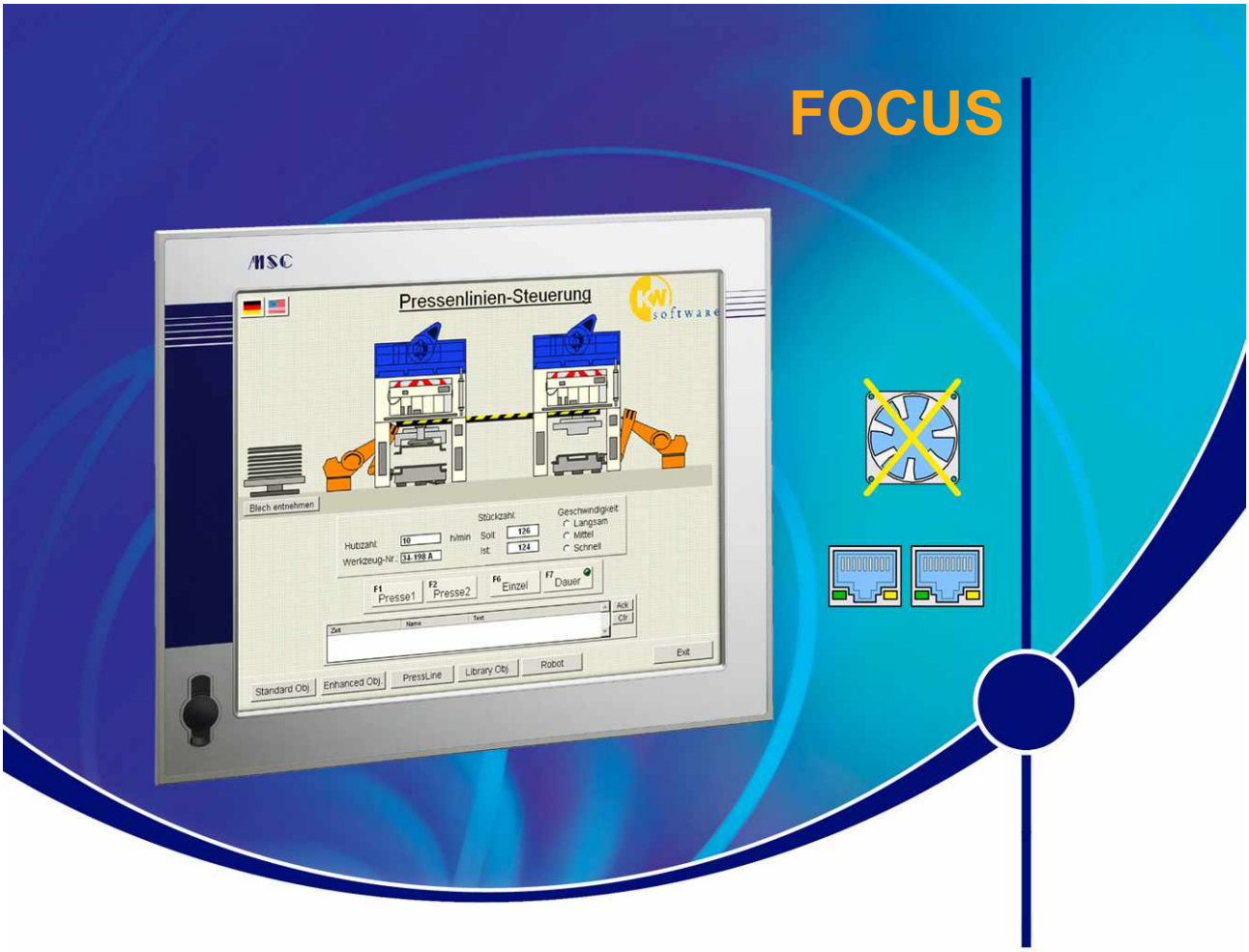

Human-machine interface
– touchscreen –

Operation, observation, visualizing, controlling: Being particularly tailored to the concerns of automation technology, the industrial computer family of MSC Tuttlingen covers all industrial requirements.

Industrial computer may be configured purposefully for their respective application in accordance with the principle of modular organization.

FOCUS is "focused" on the essential function and design of a classical human-machine interface.

Specific configuration brings cost advantages compared with standard solutions and guarantees a wide range of applications, e.g. operating, visualizing, evaluation ...

The FOCUS is also available as a **completely fanless** system.

That means: no more extensive exhaust replacement, no circulation of dust and dirty particles. The system is noiseless and free of maintenance!

FOCUS – rear view

Technical Data

		Board IPC479
Cooling		CPU fan or fanless depending on CPU type
Housing / Protection class		Mechanically stable, robust system-unit cover made of galvanized sheet-steel – can be installed in all racks, cabinets, desks and swivel frames. / IP 65 at front side, IP 20 rear side
Front panel		• Seamlessly sealed front panel protects reliably against ingress of dust, dirt and spray water • Touchscreen resistive-analogue is integrated • Stainless steel front panel (option) • Specific customized design (option)
Display		15" TFT (XGA), 17" TFT (SXGA), 19" TFT (SXGA)
Baseboard / CPU		All-In-One-Board with base 479 – Intel 82855 GME – • Celeron M 370 1.5 GHz • Pentium M 745 1.8 GHz • ULV Celeron M 373 1.0 GHz (fanless) • 32/64 MB Frame Buffer (using system memory) • Watchdog for system safety • Integrated keyboard controller
Memory		Up to 2 GB DDR-RAM
Drive units		• Hard disk 2 ½ " ≥ 60 GB • DVD-R or DVD-RW (option)
Interfaces		• COM1 / COM2 as RS 232 (COM2 internally used by touch controller), 2x PS/2, VGA COM3 / COM4 (optional) as RS 232, RS 485/422 or 20 mA (TTY) • Fieldbus (optional, alternative to COM3 / COM4) CANopen, InterBus, PROFIBUS • Audio modul AC97 (option) • 2 Ethernet (RJ-45 socket): 1x 10/100 Base-T, 1x 10/100/1000 Base-T • 4 USB 2.0, on the side (periphery - connection) • 2 USB 2.0, in the front behind protective cap • LPT1 (option)
Supply voltage		24 VDC (18...36 VDC)
Power consumption	Max.	115 W
	Typ.[1)]	50 W (15"), 60 W (17"), 65 W (19") - ULV CPUs: 30 W (15"), 53 W (17"), 57 W (19")
		[1)] These information correspond to the basic version.
Ambient temperature		+5 ºC to +45 ºC
EMV	interference emission	EN 61000-6-4
	interference resistance	EN 61000-6-2
Shock load in operation		EN 60068-2-27
Oscillating load in operation		EN 60068-2-6
Mechanical dimensions		Technical drawings are available as a supplement at www.msc-tuttlingen.de.
Operating system		Windows® XP Prof. MUI
Endurance test		48 h Burn-In
Test certificate		CE, UL 508

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