## ResultMatrix

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#### 0.1 # 1. Pobranie potrzebnych bibliotek

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## 1 2. Pobranie etykiet

```
[2]: features = ['Disk, Face-on, No Spiral', 'Smooth, Completely round', 'Smooth, 

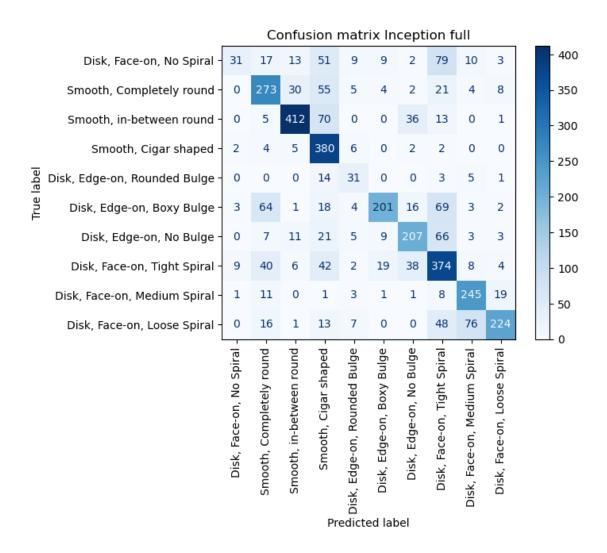
in-between round', 'Smooth, Cigar shaped', 'Disk, Edge-on, Rounded Bulge', 

'Disk, Edge-on, Boxy Bulge', 'Disk, Edge-on, No Bulge', 'Disk, Face-on, Tight 

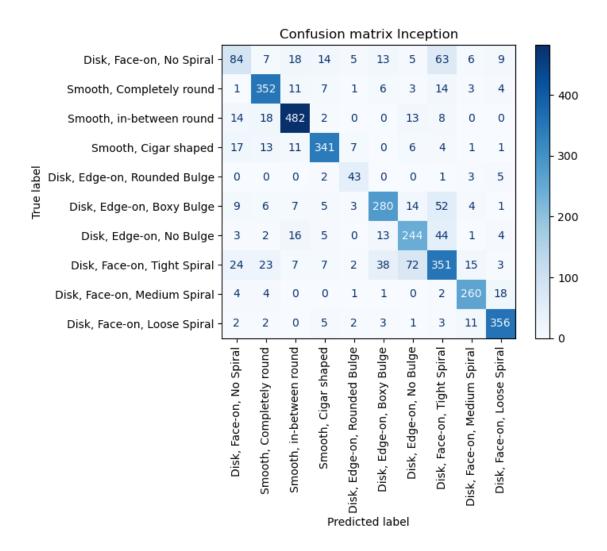
Spiral', 'Disk, Face-on, Medium Spiral', 'Disk, Face-on, Loose Spiral']
```

# 2 3. Inception

#### 2.1 3.1. Nauka przy otwartych wszystkich warstwach

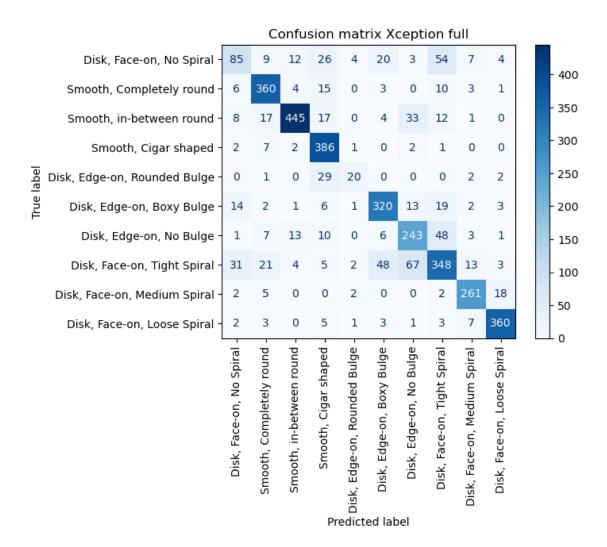


### 2.2 3.2. Nauka przy otwartych połowie warstwach

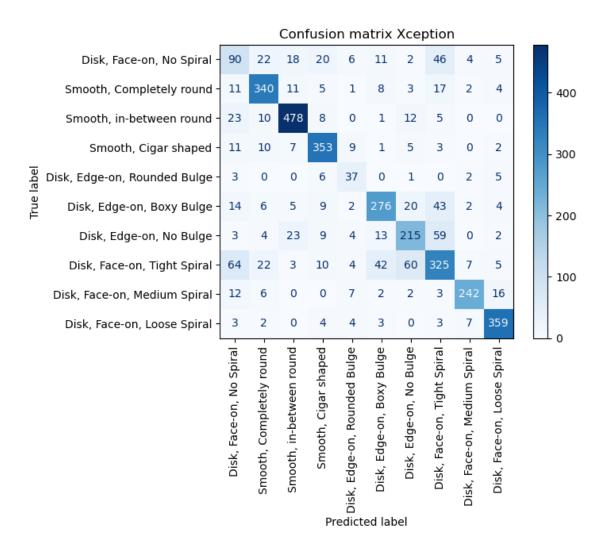


# 3 4. Xception

#### 3.1 4.1. Nauka przy otwartych wszystkich warstwach



#### 3.2 4.2. Nauka przy otwartych połowie warstwach



#### 4 5. ResNet-50

#### 4.1 5.1. Nauka przy otwartych wszystkich warstwach

```
[7]: resultResNet50Full = pd.read_csv('./Results/ResNet50_full.csv')

ResNet50Full = confusion_matrix(resultResNet50Full['test'],

resultResNet50Full['predict'])

dispResNet50Full = ConfusionMatrixDisplay(confusion_matrix=ResNet50Full,

display_labels=features)

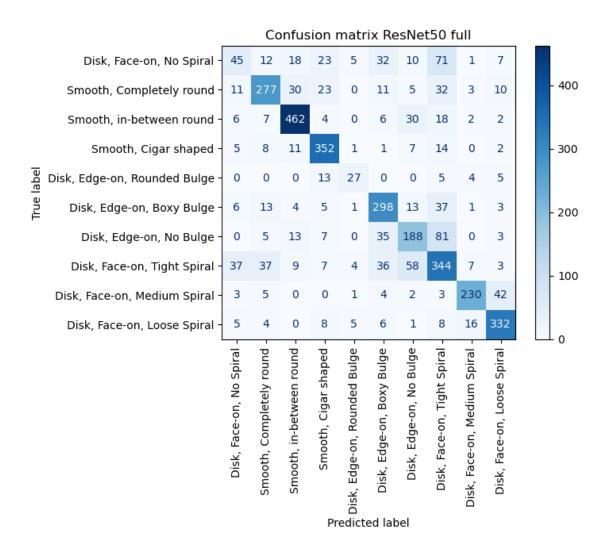
dispResNet50Full.plot(xticks_rotation=90,cmap=plt.cm.Blues)

plt.title('Confusion matrix ResNet50 full')

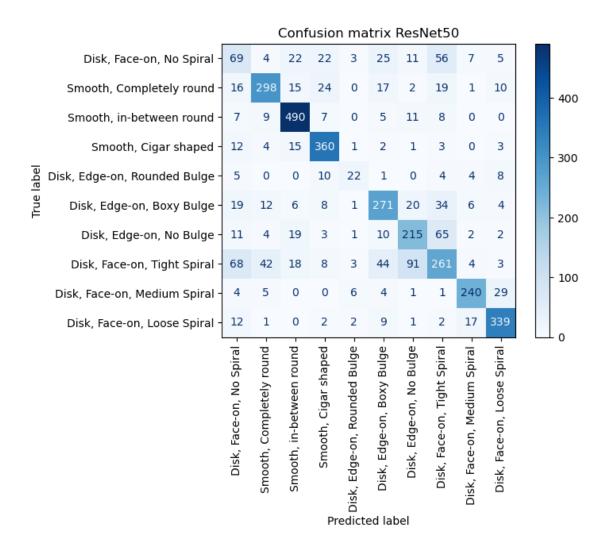
plt.savefig('./PictureConfusionMatrix/ResNet50_full.jpeg', dpi = 900,

bbox_inches='tight')

plt.show()
```

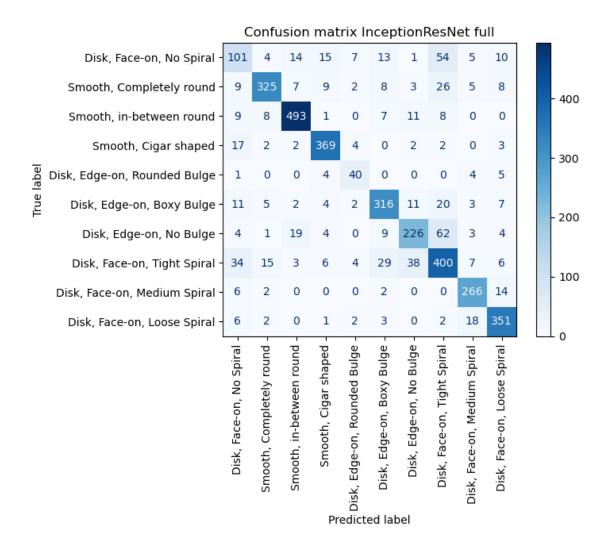


### 4.2 5.2. Nauka przy otwartych połowie warstwach

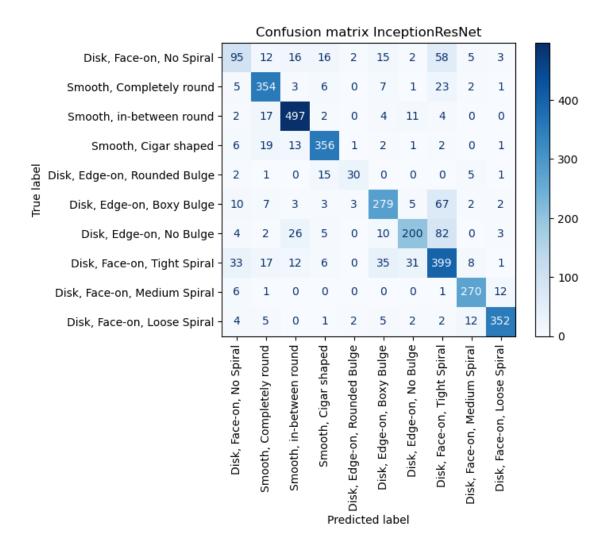


# 5 6. InceptionResNet

### 5.1 6.1. Nauka przy otwartych wszystkich warstwach



#### 5.2 6.2. Nauka przy otwartych połowie warstwach



[]: