4 PUMP) POWER UNIT

4 Tools @ Normal Speed
2 Tools @ Ultra Fast Turbo



CODE4 RAPID RESPONSE KIT



RESCUE 42 STRUT TRUCK KIT

Our Best Seller



VETTER AIRBAGS:

2 Bag - 54 ton set
Our Best Seller



CODE 4 EXTRICATION COURSES:

- Train-The-Trainer 2 & 3 Day
- School Bus 2 Day
- 1 & 2 Day Basic & Advanced

Terrace Bay Fire Department >



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