

NOTES

NEWALL

Digital Readout Systems

Price List

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NOTE: Prices and features subject to change without notice. F.O.B. Columbus, OH. All prices are U.S. Dollars. Prices subject to standard terms and conditions.

NUSAPL 0308

Effective March 12, 2008

A50 and C70

Features:

- Absolute/Incremental Readings
- Inch/Metric Conversion
- Linear Error Compensation
- Segmented Error Compensation
- Switchable Resolutions
- Radius/Diameter Readings
- Zero Reset/Data Preset
- Self Diagnostics
- Center Find
- Home Reference
- Spherosyn®/Microsyn® Compatible

C80

Features:

All those of the C70 plus:

- Feed Rate Display^{1/2}
- Bolt Hole Circle¹
- Arc Contouring¹
- Programmable Memory^{1/2}
- Polar Coordinates¹
- Line Hole Calculator¹
- Tool Offsets²
- Taper Calculations²
- Axis Vectoring/Summing (3 axis)²
- RS-232 Output^{1/2}

NOTE: ¹Mill specific features. ²Lathe specific features.

DP900

Features:

All those of the C80 plus:

- 5.7" QVGA Blue STN with CCFL backlight
- Multiple Program Storage
- Tool Path Graphics in Real Time
- Probe Input
- Programmable Memory with Graphical Presentation
- Zoom
- Intuitive Help
- Job Timer
- Touch Probe Option
- Calculator
- Tap Drill Library
- Teach Mode with Graphics
- Bolt Hole Circle/Arc
- Line Hole
- Grid Array
- Frame Milling
- Pocket Milling
- Arc Function
- Tool Length/Dia. Compensation
- O.D. Calculations with Center Find
- I.D. Calculations with Center Find
- Skew/Angle/Incline
- Datum Find

Three and four axes DP900 Displays include auxillary mutli-pulse outputs as standard. Not available with two axes. RS-232 is not available with the DP900.



A50 DRO Display

Description	Part No.	List Price
A50 DRO Display - 1 Axis	A501000	480.00



C70 DRO Display

Description	Part No.	List Price
C70 DRO Display - 2 Axes	C702000	760.00
C70 DRO Display - 3 Axes	C703000	875.00



C80 DRO Display

Description	Part No.	List Price
C80 DRO Display - 2 Axes	C802000	850.00
C80 DRO Display - 3 Axes	C803000	960.00



DP900 DRO Display

Description	Part No.	List Price
DP900 DRO Display - 2 Axes	DP90021100	950.00
DP900 DRO Display - 3 Axes	DP90031110	1060.00
DP900 DRO Display - 4 Axes	DP90041111A	1180.00
DP900 DRO Display - 3 Axes +1 Rotary/TTL Linear	DP9004111DA	1180.00

Touch Probe Option - See page 6 for price

Bracket Kits

Description	Part No.	List Price
Lathe Bracket Kit (Spherosyn®/Spherosyn®)	LBK01	115.00
Lathe Bracket Kit (Spherosyn®/Microsyn®)	LBK02	125.00
Lathe Bracket Kit (Microsyn®/Microsyn®)	LBK03	115.00
Universal Bracket Kit (Spherosyn®/Spherosyn®)	UBK01	100.00
Universal Bracket Kit (Spherosyn®/Microsyn®)	UBK02	105.00
Universal Bracket Kit (Microsyn®/Microsyn®)	UBK03	100.00
Knee/Turret Mill Bracket Kit (Spherosyn®)	BPK01	105.00
Quill Bracket Kit (Microsyn®)	QBK01	145.00
Knee Bracket Kit (Spherosyn®)	KBK01	85.00
Single End Mount (Spherosyn®)	294-23010	45.00
Single End Mount (Microsyn®)	600-65340	55.00

NOTE: Some modification of bracketry may be required during installation. Visit www.newall.com for bracket kit drawings and hardware details.

Display Mounting Arms

Description	Part No.	List Price
Display Mounting Arm Assembly	FX000SS-N	105.00
Ram Display Mount	FX000RDM	160.00
Lathe Display Mount for Headstock	FX000LHM-N	160.00
Lathe Display Mount for Carriage	FX000LCM-N	160.00
A50 Double Mounting Bracket	FX000A50	50.00
Pivot Mount-Face	600-80270	40.00
Pivot Mount-Universal	600-80290	40.00

Options & Accessories

Description	Part No.	List Price
Handheld Wire Remote Control*	600-17690	305.00
External Summing Unit 2:1	600-17705	435.00
Two Axis Switch Box	600-83220	190.00
5 Axes Touch Probe (DP900 only)	EEF30005A	300.00

*Available with DP900 3 and 4 axes only.

Extension Cables

For use with Spherosyn®, Microsyn® 5 or Microsyn® 10

Description	Part No.	List Price
3' Extension Cable w/'D' Connector	ELAD0001	80.00
6.5' Extension Cable w/'D' Connector	ELAD0002	95.00
11.5' Extension Cable w/'D' Connector	ELAD0305	105.00
16' Extension Cable w/'D' Connector	ELAD0005	115.00
32' Extension Cable w/'D' Connector	ELAD0010	125.00

C80 and DP900 Dealer Demonstration Kit

Description	Part No.	List Price
C80 Demonstration Kit	DKC802S00M05	Please Call
DP900 Demonstration Kit	DKDP9002S00M05	Please Call

Mounting Bracket Kits

Display Mounting Arms

Options & Accessories

Extension Cables

Demo Kits

Includes:

- C80 or DP900 DRO Display - 2 Axis
- Spherosyn® Demo Transducer Assembly
- Microsyn® 5 Demo Transducer Assembly
- Carrying Case

Spherosyn® Encoder Assemblies

0.0002"/0.0005" Resolution

Travel	Part No.	List Price	Travel	Part No.	List Price	Travel	Part No.	List Price
2"	S00A00052035	434.00	74"	S00A01880035	1565.00	176"	S00A04470035	3973.00
4"	S00A00102035	434.00	76"	S00A01930035	1631.00	180"	S00A04572035	4064.00
6"	S00A00152035	441.00	80"	S00A02032035	1710.00	184"	S00A04674035	4154.00
8"	S00A00203035	445.00	82"	S00A02082035	1735.00	188"	S00A04775035	4244.00
10"	S00A00254035	452.00	84"	S00A02134035	1760.00	192"	S00A04877035	4334.00
12"	S00A00305035	460.00	88"	S00A02235035	1809.00	196"	S00A04978035	4425.00
14"	S00A00356035	482.00	92"	S00A02337035	1910.00	200"	S00A05080035	4515.00
16"	S00A00406035	491.00	96"	S00A02438035	2030.00	204"	S00A05182035	4605.00
18"	S00A00457035	497.00	100"	S00A02540035	2150.00	212"	S00A05385035	4786.00
20"	S00A00508035	527.00	102"	S00A02591035	2303.00	216"	S00A05486035	4876.00
22"	S00A00559035	542.00	104"	S00A02642035	2348.00	220"	S00A05588035	4967.00
24"	S00A00610035	550.00	108"	S00A02743035	2438.00	224"	S00A05690035	5057.00
26"	S00A00660035	573.00	110"	S00A02794035	2483.00	232"	S00A05893035	5237.00
28"	S00A00711035	594.00	112"	S00A02845035	2528.00	238"	S00A06045035	5373.00
30"	S00A00762035	602.00	116"	S00A02946035	2619.00	240"	S00A06096035	5418.00
32"	S00A00813035	646.00	120"	S00A03048035	2709.00	244"	S00A06198035	5508.00
34"	S00A00864035	662.00	124"	S00A03150035	2799.00	248"	S00A06299035	5599.00
36"	S00A00914035	732.00	128"	S00A03251035	2890.00	252"	S00A06401035	5689.00
38"	S00A00965035	757.00	132"	S00A03353035	2980.00	260"	S00A06604035	5870.00
40"	S00A01016035	780.00	136"	S00A03454035	3070.00	264"	S00A06706035	5960.00
42"	S00A01067035	814.00	140"	S00A03556035	3161.00	276"	S00A07010035	6231.00
44"	S00A01118035	845.00	144"	S00A03658035	3251.00	284"	S00A07214035	6411.00
46"	S00A01168035	861.00	148"	S00A03759035	3341.00	286"	S00A07264035	6456.00
48"	S00A01219035	876.00	150"	S00A03810035	3386.00	288"	S00A07315035	6502.00
50"	S00A01270035	913.00	152"	S00A03861035	3431.00	300"	S00A07620035	6773.00
52"	S00A01321035	929.00	154"	S00A03912035	3477.00	320"	S00A08128035	6880.00
54"	S00A01372035	945.00	156"	S00A03962035	3522.00	324"	S00A08230035	6966.00
56"	S00A01422035	1020.00	160"	S00A04064035	3612.00	340"	S00A08636035	7310.00
58"	S00A01473035	1060.00	164"	S00A04166035	3702.00	360"	S00A09144035	7740.00
60"	S00A01524035	1101.00	166"	S00A04216035	3747.00	384"	S00A09754035	8256.00
64"	S00A01626035	1284.00	168"	S00A04267035	3793.00	408"	S00A10363035	8772.00
68"	S00A01727035	1349.00	170"	S00A04318035	3838.00	432"	S00A10973035	9288.00
72"	S00A01829035	1500.00	172"	S00A04369035	3883.00	462"	S00A11735035	9933.00

NOTE: Order scales by Travel Length not overall length. Spherosyn® Overall Length = Travel + 10". Blank Scales are also available, call for details.

Encoder Assemblies

Includes:

- Reader Head w/11.5' Armored Cable
- Scale
- Scale Cover
- Scale Support Brackets

NOTE: Reader Heads with extended cable lengths are available, please call for details.

Microsyn® 5 Encoder Assemblies

0.00005"/0.0001"/0.0002"/0.0005" Resolution

Travel	Part No.	List Price	Travel	Part No.	List Price
2"	M05A00055035	496.00	22"	M05A00560035	637.00
4"	M05A00105035	496.00	24"	M05A00610035	655.00
6"	M05A00155035	501.00	26"	M05A00660035	680.00
8"	M05A00205035	506.00	28"	M05A00715035	706.00
10"	M05A00255035	519.00	30"	M05A00765035	717.00
12"	M05A00305035	534.00	32"	M05A00815035	768.00
14"	M05A00355035	564.00	34"	M05A00865035	802.00
16"	M05A00410035	573.00	36"	M05A00915035	893.00
18"	M05A00460035	591.00	38"	M05A00965035	937.00
20"	M05A00510035	629.00	40"	M05A01000035	966.00

Microsyn® 10 Encoder Assemblies

0.0002"/0.0005" Resolution

Travel	Part No.	List Price	Travel	Part No.	List Price
2"	M10A00055035	446.00	22"	M10A00560035	574.00
4"	M10A00105035	446.00	24"	M10A00610035	589.00
6"	M10A00155035	452.00	26"	M10A00660035	613.00
8"	M10A00205035	456.00	28"	M10A00715035	636.00
10"	M10A00255035	468.00	30"	M10A00765035	645.00
12"	M10A00305035	481.00	32"	M10A00815035	690.00
14"	M10A00355035	508.00	34"	M10A00865035	721.00
16"	M10A00410035	516.00	36"	M10A00915035	803.00
18"	M10A00460035	532.00	38"	M10A00965035	843.00
20"	M10A00510035	565.00	40"	M10A01000035	870.00

NOTE: Order scales by Travel Length not overall length. Microsyn® 5 & 10 Overall Length = Travel + 7"

C80 Milling Machine Packages

2 and 3 Axes Packages for Knee Mills

Axis Travels	Package Type	Package No.	Package Price
12" x 24"	2 Axes	C802000/1	1445.00
12" x 24" x 6"	3 Axes w/Quill	C803000/1Q06	1895.00
12" x 24" x 16"	3 Axes w/Knee	C803000/1K16	1895.00
12" x 30"	2 Axes	C802000/2	1445.00
12" x 30" x 6"	3 Axes w/Quill	C803000/2Q06	1895.00
12" x 30" x 16"	3 Axes w/Knee	C803000/2K16	1895.00
12" x 36"	2 Axes	C802000/3	1445.00
12" x 36" x 6"	3 Axes w/Quill	C803000/3Q06	1895.00
12" x 36" x 16"	3 Axes w/Knee	C803000/3K16	1895.00
16" x 30"	2 Axes	C802000/4	1445.00
16" x 30" x 6"	3 Axes w/Quill	C803000/4Q06	1895.00
16" x 30" x 18"	3 Axis w/Knee	C803000/4K18	1895.00
16" x 36"	2 Axes	C802000/5	1445.00
16" x 36" x 6"	3 Axes w/Quill	C803000/5Q06	1895.00
16" x 36" x 18"	3 Axes w/Knee	C803000/5K18	1895.00
16" x 40"	2 Axes	C802000/6	1445.00
16" x 40" x 6"	3 Axes w/Quill	C803000/6Q06	1895.00
16" x 40" x 18"	3 Axes w/Knee	C803000/6K18	1895.00

C80 3 axes Milling Packages with quill encoder are provided with a 2" travel Microsyn® 10 encoder. Once mounted, the encoder will provide 6" of travel.

DP900 Milling Machine Packages

2 and 3 Axes Packages for Knee Mills

Axis Travels	Package Type	Package No.	Package Price
12" x 24"	2 Axes	DP90021100/1	1559.00
12" x 24" x 6"	3 Axes w/Quill	DP90031110/1Q06	1995.00
12" x 24" x 16"	3 Axes w/Knee	DP90031110/1K16	1995.00
12" x 30"	2 Axes	DP90021100/2	1559.00
12" x 30" x 6"	3 Axes w/Quill	DP90031110/2Q06	1995.00
12" x 30" x 16"	3 Axes w/Knee	DP90031110/2K16	1995.00
12" x 36"	2 Axes	DP90021100/3	1559.00
12" x 36" x 6"	3 Axes w/Quill	DP90031110/3Q06	1995.00
12" x 36" x 16"	3 Axes w/Knee	DP90031110/3K16	1995.00
16" x 30"	2 Axes	DP90021100/4	1559.00
16" x 30" x 6"	3 Axes w/Quill	DP90031110/4Q06	1995.00
16" x 30" x 18"	3 Axes w/Knee	DP90031110/4K16	1995.00
16" x 36"	2 Axes	DP90021100/5	1559.00
16" x 36" x 6"	3 Axes w/ Quill	DP90031110/5Q06	1995.00
16" x 36" x 18"	3 Axes w/ Knee	DP90031110/5K16	1995.00
16" x 40"	2 Axes	DP90021100/6	1559.00
16" x 40" x 6"	3 Axes w/Quill	DP90031110/6Q06	1995.00
16" x 40" x 18"	3 Axes w/Knee	DP90031110/6K16	1995.00

DP900 3 axis Milling Packages with quill encoder are provided with a 2" travel Microsyn® 10 encoder. Once mounted, the encoder will provide 6" of travel.

C80 Milling Machine Packages

Includes:

- C80 DRO Display
- Encoder Assemblies
 - Spherosyn® Reader Heads
 - Spherosyn® Scales
 - Scale Support Brackets
- Mounting Bracket Kit
- Display Mounting Arm

DP900 Milling Machine Packages

Includes:

- DP900 DRO Display
- Encoder Assemblies
 - Spherosyn® Reader Heads
 - Spherosyn® Scales
 - Scale Support Brackets
- Mounting Bracket Kit
- Display Mounting Arm

M20-M Milling Machine Packages

Includes:

- M20 DRO Display
- Encoder Assemblies
 - M20-TT Reader Heads
 - M20-TT Scales
- Mounting Bracket Kit
- Display Mounting Arm

M20-M Milling Machine Packages

Axis Travels	Package No.	Package Price
12" x 30"	M201230	895.00
12" x 36"	M201236	895.00
16" x 30"	M201630	895.00
16" x 36"	M201636	895.00
16" x 40"	M201640	895.00

Note: M20 DRO and encoder assemblies are not sold separately. Encoders are not compatible with A50, C80 and DP900.



Hardinge Lathe Packages

Includes:

- C80 or DP900 DRO Display - 2 Axis
- Microsyn® 5 Encoder Assemblies (2)
- Hardinge Lathe Bracket Kit
- Hardinge Lathe Display Mount

C80 Hardinge Tool Room Lathe Package

Axis Travels	Package No.	Package Price
6" x 20"	C8006M0520M05HL	1795.00

DP900 Hardinge Tool Room Lathe Package

Axis Travels	Package No.	Package Price
6" x 20"	DP906M0520M05HL	1945.00

C70 Grinder Packages

Includes:

- C70 DRO Display - 2 Axis
- Encoder Assemblies (2)
 - Microsyn® 5 Reader Heads
 - Microsyn® 5 Scales
 - Scale Support Brackets
- Mounting Bracket Kit
- C70/C80 Display Mounting Arm

C70 Grinder Packages

DRO Packages for Surface Grinder Applications

Axis Travels	Package No.	Package Price
6" x 12"	C702G0612	1868.00
6" x 18"	C702G0618	1921.00
8" x 16"	C702G0816	1909.00
8" x 20"	C702G0820	1961.00
10" x 24"	C702G1024	1997.00
12" x 16"	C702G1216	1935.00
12" x 20"	C702G1220	1987.00
12" x 24"	C702G1224	2011.00

C80 Lathe Packages

Axis Travels	Package No.	Package Price
6" x 40"	C8006M10040SH11	1995.00
8" x 40"	C8008M10040SH11	1995.00
10" x 40"	C8010M10040SH11	1995.00
6" x 50"	C8006M10050SH11	2145.00
8" x 50"	C8008M10050SH11	2145.00
10" x 50"	C8010M10050SH11	2145.00
6" x 60"	C8006M10060SH11	2295.00
8" x 60"	C8008M10060SH11	2295.00
10" x 60"	C8010M10060SH11	2295.00
12" x 60"	C8012S00060SH11	2295.00
8" x 72"	C8008M10072SH11	2595.00
10" x 72"	C8010M10072SH11	2595.00
12" x 72"	C8012S00072SH11	2595.00
8" x 80"	C8008M10080SH11	2795.00
10" x 80"	C8010M10080SH11	2795.00
12" x 80"	C8012S00080SH11	2795.00
10" x 100"	C8010M10100SH11	3395.00
12" x 100"	C8012S00100SH11	3395.00
14" x 100"	C8014S00100SH11	3395.00
12" x 120"	C8012S00120SH11	3895.00
14" x 120"	C8014S00120SH11	3895.00
16" x 120"	C8016S00120SH11	3895.00
20" x 120"	C8020S00120SH11	3895.00

DP900 Lathe Packages

Axis Travels	Package No.	Package Price
6" x 40"	DP906M10040SH11	2109.00
8" x 40"	DP908M10040SH11	2109.00
10" x 40"	DP910M10040SH11	2109.00
6" x 50"	DP906M10050SH11	2259.00
8" x 50"	DP908M10050SH11	2259.00
10" x 50"	DP910M10050SH11	2259.00
6" x 60"	DP906M10060SH11	2409.00
8" x 60"	DP908M10060SH11	2409.00
10" x 60"	DP910M10060SH11	2409.00
12" x 60"	DP912S00060SH11	2409.00
8" x 72"	DP908M10072SH11	2709.00
10" x 72"	DP910M10072SH11	2709.00
12" x 72"	DP912S00072SH11	2709.00
8" x 80"	DP908M10080SH11	2909.00
10" x 80"	DP910M10080SH11	2909.00
12" x 80"	DP912S00080SH11	2909.00
10" x 100"	DP910M10100SH11	3509.00
12" x 100"	DP912S00100SH11	3509.00
14" x 100"	DP914S00100SH11	3509.00
12" x 120"	DP912S00120SH11	4009.00
14" x 120"	DP914S00120SH11	4009.00
16" x 120"	DP916S00120SH11	4009.00
20" x 120"	DP920S00120SH11	4009.00

C80 Lathe Packages

Includes:

- C80 DRO Display - 2 Axis
- Encoder Assemblies
 - Microsyn® 10 on Cross Slides with 10" of travel and under
 - Spherosyn® on Cross Slides with 12" of travel and over
 - Spherosyn® on Carriage
- Lathe Bracket Kit
- Headstock Display Mount
(Carriage Mount available at no extra charge.)

NOTE: Lathe Packages with scale lengths; 100" - 120" include two 11.5' extension cables.

Cross Slide Transducer is available in Microsyn® 10 or Spherosyn® configuration at no extra charge.

Cross Slide Transducer can be substituted with Microsyn® 5 Transducer. Add \$50.00 to the package price.

Reader Heads with extended cable lengths are available, please call for details.

DP900 Lathe Packages

Includes:

- DP900 DRO Display - 2 Axis
- Encoder Assemblies
 - Microsyn® 10 on Cross Slides with 10" of travel and under
 - Spherosyn® on Cross Slides with 12" of travel and over
 - Spherosyn® on Carriage
- Lathe Bracket Kit
- Headstock Display Mount
(Carriage Mount available at no extra charge.)

NOTE: Lathe Packages with scale lengths; 100" - 120" include two 11.5' extension cables.

Cross Slide Transducer is available in Microsyn® 10 or Spherosyn® configuration at no extra charge.

Cross Slide Transducer can be substituted with Microsyn® 5 Transducer. Add \$50.00 to the package price.

Reader Heads with extended cable lengths are available, please call for details.