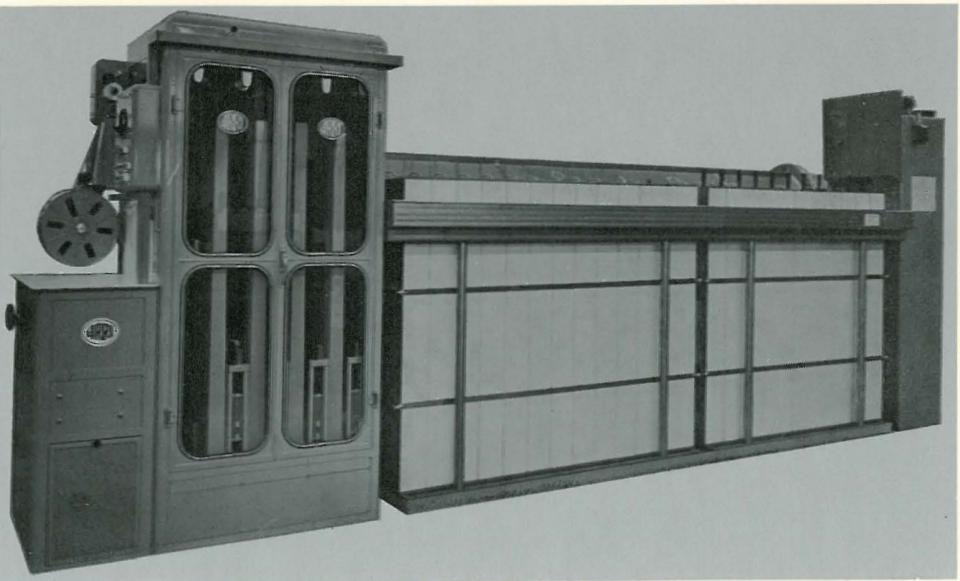
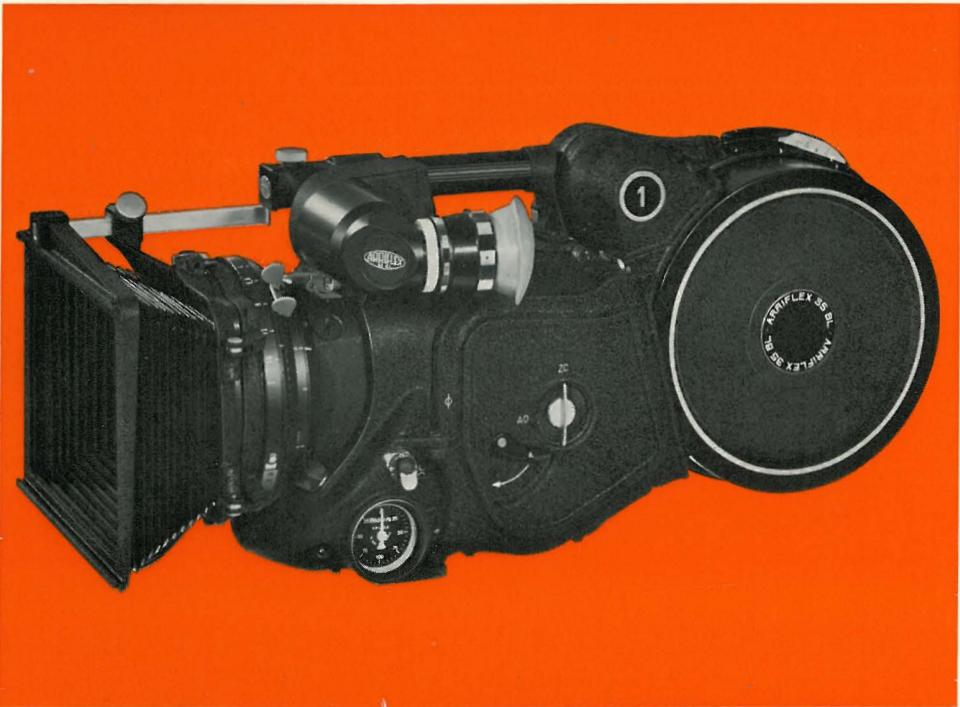
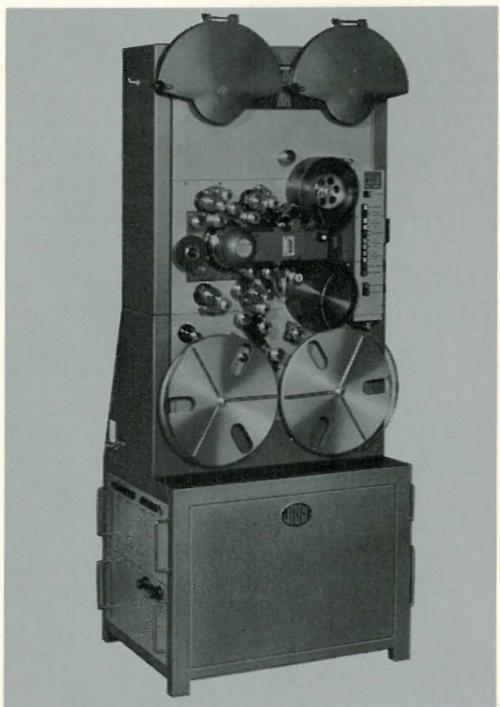
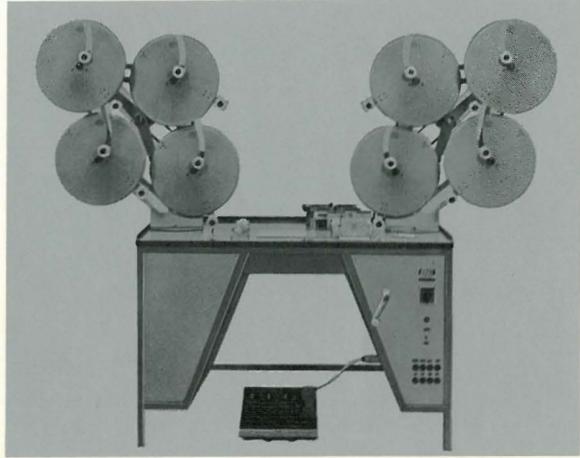
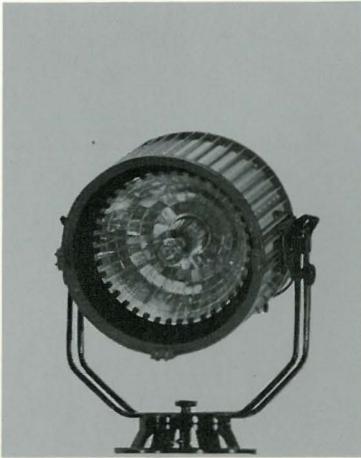




...services the international  
Motion Picture and Television  
Industry



As leading manufacturers in the international film and television industry, ARRI offer their customers the world over a highly varied program of services. In addition to the design and manufacture of cameras and machines for the motion picture industry

ARNOLD & RICHTER have, for more than 50 years, been actively engaged in the practical side of filming.

We operate our own film and dubbing studios and film processing labs, rent lighting and sound-recording equipment as well as generator sets, and produce industrial and advertising films for firms in all lines of business.

This unique link between manufacture, the actual filming, and film production brings with it numerous advantages.

A team of qualified personnel is constantly endeavouring to find new, better ways to serve our customers.

ARRI precision products are world renowned!

Please write for more detailed information material.

## **Contents**

ARRIFLEX 16 St	2
ARRIFLEX 16 BL	4
ARRIFLEX 16 SR	6
ARRIFLEX 35 II C	8
ARRIFLEX 35 BL	10
ARRITECHNO 35	12
Camera Accessories	14
Film Developing Machines	18
Silver Recovery Plants	23
Printing Machines	24
Film Laboratory Equipment	26
Additional Services	28



**ARNOLD & RICHTER KG**

D - 8 München 40 · Türkenstrasse 89  
Phone: (0 89) 38 09-1 · Cables: Arrifilm  
Telex: 5 24 317 arri d

# ARRIFLEX 16 St

## TECHNICAL DATA

### Camera Designation: ARRIFLEX 16 St

**Film Width:** 16 mm

#### Film Material:

Standard 16 mm negative or reversal film, black and white or colour, with or without magnetic sound track, perforated on one or both sides

#### Camera Speed:

4–48 frames per second steplessly, 24 or 25 fps fixed speed

Single frames with single frame mechanism  
Forward and reverse travel

#### Film Capacity:

100 ft daylight loading spools in the camera,  
200 or 400 ft auxiliary magazines with  
footage counter

#### Pilotone System:

On request, pilotone system for 50 or 60 cycles  
with start marker system and manual slate

#### Viewfinder System:

Mirror reflex viewfinder with 180° mirror reflex  
shutter, interchangeable ground glasses with  
diverse format markings, two interchangeable  
10x magnifying viewfinder eyepieces with or  
without automatic closure, diopter adjustment,  
correction lenses, periscopic viewfinder  
attachment for low-level shots and left or  
right eye viewing

#### Lens Opening:

Lens turret with divergent optical axes for  
3 lenses with special quick-change mount;  
one lens mount of special steel with bayonet  
lock for heavy and long lenses

#### Lenses:

Lenses from well-known manufacturers from  
5,7 mm, no upper limit on focal length,  
extension tubes for macro filming, zoom  
lenses and diopter lenses

#### Film Gate:

Film gate with spring-loaded rear pressure  
plate. Side rail fixed on the claw side,  
spring-loaded on the opposite side. All parts  
of special stainless steel

#### Film Transport System:

Combined pull-down claw and registration  
pin system

#### Camera Motors:

Motors with varied functions for use with DC  
or synchronous AC operation, power supply  
from mains or battery

#### Control Devices:

Tachometer 0–50 fps. Frame counter,  
footage counter calibrated in meters or feet

#### Tripod Thread:

3/8" and 1/4"

#### Temperature Range:

–25° C to +40° C, range extensible on request

#### Dimensions:

Length: 16"    Width: 6 1/2"    Height: 8"  
(with matte box and motor, but without  
auxiliary magazine)

#### Weight:

9 lbs (with matte box, 3 lenses and motor;  
however, without auxiliary magazines and film)

#### Further accessories:

Auxiliary magazines, batteries, matte boxes,  
ground glasses, filters, tripods, carrying cases,  
chargers, power supply units, etc.

#### Additional Equipment:

Blimp

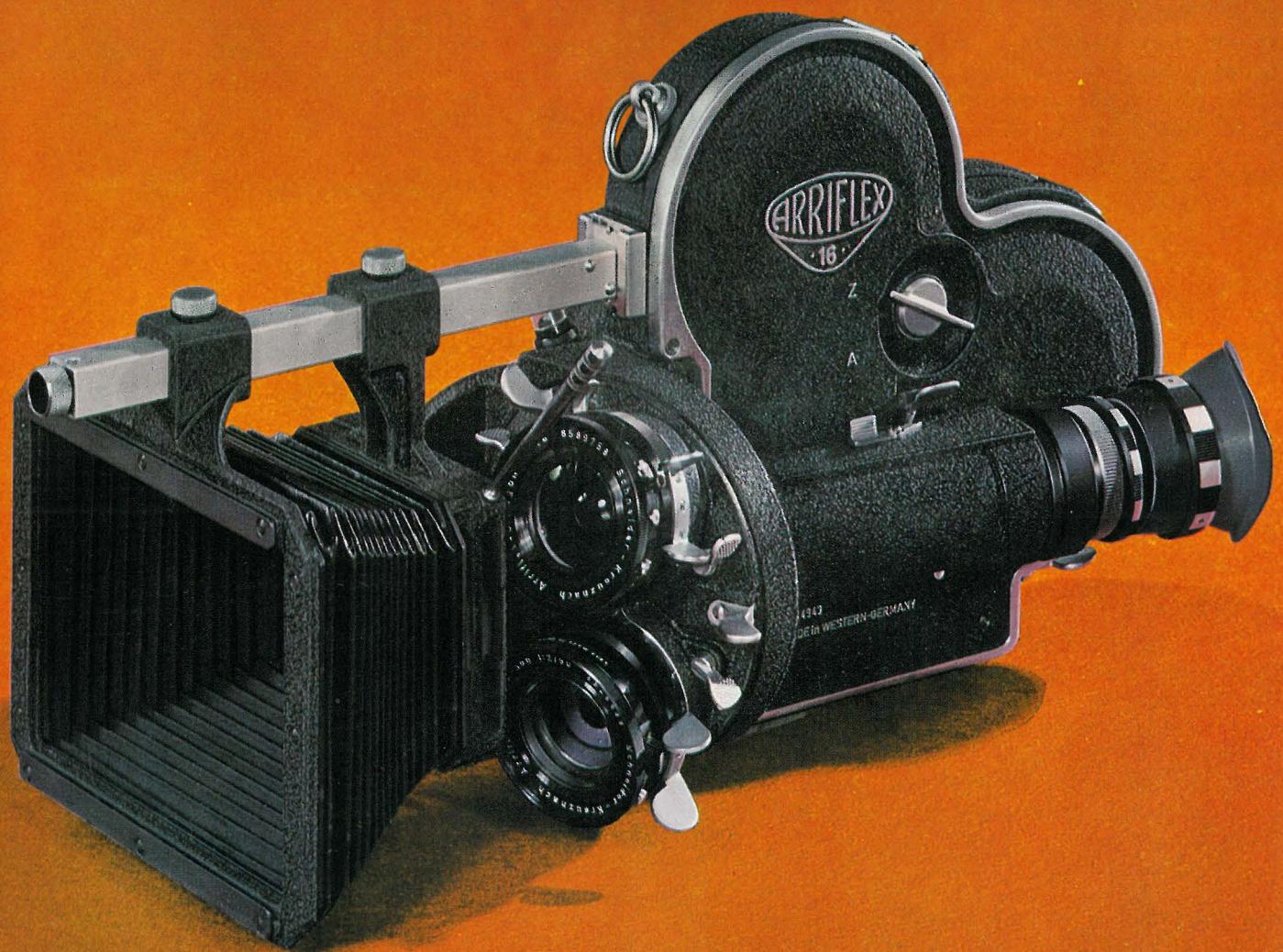
Professional through-the-lens exposure  
control system

Single frame mechanism with time lapse  
and animation equipment, intervalometer  
(2 sec.–3 hours) with automatic lighting  
control

for cine micrography

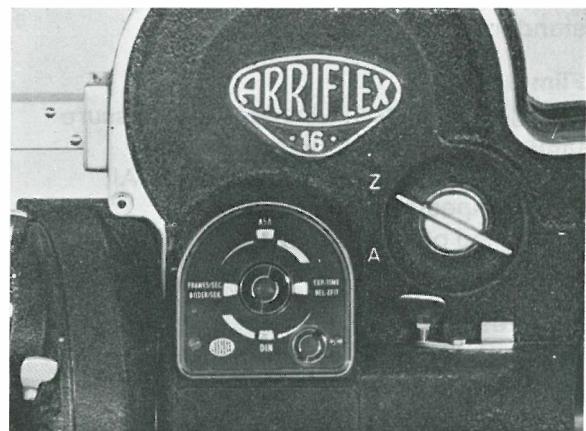
for X-ray cinematography

and for Telecine recording



ARRIFLEX 16 St, the versatile, extremely compact motion picture camera

16 St camera door with built-in TTL exposure control system



# ARRIFLEX 16 BL

## TECHNICAL DATA:

**Camera Designation:** ARRIFLEX 16 BL

**Film Width:** 16 mm

**Film Material:**

Standard 16 mm negative or reversal film, black and white or colour, with or without magnetic sound track, perforated on one or both sides

**Camera Speeds:**

24 or 25 fps fixed speed, 10–40 fps with variable speed control

**Film Capacity:**

400 ft quick-change magazine, and for moderate noise level requirements, 1200 ft double-compartment magazine

**Quiet Operation:**

Noise level max. 30 dB (weighted A), measured at 3 ft from the front lens

**Pilotone System:**

For 50 cycles 24 or 25 fps, or 60 cycles 24 fps with start marker and manual slate systems

**Viewfinder System:**

Mirror reflex viewfinder with 180° mirror reflex shutter, interchangeable ground glasses with diverse format markings, interchangeable viewfinders for tripod mounted or handheld filming with interchangeable 10x magnifying viewfinder eyepieces with automatic closure, diopter adjustment, mount for correction lenses

**Lens Opening:**

One bayonet lock lenses opening of special hardened steel for blimped zoom or other single lenses

**Lenses:**

Blimped zoom lenses, also lens blimp for standard lenses from 8 mm to 85 mm

**Film Gate:**

Film gate with spring-loaded rear pressure plate. Side rail fixed on the claw side, Spring-loaded on the opposite side. All parts of special stainless steel. Combined pull-down claw and registration pin system

**Film Feed System:**

Mechanically coupled, drive from camera motor

**Camera Motors:**

DC motor governor controlled for use with battery

In conjunction with the precision motor control PMRe (see additional equipment) as 4-mode motor

Built-in crystal control with special DC motor for all modes of operation except governor control

Synchronous motor 50 or 60 cycles

**Control Devices:**

Tachometer 0–50 fps, frame counter, footage counter calibrated in meters or feet.

Camera run indicator

**Tripod Thread:**

3/8" and 1/4"

**Temperature Range:**

–20° C to +40° C, range extensible on request

**Dimensions:**

Length: 22 1/4" Width: 10 1/2" Height: 14 1/4" (with matte box, blimped zoom lens, motor and 400 ft magazine)

**Weight:**

17 lbs (with matte box, blimped zoom lenses, motor and 400 ft magazine, however without film)

**Further Accessories:**

Batteries, matte boxes, ground glasses, filters, tripods, carrying cases, chargers, power supply units, etc.

**Additional Equipment:**

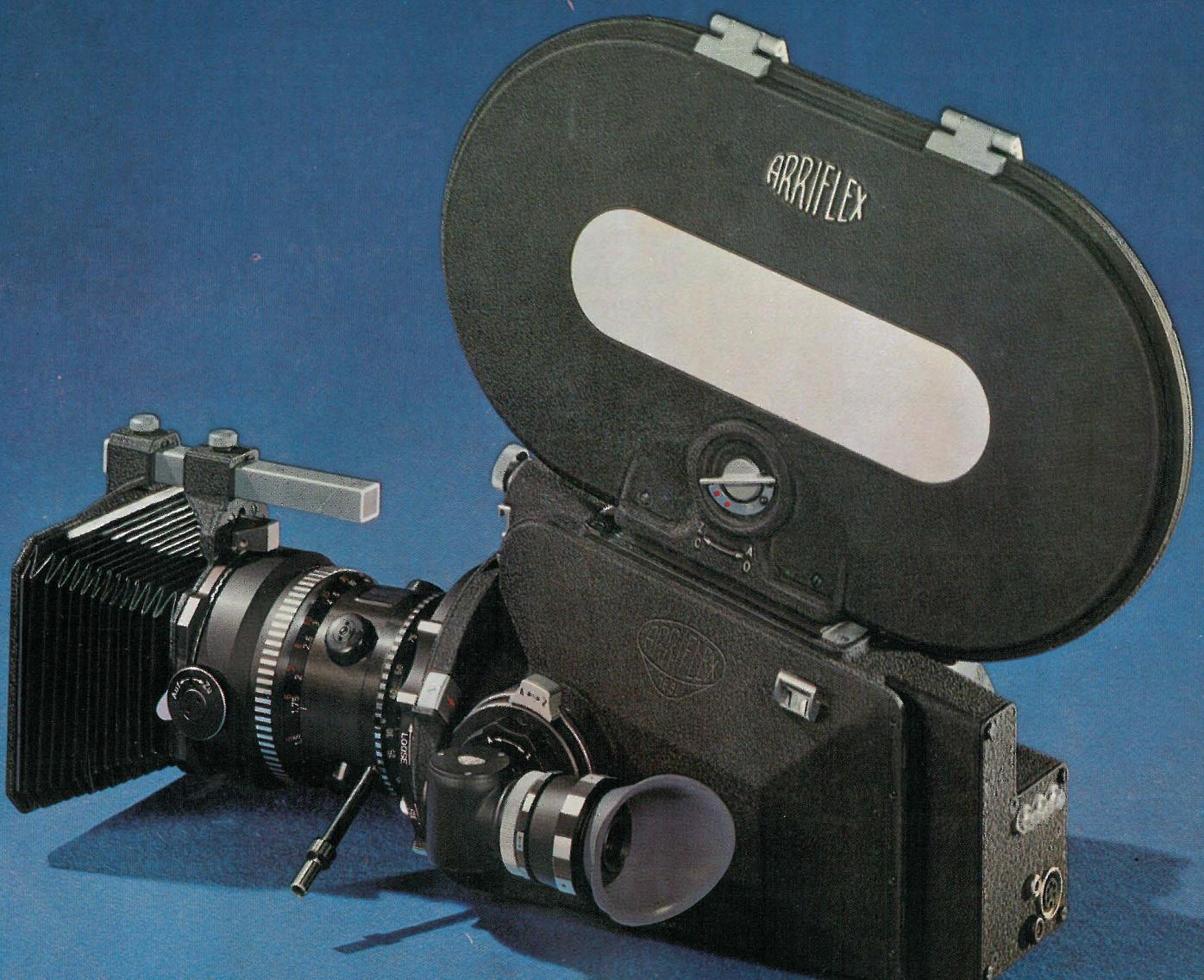
Professional TTL exposure control system

Zoom motor

Single-system sound module with amplifier

Precision Motor Control (PMRe) for synchronous sound filming without cable connection or radio link between camera and tape recorder

Built-in crystal control as attachable accessory with special DC motor and automatic stop at viewing position



The QUIET ARRIFLEX 16 BL, for synchronous sound filming with double-system sound Pilotone system or with single-system magnetic sound module

# ARRIFLEX 16 SR

## TECHNICAL DATA

### Camera Designation: ARRIFLEX 16 SR

**Film Width:** 16 mm

#### Film Material:

Standard 16 mm negative or reversal film, black and white or color, with or without magnetic sound track, single or double-sided perforations

#### Frame Speeds:

25 (24) fps fixed speed, 24–50 fps variable speed

#### Magazine Capacity:

400 ft (120 m) coaxial double-compartment quick-change magazines

#### Low Noise Level:

Quiet operation for synchronous double-system sound filming blimpfree ( $\leq 31$  dB)

#### Viewfinder System:

High speed mirror-reflex viewfinder system, adjustable on 3 levels, with mirror-coated 180° rotary shutter, automatic stop at viewing position, interchangeable ground glasses with various format markings, 10-fold viewfinder magnification. Interchangeable viewfinder eyepieces with or without automatic closure, diopter adjustment, interchangeable eyecup with mount for correction lenses

#### Lens Receptacle:

Hardened ARRIFLEX combination bayonet mount for use with the entire ARRIFLEX lens program

#### Exposure Control:

Professional CdS follow-pointer exposure control system, measuring behind the lens (equipped for fully automatic exposure control)

#### Film Guides:

When the magazine is mounted, the film runs freely in a spacer gate. A pressure plate in the area of the film gate ensures exact location of the focal plane.

#### Film Movement:

Combined transport claw and registration pin system

#### Drive Motor:

Crystal-controlled 12 V DC motor for battery operation, without commutator, switchable between 24 and 25 fps

#### Footage Indicator:

Counter calibrated in meters or feet

#### Tripod Thread:

3/8"

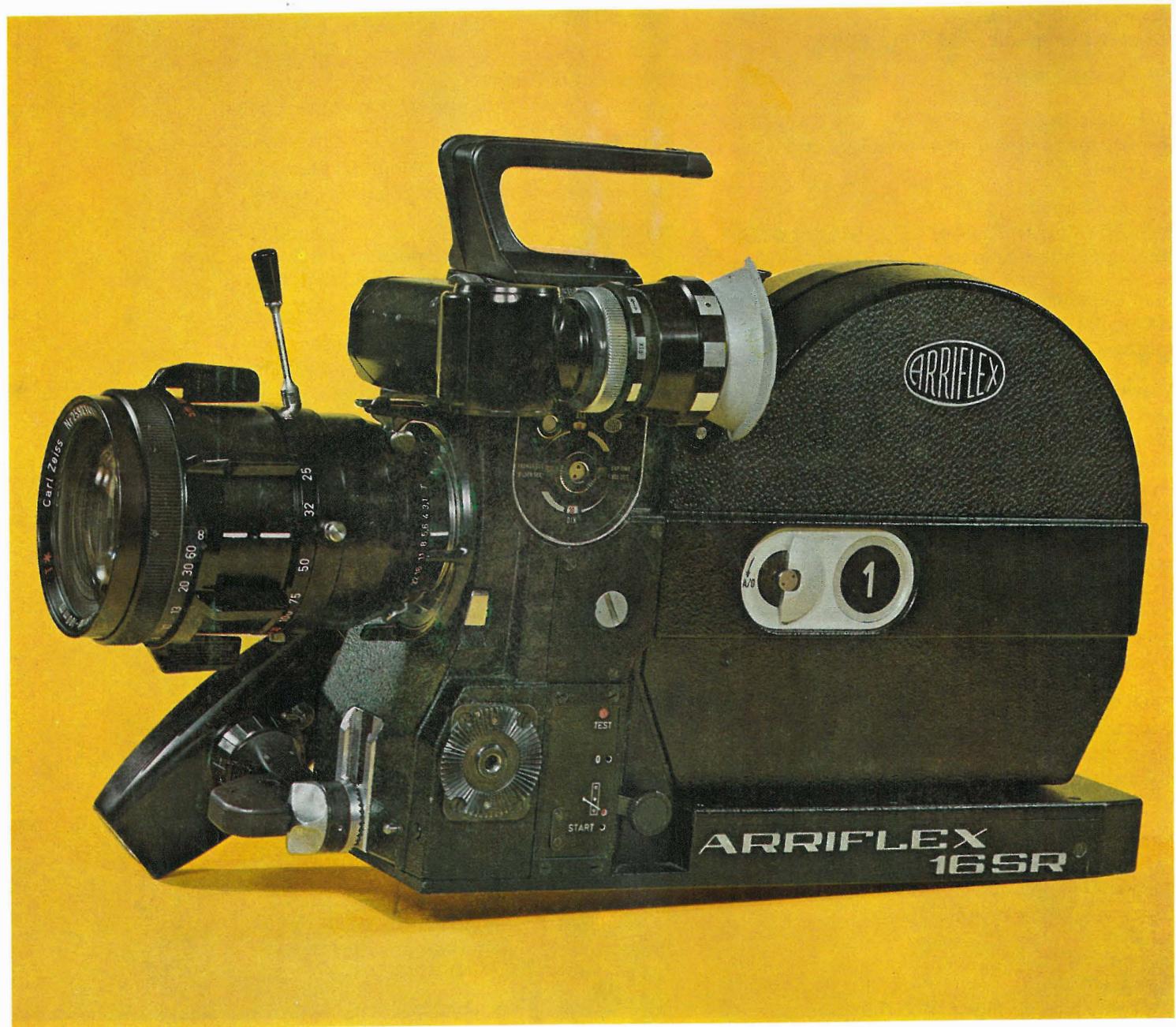
#### Dimensions:

Length: 11½" (290 mm)  
Width: 3½" (90 mm)  
Height: 7½" (190 mm)  
(with magazine, without lens)

**Weight:** approx 14 lbs

#### Further Accessories:

Pivoting and tilting hand grip, adjustable to most convenient holding position, with release  
Control mechanism for variable frame speeds  
Automatic diaphragm  
Equipped for time coding, automatic exposure, Pilotone  
Batteries, matte boxes, ground glasses, filters, tripods, carrying case, chargers, power supply units, etc.



ARRIFLEX 16 SR, the new specially small,  
handy, quiet 16 mm motion picture camera  
for blimpfree synchronous sound filming

# ARRIFLEX 35 II C

## TECHNICAL DATA

### Camera Designation: ARRIFLEX 35 IIC

**Film Width:** 35 mm

#### Film Material:

35 mm standard negative film, black and white or colour

#### Camera Speed:

8–50 fps steplessly, 24 or 25 fps fixed speed  
Forward and reverse travel

#### Film Capacity:

200 or 400 ft quick-change magazines with footage counter

#### Viewfinder System:

Mirror-reflex viewfinder system with 180° mirror-reflex shutter, interchangeable ground glasses with diverse format markings, interchangeable viewfinder eyepieces, 6,5x total magnification with or without automatic closure, special camera door for Scope shots, switchable for normal and unsqueezed viewing. Diopter adjustment, mount for correction lenses, left or right eye viewing, periscopic finder attachment for low-level shots

#### Lens Opening:

Lens turret for use with 3 lenses with special quick-change mount; one lens mount of special steel with bayonet lock for heavy and long lenses

#### Lenses:

Lenses from well-known manufacturers from 9,8 mm, no upper limit on focal length, extension tubes for macro filming, zoom lenses

#### Film Gate:

Film gate with spring-loaded rear pressure plate. Side rail fixed on the claw side, spring-loaded on the opposite side. All parts of special stainless steel

#### Film Transport System:

Mechanically coupled, driven from camera motor, with 400 ft magazine, reverse travel also

#### Camera motors:

Motors with various functions for DC or AC use, power supply from battery or mains

#### Control Devices:

Tachometer: 0–50 fps

Footage counter, calibrated in meters or feet

#### Tripod Thread:

3/8"

#### Temperature Range:

–25° C to +40° C, range extensible on request

#### Dimensions:

Length: 15" Width: 8" Height: 15<sup>3/4</sup>"  
(with matte box, motor and 200 ft magazine)

#### Weight:

12 lbs (with matte box, 3 lenses, motor and 200 ft magazine, however without film)

#### Further Accessories:

Batteries, matte boxes, ground glasses, filters, tripods, chargers, power supply units

#### Additional Equipment:

Conversion for Techniscope II system

Synchronous motor gears for picture/sound filming (double-system)

Animation motor, intervalometer with automatic lighting control

Blimps

for X-ray cinematography

#### Special Versions of the ARRIFLEX 35 IIC:

Model IIC BV with variable shutter 0–165°

Model IIC (P+St) with Pilotone (50 or 60 cycles) and start marker systems for film and tape

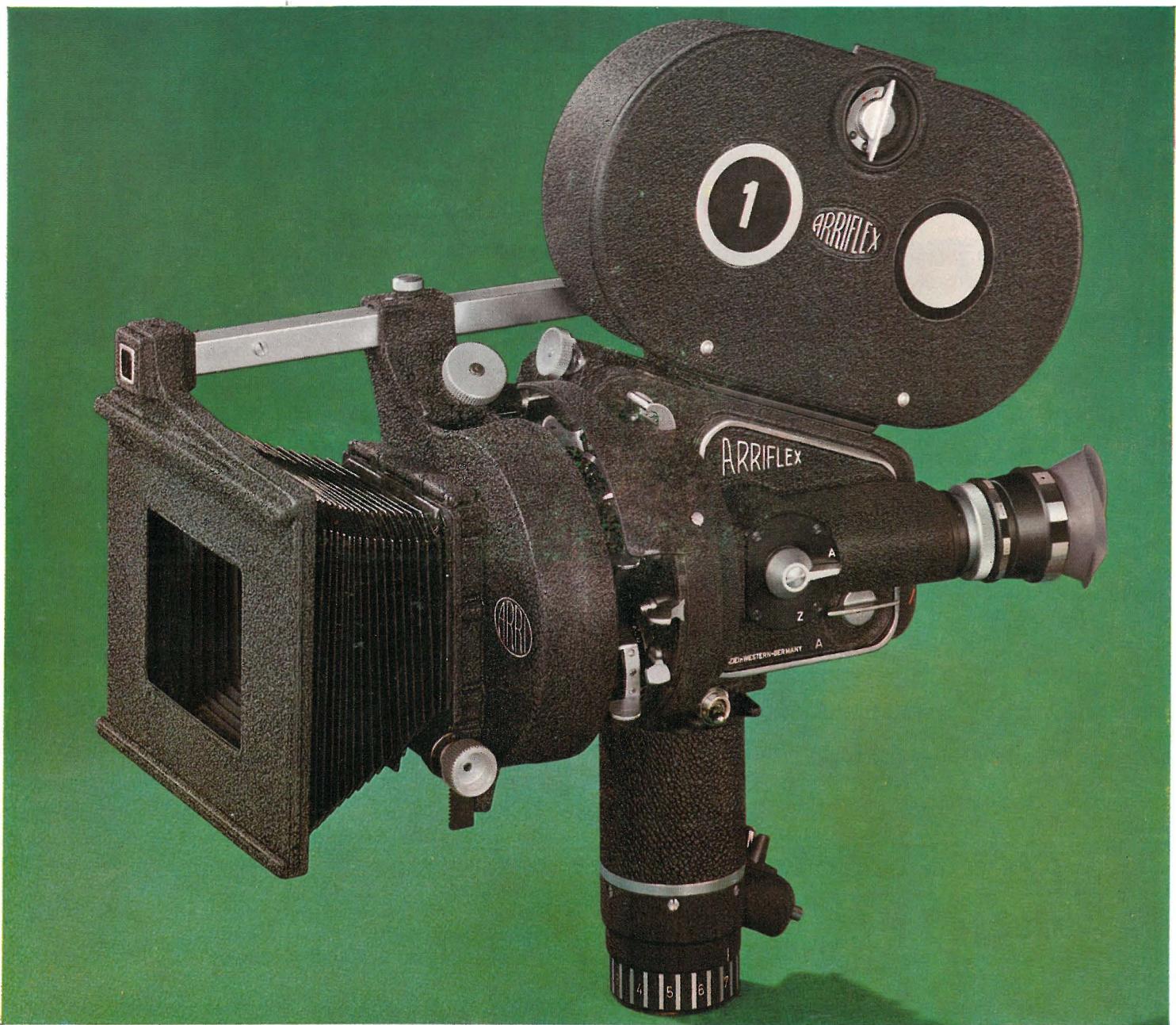
Model IIC BV (P+St) with variable shutter 0–165°, Pilotone (50 or 60 cycles) and start marker system

Modell IIC HS

for camera speeds from 22–80 fps

Techniscope II System: ARRIFLEX 35 motion cameras can easily be equipped for this system

ARRIFLEX 35 X-ray cameras



ARRIFLEX 35 IIC, the wellproven 35 mm motion picture camera for film production. In conjunction with an ARRI Blimp, this hand camera is ideally suited for studio use. Also highly successful for documentaries, news photography, in the field of science, X-ray and industrial filming, and many other varied assignments

# ARRIFLEX 35 BL

## TECHNICAL DATA:

**Camera Designation:** ARRIFLEX 35 BL

**Film Width:** 35 mm

**Film Material:**

35 mm negative standard film, black and white or color

**Camera Speed:**

Stepless from 5 to 100 fps, forward run, 24 fps and 25 fps, crystal controlled

**Magazine Capacity:**

400 ft (120 m) and 1000 ft (300 m) double-compartment coaxial magazine for forward travel

**Noise Level:**

Approx. 32 dB (weighted A) measured 3 ft (1 m) in front of the filter plate with standard lenses in the lens housing

≤ 28 dB (weighted A) with Zoom or

Telephoto lenses measured 3 ft (1 m) in front of the lens

**Pilotone Device:**

For 50 Hz, 24 or 25 fps, or 60 Hz, 24 fps with start marking device

**Viewfinder:**

Mirror-reflex viewfinder system with 180° mirror-reflex shutter, interchangeable ground glasses with various format markings; viewfinder shows full aperture image.

Viewfinder eyepiece with diopter adjustment and mount for correction lens, 120° vertical adjustment (image remains upright). Automatic stop at viewing position for uninterrupted viewing

**Lens Receptacle:**

One lens receptacle of special hardened steel with bayonet lock

**Lenses:**

Lenses of all customary focal lengths, also Zoom and Telephoto lenses with special supports

**Film Guides:**

No spring-loaded side guides. Lateral film guidance with registration pins. The spacer gate determines the image plane. Interchangeable film gates for all customary formats including silent film format.

**Film Movement:**

Forward and reverse run, dual registration pin system, maximum image steadiness even at high framing speeds

**Film Gates:**

Film gates, easily interchangeable by means of a dovetail lock

**Film Take-up:**

The magazine is mechanically coupled to the camera motor

**Drive Motor:**

Variable DC printed motor

**Control Indicators:**

Tachometer 0–100 fps, footage counter on camera calibrated in meters or feet

Footage indicator on magazine calibrated in meters or feet

Sync control acoustical, and visible in the viewfinder

Blinking light for control of camera run

**Tripod Thread:**

3/8"

**Dimensions:**

with 400 ft (120 m) and 1000 ft (300 m) magazine

Length: 20<sup>1</sup>/<sub>2</sub>" (525 mm) and 25" (630 mm)

Width: 10<sup>1</sup>/<sub>2</sub>" (270 mm) and 10<sup>1</sup>/<sub>2</sub>" (270 mm)

Height: 9" (230 mm) and 12" (310 mm)

**Weight:**

approx. 29 lbs (ca. 13 kg)

(ready for operation with lens, lens blimp, and 400 ft of film)

**Further Accessories:**

Universal lens housing, applicable for lenses with focal lengths from 16 to 85 mm. Filter slot for 3" and 4" filters; interchangeable iris and focusing scales. Extension for lenses with focal lengths of up to 135 mm

Special lens housing for the afore-mentioned high-speed lenses. The filter holder and matte box from the universal lens housing can be used here

Sound-insulated lens support for zoom and telephoto lenses

Camera support with adjustable hand grip on the left side for shoulder operation with the 1000 ft (300 m) magazine; also for use with the 400 ft (120 m) magazine, to facilitate optimum camera operation

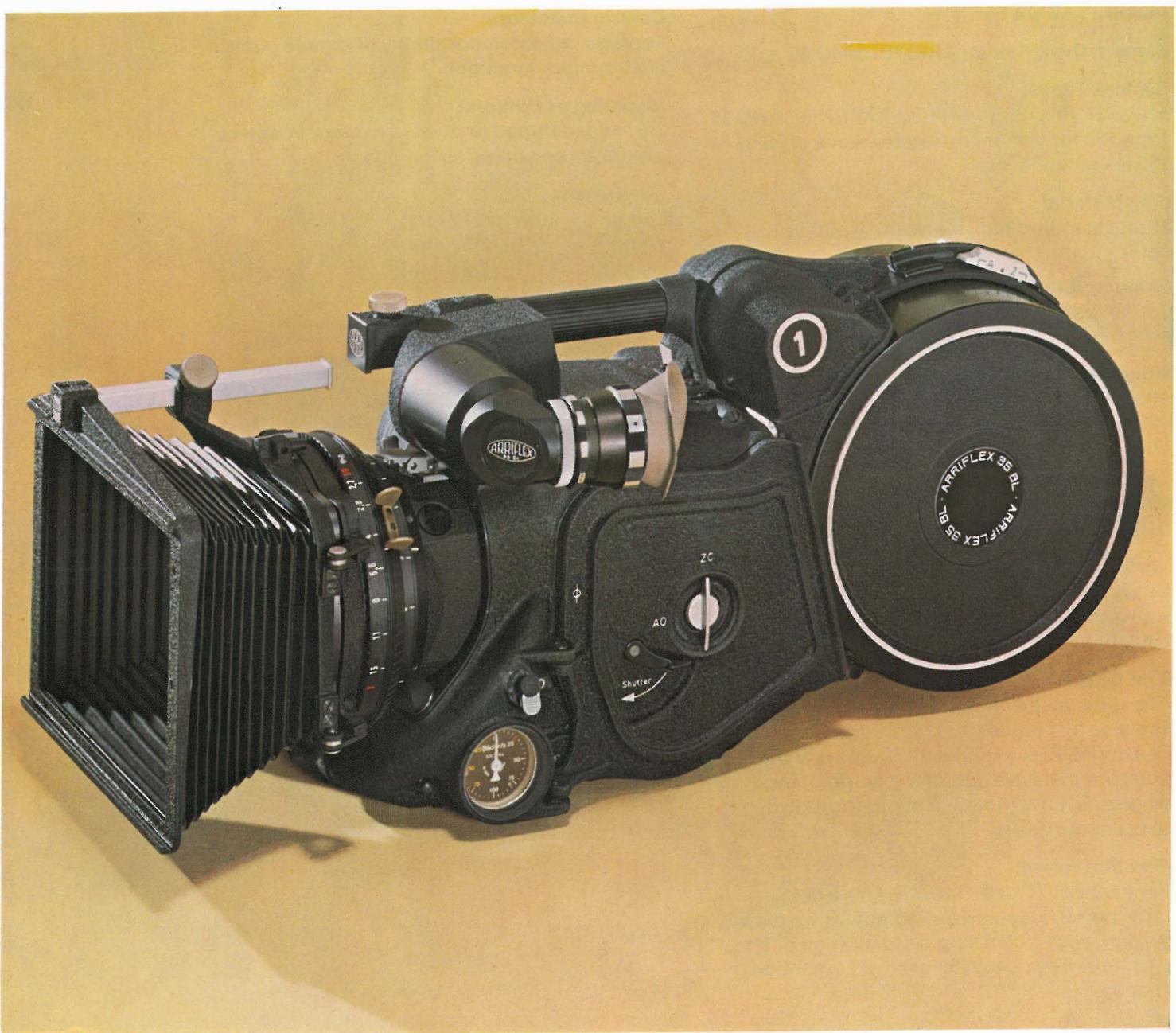
Standard matte box with double extension and two filter stages; rear stage can be rotated for polarising filters

Centering plate for tripod operation, adjustable according to camera complement

Eyepiece extension for tripod filming in preparation

Power supply with camera speed control.

Batteries, charger, ground glasses, filters, tripods, carrying cases



ARRIFLEX 35 BL, the self-blumped 35 mm shoulder camera with concentric 400 and 1000 ft (120 and 300 m) double-compartment magazine. The camera for professional synchronous sound filming

# ARRITECHNO 35

## TECHNICAL DATA:

### Camera Designation: ARRITECHNO 35

#### Camera Types:

ARRITECHNO 35 Type 90 and ARRITECHNO 35 Type 150 for maximum frame speeds of 90 or 150 fps respectively

#### Film Material:

35 mm standard film, black and white or color

#### Framing Rate:

0 to 90 fps or 0 to 150 fps resp., single-frame switching

#### Magazine Capacity:

200 ft (60 m) quick-change magazine, 400 ft (120 m) magazine, both with footage indicator

#### Lens Receptacle:

Mounting plate for interchangeable lenses with ARRIFLEX mount

#### Lenses:

Lenses of all customary focal lengths from well-known domestic and foreign manufacturers

#### Film Guide:

Film gate on the camera with aperture plate and side film guides.

The opposite side of the film guide and the pressure plate are part of the quick-change magazine. Low-friction film run-through due to spacer gate design

#### Film Movement:

For the ARRITECHNO 35 Type 90, a single, for Type 150 a double forked pull-down claw system, each with a single registration pin. Vibration-free operation even at high frame speeds

#### Film Take-up:

Magazine is mechanically coupled to the camera motor

#### Electrical Connection:

Main connection for all electrical operations

#### Drive Motor:

Electronically controlled DC printed motor with extremely short run-up time

#### Film Run-Out Switch and Speed Limiter:

Automatic camera shut-off after run-through of the film end.

Interruption of the control circuit if the maximum frame speed is exceeded

#### Control Indicators:

Footage indicator, possibility of remote control of all camera functions

#### Mounting of Camera:

3/8" tripod thread or diverse camera adapters of various construction lengths

#### Dimensions:

Length: 10<sup>3</sup>/<sub>4</sub>" (273 mm)

Width: 6" (152 mm)

Height: 11" (284 mm)

#### Weight:

ca. 13 lbs (6 kg)

(with 200 ft (60 m) magazine, without film, without lens)

#### Further Accessories:

Attachable through-the-lens boresight, in straight and angular versions, for exact image field and focusing control

Adjustable double-channel pulse generator for control of external instruments or a second camera

Top marking device for exposure of markings in the image area

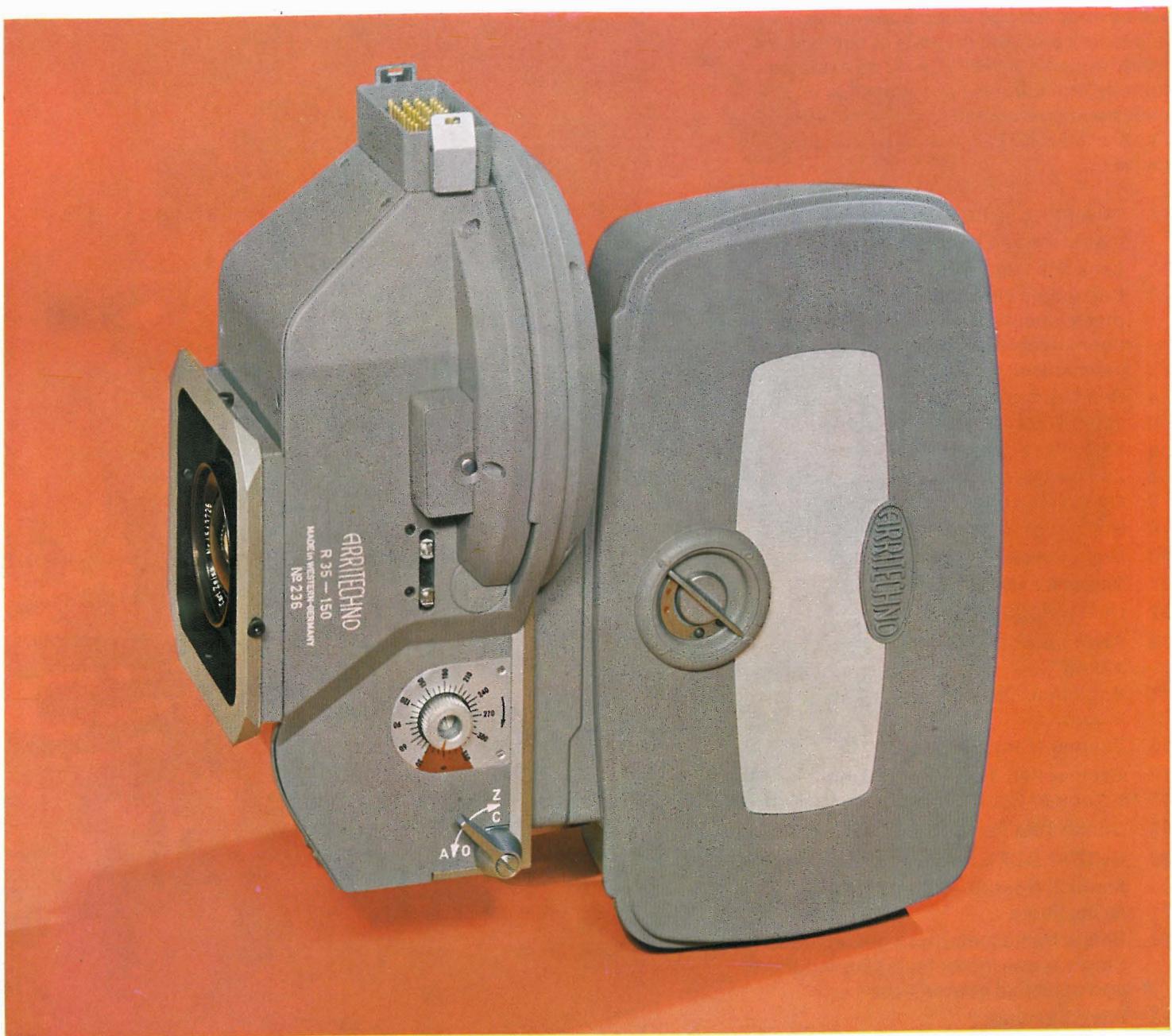
Timing mark device, mountable in the magazine, for exposure of a time-based mark

Power supply units for ARRITECHNO 35 Types 90 and 150

Adapter for frontal camera mounting

Counterweight for 200 ft (60 m) magazine

Cover for film gate



ARRITECHNO 35, the 35 mm X-ray and instrumentation motion picture camera to meet the special cinematographic demands made by medicine, technology, and research for the registration, analysis, and documentation of especially fast-moving objects. Easy operation through the quick-change magazine system.

## The professional camera accessories

We have developed a comprehensive accessory program for each of our camera types, here the ARRIFLEX IIC as example, thereby providing the prerequisites for the expansive operational spectrum of all ARRIFLEX and ARRITECHNO motion picture cameras.

- 1 ARRIFLEX 35 IIC with matte box, 400 ft magazine and handgrip motor
- 2 Lens caps for turret
- 3 Periscopic viewfinder attachment for eyepiece, standard viewfinder eyepiece, viewfinder eyepiece with automatic closure mechanism
- 4 Bellows matte box, sunshade
- 5 200 ft and 400 ft magazine, covers
- 6 Shoulder straps with flat carbine
- 7 Zeiss lenses
- 8 Cooke lenses
- 9 Schneider lenses
- 10 Front lenses
- 11 Tegea 9,8 mm
- 12 ULTRASCOPE 76–310 mm
- 13 Angénieux 25–250 mm with steel bayonet mount \*
- 14 Angénieux 35–140 mm with steel bayonet mount
- 15 Zoomar Macro lenses
- 16 Zoomar Pan-Tele-Kilar 300 mm \*
- 17/18 Zoomar Sport-Fern-Kombi 400/600 mm \*
- 19 Cooke Tele Panchrom 152, 203 and 318 mm
- 20 ULTRASCOPE lenses (compression factor 2) from 40–600 mm
- 21 Glass filters
- 22 Single frame motor with geared base  
Single frame motor including reduction and universal geared bases
- 23 Intervalometer
- 24 Remote control meter
- 25 Electromagnetic additional shutter
- 26 Power supply
- 27 Synchronous motor on universal geared base
- 28 Electric distribution box with support frame
- 29 24 V DC governor controlled motor
- 30 Synchronous motor with intermediate gear and geared base
- 31 24 V DC motor with pilotone generator
- 32 Reduction geared base
- 33 Handgrip motor 16 V with rheostat
- 34 16 V governor controlled handgrip motor
- 35 Handgrip motor 24 V with rheostat
- 36 Tripod adapter for universal geared base
- 37 Special charger NCL/06 for all NC storage batteries
- 38 Universal charger for all dryfit storage batteries
- 39 Charger for all 16 V special wet cell lead storage batteries
- 40 Charger for 24 V and 32 V storage batteries
- 41 Nickel cadmium storage battery 16 V 6 Ah
- 42 Nickel cadmium storage battery 16 V 4 Ah
- 43 Special wet cell lead storage battery permanent type 16 V 7,5 Ah
- 44 Special wet cell lead storage battery standard type 16 V 7,5 Ah
- 45 Special wet cell lead storage battery permanent type 16 V 3,5 Ah
- 46 Special wet cell lead storage battery standard type 24 V 7,5 Ah
- 47 Dryfit storage battery 16 V 5,2 Ah
- 48 Dryfit storage battery 16 V 2,6 Ah
- 49 32 V storage battery in knapsack
- 50 Transport and storage case for camera and accessories
- 51 Hydraulic stand
- 52 ARRI Blimp 300
- 53 Halogen camera light
- 54 Heavy duty "shorty" tripod without head
- 55 Heavy duty gyro tripod
- 56 Ground tripod legs with bowl
- 57 Shoulder pod with bodybrace
- 58 Shoulder pod
- 59 ARRI tripod scooter
- 60 Heavy duty friction tripod
- 61 1000 ft adaptation stand
- 62 Leather cover for tripod
- 63 Gyro tripod
- 64 ARRIFLEX 35 IIC (P + St)
- 65 ARRIVOX-TANDBERG magnetic tape recorder
- 66 Special tripod
- 67 ARRIFLEX 35 IIC (T)
- 68 Ground tripod
- 69 Balancing plate
- 70 ARRIFLEX 35 IIC BV
- 71 Special tripod
- 72 Extra heavy duty tripod
- 73 Tripod hi-hat
- 74 ARRIFLEX 35 IIC HS
- 75 Rheostat for ARRIFLEX 35 IIC HS
- 76 "Shorty" tripod
- 77 Tripod spider, collapsed
- 78 ARRI midget dolly
- 79 ARRI Blimp 120 S
- 80 Transport and storage case



- 54 Heavy duty "shorty" tripod without head
- 55 Heavy duty gyro tripod
- 56 Ground tripod legs with bowl
- 57 Shoulder pod with bodybrace
- 58 Shoulder pod
- 59 ARRI tripod scooter
- 60 Heavy duty friction tripod
- 61 1000 ft adaptation stand
- 62 Leather cover for tripod
- 63 Gyro tripod
- 64 ARRIFLEX 35 IIC (P + St)
- 65 ARRIVOX-TANDBERG magnetic tape recorder
- 66 Special tripod
- 67 ARRIFLEX 35 IIC (T)
- 68 Ground tripod
- 69 Balancing plate
- 70 ARRIFLEX 35 IIC BV
- 71 Special tripod
- 72 Extra heavy duty tripod
- 73 Tripod hi-hat
- 74 ARRIFLEX 35 IIC HS
- 75 Rheostat for ARRIFLEX 35 IIC HS
- 76 "Shorty" tripod
- 77 Tripod spider, collapsed
- 78 ARRI midget dolly
- 79 ARRI Blimp 120 S
- 80 Transport and storage case

## ARRIFLEX Lenses



For ARRIFLEX and ARRITECHNO motion picture cameras, we specially select, test, and adjust high quality lenses of both domestic and foreign manufacture.

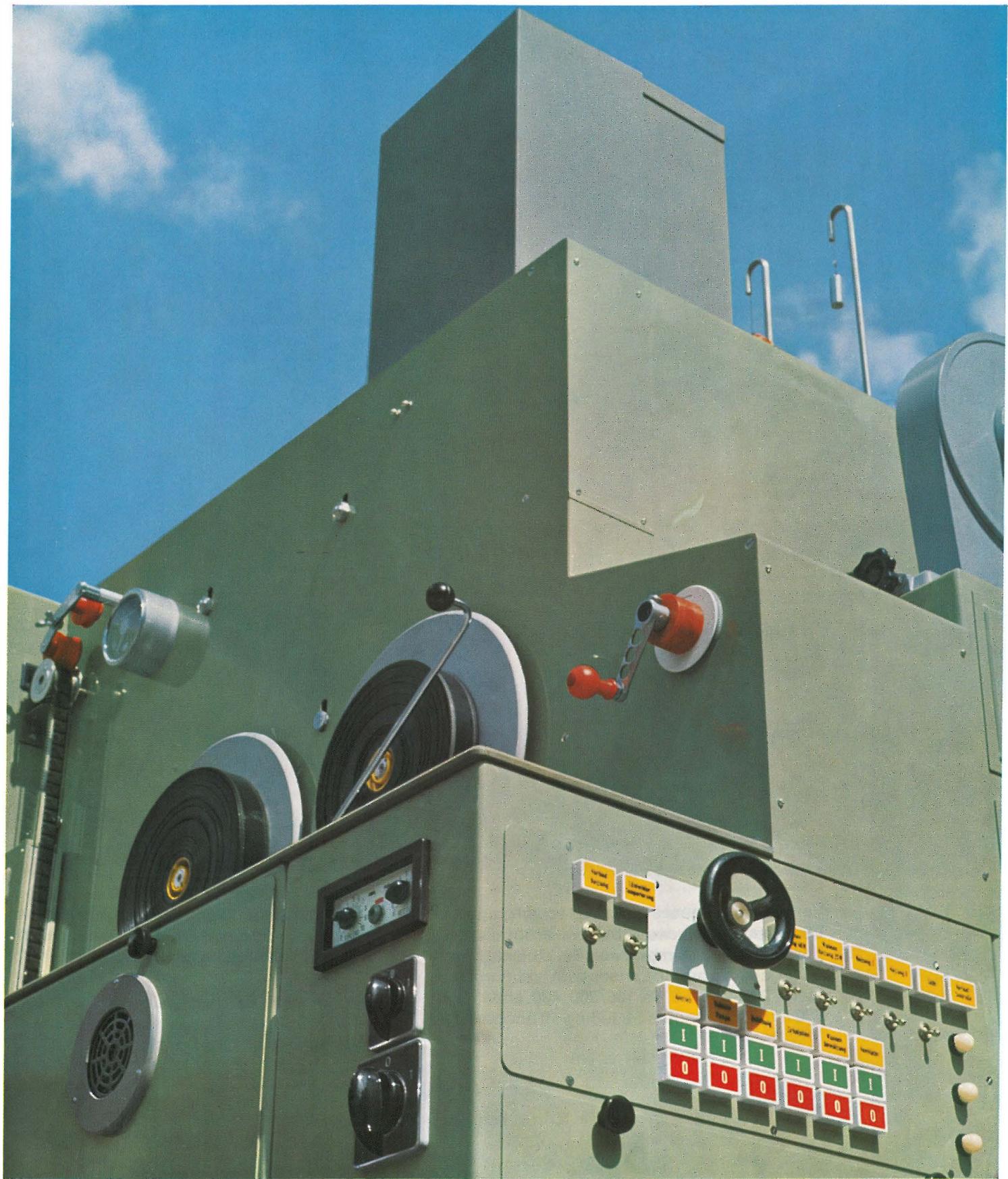
All lenses with the special ARRIFLEX mount are coated and colour corrected. The ARRIFLEX mount guarantees exact adjustment of the distance between the lens flange and the focal plane.

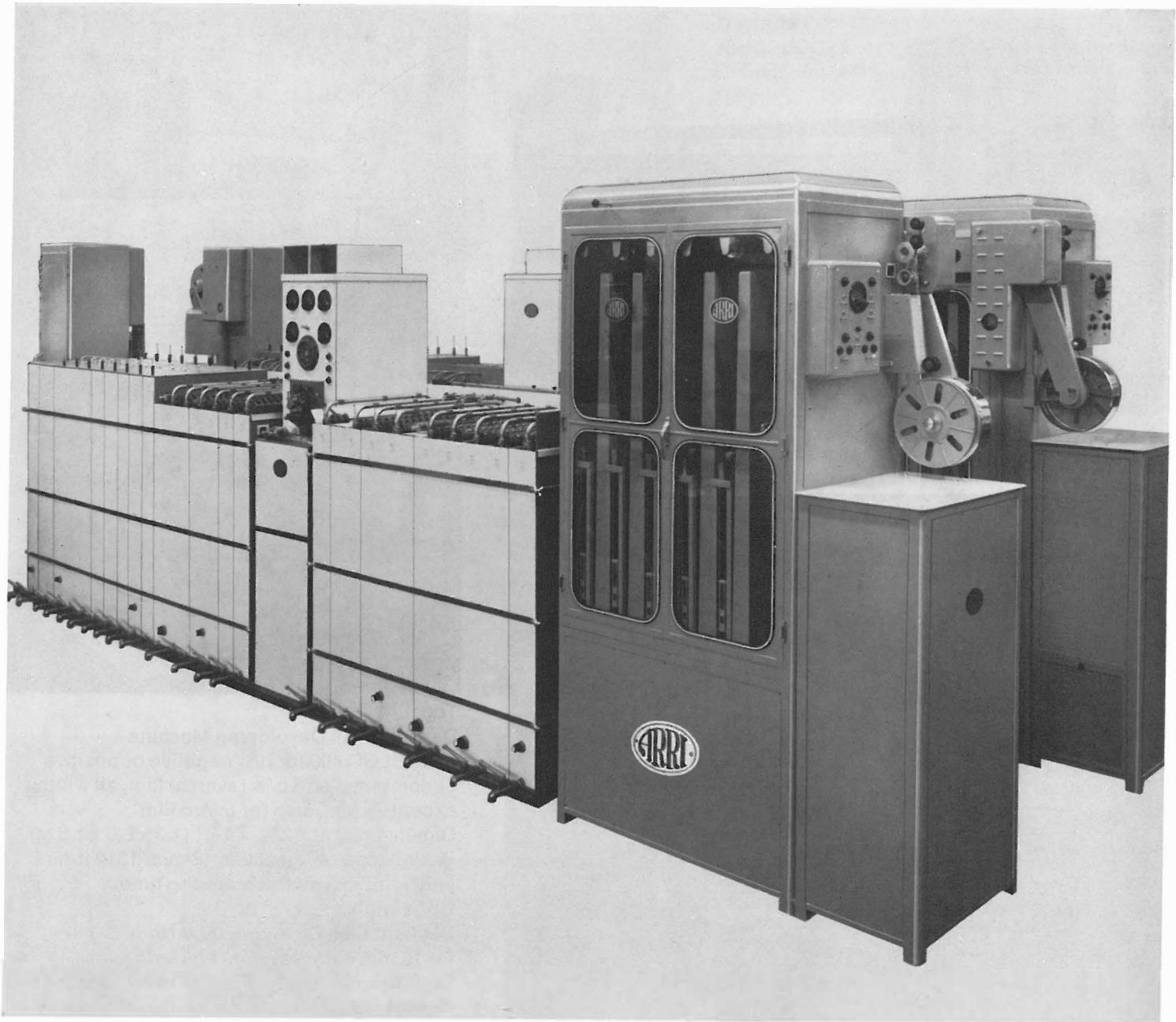
We supply lenses with focal lengths from 5,7 mm to 600 mm, macro lenses for close-ups from 8 cm on, also lens intermediate rings for macro photography.

Various zoom lenses with focal lengths up to f/20 are also included in the lens program. For Scope photography we offer ULTRASCOPE Anamorphic Lenses with anamorphic factor 2 with 40, 50, 85, 135, 300, 400, and 600 mm focal lengths including all accessories.

A special lens cradle program is available for long, heavy zoom or telephoto lenses, as well as for ULTRASCOPE anamorphic lenses.

## Film Developing Machines





Film Developing Machine CV 16/35  
in tandem construction for colour negative  
and positive film

Dimensions: approx. 27'7" x 9'5" x 9'5"  
Output: 4100 ft/h per machine side with  
colour positive film

Available also as single machine for all film  
developing processes

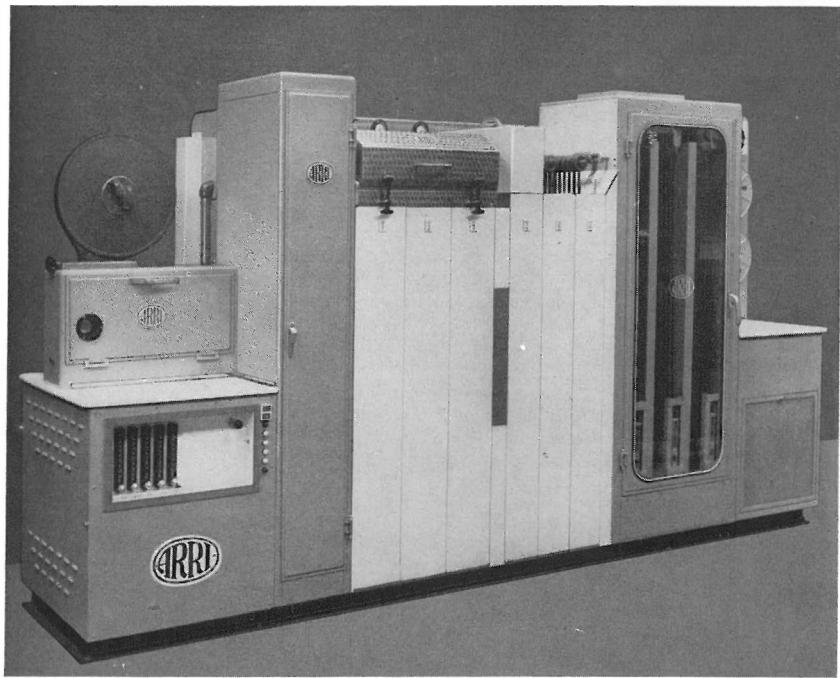
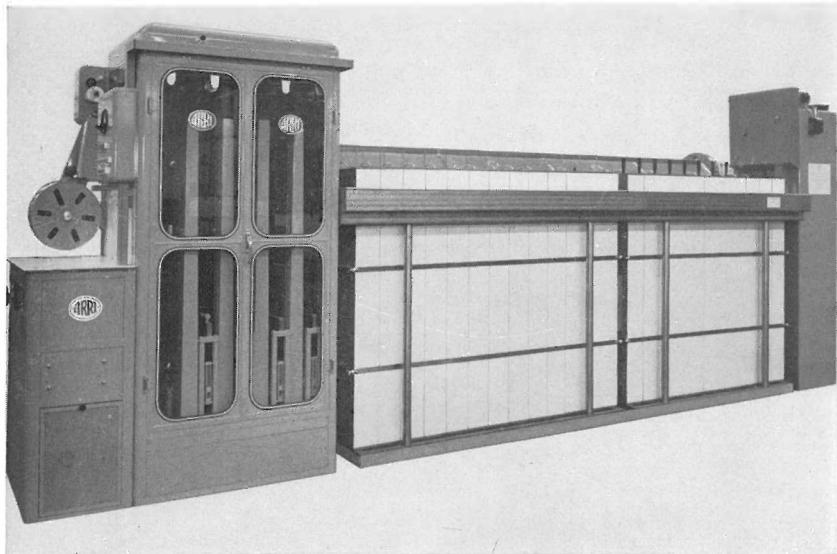
ARRI constructs film developing machines  
in daylight or daylight-darkroom types as  
large-scale machine plants or in compact  
block units, for b/w and colour film, positive  
and negative film in the widths 8 mm –  
Super 8 mm – Double-Super 8 mm – 16 mm –

35 mm and 70 mm or combined 8 mm/16 mm  
and 16 mm/35 mm

We supply not only series machines (series  
machines can also be altered to suit your  
special wishes), but also manufacture  
“custom-made” units.

We are glad to advise you in the planning or  
construction of complete laboratories. Our  
delivery program is backed by a world-wide  
service. If desired, we can provide experts for  
the assembly and putting into service of the  
machines, as well as for the instruction of the  
operating personnel.

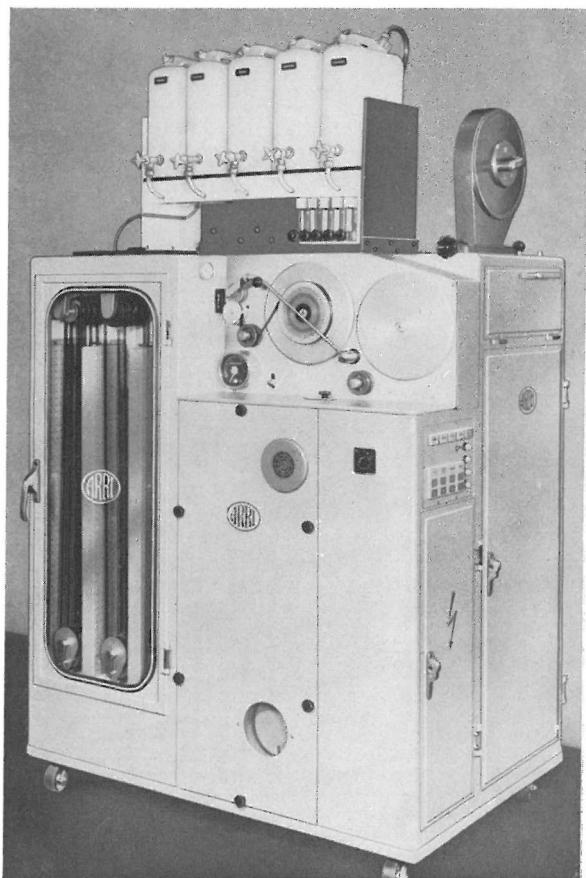
# Film Developing Machines



Decades of experience in the design and construction of film developing machines (numerous patents), guarantee economical, efficient and reliable units.

ARRI Film Developing Machines are of stainless, acid resistant steel, PVC and other high-grade materials.

The high market value of the units is a result not only of their long-lasting service and performance, but also due to the possibility of rearranging the baths to conform with new developing processes.



Top:

Daylight Film Developing Machine  
ARRIBLOC 400 for b/w negative or positive or combined and b/w reversal film, all widths except 70 mm, also for micro film.

Dimensions: 4' x 2'7" x 4'8" (1,3 x 0,9 x 1,5 m)  
Output: b/w reversal film 16 mm: 1312 ft/h (400 m/h) at 2 min. processing time.

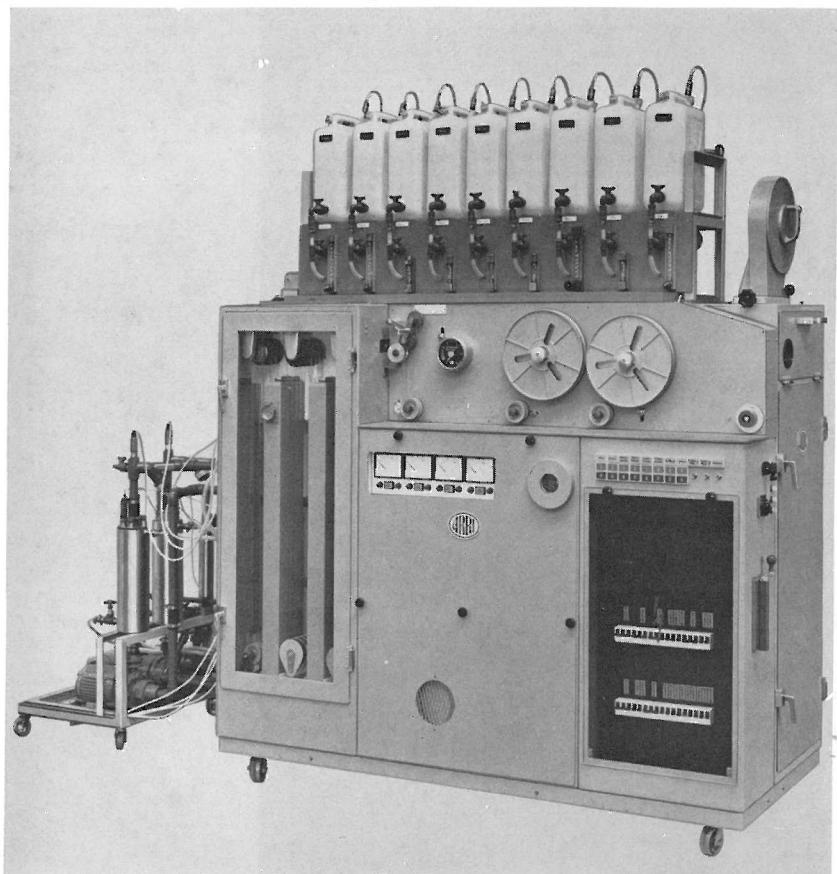
Upper right:

Daylight Film Developing Machine CU III for 16 mm color reversal film  
Dimensions: 20'6" x 5' x 7'9" (6,3 x 1,2 x 2,4 m)  
Output: 3608 ft/h (1100 m/h) (Gevachrom.-Ektachr.)

Available in various models for diverse film developing methods

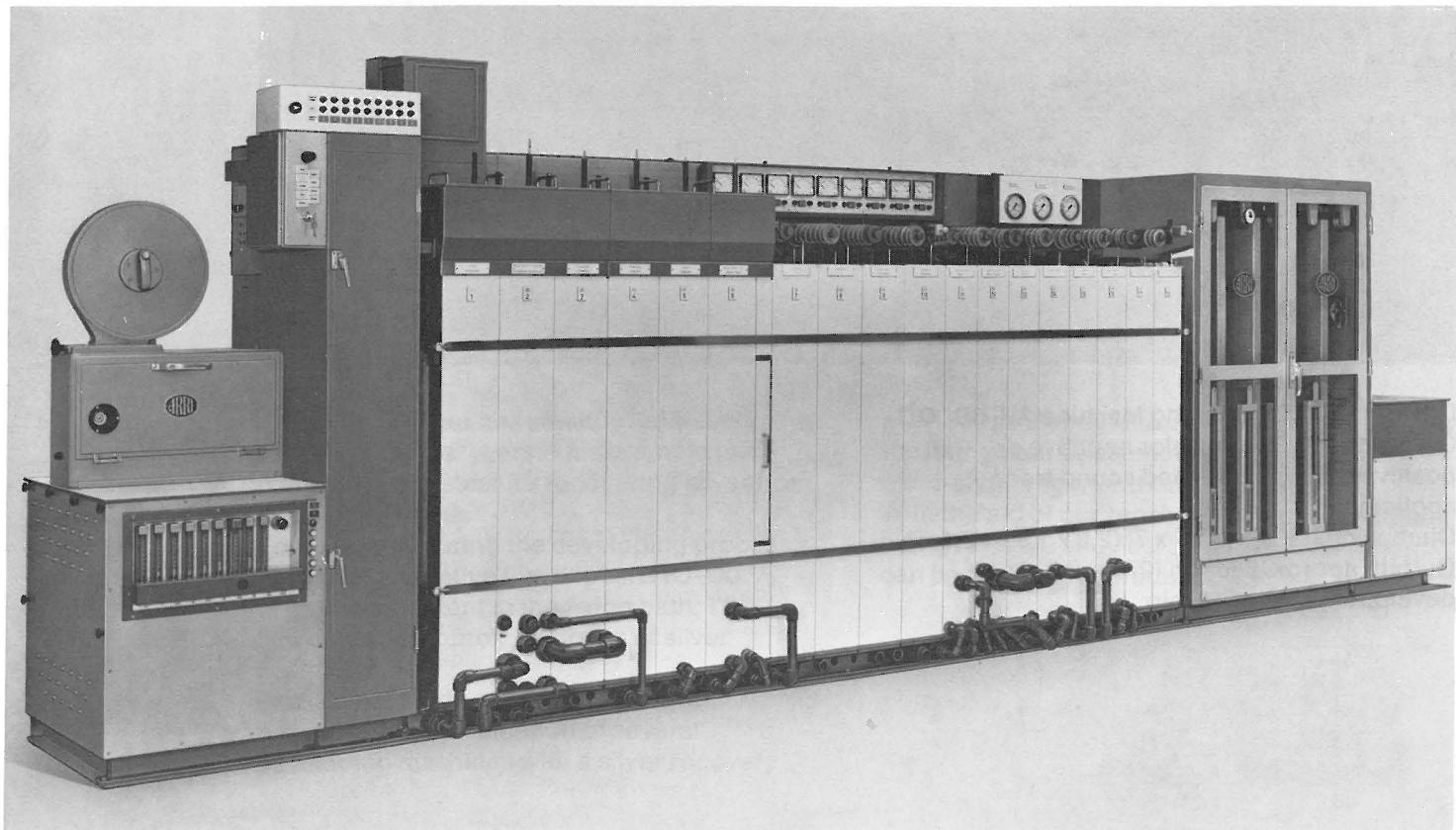
Lower right:

Daylight Film Developing Machine  
ARRIBLOC 1000 for b/w negative **or** positive, negative **and** positive film b/w reversal film  
Dimensions: 11'6" x 2'6" x 6' (3,5 x 0,8 x 1,9 m)  
Output: with b/w reversal 16 mm e. g. 3280 ft/h (1000 m/h) at 2 min. processing time  
Available also as colour processing type  
Total length according to type 12–18 ft  
Output: color reversal film 16 mm: 2756 ft/h (840 m/h)

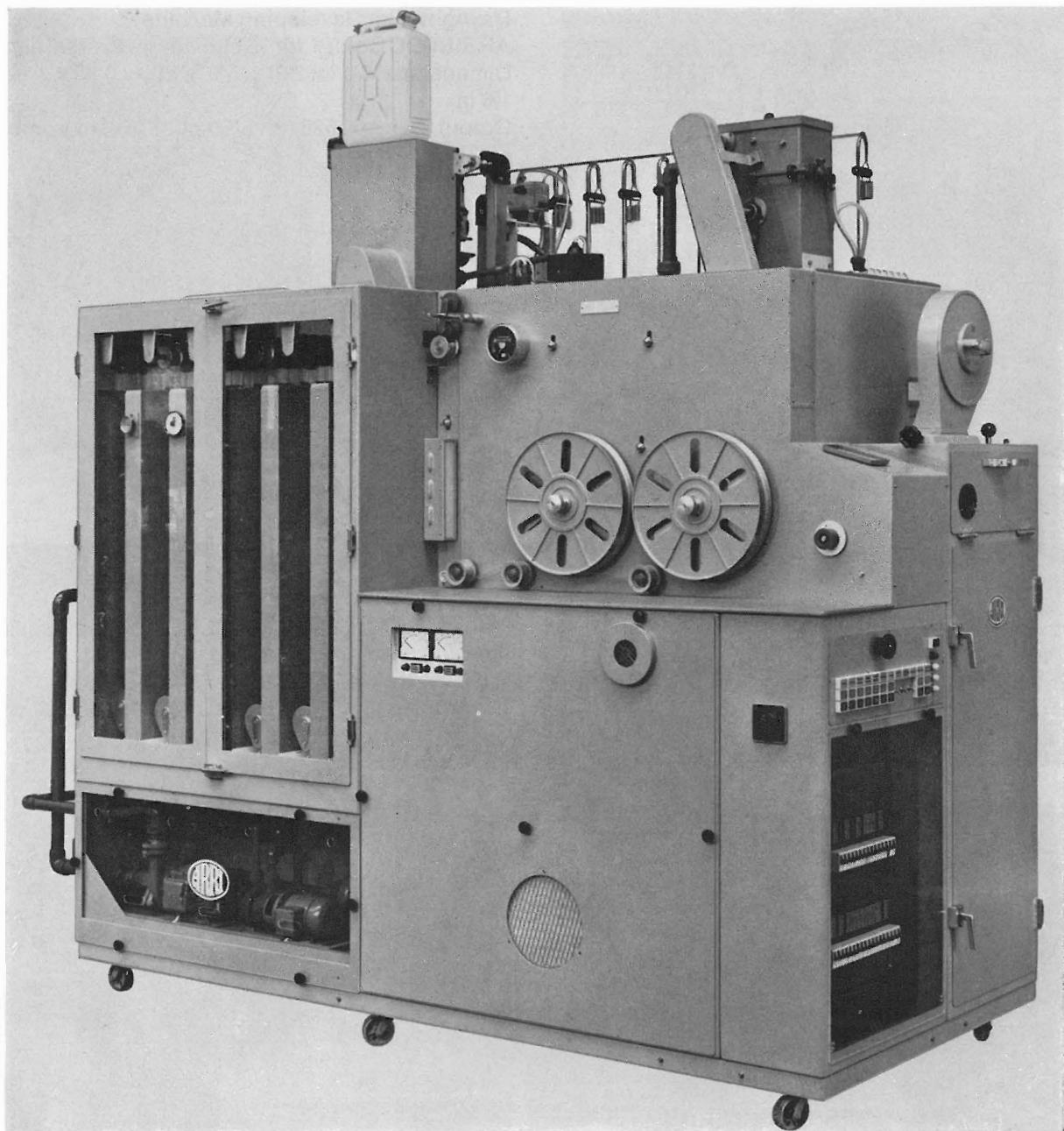


Daylight Film Developing Machine  
ARRIBLOC Color 1 for 16 mm color reversal film  
Dimensions: 6'1" x 2'9" x 5'3" (1,85 x 0,85 x 1,6 m)  
Output: approx. 528 ft/h (160 m/h) (Ektachrome or Gevachrome)

Daylight Color Film Developing Machine  
ARRIBLOC Color 3 TV for 16 mm color reversal film with automatic film loop adjustment in the I and II developer  
Dimensions: 18'5" x 2'7" x 6'3" (6,1 x 0,8 x 1,9 m)  
Output: approx. 3444 ft/h (1050 m/h) (Gevachrome or Ektachrome)



## Film Developing Machines



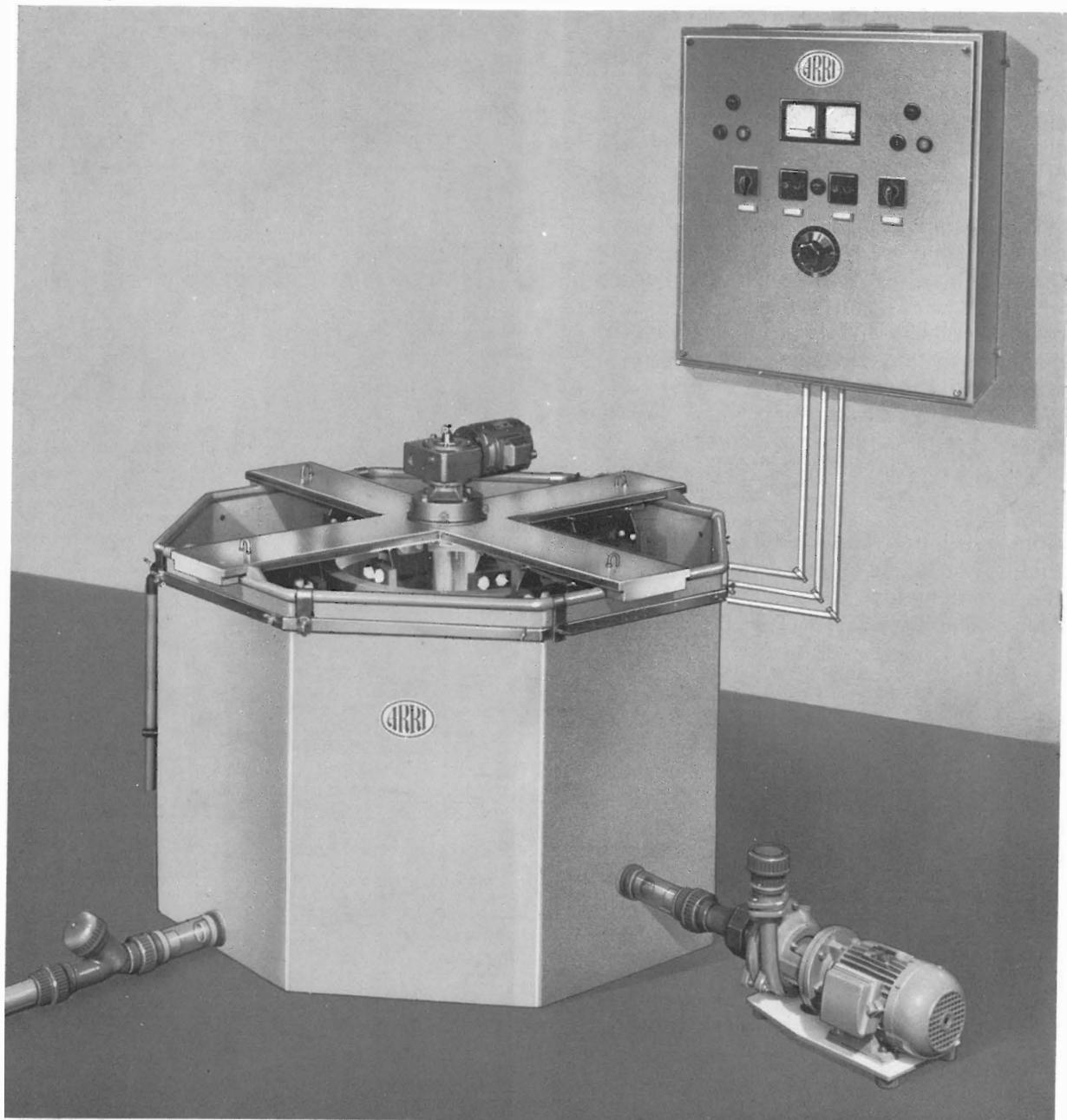
Daylight Film Developing Machine ARRIBLOC

Color 2 for 16/35 mm color negative or  
positive film with attached sound track  
applicator

Dimensions: 8'3" x 4'5" x 7' (2,5 x 1,35 x 2,1 m)

Output: approx. 886 ft/h (270 m/h) at a  
developing time of 14 min.

## Silver Recovery Plants



The price of silver has steadily increased over the past few years: This is ample justification for a system for recovering silver from used fixing baths.

For example, during the developing process, 35 mm b/w negative film deposits 80–90 % of its silver content in the fixing bath. This film contains approx. 92 grams of silver per 1000 ft.

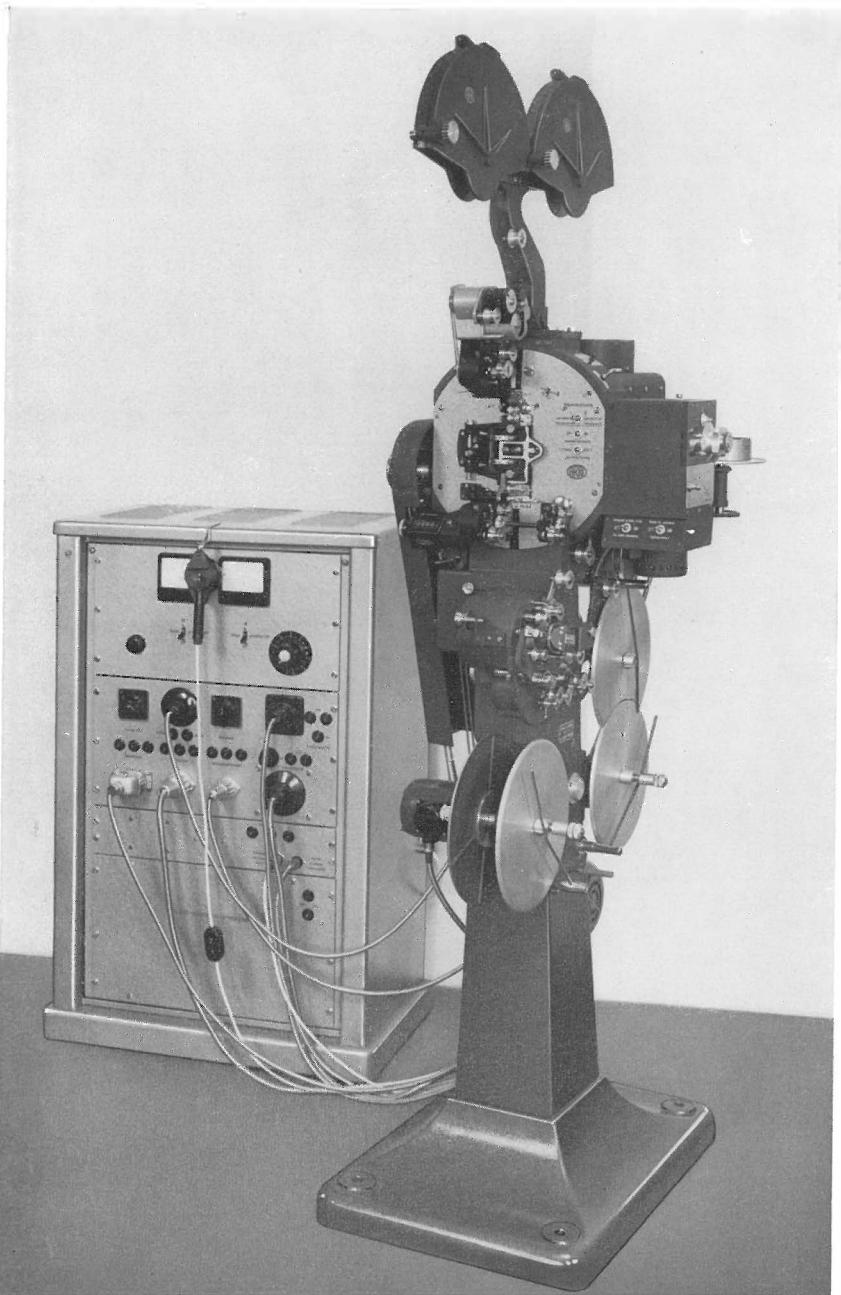
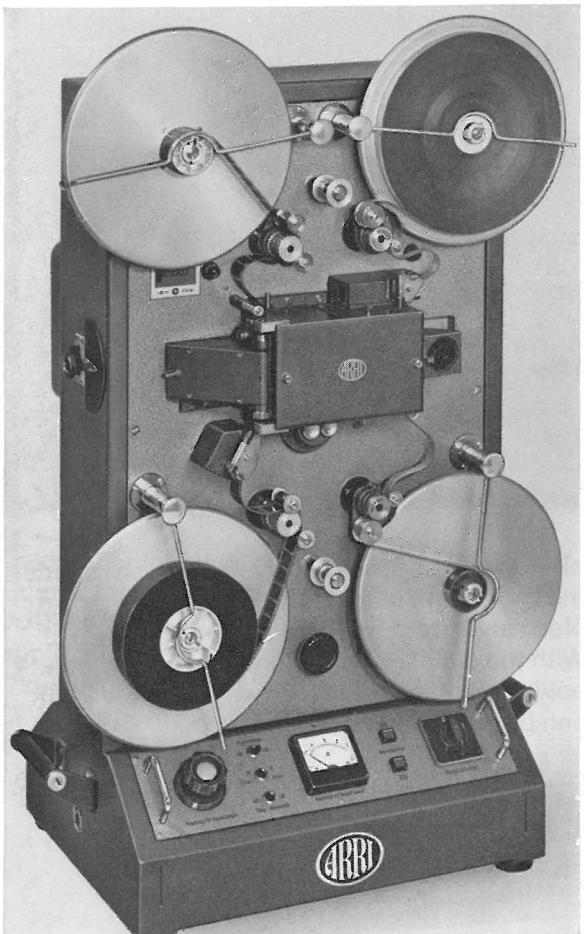
Profit is not made solely on the "silver returns". The combination of several developing machines with a silver recovery

plant forms a circulation system which reduces the fixing bath consumption through electrolytic regeneration by about 50 %. With the aid of our brochure, you can calculate how profitable an ARRI Silver Recovery Plant can be for your laboratory.

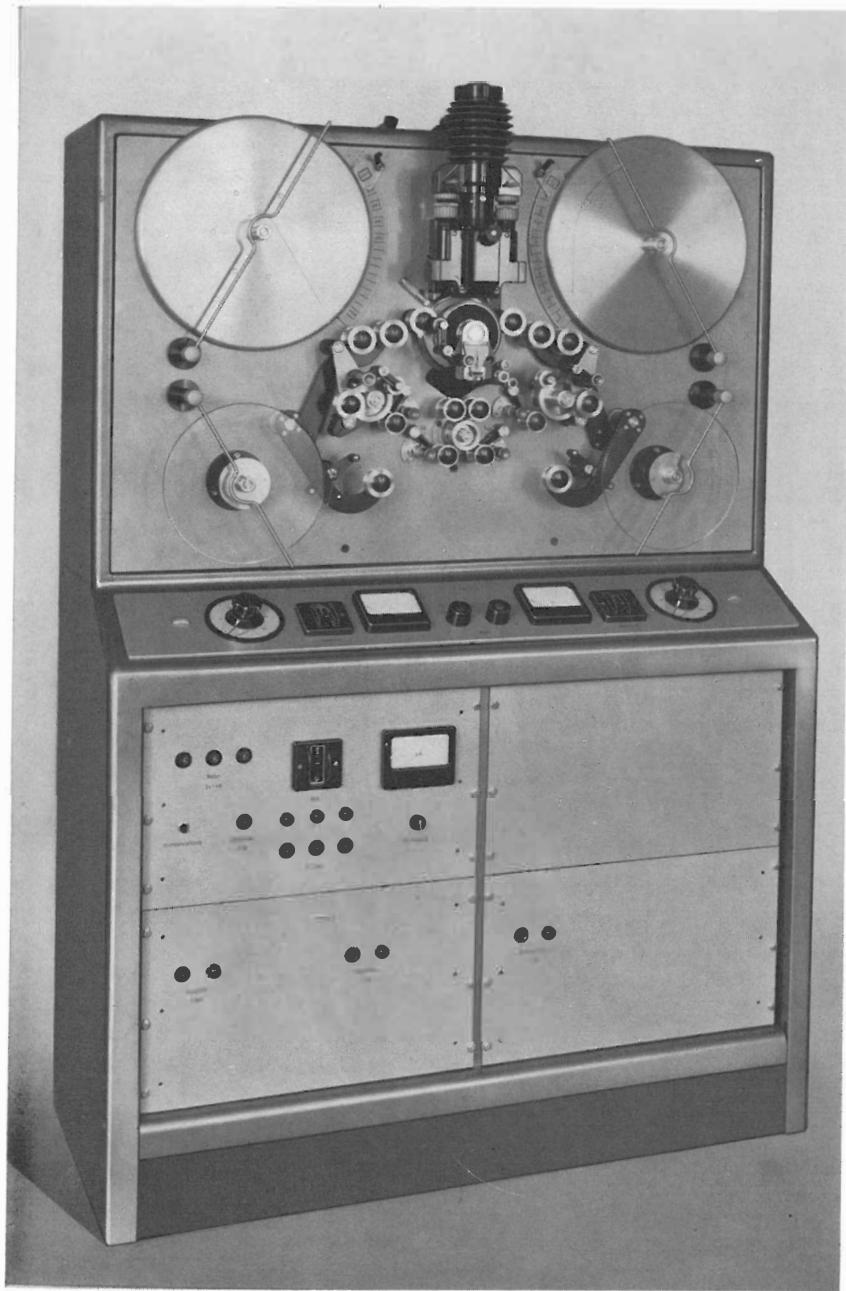
# Printing Machines

For more than 5 decades we have been designing and constructing film printing machines. At the present, we are manufacturing more than 40 models for b/w and color film, picture and sound, nearly all gauges, as contact and optical printers. ARRI film printing machines are built of highest quality materials, meet up-to-date technical standards and are delivered as complete units ready for operation. Our machines have a world-wide market which is backed by an international servicing program. Please write to us for a detailed quotation suiting your particular printing needs. We will be glad to advise and assist you in the planning or construction of a complete printing laboratory.

Contact Printing Machine Type E III/BT 16 mm  
Picture and sound combined for  
B & W or color film  
Also available for 35 mm (Type B III/BT) →



← Miniprint Printing Machines, available in various models: 35 and 16 mm format for optical picture printing 35/16 mm (reduction) as well as 35 and 16 mm picture contact printing, B & W and color · 16 mm and S8 format for optical picture printing 16 mm/S8 (reduction) and 16 mm picture contact printing, as well as in special design for optical picture printing S8/16 mm (enlargement), B & W and color · 16 mm format for optical 1:1 picture printing 16/16 mm as well as for 16 mm picture contact printing B & W and color



Optical High Output Sound Reduction  
Printing Machine Type OPT E III Sound,  
35/16 mm, for B & W and color



High Output Continuous Printing Machine  
Type DK/B, 16 or 35 mm, for B & W and color

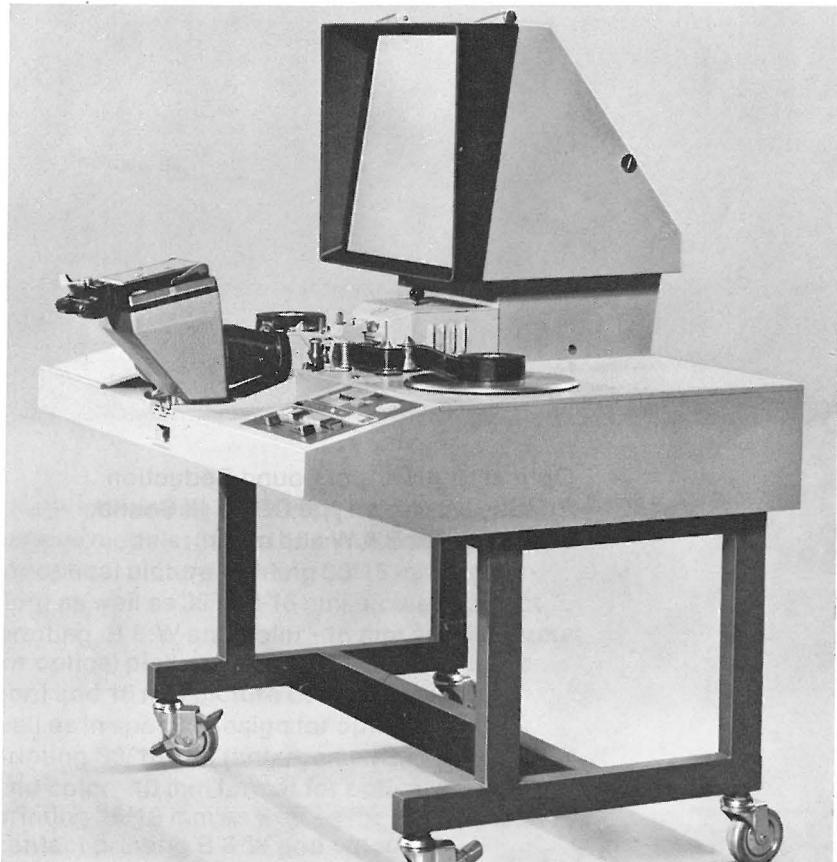
## Film Laboratory Equipment

An essential part of our extensive production program is the film laboratory equipment which is field tested in our own large-scale laboratories.

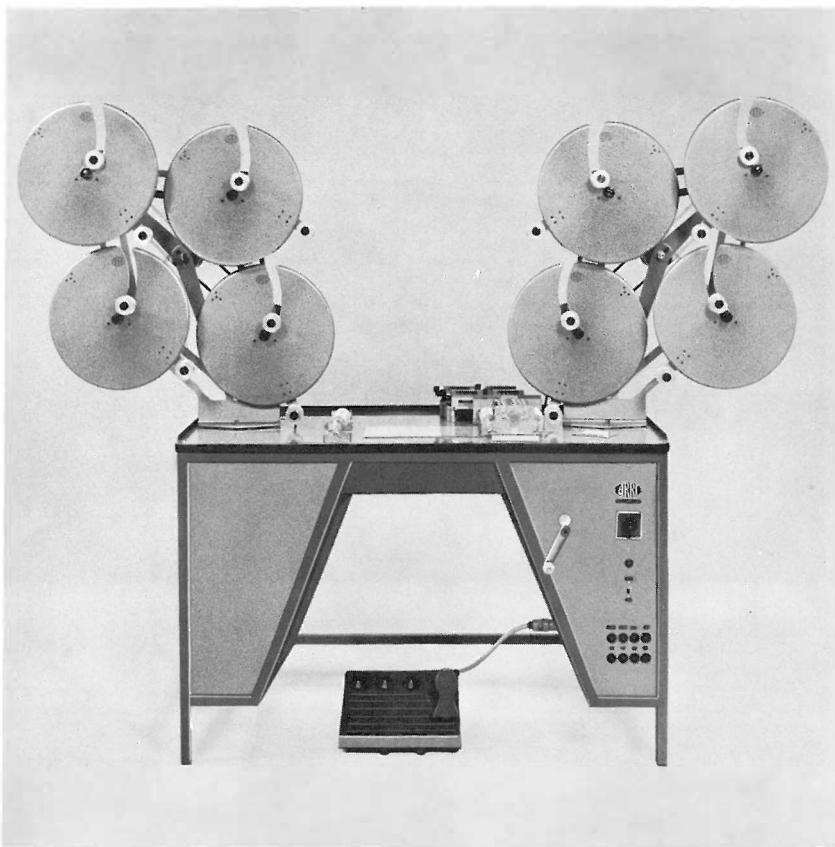
A staff of experienced specialists produces machines which because of their precision and functional design have attained an international reputation. Here only a few examples from our widely-varied program:



Film Editing Table, Typ BTM 35 C for Scope or Standard Film



X-Ray-Cinefilm-Analysis Desk Type RTG 35 for 35 mm film



Negative Synchronizing Table 2000 ft  
Type MS 35/3 x 16 for 1 x 35 and 3 x 16 mm film



Color Analyser LT 16 for 16 mm film

# **Additional Services**

## **Film and TV Studios**

Modern studios centrally located in Munich for the production of feature, TV, industrial, documentary and cultural films and commercials

## **Printing Laboratories**

Printing of color and b/w film, 35 mm, 16 mm, and 8 mm, also reversal film  
Optical reduction and enlarging  
Preparation of fades and titles  
Projection and cutting rooms for 16 and 35 mm

## **Sound Studios**

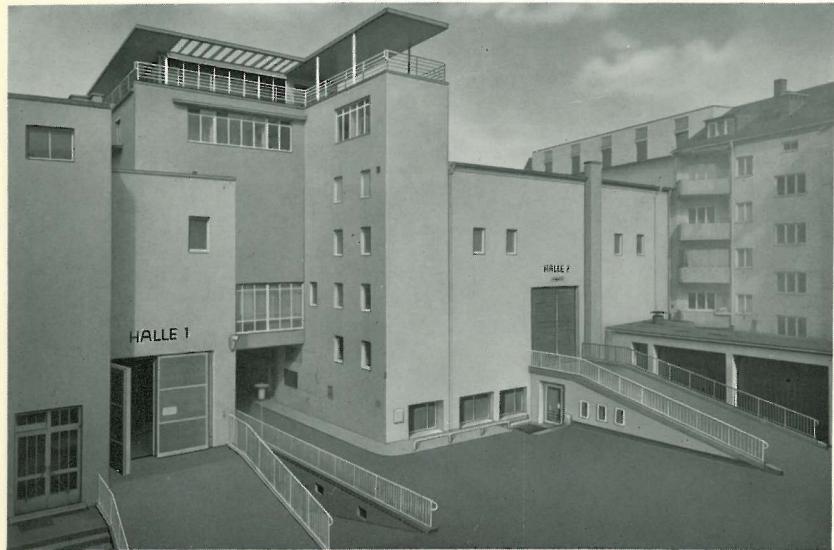
for speech and sound effects, mixing studio with Rotosyn system, forwards and reverse, with noiseless recording switch-on

## **Rental Department**

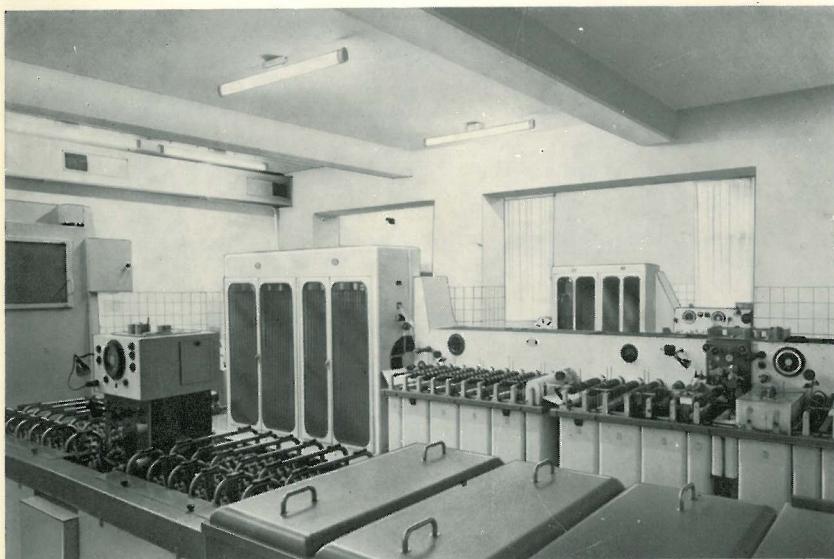
ARRIFLEX 16 and 35 mm camera equipment with complete accessories  
Lighting equipment for all purposes  
Generator sets with various capacities  
Wind machines, trucks, etc.

## **Film Production**

Production of all types of industrial and advertising films  
Synchronization of feature, industrial and documentary films in German and foreign languages



Section of the ARRI studios  
The sound studios are located between  
the film studios



A daylight room in the ARRI color  
printing laboratory



For large-scale lighting:  
Quiet-running three-phase aggregate  
200 KVA 220 V/380 V with Mercedes diesel  
motor 250 HP in Mercedes van

ARNOLD & RICHTER KG MÜNCHEN  
Advertising department · Technical information and specifications  
are without obligation. Modifications reserved. The information  
covered herein may be reproduced only with our written authori-  
zation. Printed in West Germany

**"Canadian Distributor"**  
**Braun Electric Canada Ltd.**

<b>SERVICE</b> 6467 Northam Drive Mississauga, Ont. L4V 1J2 (416) 677-4361	<b>SALES</b> 3269 American Drive Mississauga, Ont. L4J 1B9 (416) 678-9200
---	--

**TELEX 06-968585**