

# Moto GP

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- Gravity **15.4 BLG**
- ABV ---
- IBU **66**
- SRM **6.4**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **45 liter(s)**
- Trub loss **5 %**
- Size with trub loss **48.1 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **59.6 liter(s)**

## Mash information

- Mash efficiency **76 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **31.3 liter(s)**
- Total mash volume **43.8 liter(s)**

## Steps

- Temp **55 C**, Time **1 min**
- Temp **64 C**, Time **60 min**
- Temp **71 C**, Time **15 min**
- Temp **77 C**, Time **4 min**

## Mash step by step

- Heat up **31.3 liter(s)** of strike water to **62C**
- Add grains
- Keep mash **1 min** at **55C**
- Keep mash **60 min** at **64C**
- Keep mash **15 min** at **71C**
- Keep mash **4 min** at **77C**
- Sparge using **40.8 liter(s)** of **76C** water or to achieve **59.6 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	10 kg (80%)	82 %	4
Grain	Viking Wheat Malt	1.2 kg (9.6%)	83 %	5
Grain	Viking Munich Malt	0.9 kg (7.2%)	78 %	18
Grain	Cara Gold Castlemalting	0.4 kg (3.2%)	78 %	120

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	50 g	60 min	13.5 %
Boil	Columbus/Tomahawk/Zeus	50 g	15 min	15.5 %
Boil	Centennial	50 g	10 min	10.5 %
Boil	Simcoe	50 g	5 min	13.2 %
Boil	Citra	50 g	1 min	12 %
Dry Hop	Centennial	50 g	5 day(s)	10.5 %
Dry Hop	Amarillo	100 g	5 day(s)	9.5 %
Dry Hop	Simcoe	50 g	5 day(s)	13.2 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Wyeast - American Ale	Ale	Liquid	150 ml	Wyeast Labs

## Extras

Type	Name	Amount	Use for	Time
Water Agent	kwas fosforowy 75%	1 g	Mash	0 min
Water Agent	Chlorek wapnia 33%	20 g	Boil	80 min

## Notes

- Receptura zerżnięta z Grand Prix - American IPA Czesław Dziełak

Przeliczanie g na ml chlorku wapnia / 0,44022  
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