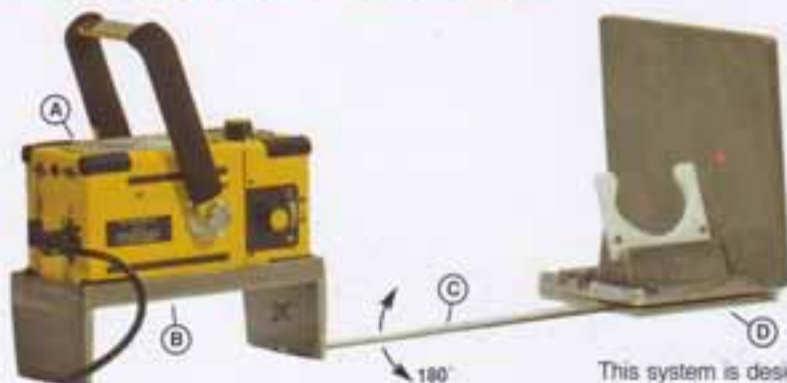


# OPTIMUM EQUINE FOOT IMAGING

From R. F. Redden, D.V.M.

## Striving For Perfection



Redden Equine Foot Block shown with the TR90.



Side View of correct positioning of hoof on block D.

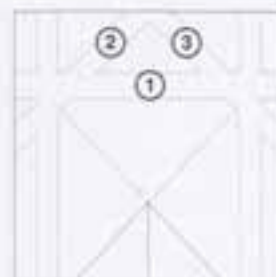


FIGURE E:  
Birdseye view of foot block.  
---- Indicates cassette slots

This system is designed specifically for MinXray units. The x-ray unit (A) fits in the machine tray (B) and the focal-film distance (FFD) is controlled by the stainless steel arm (C) that connects the tray to the foot block (D) itself. In this way, the FFD is consistent for all views. The x-ray unit & machine tray move through a 180° arc, allowing optimum, repeatable positioning for all desired views, DP, oblique and lateral.

## MINXRAY<sup>®</sup> TR90

View	kV	Time (sec)	Comments
DP soft, low beam	50	0.1	
DP hard, high beam (navicular)	64	0.3	
<b>Lateral</b>			
Lateral soft, no shoe	50	0.06	
Lateral soft, with shoe	50	0.08	(with scatter must increase mAs)
Lateral hard, w/6:1 grid, high beam navicular	60	0.2	
<b>With Redden Equine Foot Block</b>			
65 Degree DP soft	46	0.04	Cassette slot 1
65 Degree DP medium	50	0.1	Cassette slot 1
65 Degree DP hard w/grid, high beam	60	0.2	Cassette slot 1
65 Degree 45 Degree DP Oblique, soft	46	0.04	Cassette slots 2 & 3

\*All views taken at 28"FFD

Recommended series of hoof x-rays using the Redden Equine Foot Block, MinXray ultra light units and 350 speed imaging system. Techniques were developed on a 5" wide front foot of a thoroughbred.

For a complete evaluation of the foot, additional views (DP and Lateral) are recommended using a block under each foot designed to position the primary beam just above the ground surface. The blocks should contain a wire marker in the top to help the veterinarian and farrier determine how the hoof capsule relates to the ground surface.

## Ordering Information

RED-EFB	Redden Equine Foot Block for HF80 & HF80+	\$305*
EFB15	Redden Equine Foot Block for HF8015+	\$305*
EFB30	Redden Equine Foot Block for HF100/30+	\$305*
EFBTR	Redden Equine Foot Block for TR80 or TR90	\$305*
EFB40	Redden Equine Foot Block for HF100+	\$305*

For more information about MinXray products, consult your local dealer.



## MINXRAY<sup>®</sup> INC.

3611 Commercial Avenue  
Northbrook, Illinois 60062-1822,  
USA 1-847-564-0323  
Toll Free 1-800-221-2245  
FAX: 1-847-564-9040  
E-mail: info@minxray.com  
Web: www.minxray.com

# REDDEN EQUINE FOOT BLOCK

## *Striving For Perfection*

This system is designed specifically for the MinXray HF8015+ *dip ultra light*, HF100+ *ultra light*, TR80, TR90, HF80+, HF80 and HF100/30+ *ultra light*. The x-ray unit fits in the machine tray and the focal-film distance (FFD) is controlled by the stainless steel swing arm that connects the tray to the hoof block itself. In this way, the FFD is consistent for all views. The x-ray unit & machine tray move through a 180° arc, allowing correct positioning for all desired views.

Always prepare the foot for optimum clarity and detail. Remove the shoe when indicated. Dr. Redden often leaves the shoe on for pure lateral and D-P views, more information is obtained concerning balance, breakover, etc.. Clean the foot of all debris, especially along the sulcus of the frog and bulb of the heel. When circumstances allow, lightly sedate the horse. Dr. Redden uses .2 to .25 cc. Dormosedan per 1000 pounds.

To position the hoof, place the Redden Hoof Block slightly forward of the normal stance, place the foot on the device, positioning it in the center of the plastic cut out. Using one hand (with leaded glove) steady the leg, place the cassette in the desired slot, 65 degree dorsal - palmar and flexed lateral are standard views taken in this position. The cassette slots provided assure perpendicular beam - film projection and zero film subject distance, factors of paramount importance to prevent elongation (distortion) and image magnification.

The Redden Equine Foot Block results in consistent, optimum image of PIII, articular margins, capsular soft tissue, and the navicular bone. Dr. Redden recommends a grid for the navicular study. In selecting a grid be sure it is compatible with the system, as selection of grid ratio and focal distance is critical., Dr. Redden uses a wooden positioning block for D-P and pure lateral views. The block is designed with wire cross hair that clearly defines the ground surface on barefoot film. The height of the block is slightly lower (1/2 - 3/4 inch) than the center beam of the x-ray unit. When used on a flat surface this unique beam - subject relationship produces a consistent, accurate means of assessing sole depth, horn - lamellar zone, capsular and digital balance.

*"Make consistent, optimum imaging your goal with every single film. Why? I ask why not? You will soon see, it makes a statement and lasting impression."*

*R. F. Redden, D.V.M.*