

# COMPLETE SYSTEMS

## The KMT Network of OEM's for Complete Waterjet Cutting Machine Systems

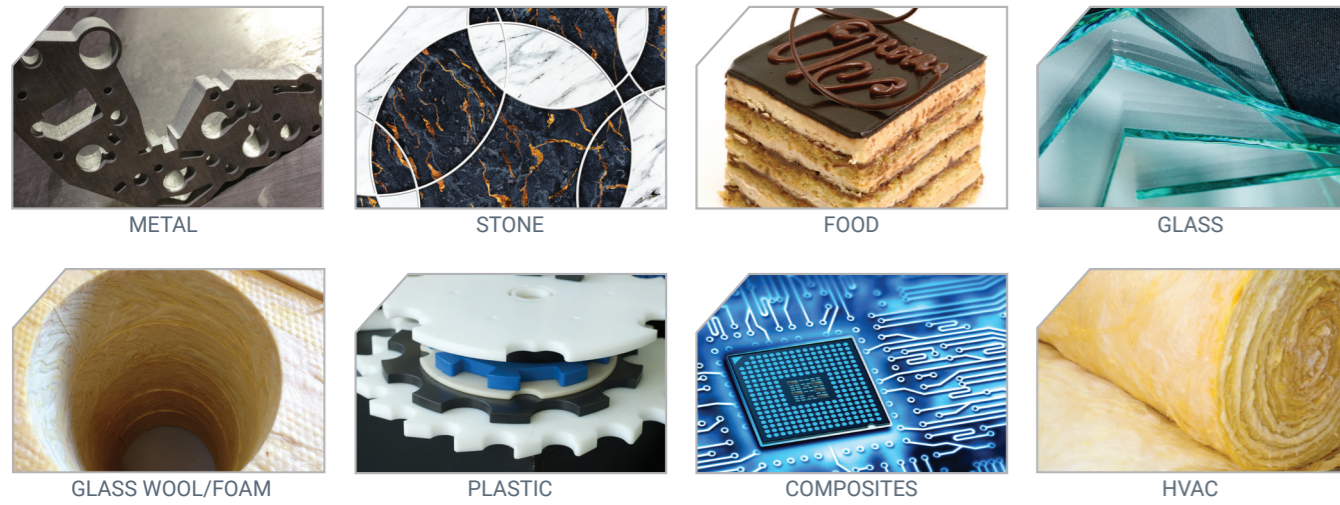
KMT Waterjet Systems has a network of reliable, highly trained professional OEM's (Original Equipment Manufacturers) who specialize in waterjet machine technology. These OEMs will design and manufacture the waterjet cutting table system that works best for your cutting application, and will team up to insure that you and your employees are trained with all the tools & support you need for success & higher profits.



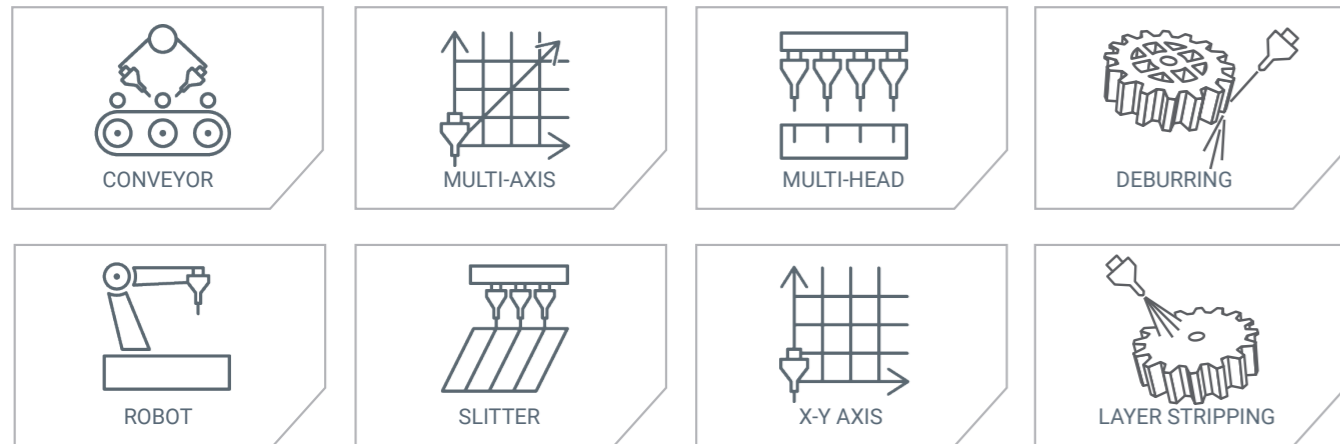
Tell us what you are cutting

Among the many choices and options include: abrasive machine cutting, pure water only cutting, entry level, small and large format, taper control, bevel head, cantilever, gantry or bridge style tables, CNC software, 2-axis to 6-axis, robotic systems, food conveyors, cake cutters, combination waterjet/plasma, waterjet/SawJet, and much more.

### APPLICATIONS



### MACHINES



KMT. Powering the World  
in Waterjet Technology  
for Over 50 Years



Backed by KMT Preventive Maintenance Programs  
Our Global KMT Genuine Service Teams are highly  
qualified, averaging 15+ years of waterjet experience.



KMT Parts: [kmtpartsline.com](http://kmtpartsline.com)

Broadest Range of Complete Waterjet Systems  
ISO 9001:2015 Compliant

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# KMT WATERJET

# NEO SERIES WATERJET PUMPS

Economical Performance for Increased Profitability



REV 1-09/22: Changed Acc. Volume/Max 40 Gall/152 L/REV 2-10/22: Changed Pressure Range to 15k from 10k  
REV 2-11/17/22: Added Maximum Pump Current (FLA)



Powering the World in  
Waterjet Technology  
for 50 Years



## NEO PUMPS - THE NEW GENERATION

Today waterjet cutting represents the ideal solution in many different industries.

Acting as the heart of a water system, the robustness and reliability of the high pressure pump heavily determines the success of an installation.



50 years of global experience is the foundation for the development of the NEO pump which KMT now launches at an extremely affordable price level.

The performance criteria of the NEO pump is equal, if not even higher compared to the rest of KMT's pump portfolio in its application range.

This helps even more industries and business sizes to integrate the many advantages of waterjet cutting into their production.

## KMT GENUINE SERVICES

Friendly, personal service that keeps your UHP waterjet system running at its optimal level.



We know your time is valuable, and we are here to fully support you in the service of your KMT waterjet by offering you this new option.

KMT Waterjet Systems Customer Service & Technical Service bases success upon customer satisfaction. We want the process of ordering service, replacement parts and gaining knowledge about waterjet to be consistently easy and enjoyable. Our highly trained staff will answer questions and concerns.



KMT Service vans are located worldwide--KMT Genuine Service is closer than you think!

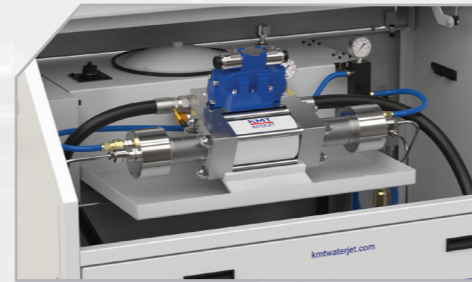
**KMT Genuine Parts & Service**  
WATERJET  
SHAPE TECHNOLOGIES GROUP  
Your business is worth it.



For Parts & Service

## NEO PUMP HIGHLIGHTS

### Maximum Production Uptime



### 25% More HP = Faster Cutting

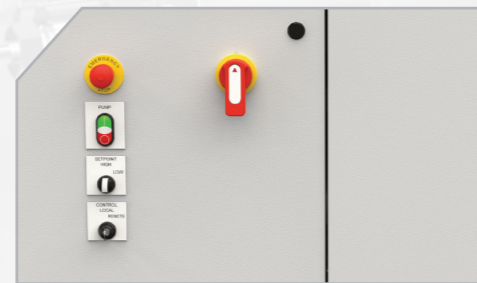
- » NEO-50 (50 HP) delivers 25% more horsepower than NEOLINE NL-1 40 (40 HP)
- » Delivers higher productivity with 60,000 PSI | 4137 bar vs. NL-1 40 at 55,000 PSI | 3800 bar

- » New KMT designed intensifier
- » Proven & reliable technology
- » Improve production uptime at maximum performance

### Affordable & 100% Supported

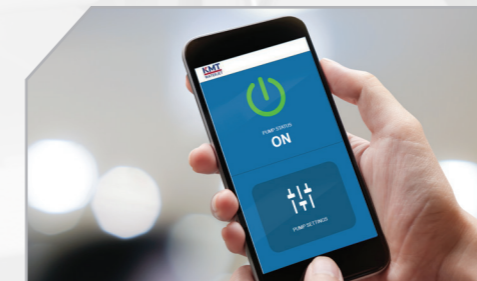
- » Pioneer of waterjet technology since 1971
- » World's market leader in ultrahigh pressure to 90,000psi | 6.200 bar
- » Broadest range of affordable waterjet pumps
- » Numerous patents guaranteeing state-of-the-art technology
- » NEO represents the best-of-the-best in quality & performance

### Ease of Operation



- » Operator friendly control devices for consistent cutting results
- » Pressure adjustment controlled via external devices (smart phone, tablet, laptop, etc.)

### Advanced Pump Management



- » New feature wireless remote devices
- » Integrated Ethernet port
- » Easy access to pump settings
- » Control screen of the complete cutting system

### You Cut - We Care



### Incremental Pressure Adjustment

- » NEO pump is equipped with proportional pressure control.
- » Optimizes the cutting process
- » Software interfaces with the high-pressure pump
- » Pressure level adjustment, based on the materials' specifics.
- » Consistent cutting results without any need of manually adjusting the pressure levels

- » Global Genuine Service Support 24/7
- » Just-in-Time service in over 60 countries
- » Remote and phone support to keep your operation running smoothly
- » 15 years average experience from KMT service team

### Floorspace Saving

- » Minimal space: 1,480mm x 1,043mm x 1,212mm
- » Easy access to all components

Compare cutting at  
90,000 psi | 6.200 bar to  
60,000 psi | 4.100 bar



KMT Cut Calculator

## TECHNICAL SPECIFICATIONS

DESCRIPTION	NEO-30	NEO-50
Motor Rating	30 HP   22kW	50 HP   37kW
Pressure Range	10,000 - 60,000 PSI   690 - 4.136 bar	10,000 - 60,000 PSI   690 - 4.136 bar
Max. Flow Rate	0.62 gpm   2.35 lpm @ 60,000 PSI   4.136 bar	1.00 gpm   3.8 lpm @ 60,000 PSI   4.136 bar
Max. Orifice @ Max. Pressure	0.11"   0.28 mm	.014"   0.35 mm
Dimensions	60.16" x 42.17" x 48.23" 1528mm x 1071mm x 1225mm	60.16" x 42.17" x 48.23" 1528mm x 1071mm x 1225mm
Weight	2,323 lbs   867 kg	2,505 lbs   935 kg

CUTTING WATER CIRCUIT		
Topworks	KMT Light & Compact Design	
Accumulator Volume	.26 Gallon / 1 Liter	.26 Gallon / 1 Liter
Min. Cutting Water Inlet Pressure	45 PSI   3 bar	45 PSI   3 bar
Min. Cutting Water Inlet Flow Rate	2 Gallon   7.6 Liter	2 Gallon   7.6 Liter
Booster Pump	Included	Included
LP Filter	1 x 1um + 1 x 0.5um	1 x 1um + 1 x 0.5um
High Pressure Outlet Connection	3/8" HP (Female)	3/8" HP (Female)
Low Pressure Connection	1/2" NPT	1/2" NPT
Drainage Connection	1/2" NPT	1/2" NPT

ELECTRIC & CONTROLS		
Motor Starter	Softstarter	Softstarter
Maximum Pump Current (FLA)	208/60/3-phase 82A 480/60/3-phase 41A 230/60/3-phase 74A 575/60/3-phase 30A 400/50/3-phase 46A	208/60/3-phase 134A 480/60/3-phase 58A 230/60/3-phase 121A 575/60/3-phase 50A 400/50/3-phase 71A
Fuse Size	Determined by local authority	
Pressure Control	Proportional Control with Hi/Lo Switch	Proportional Control with Hi/Lo Switch
Control System	Siemens S7-1200	Siemens S7-1200
Interface Connection	MODBUS TCP/IP via Ethernet	MODBUS TCP/IP via Ethernet
Display	via web - HMI (Multi-Language)	via web - HMI (Multi-Language)

PNEUMATIC, HYDRAULICS & COOLING CIRCUIT*		
Max. Hydraulic Pressure	3,200 PSI   220 bar	3,200 PSI   220 bar
Hydraulic Reservoir (Capacity)	45 Gallon / 170 Liter	45 Gallon / 170 Liter
Pneumatic Supply Pressure	87 PSI / 5.9 bar	87 PSI / 5.9 bar
Pneumatic Supply Volume	7.4 Gallon/min   28.3 l/min	7.4 Gallon/min   28.3 l/min
Ambient Temp. Oil/Water Heat Exchanging	41° - 113° F / 5° - 45° C	41° - 113° F / 5° - 45° C
Cooling Mode	Oil/Water	Oil/Water
Cooling Water Pressure	35 - 100 PSI   2.4 - 6.9 bar	35 - 100 PSI   2.4 - 6.9 bar
Cooling Water Consumption @ 75°F / 24°C Water Temp	3 gpm   11.4 l/min	3 gpm   11.4 l/min

OTHER		
Label According to EC-Machinery Directive	CE mark & CE Declaration of Conformity	CE mark & CE Declaration of Conformity
Max. Noise Level	<=80 dB(A)	<=80 dB(A)

### OPTIONAL FEATURES FOR 30HP & 50HP

Softstarter  
Oil/Air Cooler  
Food Grade Oil Fill

MAX. NUMBER OF ORIFICES AT MAX. PRESSURE	30	50
.004" / 0.10 mm	7	12
.005" / 0.12 mm	4	7
.006" / 0.15 mm	3	5
.007" / 0.17 mm	2	4
.008" / 0.20 mm	1	3
.009" / 0.23 mm	1	2
.010" / 0.25 mm	1	1
.011" / 0.28 mm	1	1
.012" / 0.30 mm	-	1
.013" / 0.33 mm	-	1
.014" / 0.35 mm	-	1

### High Pressure Outlet Connection

