QHD Results:

DiameterRemoved	AvgMSE	TrainPerformance	ValPerformance	TestPerformance	MSEDeletedDiameter	MSEBEPs	Score
NaN	0.0039285	0.0028838	0.0034358	0.0059646	NaN	0.0054126	0.0033419
220	0.030093	0.0091516	0.027962	0.063279	62.305	14.482	27.842
230	2.1664	0.0049077	0.74021	6.7737	73.774	11.816	34.281
240	0.0043968	0.0016072	0.0019346	0.010973	0.19113	0.024155	0.085218
250	0.00088785	0.00096837	0.00075212	0.00090432	56.083	19.901	26.414
260	0.0017087	0.0008838	0.0024402	0.002194	45.295	5.7397	19.267

QDP Results:

DiameterRemoved	AvgMSE	TrainPerformance	ValPerformance	TestPerformance	MSEDeletedDiameter	MSEBEPs	Score
NaN	0.0061475	0.0055729	0.0061324	0.007011	NaN	0.014941	0.0057486
220	0.005917	0.0048547	0.0034999	0.0099041	290.19	88.169	133.71
230	0.0013612	0.0011326	0.001204	0.0018558	0.55901	0.048094	0.23393
240	0.084459	0.10195	0.064123	0.078944	0.48975	0.076482	0.24203
250	1.2453	1.1618	1.3735	1.2407	0.99093	2.2473	1.3488
260	0.95759	0.91676	0.97803	0.99742	46.133	11.336	21.119

QDH Results:

DiameterRemoved	AvgMSE	TrainPerformance	ValPerformance	TestPerformance	MSEDeletedDiameter	MSEBEPs	Score
NaN	0.00085315	0.00084649	0.00082983	0.00088631	NaN	0.00064815	0.00048133
220	0.00099234	0.00066547	0.00098963	0.0014798	16.947	3.7419	7.5279
230	0.0023287	0.00085696	0.0013501	0.0054734	3.3618	0.12386	1.3715
240	0.0024057	0.0010751	0.001385	0.0053889			

```
4.1453           0.0030024        1.6607
          250           0.00092797       0.00078843         0.00086994         0.0011926↙
69.021               8.5669        29.322
          260           0.00082026       0.00076208         0.00084883        0.00087752↙
61.104            0.051288        24.452

Best Neural Networks:
Best QHD Network: Diameter NaN
Score: 0.0054126
Train Performance: 0.0028838
Validation Performance: 0.0034358
Test Performance: 0.0059646
Best QDP Network: Diameter NaN
Score: 0.0057486
Train Performance: 0.0055729
Validation Performance: 0.0061324
Test Performance: 0.007011
Best QDH Network: Diameter NaN
Score: 0.00048133
Train Performance: 0.00084649
Validation Performance: 0.00082983
Test Performance: 0.00088631
Percent errors for traditional trimming when the 260 mm diameter is ref:
  241.1457  241.7994  238.9787  228.2940  245.5366

Percent errors for when choose nearst diameter and ref usin trim_diameters function:
    3.2614    7.2988    7.3823    1.3514    0.8062

Percent errors for best trainedNetQHD:
    0.0466    0.0138    0.0003    0.0321    0.0367

Final statistics:
    MAE_Trim_Diameters    MAE_TrainedNetQHD    Count_Better_TrainedNetQHD↙
Count_Better_Trim_Diameters
    _________________    _________________    ____________________________↙
____________________________

           4.02               0.025899                     5↙
0

trainedNetQHD has a lower mean absolute error and is therefore better.
trainedNetQHD outperforms trim_diameters more frequently.
Script execution completed.
>>
```