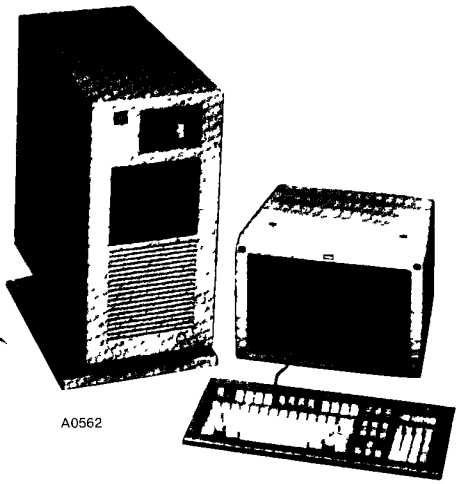
Bailey® infi 90™

Specification

E96-800

Engineering Work Station



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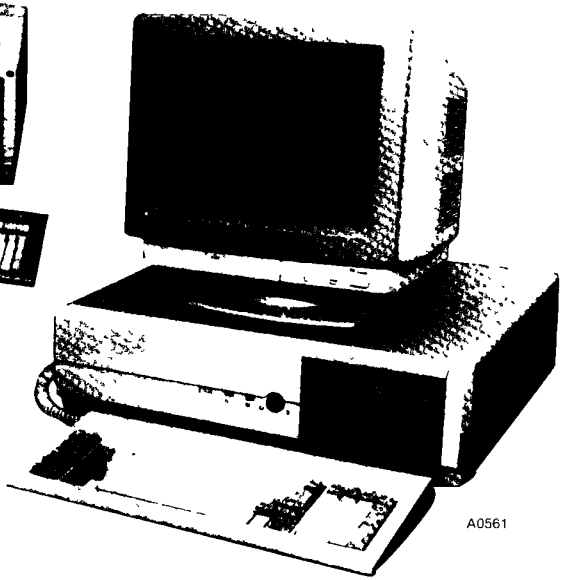

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The Ba ey Eng neer ng Work Stat on (EWS) s a computer system that prov des remote or d rect access to your NF 90 process contro system and smart dev ces EWS a ows an operator to conf gure mon tor trend document mod fy and ver fy NF 90 conf gurat ons and process act v t es

The EWS s a versat e too des gned for the needs of any modern process fac ty W th an extens ve st of opt ona hardware and software tems the EWS can be custom zed to su t your part cu ar requ re ments Add t ona y you can convert an BM* AT COMPAQ™ 386 16 or nte * 301 (an 80386 based pc) nto an EWS enab ng t to nterface w th your NF 90 system

Bailey® Seamless, Real-Time Process Management Solutions

Several software packages designed exclusively for EWS, are available to fit the needs of any system

CAD	Uses color graphic displays to design document and monitor the system
TEXT	A menu driven package to configure or monitor the system
LADDER	Uses Ladder Logic diagrams to design document, and monitor the system
DATA SHEET	Provides a live data link between the system and SYMPHONY™ software
SLDG	Offline configuration utility for the Management Command System (MCS)
BATCH 90™	Create batch control logic using descriptive natural statements
SMARTPORT™	Provides a communications environment for Bailey smart transmitters Allows configuring tuning, monitoring and data acquisition capabilities for up to 525 smart devices per database
PCV	Kit to convert an EWS into an operator console Provides monitoring and control of up to 500 tags and includes logging and group graphic and trend displays

When combined with the plotter option of the EWS system the Bailey Engineering Work Station generates logic control drawings and configuration drawings The graphics printer option can be used to produce module lists specification lists and function block cross reference lists

Features

- **The plant at your fingertips** - EWS helps you design process control configurations define hardware configurations, edit process parameters set system operating modes, tune process parameters and monitor the process
- **Create a command center** Use a Bailey Engineering Work Station and a standard RS 232 C cable to supervise your NF 90 process control system from your desk or from the factory floor
- **Flexible** Connect the Engineering Work Station to a NF 90 Serial Port Module (SPM) and gain access to the modules within a single Process Control Unit (PCU) and to Bailey smart transmitters Connect the same cable to a NF 90 Computer Interface Unit (CIU), and gain access to the Plant Communication Loop (PCL) and all the PCUs on the communication highway
- **Easy document control** - With the EWS you can maintain system configuration files on floppy disks or on a hard disk, and produce hardcopy prints or plots Configuration data can be selected from NF 90 modules smart transmitters or disk files to the screen a printer, a spreadsheet program or to other disk files EWS supports standard file maintenance capabilities to copy delete compare, rename and catalog data files
- **On-line or off-line process management** - The Bailey Engineering Work Station operates both on line and off line With the EWS system on line you can monitor or troubleshoot NF 90 system performance With the system off line you can design and configure system operation with or without module hardware
- **Versatile software packages** A software package for every need use CAD color graphics to configure or monitor your system or to obtain trend data, use TEXT to download configuration or TLO to system hardware use LADDER Logic Programming to configure or monitor your system use Batch 90 to create batch control logic use SLDG to configure the MCS, use DATA SHEET to create a data link between your system and SYMPHONY software use SMARTPORT to configure tune and monitor Bailey smart transmitters
- **System and user shape libraries** - Create and store frequently used configurations or macro shapes in your own user library or call up shapes or function codes provided in a standard system library NF 90 hardware modules use familiar standard control symbols to define process control software

Description

Severa vers ons of the Eng neer ng Work Stat on are ava ab e

HBAT01 02 Ba ey ndustr a AT operat ng at 8 MHz w th 640 kbytes RAM, one 1 2 Mbytes f oppy d sk dr ve 20 Mbytes hard d sk enhanced co or d sp ay, two ser al ports two parallel ports and EWS enhancements * The HBAT01 s ava ab e for 110 V ac app cat ons and the HBAT02 s ava ab e for 220 V ac app cat ons

HEWS01,02 Ba ey 386 operat ng at 16 MHz w th 2000 kbytes (2 Mbytes) RAM, one 1 2 Mbytes f oppy d sk dr ve 42 Mbytes hard d sk, enhanced co or d sp ay one ser a port two para e ports and EWS enhancements * The HEWS01 s ava ab e for 110 V ac app cat ons and the HEWS02 s ava lab e for 220 V ac app cat ons

*EWS enhancements nc ude CAD Software the Ba ey Graph cs Card and math coprocessor ch p Refer to Tab e 1

TABLE 1 Hardware Required to Convert Existing Systems

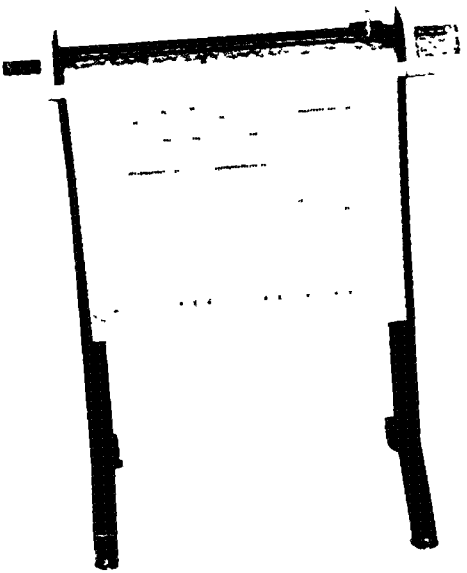
Program	Computer HBAT	Computer HEWS	Computer C3/M8/P6/AQ	Reg DOS version or greater	Min mum extended (near) RAM Memory kbyte	Min mum Hard Disk Size Mbyte 10	Min mum Hard Disk Size Mbyte 20	Min mum Hard Disk Size Mbyte 30	Monitor Color	Monitor Mono	Communicat on Port Sena	Communicat on Port Para e	SPEC AL REQU REMENTS Graph cs Card CGA/EGA	SPEC AL REQU REMENTS Ba ey Graph cs Card	SPEC AL REQU REMENTS Printer	SPEC AL REQU REMENTS Modem	SPEC AL REQU REMENTS P otter	SPEC AL REQU REMENTS Mouse
CAD																		
TE T																		
LADDER																		
Da a Shee																		
Ba h X																		
SLDG																		
SMARTPORT																		
PCV																		

X Requ red
O Opt ona
R Recommended

* Can be used w th two f oppy d sk dr ves (10 Mbyte hard d sk recommended
** 10 Mbyte m n mum Larger requ red for arge MCS conf gurat ons
*** PCV requ res a spec a h gh reso ut on EGA card

Engineering Work Station Configurations

W th the Eng neer ng Work Stat on you have severa opt ons to conf gure the ba ar ce of the system to f t your nd v dua needs Depend ng upon your soft ware requ rements you may se ect a graph c pr nter or p otter for hard copy output and a mouse for con ven ent nput of graph c data A ser a port connects the computer hardware to the Ser a Port Modu e or the Computer nterface Un t



HPLT01
P otter

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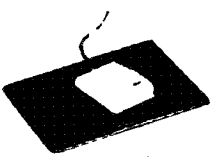
HMSE01
Mouse



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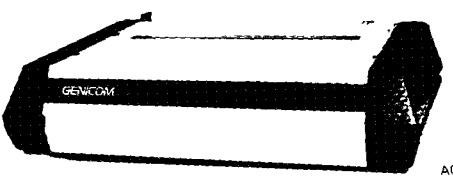

NPRT02
Graph cs Pr nter

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Engineering Work Station Software

Nomenclature	Description	Nomenclature	Description
H KT01/02	Computer A ded Draw ng	SBLC PC01 0X	Batch 90
STXT PC01 0X	Text	SLDG PC01 0X	MCS Off ne Logg ng Database Graph cs
SLAD PC01 0X	Ladder Log c	SEEK PC01 XX	SMARTPORT
SSYM PC01 0X	SYMPHONY	HPCK01	Process Contro V ew

Hardware Accessories

Nomenclature	Description	Nomenclature	Description
HBAT01.02*	Ba ey ndustr a AT w th 640 kbytes RAM, one 1 2 Mbytes f op py 20 Mbytes hard d sk enhanc ed co or d sp ay two ser a ports, two para e ports and EWS enhancements (CAD Software Ba ey Graph cs Card and math coprocessor ch p)	HPLT02	Pen p otter for metr c A1 / A2 s ze draw ngs
		HPRT01	Dot matr x pr nter
		HPRT02	Pr nter (requ red for graph cs CA D d sp ays)
		HMSE01	Mouse
HEWS01/02*	Ba ey 386 w th 2000 kbytes RAM one 1 2 Mbytes f oppy 42 Mbytes hard d sk enhanced co or d sp ay two ser a ports one para e port and EWS enhance ments (CAD Software Ba ey Graph cs Ca'd and math coprocessor ch p)	HMOD01	1200 baud modem
		HCBL01 10 or 25***	RS 232 ser a port cab e con nect EWS to SPM C U or a modem
H KT01**	A ows convers on of BM XT to Ba ey EWS	HCBL02	Nu modem cab e (25 feet) connect a modem to an SPM or C L
H KT03**	A ows convers on of BM AT to Ba ey EWS	HCBL03	Y ser a port cab e adapter (25 feet) connect EWS to p otter and mouse
HCDQ01	ncorporates the H KT03 nto a Compaq Computer	HCBL05	Pr nter cab e (6 feet) connect EWS to HPRT01/02
H KT04**	A ows convers on of Compaq 386 16 or nte 301 (80386 based) to Ba ey EWS		
HPLT01	Pen p otter for C and D s ze draw ngs		

*Ava ab e for e ther 110 V ac or 220 V ac app cat ons
* A so nc udes CAD/TEXT software
***Suff x nd cates cab e engt n feet

Specifications

	Bai ey Engineering Work Stations	
	IHBAT01/02 (AT)	**IHEWS01/02 (386)**
Power Requ rements		
AC Operating Voltages		
North Amer ca	90 137 V 50 60 Hz	100 125 V 47 63 Hz
Other	180 259 V 50 60 Hz	200 250 V 47 63 Hz
Hardware		
RAM Memory	640 kbytes	2000 kbytes
D skette Drive	1 2 Mbytes	1 2 Mbytes
Fixed Disk Dr ve	20 Mbytes	42 Mbytes
Monitor	Enhanced Co or D sp ay	Enhanced Co or D sp ay
Microprocessor	nte 80286	nte 80386
Processor Clock Speed	8 MHz	16 MHz
Math Co Processor	nte 80287	nte 80387
Graphics Adapters	Enhanced Graph cs Ba ey Graph cs	Enhanced Graph cs Ba ey Graph cs
Power Supp y	192 Watts max	220 Watts max
Environmental		
Ambient Temperature		
System On	0 to 55 C (32 120 F)	15 to 32 °C (60 90 F)
System Off	0 to 55 °C (32 131 F)	34 to 60 C (29 140 F)
Humidity	8% 80% non condens ng	5 85% non condens ng
Cert fication	CSA cert f ed for use as process con ro equ pment n an ord nary (nonhazardous) ocat on	

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aff ates n over 50 countr es wor dw de contact

Bailey Controls Company

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