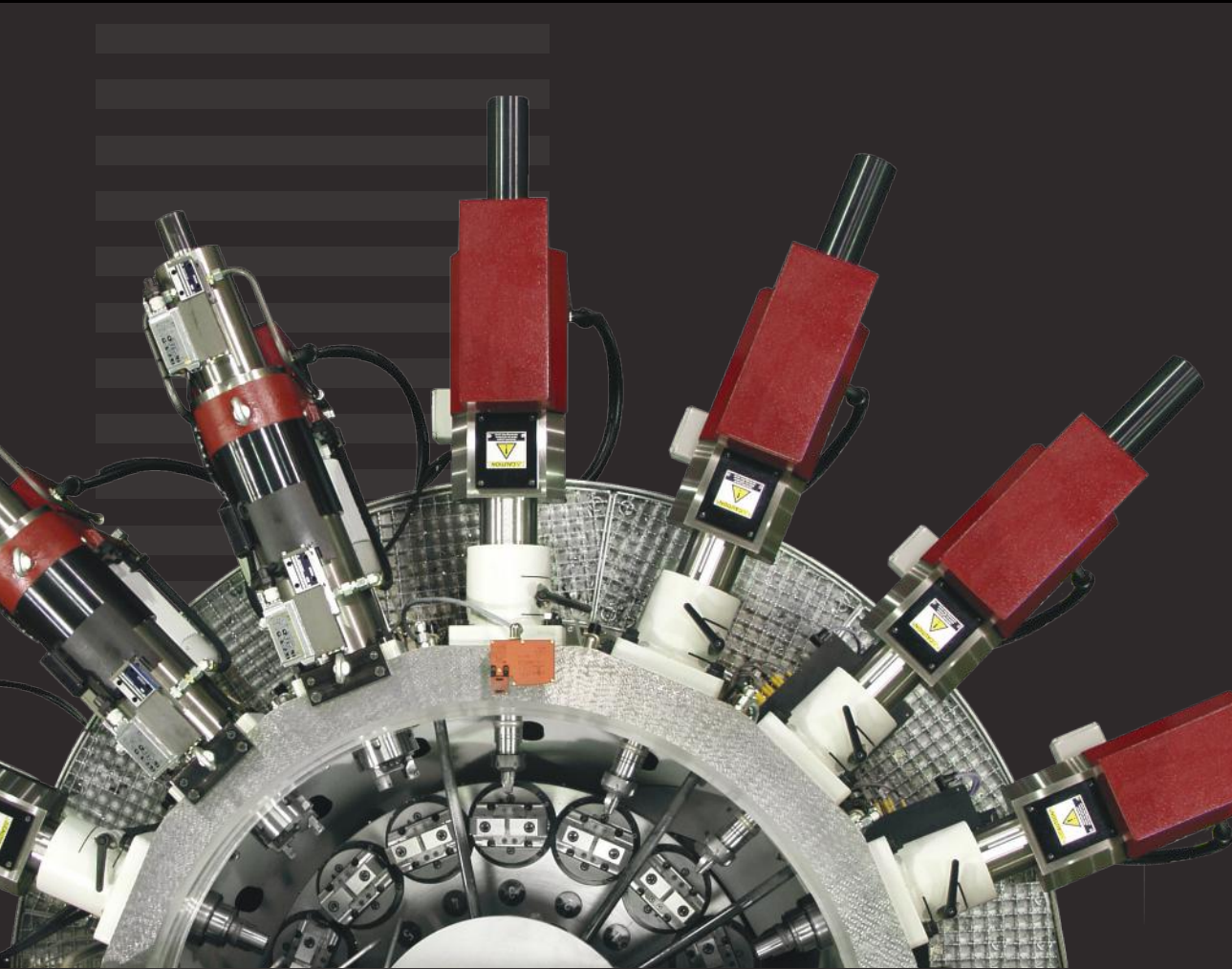


# HYDROMAT PROCESSING CAPABILITIES



**HYDROMAT**<sup>®</sup>



# APPLICATIONS CATALOG

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# AUTOMOTIVE

APPLICATIONS



ALUMINUM - A3004S-H112 - IMPACT BLANK  
CYCLE TIME: 5.5 SEC



STAINLESS STEEL - 2205 - BAR STOCK  
CYCLE TIME: 11.9 SEC



STEEL - 52100 - COLD FORMED BLANK  
CYCLE TIME: 12.7 SEC



STEEL - 1013 - COLD FORMED BLANK  
CYCLE TIME: 4.0 SEC



STAINLESS STEEL - 304L - CASTING  
CYCLE TIME: 18.2 SEC



STEEL - 1013 - COLD FORMED BLANK  
CYCLE TIME: 5.1 SEC

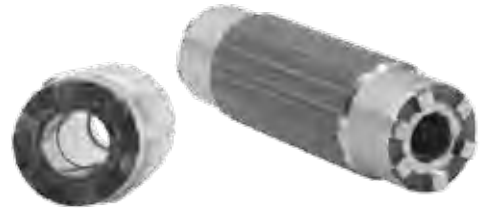


# AUTOMOTIVE

## APPLICATIONS



ALUMINUM - 6061-T6 - BAR STOCK  
CYCLE TIME: 5.0 SEC



FREE MACHINING STEEL - 1008 - FORGING  
CYCLE TIME: 7.0 SEC



STAINLESS STEEL - 303 - BAR STOCK  
CYCLE TIME: 8.0 SEC



FREE MACHINING STEEL - 1513 - FORGING  
CYCLE TIME: 3.5 SEC



FREE MACHINING STEEL - 1215 - BAR STOCK  
CYCLE TIME: 7.0 SEC



FREE MACHINING STEEL - 1513 - FORGING  
CYCLE TIME: 3.5 SEC



STAINLESS STEEL - 430FR - BAR STOCK  
CYCLE TIME: 4.2 SEC



FREE MACHINING STEEL - 1513 - FORGING  
CYCLE TIME: 3.5 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 7.8 SEC



FREE MACHINING STEEL - 1513 - FORGING  
CYCLE TIME: 3.5 SEC





ALLOY STEEL - 8620 - PRE-MACHINED BLANK  
CYCLE TIME: 7.9 SEC



ALLOY STEEL - 5120 - BAR STOCK  
CYCLE TIME: 9.0 SEC



STAINLESS STEEL - 303 - GROUND BAR STOCK  
CYCLE TIME: 14.7 SEC



ALLOY STEEL - 1144 STRESS PROOF - BAR STOCK  
CYCLE TIME: 7.6 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 4.5 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 9.8 SEC



ALLOY STEEL - 41L40 - BAR STOCK  
CYCLE TIME: 12.0 SEC



SINTERED / POWERDERED METAL - BLANK  
CYCLE TIME: 3.0 SEC



ALLOY STEEL - 41L40 - BAR STOCK  
CYCLE TIME: 14.0 SEC



STEEL - 1117 - BLANK  
CYCLE TIME: 9.0 SEC

# AUTOMOTIVE APPLICATIONS



FREE MACHINING STEEL - 1215 - BAR STOCK  
CYCLE TIME: 3.9 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 9.0 SEC



ALUMINUM - 6061-T6 - BAR STOCK  
CYCLE TIME: 5.4 SEC



ALUMINUM - 6061 - BAR STOCK  
CYCLE TIME: 3.6 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 10.5



FREE MACHINING STEEL - 1215 - BAR STOCK  
CYCLE TIME: 5.8 SEC



ALLOY STEEL - 9310 - BAR STOCK  
CYCLE TIME: 14.5 SEC



FREE MACHINING STEEL - 1215 - BAR STOCK  
CYCLE TIME: 7.0 SEC



FREE MACHINING STEEL - 12L14 - PRE-MACHINED BLANK  
CYCLE TIME: 7.5 SEC



ALUMINUM - 6061-T6 - IMPACT BLANK  
CYCLE TIME: 7.0 SEC



ALLOY STEEL - 5120 - PRE-MACHINED BLANK  
CYCLE TIME: 8.0 SEC



ALUMINUM - 6061 - BAR STOCK  
CYCLE TIME: 9.3 SEC



ALUMINUM - 6005-T5 - EXTRUDED BLANK  
CYCLE TIME: 6.6 SEC



ALUMINUM - 6061-T6 - BAR STOCK  
CYCLE TIME: 12.8 SEC



ALUMINUM - 6060-T6 - BAR STOCK  
CYCLE TIME: 11.9 SEC



ALUMINUM - 6061-T6 - BAR STOCK  
CYCLE TIME: 10.4 SEC



ALUMINUM - 6061-T6 - BAR STOCK  
CYCLE TIME: 3.5 SEC



ALUMINUM - 6061-T6 - EXTRUDED BAR  
CYCLE TIME: 3.5 SEC



ALUMINUM - A30045-H112 - BAR STOCK  
CYCLE TIME: 5.7 SEC



ALUMINUM - 6061-T6 - BAR STOCK  
CYCLE TIME: 8.0 SEC

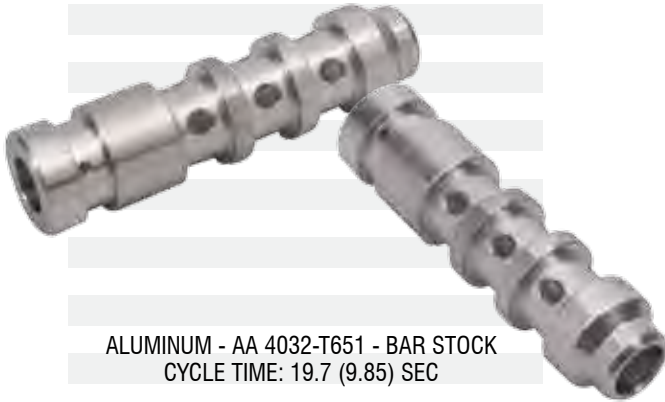
# AUTOMOTIVE APPLICATIONS



STEEL - 1215 - DOUBLE DRAWN BAR STOCK  
CYCLE TIME: 8.0 SEC



STAINLESS STEEL - 302 HQ - COLD FORMED BLANK  
CYCLE TIME: 13.0 SEC - DOUBLE PRODUCTION  
CYCLE TIME: 6.5 SEC PER PART



ALUMINUM - AA 4032-T651 - BAR STOCK  
CYCLE TIME: 19.7 (9.85) SEC



STAINLESS STEEL - 302 HQ - COLD FORMED BLANK  
CYCLE TIME: 9.0 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 9.8 SEC



ALLOY STEEL - 8620 L - BAR STOCK  
CYCLE TIME: 9.5 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 7.8 SEC



ALLOY STEEL - 8620 - BAR STOCK  
CYCLE TIME: 12.0 SEC



ALUMINUM - H5302 - DIE CASTING  
CYCLE TIME: 12.0 SEC



STEEL - 4023 - BLANK  
CYCLE TIME: 5.8 SEC





STAINLESS STEEL - 2205 - BAR STOCK  
CYCLE TIME: 11.9 SEC



ALUMINUM - DIE CASTING  
CYCLE TIME: 10.0 SEC



STAINLESS STEEL - 303 - BAR STOCK  
CYCLE TIME: 12.5 SEC



ALUMINUM - DA3103DB-H18 - TUBE STOCK  
CYCLE TIME: 6.6 SEC



STAINLESS STEEL - 2205 - BAR STOCK  
CYCLE TIME: 17.0 SEC



FREE MACHINING STEEL - 1215 - BAR STOCK  
CYCLE TIME: 13.9 SEC



ALUMINUM - 6061-T6 - EXTRUDED BAR  
CYCLE TIME: 4.2 SEC



ALLOY STEEL - 1541 - CASTING  
CYCLE TIME: 10.0 SEC

# DEFENSE · AEROSPACE

APPLICATIONS



STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 5.0 SEC



STEEL - 4140 - BAR STOCK  
CYCLE TIME: 19.5 SEC



STAINLESS STEEL - A-286 - COLD FORMED BLANK  
CYCLE TIME: 10.50 SEC



ALUMINUM - 2011 - BAR STOCK  
CYCLE TIME: 14.5 SEC



STEEL - 4130 - COLD FORMED BLANK  
CYCLE TIME: 10.0 SEC



STEEL ALLOY - WASPALOY - COLD FORMED BLANK  
CYCLE TIME: 10.50 SEC



BRASS - 360 - BAR STOCK  
CYCLE TIME: 19.0 SEC



ALUMINUM - 6661-T6 - IMPACT BLANK  
CYCLE TIME: 4.9 SEC



STAINLESS STEEL - 17-4 PH - BAR STOCK  
CYCLE TIME: 17.0 SEC



ALUMINUM - 7075-T6 - BAR STOCK  
CYCLE TIME: 5.40 SEC



ALUMINUM - 6061-T6 - BAR STOCK  
CYCLE TIME: 10.0 SEC



STAINLESS STEEL - 17-4 PH - BAR STOCK  
CYCLE TIME: 25.0 SEC

# ELECTRICAL APPLICATIONS



STAINLESS STEEL - 303 - BAR STOCK  
CYCLE TIME: 3.0 SEC



COPPER - 110 - BAR STOCK  
CYCLE TIME: 5.8 SEC



BRASS - 360 - BAR STOCK  
CYCLE TIME: 7.4 SEC



BRASS - 360 - BAR STOCK  
CYCLE TIME: 7.9 SEC



ALUMINUM - DIE CAST AL/ZINC - CASTING  
CYCLE TIME: 7.0 SEC



STAINLESS STEEL - 303 - BAR STOCK  
CYCLE TIME: 2.8 SEC



STAINLESS STEEL - 303 - BAR STOCK  
CYCLE TIME: 11.0 SEC

## HVAC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 5.9 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 9.8 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 10.8 SEC

# RECREATIONAL & SMALL ENGINE

## CONSUMER PRODUCTS



ALUMINUM - 7076 T6 - BAR STOCK  
CYCLE TIME: 5.8 SEC



STEEL - 4140 - BAR STOCK  
CYCLE TIME: 10.0 SEC



ALUMINUM - 2011 - PRE-MACHINED BLANK  
CYCLE TIME: 26.7 SEC



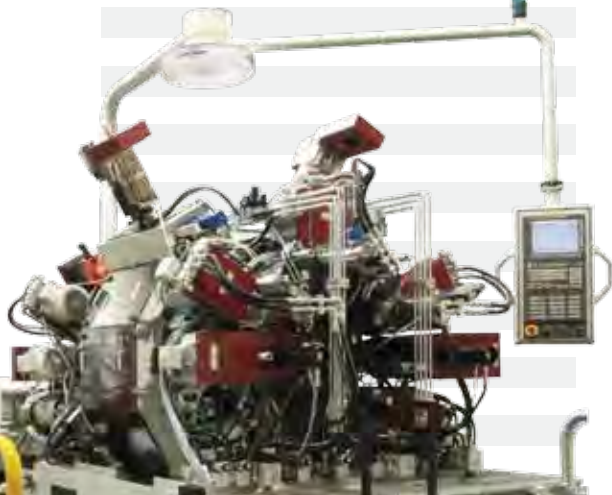
ALUMINUM - H 5023 - BLANK  
CYCLE TIME: 6.8 SEC



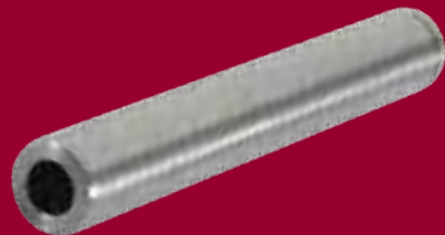
ALUMINUM - 6063 - TUBE STOCK  
CYCLE TIME: 23.5 SEC



STAINLESS STEEL - 416 - BAR STOCK  
CYCLE TIME: 24.0 SEC



## MOTORCYCLES



SINTERED / POWDERED METAL - BLANK  
CYCLE TIME: 7.9 SEC



ALLOY STEEL - 8620 - BAR STOCK  
CYCLE TIME: 24.0 SEC

# FITTINGS & CONNECTORS

## DIESEL / TRUCK



ALLOY STEEL - 18CRN18 - BAR STOCK  
CYCLE TIME: 10.0 SEC



ALLOY STEEL - 8620 - PRE-MACHINED BLANK  
CYCLE TIME: 5.5 SEC



ALLOY STEEL - 1144 - BAR STOCK  
CYCLE TIME: 14.8 SEC



STEEL - 8620 - GROUND BAR STOCK  
CYCLE TIME: 18.1 SEC



BRASS - 360 - BAR STOCK  
CYCLE TIME: 5.0 SEC



BRASS - 360 - BAR STOCK  
CYCLE TIME: 5.0 SEC



BRASS - 360 - EXTRUDED BAR  
CYCLE TIME: 5.0 SEC



BRASS - 360 - BAR STOCK  
CYCLE TIME: 4.5 SEC



BRASS - 360 - BAR STOCK  
CYCLE TIME: 5.7 SEC

# FITTING & CONNECTOR

APPLICATIONS



FREE MACHINING STEEL - 1214B1 - FORGING  
CYCLE TIME: 11.0 SEC



FREE MACHINING STEEL - 12L14 - CASTING  
CYCLE TIME: 10.0



FREE MACHINING STEEL - 1214B1 - FORGING  
CYCLE TIME: 11.2 SEC



FREE MACHINING STEEL - 1215 - BAR STOCK  
CYCLE TIME: 11.5



ALLOY STEEL - 1144 - BAR STOCK  
CYCLE TIME: 20.7 SEC



FREE MACHINING STEEL - 1215 - BAR STOCK  
CYCLE TIME: 11.1



FREE MACHINING STEEL - 12L14 - CASTING  
CYCLE TIME: 8.0



STAINLESS STEEL - 316 - BAR STOCK  
CYCLE TIME: 20.0 SEC



ALUMINUM - 6262-T6511 - BAR STOCK  
CYCLE TIME: 12.6 SEC



BRASS - 360 - BAR STOCK  
CYCLE TIME: 13.0 SEC



FREE MACHINING STEEL - 1215 - BAR STOCK  
CYCLE TIME: 10.0



BRASS - 360 - BAR STOCK  
CYCLE TIME: 9.1 SEC



FREE MACHINING STEEL - 1215 - BAR STOCK  
CYCLE TIME: 7.8 SEC



FREE MACHINING STEEL - 1215 - BAR STOCK  
CYCLE TIME: 12.0 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 8.0 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 5.4 SEC



ALUMINUM - 6062 - BAR STOCK  
CYCLE TIME: 5.7 SEC



FREE MACHINING STEEL - 12L14 - CASTING  
CYCLE TIME: 12.0 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 14.5 SEC

# PLUMBING



STAINLESS STEEL - 303 - BAR STOCK  
CYCLE TIME: 6.0 SEC



STAINLESS STEEL - 303 - BAR STOCK  
CYCLE TIME: 9.0 SEC



STEEL - 1022 - FORGING  
CYCLE TIME: 8.0 SEC



STEEL - 1022 - FORGING  
CYCLE TIME: 13.0 SEC



STAINLESS STEEL - 430 F - BAR STOCK  
CYCLE TIME: 7.3 SEC



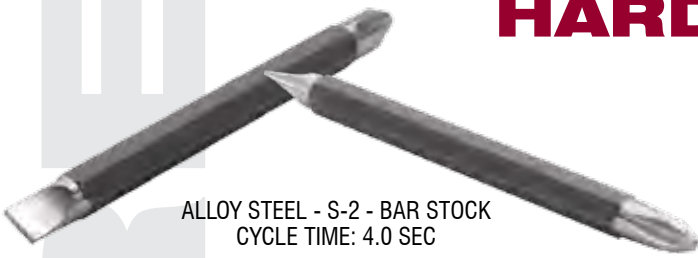
BRASS - 360 - BAR STOCK  
CYCLE TIME: 12.9 SEC



BRASS - 360 - PRE-MACHINED BLANK  
CYCLE TIME: 9.8 SEC



# HARDWARE



ALLOY STEEL - S-2 - BAR STOCK  
CYCLE TIME: 4.0 SEC



STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 9.8 SEC



STEEL - 10L95 - BLANK  
CYCLE TIME: 6.5 SEC



ALUMINUM - 2024 T4 - BAR STOCK  
CYCLE TIME: 3.0 SEC



STAINLESS STEEL - 303 - BAR STOCK  
CYCLE TIME: 13.6 SEC



FREE MACHINING STEEL - 12L14 - BAR STOCK  
CYCLE TIME: 6.9 SEC



BRASS - 360 - BAR STOCK  
CYCLE TIME: 7.5 SEC



STAINLESS STEEL - 440 F - BAR STOCK  
CYCLE TIME: 6.5 SEC



COPPER - 112 - PRE-CORED BAR STOCK  
CYCLE TIME: 2.5 SEC



BRASS - 360 - FORGING  
CYCLE TIME: 17.0 SEC



COPPER - 112 - PRE-CORED BAR STOCK  
CYCLE TIME: 2.3 SEC

## APPLICATIONS



AUTOMOTIVE  
STEEL - FORGING  
CYCLE TIME: 50.0 SEC



FLUID POWER  
BRASS - CASTING  
CYCLE TIME: 45.0 SEC



AUTOMOTIVE  
IRON - CASTING  
CYCLE TIME: 55.0 SEC



AUTOMOTIVE  
STEEL - FORGING  
CYCLE TIME: 55.0 SEC



AUTOMOTIVE  
ALUMINUM - DIE CASTING  
CYCLE TIME: 25.0 SEC



SMALL ENGINE  
ALUMINUM - DIE CASTING  
CYCLE TIME: 30.0 SEC



AUTOMOTIVE  
NODULAR IRON - CASTING  
CYCLE TIME: 85.0 SEC



AUTOMOTIVE  
NODULAR IRON - CASTING  
CYCLE TIME: 110.0 SEC



AUTOMOTIVE  
IRON - CASTING  
CYCLE TIME: 175.0 SEC



INDUSTRIAL  
IRON - CASTING  
CYCLE TIME: 70.0 SEC



FLUID POWER  
ALUMINUM - BAR STOCK  
CYCLE TIME: 24.0 SEC



AUTOMOTIVE  
ALUMINUM - CASTING  
CYCLE TIME: 22.0 SEC



AUTOMOTIVE  
DUCTILE IRON - CASTING  
CYCLE TIME: 70.0 SEC



AUTOMOTIVE  
STAINLESS STEEL - FORGING  
CYCLE TIME: 60.0 SEC



AUTOMOTIVE  
DUCTILE IRON - CASTING  
CYCLE TIME: 118.0 SEC



AUTOMOTIVE  
ALUMINUM - BAR STOCK  
CYCLE TIME: 60.0 SEC



AUTOMOTIVE  
IRON - CASTING  
CYCLE TIME: 168.0 SEC



AUTOMOTIVE  
ALUMINUM - CASTING  
CYCLE TIME: 80.0 SEC



**“For over three decades we have been building the finest precision Rotary Transfer machines, each a unique machine for a specialized purpose. These pages feature but a small sampling of the part types our customers have manufactured by the millions on Hydromat machines. Today, even more applications are produced faster and cheaper with our newest technologies.”**

A handwritten signature in black ink, appearing to read 'B. Schmitter', is written in a cursive style.

Bruno Schmitter  
President and CEO  
Hydromat



11600 Adie Road • St. Louis, MO 63043  
314.432.4644 • [www.hydromat.com](http://www.hydromat.com)