

```
//+-----+
//|          FLYER!   A Moving Average EA.mq4 |
//|          (GirlFlyer) Marci Dunn |
//|          email: girlflyer101@yahoo.com   |
//+-----+
```

```
// Version 2.00;
```

```
/* Please see accompanying documentation now for description and other information. Thanks for using Flyer!
```

```
*/
```

```
#property copyright "Marci Dunn"
#property link      ""
```

```
//---- input parameters
```

```
// Parameters are set for EUR/USD. Adjust for any other pairs.
```

```
extern double LotPercentage = 5; // Percentage of equity to be used for each position.
extern double MinVal = 5000; // Don't Let Equity drop below 5000 (example, can be set to whatever value you
want.
```

```
extern int StopLossVal = 47; // The stoploss value here is one key to the success rate of the EA... adjust as
needed.
```

```
// Suggested S/L values are
```

```
// EURUSD = 99, GBPUSD = 58, USDCHF = 58, USDJPY = 54
```

```
extern int TimePeriod = 30; // Key Timeframe to base buy/sell decisions on!! Can be modified, but 30 min
seems to be optimal;
```

```
extern int UseTS; // Do you want to use the TS? 0 = no, 1 = Yes;
```

```
extern int TrailingStopLevel = 75; // Trailing Stop Value; Left in EA as an option.
```

```
extern double BrokerMinLotSize = 0.1; // This is the minimum lotsize your broker can accept. If your broker uses 0.1
lots or 1 lot as
```

```
// minimum, set it to that value.
```

```
extern int FixedLots = 0; // Set to zero (0) if you want the EA to adjust your lot size automatically each trade
// based on the equity in your account. Set to one (1) to trade the same size all the time.
```

```
extern double MyLotSize = 1; // If Fixed Lots = 1, Use this size for each lot size. Set to the value you prefer.
```

```
extern int LotValue = 0; // If lots are standard value of 1 = 100000, set to zero (0). If mini-account where lots
are 10000, set to one (1).
```

```
extern int MarginVal = 100; // Set your margin ratio. Default is 100 to 1.
```

```
extern int LimitHours = 1; // Set to Zero to trade 24 hours a day, Set to 1 to trade only during the hours
specified.
```

```

extern int StartHours = 21; // TimeFrame to trade in. Uses GMT!!!
extern int StartMins = 0;
extern int EndHours = 7;
extern int EndMins = 0;

//*** IMPORTANT - DO NOT MODIFY ANY OPEN ORDERS OPENED BY THE EA
MANUALLY AS THIS WILL LIKELY TO CAUSE PROBLEMS WITH EXECUTION

//*** Do not modify anything below ****

int OpenOrderB; // DO NOT MODIFY!
int OpenOrderS;
int OrderFlagB = 0;
int OrderFlagS = 0; // DO NOT MODIFY!
datetime TimeofCross; // DO NOT MODIFY!
int CrossFlag = 0; // DO NOT MODIFY!
double PointAdjust = 0; // Do Not Modify!
int WaitTime = 150; // Modify at your own risk! Waiting Time (in seconds) for placing orders after signal
valid.

// Keeps transient spikes from causing orders.

int MA = 0;
int MA1 = 0;
int MA2 = 0;
int MA3,MA4,MA5;
int MaxBars = 0;
int GapSize = 0; //Maximum pips price should be away from the MA line during entry process. Keeps news
events from causing

//spike entries.

double ILotVal;
int InvalidFB,InvalidFS;
int JustOrderedB, JustOrderedS;
int SignalFB,SignalFS;
double HPriceB,LPriceS,OPriceB,OPriceS;
double PointSpreadB;
double PointSpreadS;
int QuickSpread;
int TrendCnt;
double ProfitPercent;

datetime AlertTimer;

// For the following arrays, the data goes in the order as indicated by the SymbolList
// ie. Element #1= EUR/USD, #2 = GBP/USD, #3 = USD/CHF,#4 = USD/JPY, #5 = EUR/JPY, #6=AUDUSD
// These are the key data elements for each pair. The performance of the EA is based upon these numbers.
// As of writing this, only EURUSD,GBPUSD,USDCHF, and USDCHF are valid. If you wish to use any other pair,
you must
// enter them and find the optimum settings.

string SymbolList[15] = {"EURUSD","GBPUSD","USDCHF","USDJPY","EURJPY","AUDUSD"};
double PointArray[15] = {-0.0001,-0.0001,-0.0001,-0.01,-0.01,0.0001}; //Point Array for the different symbols.
//Determines how much in pips the MA's should be crossed
//in order for the trade to be valid.

```

```

int TrendArray[15] = {30,22,48,35,15,48,0,0,0}; //Array for the trend count length. This factor helps determine
// whether to go long or short. It is the number of bars to go back in History
// to find the current trend. Different pairs seem to have different cycles

int MAArray[15] = {8,4,4,8,4,3,8,8}; //Array for 1st MA. Used in the closing of positions.
int MA1Array[15] = {7,8,16,14,5,18,8,8}; //Short TimeFrame #1 Linear Weighted MA
int MA2Array[15] = {9,10,18,16,7,20,10,10}; //Short TimeFrame #2 Linear Weighted MA
int MA3Array[15] = {10,10,10,14,10,10,10,10}; //A Simple MA used in the closing of positions. ie.. MA should
cross MA3.
int MA4Array[15] = {18,18,40,36,20,80,18,18}; // The two long Exponential MA's. The tunnel these two create is
"no-man's land."

// The trend is indeterminate between these MA's. Once crossed, the trend is
determined.
int MA5Array[15] = {28,28,50,48,30,90,28,28};
int MaxBarArray[15] = {3,5,6,8,3,6,4,4}; // How many bars on the chart can it take to cross the EMA's before
the signal becomes invalid...
int GapArray[15] = {17,20,20,16,15,20,20,20}; // How many points can the price differ from the EMA's before it
has moved too far to be good signal.
int ProfitArray[15] = {75,75,45,50,25,65,75,75}; //Set to the Percentage of Profit you want to take if price moves
quickly in opposite direction.
int SpreadArray[15] = {40,58,100,40,1000,100,35,35}; //Set this level to enter a trade in the direction of motion if
the price exceeds this many pips in

//15 minutes. Can be helpful or harmful depending on the pair. Set to a high
number if you want to

//disable this feature.

```

```

string VerString = "V200";

```

```

//+-----+
//| expert initialization function |
//+-----+
int init()
{
//----

int x;

AlertTimer = CurTime();
if(LotValue==0)
{
ILotVal = 100000 / MarginVal;
}
else
if(LotValue==1)
{
ILotVal = 10000 / MarginVal;
}

for(x=0;x<15;x++)
{
if(StringFind(Symbol(),SymbolList[x],0)>=0)
{

```

```

PointAdjust = PointArray[x];
TrendCnt = TrendArray[x];
MA = MAArray[x];
MA1 = MA1Array[x];
MA2 = MA2Array[x];
MA3 = MA3Array[x];
MA4 = MA4Array[x];
MA5 = MA5Array[x];
MaxBars = MaxBarArray[x];
GapSize = GapArray[x];
ProfitPercent = ProfitArray[x] / 100.0;
QuickSpread = SpreadArray[x];
}
}

```

```

//----
return(0);
}
//+-----+
//| expert deinitialization function |
//+-----+
int deinit()
{
//----

//----
return(0);
}

```

int CloseCount(int Ctr) //Determine the trend by taking the difference between the open and the close and adding the differences.

```

{
double Diffs;

int x,Count;

for(x=0,Count = 0;x<Ctr;x++)
{
Diffs += iClose(NULL,TimePeriod,x) - iOpen(NULL,TimePeriod,x);
}
Count = Diffs / Point;
return(Count);
}

```

```

int CloseCountMin(int Ctr)
{
    int x,Count;
    for(x=0,Count = 0;x<Ctr;x++)
    {
        if(iClose(NULL,1,x) >= iClose(NULL,1,x+1))
            Count++;
        else
            Count--;
    }
    return(Count);
}

void CheckToOpenBuy(double LotSize2) // Checks to Open a Buy Position
{
    int x,flag,TicketNum;
    double EMA18[10];
    double EMA28[10];
    double WMA5[10];
    double WMA8[10];
    datetime TimeNow;
    int Trend;

    if(OrderFlagB>0)
        return;

    PointSpreadB = iClose(NULL,1,0)-iLow(NULL,1,15);
    for(x=0;x<MaxBars+1;x++)
    {
        EMA18[x]=iMA(NULL,TimePeriod,MA4,0,MODE_EMA,PRICE_CLOSE,MaxBars-x);
        EMA28[x]=iMA(NULL,TimePeriod,MA5,0,MODE_EMA,PRICE_CLOSE,MaxBars-x);
        WMA5[x]=iMA(NULL,TimePeriod,MA1,0,MODE_LWMA,PRICE_CLOSE,MaxBars-x);
        WMA8[x]=iMA(NULL,TimePeriod,MA2,0,MODE_LWMA,PRICE_CLOSE,MaxBars-x);
    }
    flag = 0;
    if(WMA5[MaxBars]>EMA18[MaxBars]+PointAdjust && WMA5[MaxBars]>EMA28[MaxBars]+PointAdjust &&
WMA8[MaxBars]>EMA18[MaxBars]+PointAdjust && WMA8[MaxBars]>EMA28[MaxBars]+PointAdjust)
    {
        for(x=0;x<MaxBars;x++) //Make sure the wma's have crossed the ema's completely within recent time frame so
that flat markets don't cause trades..
        {
            if(WMA5[x]<=EMA18[x] && WMA5[x]<=EMA28[x] && WMA8[x]<=EMA18[x] &&
WMA8[x]<=EMA28[x])
                flag=1; //Yes, they crossed within the last few periods.
        }
    }
    if(PointSpreadB > QuickSpread*Point && CloseCountMin(4)>=0)
        flag = 2;
}

```



```

int Trend;

if(OrderFlagS>0)
    return;
PointSpreadS = iClose(NULL,1,0)-iHigh(NULL,1,15);
for(x=0;x<MaxBars+1;x++)
{
    EMA18[x]=iMA(NULL,TimePeriod,MA4,0,MODE_EMA,PRICE_CLOSE,MaxBars-x);
    EMA28[x]=iMA(NULL,TimePeriod,MA5,0,MODE_EMA,PRICE_CLOSE,MaxBars-x);
    WMA5[x]=iMA(NULL,TimePeriod,MA1,0,MODE_LWMA,PRICE_CLOSE,MaxBars-x);
    WMA8[x]=iMA(NULL,TimePeriod,MA2,0,MODE_LWMA,PRICE_CLOSE,MaxBars-x);
}
flag = 0;
if(WMA5[MaxBars]<EMA18[MaxBars]-PointAdjust && WMA5[MaxBars]<EMA28[MaxBars]-PointAdjust &&
WMA8[MaxBars]<EMA18[MaxBars]-PointAdjust && WMA8[MaxBars]<EMA28[MaxBars]-PointAdjust)
{
    for(x=0;x<MaxBars;x++) //Check to see if the wma's have crossed the ema's recently for an entry point.
    {
        if(WMA5[x]>=EMA18[x] && WMA5[x]>=EMA28[x] && WMA8[x]>=EMA18[x] &&
WMA8[x]>=EMA28[x])
            flag=1;
    }
}
if(PointSpreadS < -QuickSpread*Point && CloseCountMin(4)<=0)
    flag = 2;
Trend = CloseCount(TrendCnt);
if((flag==1 && Trend < 0 && CloseCountMin(5)<=0) || flag ==2 )
{
    if(CrossFlag==0)
    {
        TimeofCross = CurTime();
        CrossFlag = 1;
    }
    else
    {
        TimeNow = CurTime();
        if(TimeNow-TimeofCross>WaitTime) //Waiting period on orders... to prevent transient spikes in price from
causing orders.
        {
            CrossFlag = 0;
            if(Bid>EMA28[MaxBars]-GapSize*Point) // Final check -- if price has jumped, don't order.
            {
                TicketNum =
OrderSend(Symbol(),OP_SELL,LotSize2,Bid,3,Bid+StopLossVal*Point,0,Symbol()+VerString,0,0,Green); //Open the
order.
                if(TicketNum<0)
                {
                    Print("Error Opening Trade: Error Code = ",GetLastError()," , Lotsize: ",LotSize2);
                }
            }
            else
            {
                if(OrderSelect(TicketNum,SELECT_BY_TICKET))
                {

```





```

        if(EndHours<= StartHours && ((TimeNowH == EndHours && TimeNowM <= EndMins) || TimeNowH <
EndHours))
            return;
        }
    }

if(FixedLots==0)
{
    LotSize = (LotPercentage/100) * AccountEquity();
    LotSize = LotSize / ILotVal;
    R1 = MathCeil(LotSize); // Got to now round the lot size so that error 131 does not occur on some brokers.
    R2 = MathFloor(LotSize);
    for(x=R2,flag=0;x<=R1+BrokerMinLotSize && flag==0;x+=BrokerMinLotSize)
    {
        if(x>LotSize)
        {
            LotSize = x-BrokerMinLotSize; // Round lot size to the smaller lot size value.
            flag = 1;
        }
    }
}
else
{
    if(FixedLots==1)
        LotSize = MyLotSize;
}
if(LotSize>100) //Check to see if lots have exceeded 100... good when account hits high enough equity to max out
trade size.
    LotSize = 100;

if(!OrderFlagB) //If we haven't got an open order, then proceed.
{
    if(AccountEquity(>MinVal) //if equity is lower than the amount specified by user, don't trade.
    {
        if(LotSize*ILotVal<AccountFreeMargin()) //do we have enough margin to open our trade? Should always be
true unless errors.
        {
            CheckToOpenBuy(LotSize);

        }
    }
    else
    {
        Print("Not Enough Free Margin: ",LotSize," ",AccountFreeMargin());
    }
}
else
{
    Print("Equity Value Lower than Minimum Account Value Setting");
}
}
}
//Repeat Everything for the Sell side... necessary because an order placed on the buy size can change the equity.

```

```

if(FixedLots==0)
{
    LotSize = (LotPercentage/100) * AccountEquity();
    LotSize = LotSize / ILotVal;
    R1 = MathCeil(LotSize); // Got to now round the lot size so that error 131 does not occur on some brokers.
    R2 = MathFloor(LotSize);
    for(x=R2,flag=0;x<=R1+BrokerMinLotSize && flag==0;x+=BrokerMinLotSize)
    {
        if(x>LotSize)
        {
            LotSize = x-BrokerMinLotSize; // Round lot size to the smaller lot size value.
            flag = 1;
        }
    }
}
else
{
    if(FixedLots==1)
        LotSize = MyLotSize;
}
if(LotSize>100) //Check to see if lots have exceeded 100... good when account hits high enough equity to max out
trade size.
    LotSize = 100;

```

```

if(!OrderFlagS) //If we haven't got an open order, then proceed.
{
    if(AccountEquity()>MinVal) //if equity is lower than the amount specified by user, don't trade.
    {
        if(LotSize*ILotVal<AccountFreeMargin()) //do we have enough margin to open our trade? Should always be
true unless errors.
        {
            CheckToOpenSell(LotSize);
        }
    }
    else
    {
        Print("Not Enough Free Margin: ",LotSize," ",AccountFreeMargin());
    }
}
else
{
    Print("Equity Value Lower than Minimum Account Value Setting");
}
}
}

```

```

void CheckToCloseBuy() //Check to close any Long trades.
{
    int TicketNum;
    datetime TimeOpened,Now;

```



```

if(HPriceB-OPriceB > 28*Point && Bid <= (OPriceB + (ProfitPercent*(HPriceB-OPriceB))) && Bid > OPriceB
&& (Bid <SMA8_1 || Bid<=OPriceB+5*Point)&& Bid<iClose(NULL,1,1) && SMA8_2 - SMA8_1 > -1.8*Point)
{

    CloseBuy(TicketNum);
    OrderFlagB = 0;
    InvalidFB = 0;
    return;

}

/* if(InvalidFB == 1 && Bid>OrderOpenPrice() && LWMA_1 < EMA18_1 && CloseCountMin()<0) // Left in for
later possibilities...
{
    CloseBuy(TicketNum);
    OrderFlagB = 0;
    InvalidFB = 0;
    return;
} */
}

```

void CheckToCloseSell() //Check to close short positions. See CloseBuy procedure for details.

```

{
    int TicketNum;
    datetime TimeOpened,Now;
    double SMA8_1,SMA8_2;
    double LWMA_1,LWMA_2;
    double EMA18_1,EMA18_2,EMA28_1;

    SMA8_1 = iMA(NULL,TimePeriod,MA3,0,MODE_SMA,PRICE_CLOSE,0);
    SMA8_2 = iMA(NULL,TimePeriod,MA3,0,MODE_SMA,PRICE_CLOSE,1);
    LWMA_1 = iMA(NULL,TimePeriod,MA,0,MODE_LWMA,PRICE_CLOSE,0);
    LWMA_2 = iMA(NULL,TimePeriod,MA,0,MODE_LWMA,PRICE_CLOSE,1);
    EMA18_1 = iMA(NULL,TimePeriod,MA4,0,MODE_EMA,PRICE_CLOSE,0);
    EMA28_1 = iMA(NULL,TimePeriod,MA5,0,MODE_EMA,PRICE_CLOSE,0);
    EMA18_2 = iMA(NULL,TimePeriod,MA4,0,MODE_EMA,PRICE_CLOSE,1);

```

```

TicketNum = OpenOrderS;
OrderSelect(TicketNum,SELECT_BY_TICKET);
if(Bid<LPriceS)
    LPriceS = Bid;

```

```

if(JustOrderedS==1 && LWMA_1 > SMA8_1)

```

```

{
    SignalFS = 1;
}

```

```

else

```

```

{
    SignalFS = 0;
    JustOrderedS = 0;
}

```

```

if(LWMA_1 > SMA8_1 && SignalFS == 0) //Primary exit method

```



```

    }
}

void CloseSell(int Ticket)
{
    if(OrderSelect(Ticket,SELECT_BY_TICKET))
    {
        if(OrderClose(Ticket,OrderLots(),Ask,3,Red))
        {
            Print("Order#",Ticket," Closed at ",OrderClosePrice());
        }
    }
    else
    {
        Print("Error Closing Ticket#",Ticket);
    }
}

```

void CheckForStops() // This checks to see if the open order was stopped out. Needed to reset the open order flag.

```

{
    datetime X;

    if(OrderFlagB>0) // Do/Did we have an open order?
    {
        if(OrderSelect(OpenOrderB,SELECT_BY_TICKET))
        {
            X = OrderCloseTime();
            if(X>0) //Is there a close time? if so, order was stopped out.
            {
                OrderFlagB = 0; // reset open order flag. Allows next order to be placed.
                Print("Order# ",OpenOrderB," StopLoss Close at price: ",OrderClosePrice());
            }
        }
    }

    if(OrderFlagS>0) // Do/Did we have an open order?
    {
        if(OrderSelect(OpenOrderS,SELECT_BY_TICKET))
        {
            X = OrderCloseTime();
            if(X>0) //Is there a close time? if so, order was stopped out.
            {
                OrderFlagS = 0; // reset open order flag. Allows next order to be placed.
                Print("Order# ",OpenOrderS," StopLoss Close at price: ",OrderClosePrice());
            }
        }
    }
}

```

void CheckToClose() //Calls the procedures to close positions if necessary.

```

{
if(OrderFlagB==1)
{
    CheckToCloseBuy();
}
if(OrderFlagS==1)
{
    CheckToCloseSell();
}
}

```

void CheckForModify() // Adjust Stoploss upwards as profit increases.

```

{
if(OrderFlagB==0 && OrderFlagS==0)
    return;
//return;
if(OrderFlagB==1) //modify long position
{
    if(OrderSelect(OpenOrderB,SELECT_BY_TICKET))
    {
        if(OrderStopLoss()<OrderOpenPrice())
        {
            if(Bid>OrderOpenPrice()+55*Point)
            {
if(OrderModify(OpenOrderB,OrderOpenPrice(),OrderOpenPrice()+15*Point,OrderOpenPrice()+700*Point,0, Yellow)=
=false)
                {
                    Print("Error Modifying Order! Code: ",GetLastError());
                }
            }
            else
                if(Bid>OrderOpenPrice()+TrailingStopLevel*Point && UseTS == 1)
                {
if(OrderModify(OpenOrderB,OrderOpenPrice(),OrderOpenPrice()+10*Point,OrderOpenPrice()+700*Point,0, Yellow)=
=false)
                    {
                        Print("Error Modifying Order! Code: ",GetLastError());
                    }
                }
            }
            else
                {
                    if(Bid>(OrderStopLoss()+(TrailingStopLevel*Point*2)) && UseTS == 1)
                    {
if(OrderModify(OpenOrderB,OrderOpenPrice(),OrderStopLoss()+(TrailingStopLevel)*Point,OrderStopLoss()+700*Po
int,0, Yellow)==false)
                        {

```





