



Premier

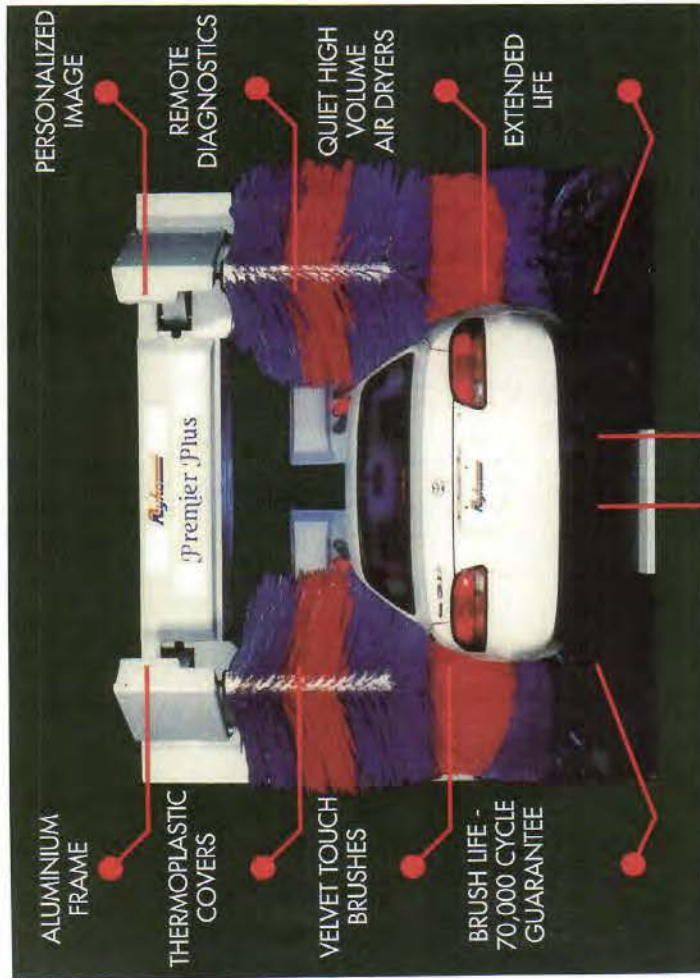


**FAMILY OF VEHICLE
WASH SYSTEMS**

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Premier Plus



PICTOGRAM

Increase wash upgrades and explain each option to your customers with the optional pictogram that flashes as each cycle is performed.

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RELIABLE

PROVEN

ACCEPTED



WHEEL WASH

The large diameter **effectively** washes the wheel rim and tyre for a quality wash with increased revenue.



FOAM BATH

A **rich layer** of visually pleasing foam loosens dirt and is quickly and efficiently applied by the high volume manifold.



UNDER CHASSIS WASH

The **oscillating spray** covers the under car, washing away salt, dirt, and mud. An optional rust inhibitor is available.



WAXES

Add **shine** to your customers' vehicles with either hot or cold wax. The visual impact of hot steaming wax will keep your customers coming back.



DRYERS

RYKO's unique dryer oscillation ensures water is **quietly** swept from the vehicle surface. Antennas do not need to be removed, therefore throughput (and profits) are increased.



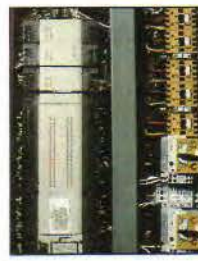
BRUSHES

Velvet Touch filaments have been designed by RYKO to be gentle, yet effective. They give your customers a pleasant wash experience and have a 70,000 cycle guarantee to give you a low cost operation.



Remote Diagnostics

RYKO's Premier Plus utilizes a remote display to tell you what is happening in your car wash bay without you being there. This display can be mounted in the kiosk, the back office, or anywhere that is convenient. In addition, specific technical information can be sent via modem to the nearest service center where the status of your machine, chemical levels, temperature in the bay, and many other functions can be monitored. This revolutionary diagnostic system will dramatically decrease down-time and service calls and increase profits.



Speed, Safety and Flexibility

The Premier Plus offers all this and more. The **variable frequency drive** and unique **building block programme** give you the ability to vary the menu and change wash cycle timing on site.

Touch-safe contactors and circuit protectors are just some of the many features found throughout the Premier Plus to ensure safety.



Premier XL



The PREMIER XL is a single gantry machine that operates in an 8.5 metre space providing the wash speed of double gantry systems. It is designed for low maintenance and low operating costs, longevity and versatility.

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FOAM BATH



WHEEL WASH



UNDER CHASSIS
'WASH



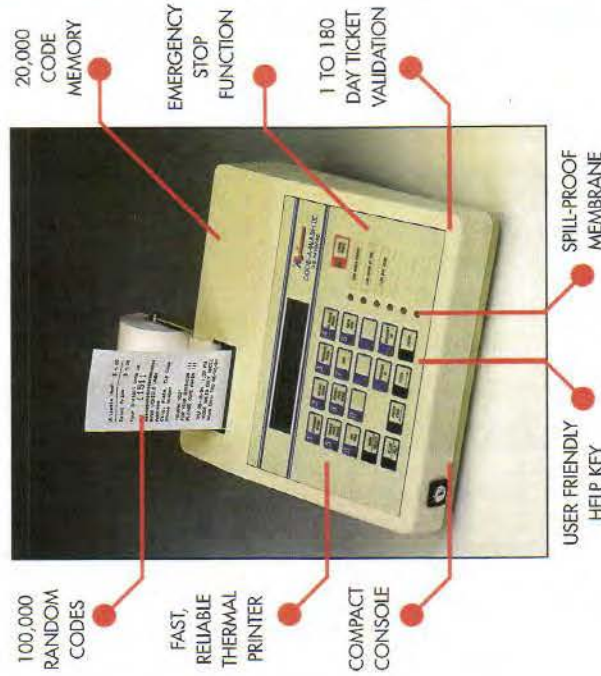
CONVENIENT
STOP & GO LIGHTS



BASIC
DIAGNOSTICS

CODE-A-WASH IV

ADAPTS TO ANY VEHICLE WASH SYSTEM



RYKO's **Code-A-Wash IV** is a computerised car wash management tool that is simply the most versatile and efficient accounting and merchandising system available. RYKO is the original designer of the random code touch pad concept, which is now in its fourth generation. In addition to reporting revenue and giving customers messages, the Code-A-Wash IV can provide hourly reports on the number of car washes used and the revenue generated.

The versatility of the Code-A-Wash IV is unique to the industry and can be interfaced with **any point-of-sale equipment or vehicle wash system**. Random codes can even be issued at a pump island.

The help key feature quickly answers questions and eliminates the need to refer to manuals, thus increasing throughput and customer convenience in the kiosk.



Premier

FAMILY ACCESSORIES



Environmental II water reclamation system can reuse 80% or more of the runoff water from the wash cycle to dramatically cut down on water consumption and cost.



Both the **Stainless Steel** and **Aluminium** vacuums are attractive, have a large filter capacity and secure coin storage.



The **Rainmaker II spot-free rinse system** applies a layer of rinse water that has had the hard mineral deposits removed so that when the vehicle dries, there is no spotting.



RYKO's Expanded Diagnostics can be tailor-made to monitor additional items such as chemical levels, bay temperatures, or bay doors.



Customer convenience and simplicity are combined in the **card reader** for easy activation of the Premier Plus or Premier XL.

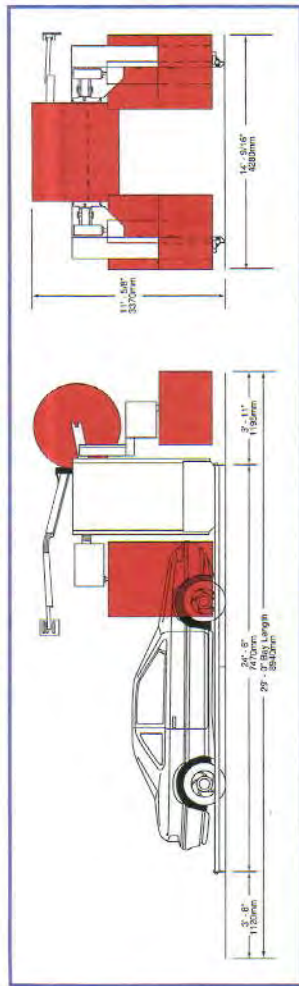


RYKO's Power Wash II self-service system is pre-plumbed and pre-wired for fast installation and simple maintenance.



RYKO manufactures fast opening, fully insulated **bay doors** that provide bay security, reduce noise, and increase throughput dramatically.

TECHNICAL SPECIFICATIONS Premier Plus



	Basic Unit	With Boost Pump	With Hot Wax	With Dryers
380V/415V	20A	25A	35A	50A
Air	9.5mm @ 6.9 bars (3/8" @ 100 psi)		Water	114 LPM (30 GPM)

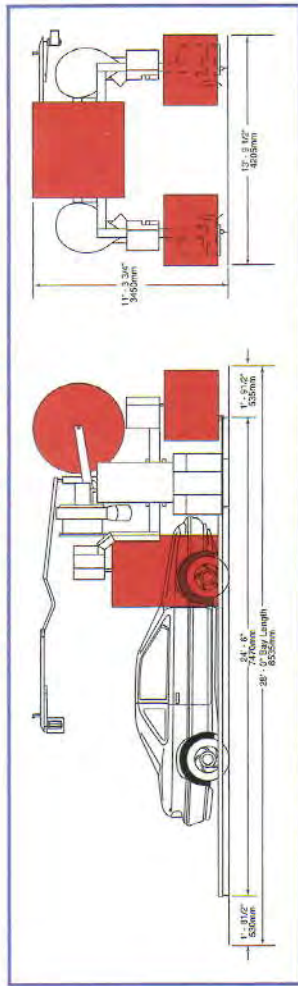
MACHINE DIMENSIONS

Length 3385 (11' - 1.25")

Width 3900 (12' - 9.5")

Height 2680 (8' - 9.5")

Premier XL



	Basic Unit	With Boost Pump	With Hot Wax	With Dryers
380V/415V	20A	25A	35A	50A
Air	9.5mm @ 6.9 bars (3/8" @ 100 psi)		Water	95 LPM (25 GPM)

MACHINE DIMENSIONS

Length 3280 (10.75')

Width 3965 (13')

Height 3450 (11.35')

RYKO Manufacturing Company reserves the right to make changes to specifications without notification. Contact your local RYKO representative for current specifications and other technical information.

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RYKO Manufacturing Company has been building vehicle washing systems since 1973. In that short period of time, we have come to be recognized as a global leader in our industry.

Building quality equipment that is reliable and provides the features and benefits our customers require is important to us and a goal we strive to attain.

We appreciate your time and consideration while making your choice of equipment. It is our desire for you to become another satisfied and valued customer of RYKO's.



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KLEINDIENST

WASH TUNNELS



We work for your success



CALIFORNIA KLEINDIENST

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The basic element for your success: Forward-looking technology by the market leader

The well-established wash tunnels by Kleindienst have continually been developed and improved through the use of the most modern technology compared with previous models. The requirements of our customers for extremely high reliability and maintenance-friendly operation have been important aspects of their development. For high expectations, long service life and a profitable wash business.

The Kleindienst family of wash tunnels consists of three basic models with a large variety of options. Your Kleindienst representative will advise you on the best solution that is available for the successful operation of your car wash business.

Forward looking technology



Kleindienst: Provide advice, planning and service before and after the purchase.

Individual and comprehensive service with respect to the whole range of car washing, which only a strong partner such as Kleindienst can provide satisfactorily:

- analyses of locations
- rentability calculations
- financing
- planning and service
- project work
- after-sales service
- advertising assistance
- technical training and sales training

Professional advice, planning and service

The Kleindienst System for your Success



Microprocessor Control

Water Technology



We also clean water...

since water is too precious to be wasted. Already in the design packages are available methods to help reduce your water consumption drastically. Kleindienst wash tunnels are complemented by matching precipitation technology, water recycling and sewage water treatment by Kleindienst. Professional car care and environmental technology in one company.

After-Sales Service

Comprehensive quick service

Our professionally quick service sets standards. In case of emergency quickly on the spot: world wide. For a partnership which leaves nothing to be desired. With the world wide service network a breakdown gets cleared quickly so that you have maintenance and care fully under control. Above all, you will have satisfied customers because you can rely on the performance of your Kleindienst technology.

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16 bit control

Easy

Quick access to individual components. Special programs (e.g. for off-road vehicles) are easy to install and select. Multiple programs can be loaded at the same time.

Safe

The number of washes can be recorded and are protected against manipulation and fraud.

Informative

Detailed log of events. Modem connection for data transmission.



Brush guidance

Maintenance-friendly

All secondary drives of the brush station work with toothed belts.

Perfect adaption to vehicle contours

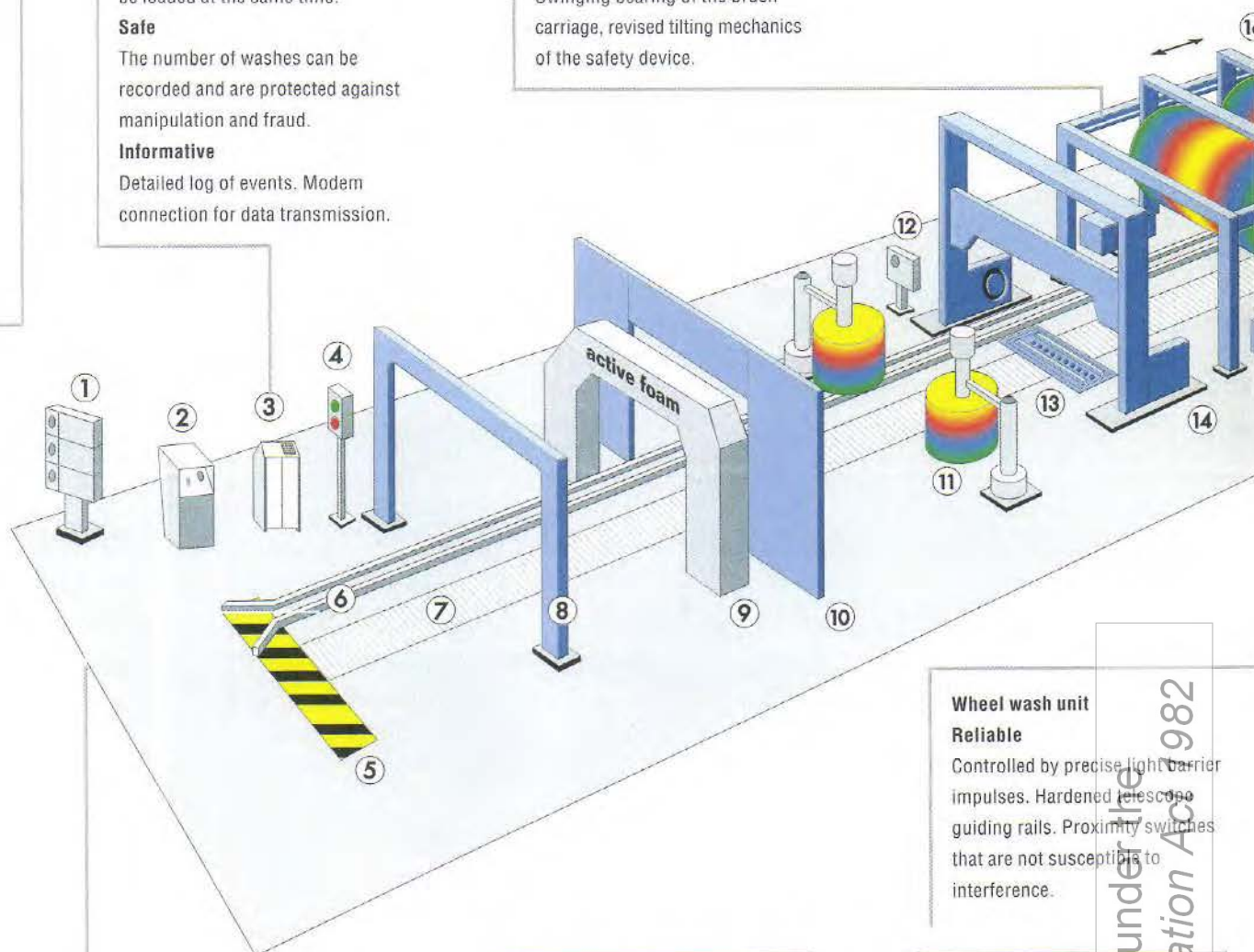
Swinging bearing of the brush carriage, revised tilting mechanics of the safety device.



Driving motors

Maintenance-friendly

Standardized motors which are protected against water ingress.



Wheel wash unit

Reliable

Controlled by precise light barrier impulses. Hardened telescopic guiding rails. Proximity switches that are not susceptible to interference.

Conveyor

Resistant to wear and tear

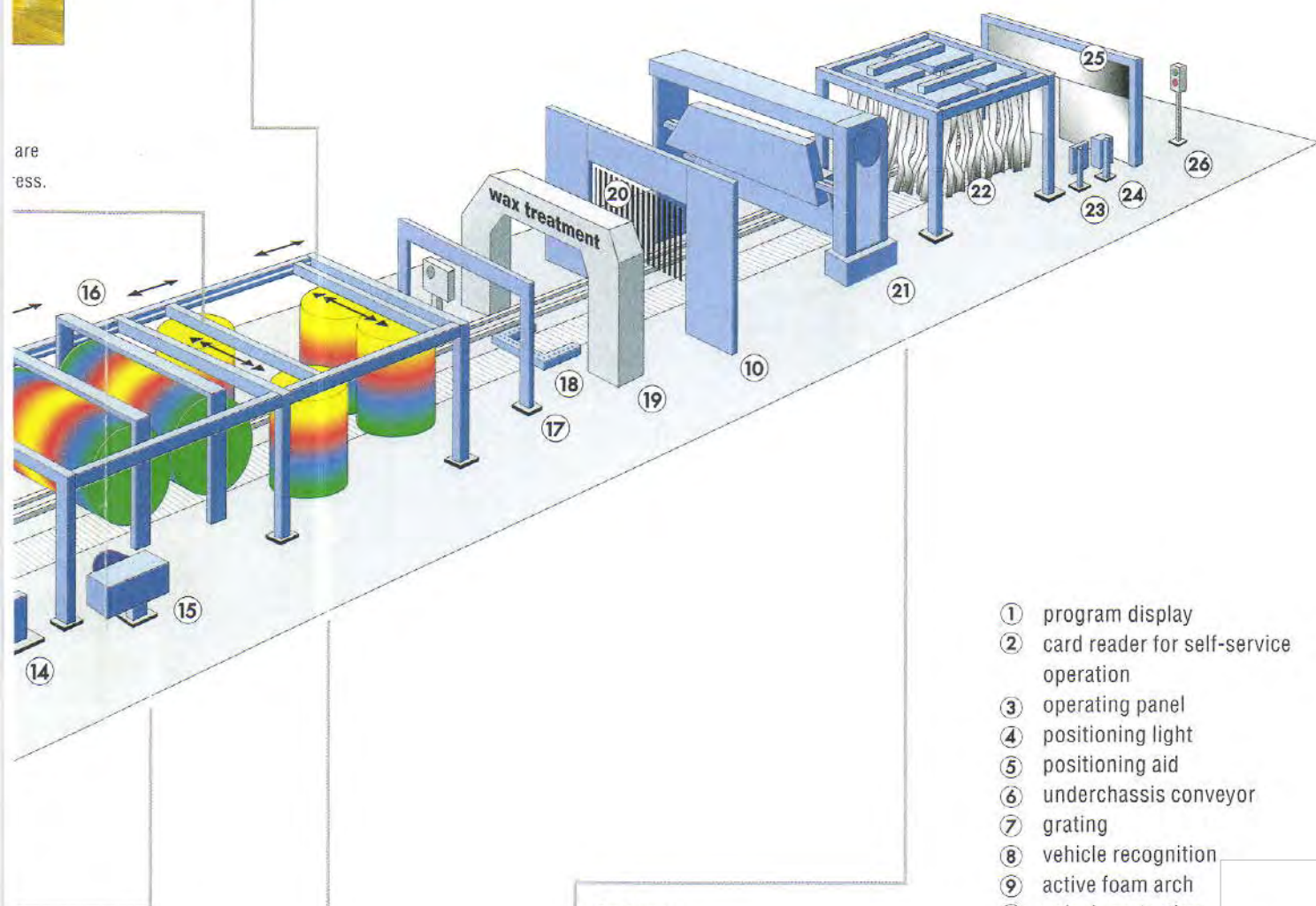
Gentle, soft start and infinitely variable speed control by way of frequency converter. Frictionless sliding blocks which are easy on the tyres and rims. Maintenance-free sliding rolls.



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Long-Lasting Frame Construction

All frame parts are hot-galvanized. The lining sheets are made of stainless steel. Paint is applied in a solvent-free powder coating process.

**Brushes****Gentle**

Diameter of brushes 1000 or 1200 mm alternatively. As an alternative to the standard bristles innovative textile materials can be used.

Dry blower**Low sound emission**

Aerodynamically improved ventilators draw in dry fresh air from the exit area. Lifting motor of the roof nozzles with maintenance-friendly toothed belts. Roof nozzle without swinging bearing.

- ① program display
- ② card reader for self-service operation
- ③ operating panel
- ④ positioning light
- ⑤ positioning aid
- ⑥ underchassis conveyor
- ⑦ grating
- ⑧ vehicle recognition
- ⑨ active foam arch
- ⑩ splash protection
- ⑪ contour-following brushes
- ⑫ display for individual information
- ⑬ underchassis wash
- ⑭ high-pressure prewash station
- ⑮ wheel wash unit
- ⑯ brush station with double roof brush
- ⑰ rinsing arch
- ⑱ underchassis preservation
- ⑲ waxing arch
- ⑳ hose curtain as drying aid
- ㉑ blow dryer with double roof brush
- ㉒ cloth dryer
- ㉓ optical bumping protection
- ㉔ safety light barrier
- ㉕ noise protection gate
- ㉖ exit light

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Washing with intelligence through microprocessor control

The control system is equal to the brains of the wash tunnel. The electronic 16 bit microprocessor control by Kleindienst proves to be a real wash genius. It guarantees perfect operational procedures and optimum wash quality at the same time.

Programs are easy to select even when it comes to special programs (e.g. for off-road vehicles). Multiple programs can be loaded at one time. This means you save valuable time for customer service, which will enhance sales.

Machine and wash data can be accessed at any time via display, printer or modem. This facilitates fast technical diagnoses and current business management evaluations.

The brush station - the heart of the wash tunnel

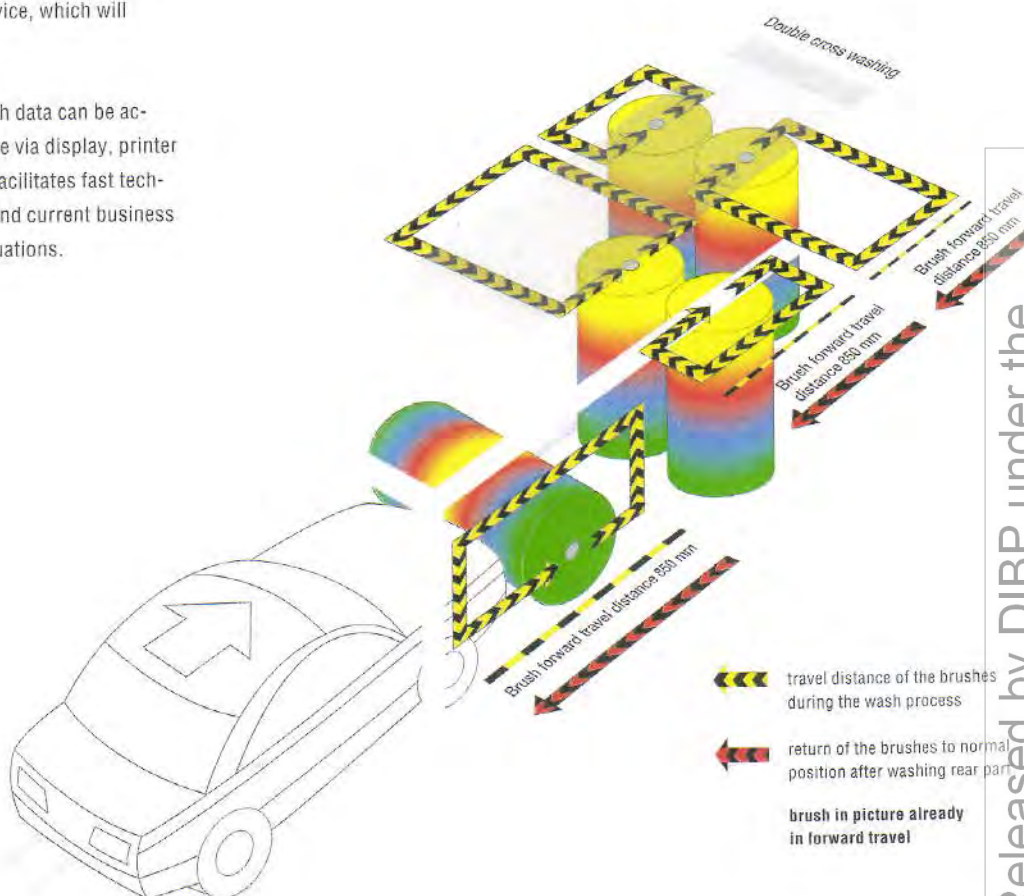
Kleindienst's heart is in the right place since Kleindienst cares for its customers.

Electronic **brush control** provides for soft and exact following of the contours of roof and side brushes, even when you have trailer couplings and spare tyres mounted on the outside. Thanks to the electronic control the brush evenly washes all components of the body. In addition to that the depth of immersion automatically adjusts to the brush diameter, which changes with use, and can be adjusted individually to the level of dirtiness of the vehicle.

Compared to usual brush stations roof and side brushes have a comparatively low reaction time on the often extremely dirty front and rear parts of the vehicles.

The **Kleindienst brush forward travel distance** makes sure that the roof and side brushes travel together with the vehicle and thus increase the reaction time on the extremely dirty parts. Result: better wash results and satisfied customers.

Dirty marks which often remain in the middle of the front and rear area are not an issue when you have a Kleindienst machine. Especially for these problem areas Kleindienst developed **double cross washing**, which means that the side brushes cross over the middle of the vehicle and thus put an end to annoying dirty marks.



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The wash tunnel concept

The family of Kleindienst wash tunnels covers a range of up to more than 100 vehicles per hour in through put. The required minimum length of the building is about 11 metres.

Brush station	Euro-WS 35	Euro-WS 50	Euro-WS 2000
Length of conveyor (m)	10,4 to 15,2	15,2 to 20,0	over 20,0
Speed of conveyor (m/min)	2 - 6	2 - 6	2 - 10
Throughput (vehicles/hour)	appr. 30 - 50	appr. up to 50	over 100
Brush forward travel distance (mm)	400	400	850

All wash tunnel components can be combined with the brush stations of the Euro-WS 35, Euro-WS 50 and Euro-WS 2000 according to the principle of modular construction.

To modernize an existing machine the additional installation of individual components means a considerable increase in value of your wash tunnel.

Safety through Service

When you choose Kleindienst, you make a decision for a strong and reliable partner even after your purchase. Our partnership will show in everyday life – through first-class service.

All machines will be installed, checked and released by your Kleindienst partner. Routine maintenance work and inspections performed by the experts guarantee trouble-free operation of your car wash machine. In case your machine needs to be serviced, your Kleindienst service technician will be on site immediately.

Your Kleindienst-Representative:



CALIFORNIA KLEINDIENST



Morgan Car Wash Pty Ltd
 A.C.N. 010 987 667
 Unit 3, 169 Queens Road, Kingston Q 4114
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The CK 45 Rollover Car Wash Systems



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CK45

The new generation

The car wash business is in a state of change. Today's car driver is no longer interested in washing his or her car at home, but prefers to save time and effort in entrusting the task to the professionals who can do it better. That's why there is an increasing demand for high-quality car wash services.

This presents the opportunity to gain a foothold in an expanding market. However, the requirements imposed on modern car wash technology are being made more demanding at the same time.

The California Kleindienst CK 45 stands up to the challenges of the market. Reduced energy consumption and high profitability - these are the basic assumptions around which this modern car wash system has been developed. The result is impressive:

low levels of space requirement and energy consumption, reduced noise emissions with increased washing capacity provided at the same time.

Our engineers at California Kleindienst have optimised what was already good and added some new features. It is well worth taking a detailed look at what they have achieved.



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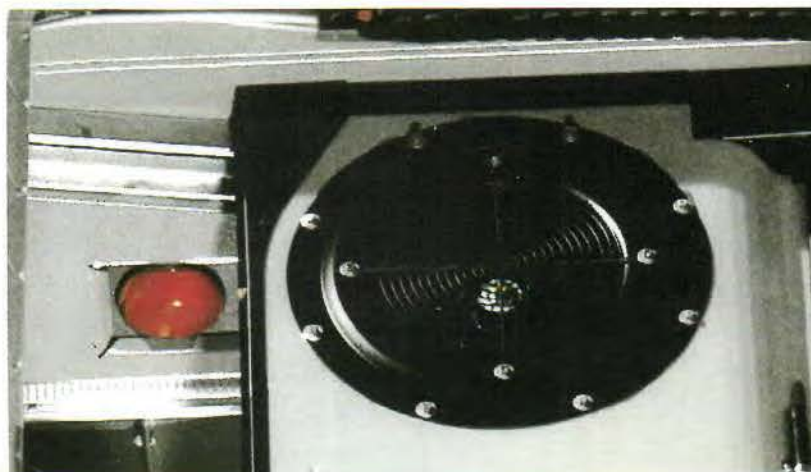
Attractive design - new technology

First impressions are important. The new California Kleindienst design and the clear layout of the pictograms get right to the point.

The CK 45 is a winner, even at first glance. It features no unnecessary gimmicks, preferring to rely on an attractive appearance, clean lines and attention to detail.

It has easy-to-understand pictograms at the front along with highly visible entry control lamps at both sides. There is also a freely-programmable running text display at the rear providing information about the current state of the washing programme. It can also be used for advertising purposes. These are all attractive features for customers.

helping to stimulate your car wash business, hold on to regular customers and win over new ones. And what is promised by the visual appearance is delivered by the technology - increased washing capacity with reduced operating costs. The washing and drying processes have been carefully optimised - allround high-pressure washing which follows the contours of the car, larger wheel washing brushes, a new, four-blower drying system and adjustable side jets.



Sturdy construction using the most up-to-date technology and a low-maintenance mechanism: these are the basic elements required for a successful unit.

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A modern control system with parameter-based programming and a wide range of diagnostic functions make the CK 45 even more flexible in operation. For the operator this means extra performance at reduced costs, as energy consumption has been cut. The CK 45 - a system which responds to today's requirements, combining profitability and environmental compatibility.



CK45

On the road to success with the CK 45

In the car wash business, too, the ability to react flexibly is one of the preconditions for the successful operation of a car wash system. And when demand rises, the CK 45 really comes into its own. Increased capacity means increased turnover.

The CK 45 sets about its work quickly, quietly and thoroughly. This means satisfaction for customers washing their cars and profits for the operator.

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State-of-the-art washing capacity

Frequency-controlled drives and solid machine construction - making it possible to increase travel speed while maintaining quieter system operation



The California Kleindienst CK 45 does not require a great deal of space - bays of only 8 m in length present no problem for the CK 45.

The system only requires a minimal installation depth, and this minimal depth allows for longer cars in shorter bays. Longer cars can now be washed without the need for vehicle shifting.

The CK 45 is easy to service - both the media containers and the control panel are accessible from the front. All of the important components such as the drives and motors are arranged for easy servicing.

The California Kleindienst CK 45 is the crucial feature which allows the

California Kleindienst CK 45 to really clock up the numbers when it has to are the frequency-controlled drive units.

On the one hand, this allows a jolt-free and low-load start-up of all vertical and horizontal travel drives and operation is quieter. On the other hand, variable speed control of the motors makes it possible to set different travel speeds. This provides reserves of performance which can shorten the overall working time of the system.

The California Kleindienst CK 45 has a long working life in front of it - it has been designed to wash many cars over the course of a long operating life.



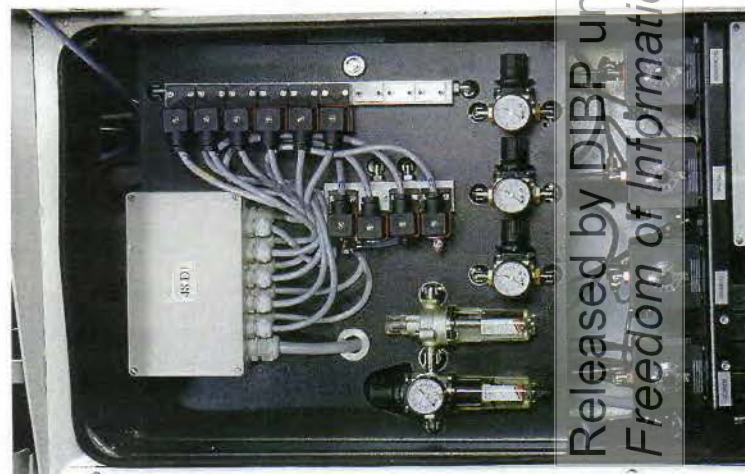
Low-load and jolt-free start-up of all vertical and horizontal travel drives

As is the case with all California Kleindienst systems, the solid sheet-steel frame is hot galvanised. The mechanical and electrical components are robust and guarantee a long working life.

The California Kleindienst CK 45 pays its way - up to 14 vehicles can be washed in an hour.

Double washing and double drying are the highlights of the CK 45's performance - good for the customer washing his car as he doesn't need to wait long and equally good for turnover and profits.

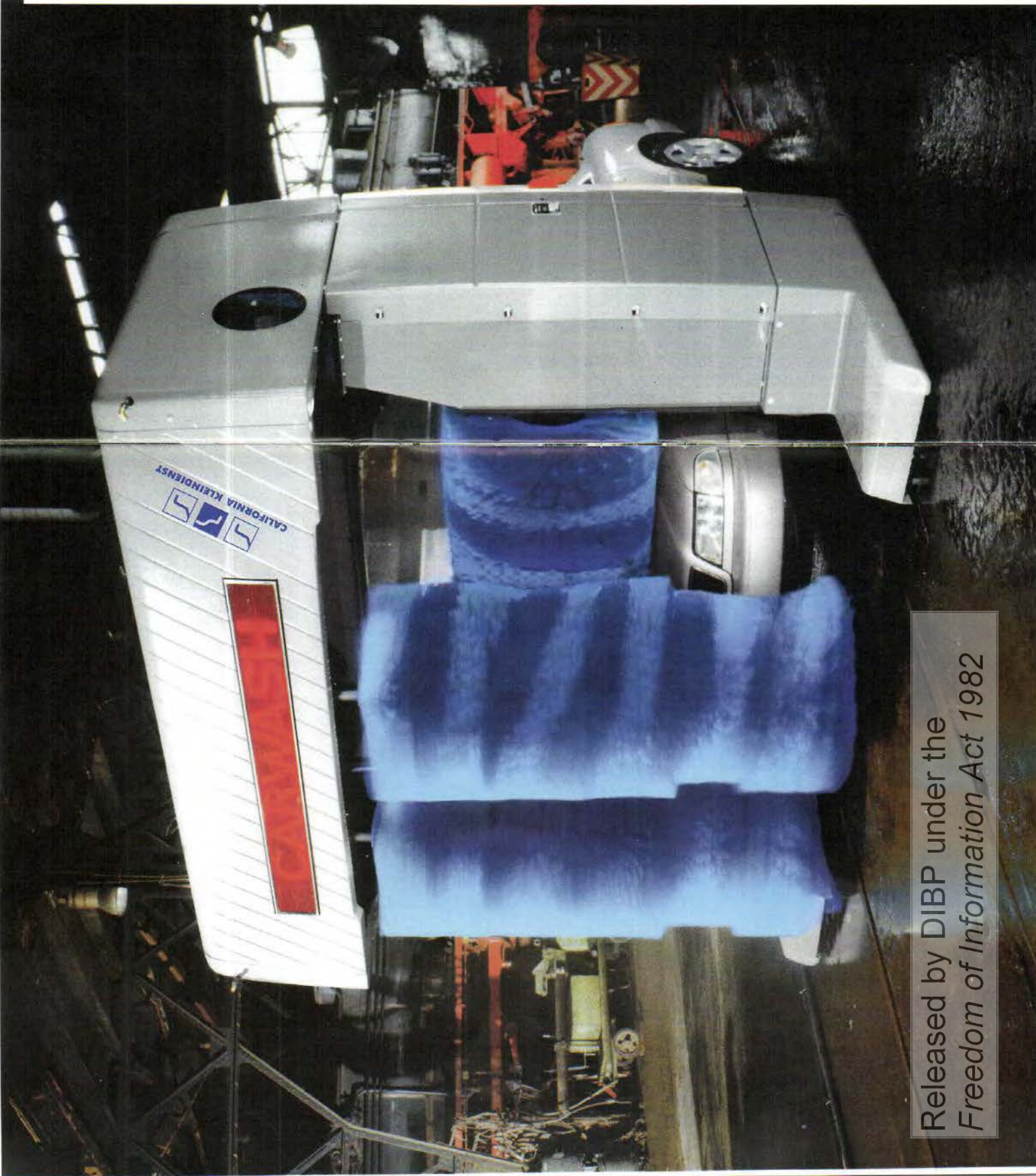
The CK 45 represents a profitable investment in a future-orientated market.



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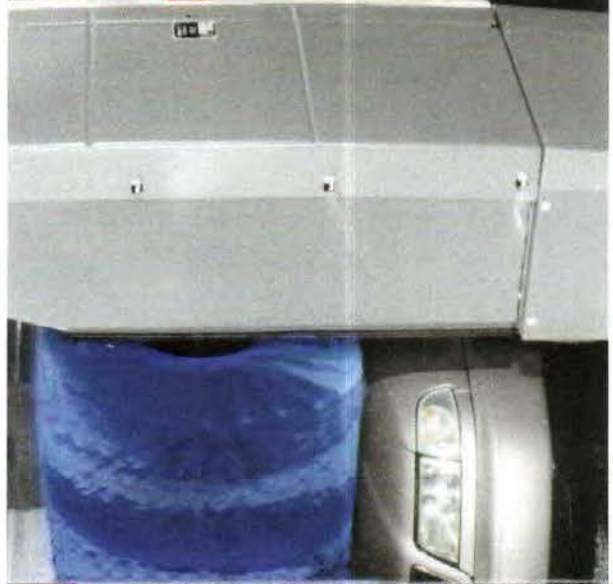
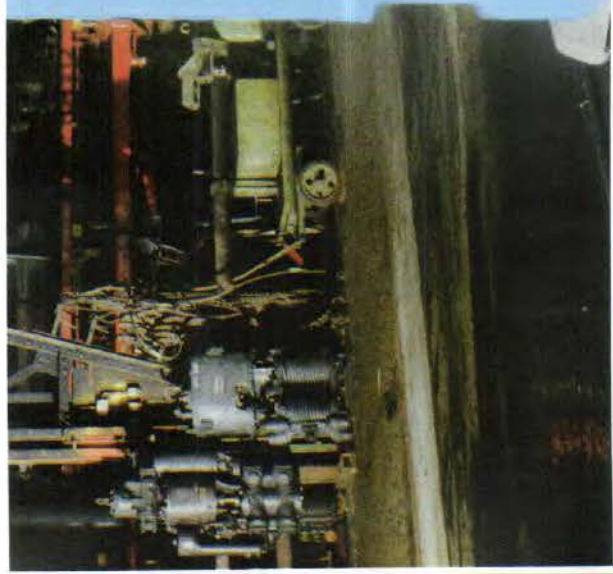
The dynamic way to the top

The California Kleindienst CK 45 is dynamic but gentle in setting about its work. As far as washing dynamics are concerned, carefully targeted improvements have been made over its predecessor model. A wealth of practical experience has been directed into the new design. Its tried-and-tested features have been retained. And it has all been worthwhile - with an unmatched washing and drying performance, the California Kleindienst CK 45 car wash system consolidates its position at the top.



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Gentle washing, thorough cleaning

The spiral brushes set about their business quietly, and while they are gentle on the paintwork, they certainly clean thoroughly. The electronically-controlled brushes complete their work quickly, gently, non-abrasively and yet effectively, on the basis of pure washing dynamics. Car washing becomes a rewarding experience for the customer as the CX 45 thoroughly frees the wash system from dirt and grime before the next car enters. The high-pressure pre-wash makes a difference to the actual wash.

Contribution to the non-abrasive washing process. Contour-controlled, high-pressure jets in the side and roof areas give even tenacious dirt no chance and remove coarse particles even before the brushes start their work. Washing the underside makes a contribution to preserving the value of the car. Other impressive features of the performance of the California Kleindienst CX 45 car wash system are the active wax sealing treatment after the actual wash.

The side brushes also adapt to the contours of the car for even better results in the upper side area of the vehicle.



The high-pressure way to sparkling results - the contour-controlled, high-pressure wash covers the complete vehicle, i.e. the sides as well as the rear, front and roof areas.

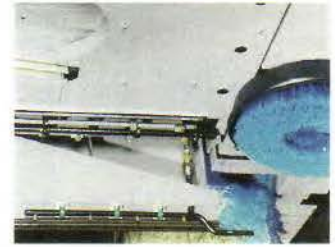
Arresting technology for wheel washing, where the washing performance of the CX 45 is apparent. When in operation, the wheel washer can be clearly seen by the customer washing his car, and has had its diameter increased to ensure that it can deal with even the larger wheel rims found on minibuses and all-terrain vehicles.

The swivelling side brushes automatically adjust to the contours of the side of the vehicle. This means an improved washing performance in the upper side area.

Thanks to the all-over washing provided by the side brushes, intensive cleaning is ensured for the front and rear areas which are often particularly dirty. And all of this using less water! By optimising water consumption, the CX 45's requirement is only 90 litres per vehicle for the complete brush wash - a significant reduction in the amount used of what is a very important raw material.

This is a decisive step which underlines the importance of ecological aspects.

Larger wheel brushes for increasingly larger wheel rims



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Blowing in the wind

Drying is the final, crowning step in the car wash process. Gleaning paintwork gives the customer visible evidence of the quality of service provided.

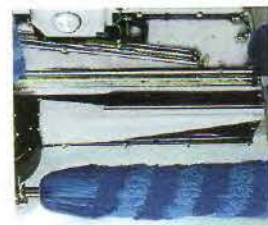
Our engineers at California Kleindienst have not re-invented the drying process, but they have redirected the airflow.

Great care has been taken in improving flow ratios, resulting in an improvement in the quality of drying provided.



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Storming towards its goal



Improved direction of the airflow from the drying jets ensures a more even blower effect over the entire vehicle.

With the California Kleindienst CK 45, the wind doesn't only blow from the front - it comes from all sides. And we are not talking about enormous amounts of air being used. Our excellent drying performance is based on attention to detail. To achieve this, we have worked only on the basis of the latest principles of airflow technology. The specific aim is to blow the droplets of water downwards off the car. The consequence for the customer is a convincing drying experience.

Variable drier speeds mean that at peak times it is possible for more vehicles to be washed and still be effectively dried. The contour-tracing roof and side jets are now able to follow the shape of the vehicle better, allowing the airflow to be applied at exactly the right points. And the rear end of the car is also specifically targeted for drying. Improved air distribution through four drier jets applies the air more evenly over the paintwork surface.

And if you also wish to avoid the traces of the last droplets of water, rinsing with desalinated water treated in an osmosis process is a further option. In spite of the attractive results it achieves, the California Kleindienst CK 45 consumes less energy and produces satisfyingly lower levels of sound emission. The drier's connected loads have been reduced while its flow characteristics have been improved.

Thanks to the significantly reduced noise level of the drying system, the washing bay door can now be left open more often in built-up or semi-built-up areas. And if the door doesn't need to be opened and closed for each car, the system remains in view for a longer period of time and advertises itself at the same time. However, this also means a faster washing cycle tempo, more cars being washed and therefore increased profits.

An optional extra is final rinsing with water treated in an osmosis process. The decalcified and desalinated water avoids any trace of water droplets being left on the paintwork.



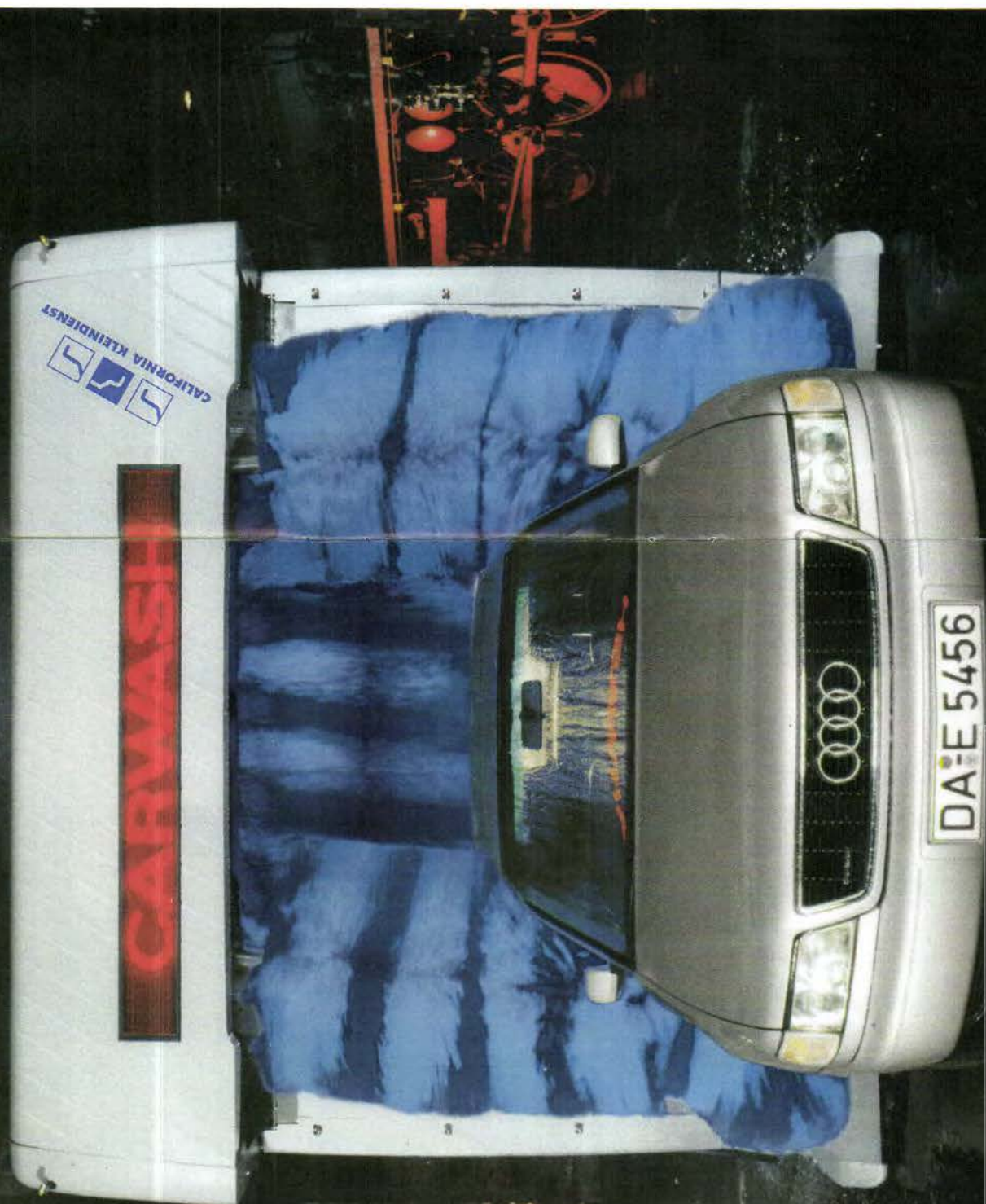
Reduced energy consumption, lower noise level and improved drying results. The newly-developed, contour-tracing CK 45 drying system with four body dust blowers.

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Thinking electronics in control

High technology in the car wash business is unthinkable without using the most up-to-date electronics.

The new microprocessor control system in the California Kleindienst CK 45 is to a large extent responsible for ensuring that all of the subassemblies start up smoothly, allowing them to operate accurately, and that the washing and drying processes take place at high speed and still satisfy the most stringent quality requirements. The operator can profit from the possibility of connecting the system to a PC, as servicing, fault-finding and monitoring are made considerably easier for all system functions.



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The central nervous system of the California Kleindienst CK 45

All of the threads are drawn together in the electronic control system. This is where the complex operating procedure for the California Kleindienst CK 45

is controlled according to the relevant programme selection. The electronics represent the brain and nervous system of the entire machine, with the control

and regulating commands being issued to the individual subassemblies from this central point. The new microprocessor control system makes it possible to adapt the system to the operator's requirements by means of a wide range of programmable parameters. A data transmission system allows operating conditions or relevant ratings, such as the number of washes, to be



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The newly-programmable electronic control system enables a wide range of operating conditions for portable operation of the CK 45.

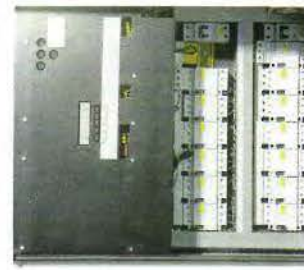


Simple to operate for the customer; high level of capacity utilisation for the operator - the magnetic-card-operated Datamat M.



As you would expect, the CK 45 delivers the entire washing and car-care programme in the quality for which California Kleindienst is famous.

New features are the introduction of foam wax as an alternative to hot wax and contour-controlled, allround, high-pressure washing.

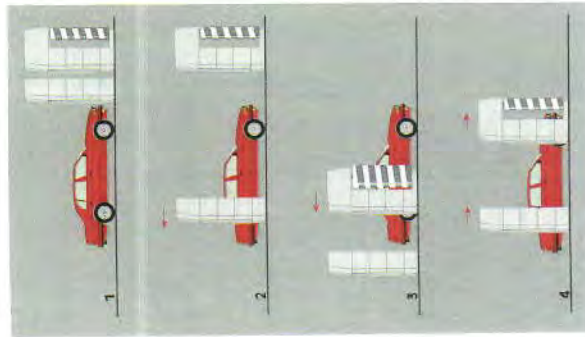


Separate but working together

Handling increased capacities in a small space - that's why the system variants described in the following pages are just the right alternatives - and at an attractive price/performance ratio, too! If you have to handle high capacities in a flexible operation, you can rely on our double-portal rollover systems which provide such effective teamwork. This is where matching leads to the correct answer. The washing and drying portals are separate from each other, but they still work perfectly together - for more washing cycles and increased turnover.



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An unbeatable combination - the twin portals of the Duett

Perfectly matched division of work is the secret of increasing capacity with the Duett.

The Duett can wash up to 16 cars in a single hour. This increase in capacity means one thing above all - increased turnover, and the improved profitability this leads to. However, what the Duett doesn't call for is more space. It is satisfied

with the dimensions required for a conventional washing bay.

Firstly, the drier portal travels over the car from front to back and sprays on active foam, if the selected programme so requires. While the drier remains stationary at the rear, the brush portal washes in two complete sweeps.

The four steps to a clean car
- the twin answer to increased demand is the Duett.

In step - washing two vehicles at the same time

California Kleindienst have always been adventurous when it comes to developing new concepts. With a sure feel for the requirements of the market allied to technical imagination, we have conceived the idea of the in-step system - a twin-portal rollover system which responds to even the most stringent demands in terms of capacity and dynamic washing. This is a concept which sits well with the current trend towards ever-increasing performance in a shorter time. Up to 20 vehicles an hour can be washed in this system, ensuring that no customer is disappointed.

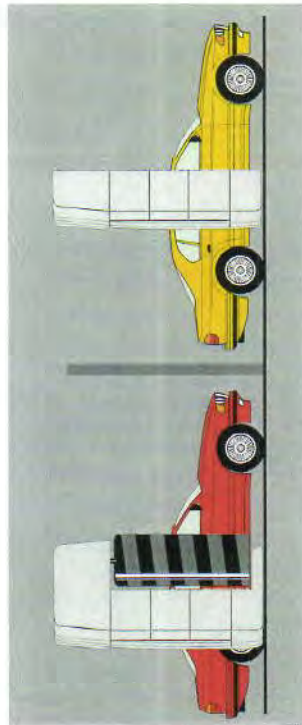


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The complete brush washing process in the shortest time. Two portals perfectly matched to work with each other guarantee a smooth and speedy washing process.

When it has reached the middle of its return travel, the drier portal goes back into action. Depending on the programme selection, it either applies the standard hot wax or it immediately begins the drying procedure. Two portals are just as thorough as a single one, but

they are faster. And as far as car-care facilities are concerned, the Duett offers the complete range of services including foam application and underbody washing.



As one car is being dried, the next is being washed. With the in-step system, capacity no longer presents a problem.

While one car is still being dried, the next is already being washed. In this way it is possible for 20 vehicles to be washed and dried in a single hour.

An additional advantage besides higher capacity - excellent drying achieved by keeping the wet zone separate from the drying zone. This represents a generous solution and a worthwhile investment

which will secure and extend your customer base, noticeably increase profits and cement your position in the car wash market, i.e. your guarantee of long-term success.

Playing with colour

More and more modern service stations are based on standardised designs of which the car wash system should be an integral part. For this reason California Kleindienst offer a range of colours which allow the operator to select what is right for his particular service station.



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Variants

These are the colours which California Kleindienst offers at no extra expense.

All of the plastic components used for the CK 45 are dyed throughout and its coloured metal components are powder-coated.

This provides many years of protection in what is a unique climatic environment.



After all, where else do conditions vary between wet and dry as they do in a car wash? Where else is a painted surface exposed to such extreme conditions? So this is an important consideration for opting for a California Kleindienst model the next time you are choosing a car wash system.



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More than innovative car wash technology

California Kleindienst apply a single concept for success, namely the most up-to-date washing technology, professional consultation, effective customer support and dynamic service organization.

All this forms the basis for long-term relationships - and that's how it will stay.

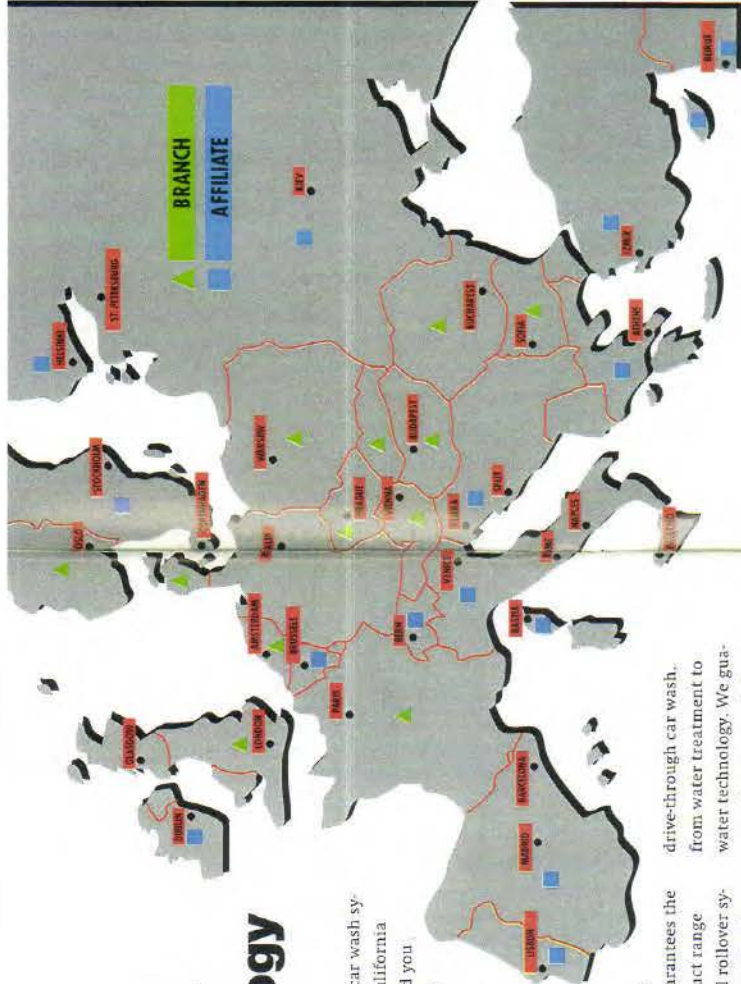
Analysis, planning and consultation - California Kleindienst provides assistance in all matters concerning the car wash business.



on selecting a car wash system. Go for California Kleindienst and you opt for over 30 years of experience in the car wash business.

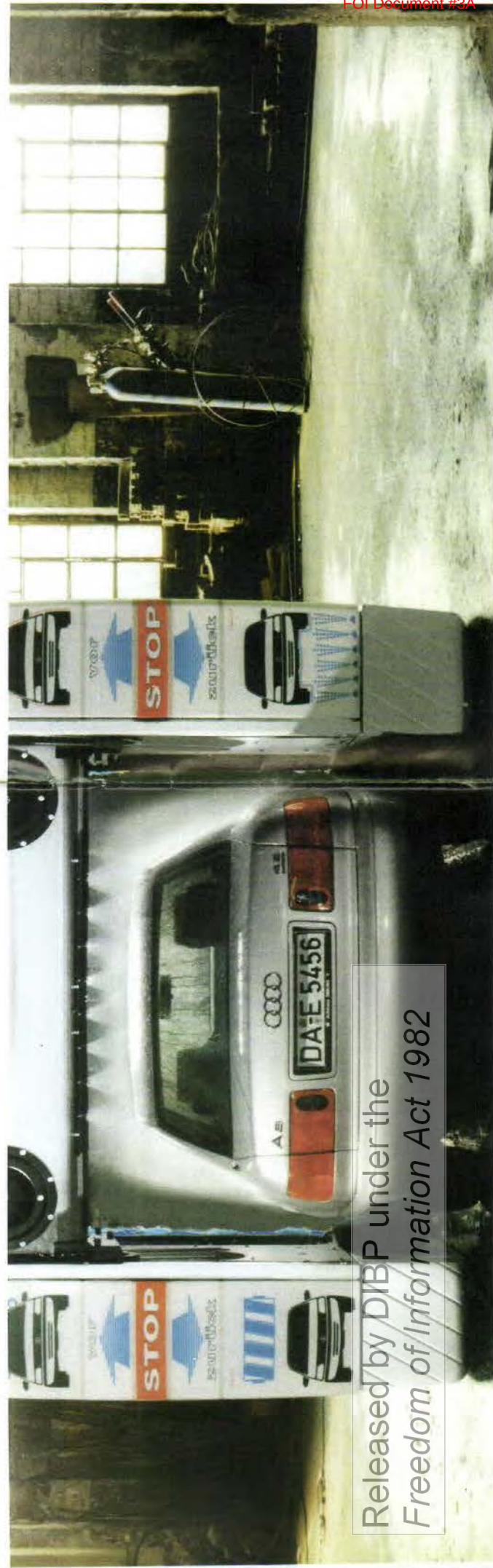
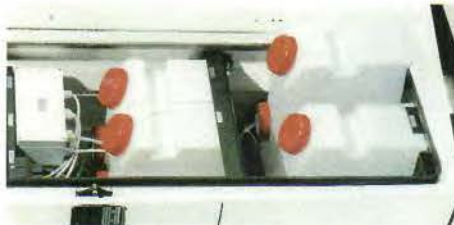
This knowledge allied to the fact that California Kleindienst guarantees the complete product range from the portal rollover system, through self-service washing bays to commercial vehicle washes and the

drive-through car wash, from water treatment to water technology. We guarantee long-term relationships and tailor-made solutions for our customers.



Internal training seminars provide operators with the sector-specific know-how for putting CK 45 portal rollover systems into profitable operation. California Kleindienst provides advice on financial aspects and is pleased to cooperate with franchise partners.

A service organisation with an unmatched network, guaranteeing comprehensive service with short response distances. It goes without saying that careful servicing and system repairs are carried out by trained technicians.



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SCHÖLLKRIPPEN PLANT

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WE RESERVE THE RIGHT TO MAKE
TECHNICAL AND DESIGN MODIFICATIONS.
ÄNDERUNGEN (IN TECHNIK UND DESIGN) VORBEHALTEN



CALIFORNIA KLEINDIENST

Technical description to quotation No.

1. CALIFORNIA KLEINDIENST - Car wash system CK 45 Combi.

The **CK 45** is a roll-over car wash which appeals through modern technology, high quality and attractive design. The combi model is the most compact of the series. It includes all washing and drying functions in one frame.

Through the use of frequency controlled driving motors, tooth wheels and belts, a quiet and soft operating function is provided. In addition, wear and tear and service requirements are greatly reduced. The use of galvanized and stainless steel and plastic parts ensures the stable value and long life. The improved dryer system with wide nozzles provides a higher airflow at reduced noise level. Compared to previous generations, a definite reduction in energy and water consumption has been achieved.

In total, the **CK 45** provides an economical and thorough car wash in minimal space. Additional equipment variations are possible which provide extra advantages and functions.

The basic machine consists of:

- Galvanized steel frame for long life and stable value
- Frequency controlled variable-speed driving motors for smooth starting
- Entrance light barrier for vehicle positioning
- Three-way signal lights on the left and right of machine frame to help the customer position his vehicle perfectly
- All around nozzle system for rinsing
- Side brushes with controlled contact pressure and changeable direction of rotation for gentle washing
- Two-point control of side brushes for optimal adaption to vehicle contours
- Roof brushes with controlled pressure performance and changeable direction of rotation for careful and gentle washing
- Lifting motor with closed tooth belt system and frequency controlled drive motor for roof brush
- Dryer nozzles each with a 3 kW blower angled for optimum air-flow to car sides
- Contour following roof nozzle with two 2,2 KW blowers and light barriers for distance control
- Water system for fresh or recycled water
- Dosage system with containers for shampoo, wax etc, easy access from front
- Electrical cabinet with microprocessor controls and electrical switch and control elements, easy access from front
- Diagnostic system for fast error analysis
- Attractive plastic panneling made of ABS material, 100 % suitable for recycling and UV-resistant
- Floor rails for welding onto T-beams or floor anchoring, based on length of hall
- Supply lines for water, compressed air, electricity and control cables with cable-rail based on length of hall.

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2. Available options

- Energy chain

The plastic energy chain is used as an alternative to the cable-rail for supply line guidance.

- Contour controlled side nozzles

The detection of the side contours of a vehicle through light barriers allows positioning of side nozzles closer to the vehicle. This improves the drying quality of small vehicles or those which are positioned off center and helps optimize the all-around high pressure system (if ordered).

- Pivotable roof nozzle

The pivotable roof nozzle helps optimize the drying effect at the rear of the vehicle. The roof nozzle is set at an angle behind the vehicle, aiming the air-flow directly at the rear area, which is otherwise difficult to reach.

- Hot wax conservation

In addition to shampoo and chemical drying agent, hot wax is also available. This conservation agent is available for selection in additional wash programmes. The nozzles for the hot wax arch are positioned to allow for complete coverage of the vehicle surface. The heating of this conservation agent improves distribution on car surface and effectiveness.

- Illuminated advertising for hot wax

The illuminated advertising for hot wax consists of spotlights integrated into the machine frame. This visual effect up-values the hot-wax selection. This is effective advertising for this high-quality programme.

- Wheel washers

A light barrier detects the position of the wheels. Rotating brushes are guided towards the wheels with pneumatic cylinders and washing proceeds under controlled pressure. The direction of rotation changes once.

- Rim spray system

In addition to the wheel washers, pre-spraying of the rims with the special rim spray system is very effective especially in the case of stubborn brake residue. The rims are sprayed during the foam cycle. The light barrier for the wheel washers is also used for this system. The pump system and special nozzles, which are integrated in the frame, are included in the delivery scope.



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- Foam wash

Pre-washing with foam is designed to effectively loosen dirt from the vehicle surface. It consists of a dosage system, a spray system and a foam generator. The nozzles are positioned for optimum coverage of the vehicle surface.

- Side high pressure

The purpose of the side high pressure system is to remove coarse dirt from the sides of the vehicle. The pump station for the underbody wash is used to service this system with a water pressure of approx. 10 bar. No additional pump is required. The high pressure jets are mounted on the side of the frame in front of the side brushes. The side high pressure and brush wash cycles operate simultaneously which saves time.

- All around high pressure

This alternative provides an extremely thorough high pressure pre-wash of the complete vehicle. The high pressure jets are mounted on the dryer roof nozzle and are controlled to follow the vehicle contours. The lateral high pressure jets are mounted on the side nozzles of the dryer. In conjunction with the optional contour controlled side nozzles, the high pressure jets are also guided along the vehicle contours. The all around high pressure system can either be operated with the 10 bar pump station for the underbody-wash system or with a special piston pump with approximately 80 bar.

- High pressure (HP) pump station

Both the side and all around high pressure systems require approx. 100 l/min of water. Both systems can be operated with the 4 kW pump station for the underbody wash system. Here, pressure of about 10 bar is reached. Alternatively, the all around high pressure system can also be operated with a 80 bar piston pump.

- Magnetic card reader

The magnetic card reader allows self-service operation of the car wash with the use of various magnetic cards:

- single card for a special programme
- multiple card for a special programme
- value card for any desired programme

For week days or times when the use of the car wash is less frequent, special-offer cards/prices can be offered. This helps to even out the flow of car wash customers. A manual control system as well as a display showing programmes, errors and number of washes (latter only for operator) are also included in the magnetic card reader.

- Stand for magnetic card reader

With the help of a mobile stand, the magnetic card reader can be positioned in front of the wash hall during opening hours and then rolled back into the hall after closing.



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- Underbody wash

The underbody wash plant consists of a jet system divided into individually controlled segments. This system can either be operated with used, recycled or fresh water and can be installed at floor level or sunken into the floor (should be indicated on ordering). The 4kW pump for the underbody wash plant pumps up to 100l/min which guarantees effective underbody spraying.

- Underbody conservation

The underbody conservation is carried out by means of a separate nozzle system which is supplied with fresh water and a fixed dosage of the conservation agent.

- Illuminated programme indicator

Four pictograms are integrated into the front side of the car wash frame. These light up according to which programme is in process. The flashing of the pictograms between washes provides effective advertising.

- LED - Rear side programme display

In drive-through wash halls effective advertising on the exit side can be provided by the LED display which is fitted onto the rear of the car wash. The LED display indicates which programme is currently in process and can be used for additional advertising. It can be programmed by the operator.

- Keyboard for programming of LED-display

Programming is made simple with the use of a handy programming device.

- Wheel guide rails

The wheel guide rails are key instruments in positioning the vehicle in the wash hall and act as a guide during entry and exit.

- Door control/Washing-Drying

This control closes the wash-hall door automatically either when drying begins or during the complete cycle in order to apply with strict noise-level regulations.

- Door control/Summer-Winter

This control provides effective protection against freezing in winter. The hall door is closed between washes. It closes automatically when the departing vehicle passes a light barrier. This function can be switched over to operate in the same way as the door control/washing-drying system.

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– Safety stop switch - front

If less than 0,50 m of free space exists between the walls and the machine, either to the front or to the side, a safety stop switch is required for accident prevention. If the stop switch is activated the car-wash comes to a complete standstill.

– Fresh water separation system

A fresh water separation system is compulsory in many countries to prevent chemicals flowing back into the public water system. This system can either be installed in the the equipment room or integrated into the car wash frame (please indicate on ordering).

– Short hall programme

The short hall programme provides an additional light barrier in the wash hall which makes optimized vehicle positioning possible, reducing the required hall length by 0,30 m.

– Vehicle shifting device

In very short halls the roll-over car wash can be combined with a vehicle shifting device. During the wash cycle the vehicle is moved in the opposite direction as the direction in which the car wash is moving. This reduces the required hall length by 1,50m. The vehicle shifting device can be installed either at floor level or sunken into the floor (please indicate on ordering).

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Technical data sheet CK 45 Roll Over



Technical data sheet CK 45 Roll Over

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Technical data sheet CK 45 Duett

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