

# END MILL

ดอกเอ็นมิลล์



เอ็นมิลล์

## ROUGHING END MILL

HQL



φ20 Or less φ 22~28 φ 30 Or more



Long



Ø10 ~ Ø12 : 0 ~ -0.1  
Ø14 ~ Ø16 : 0 ~ -0.15  
Ø18 ~ Ø50 : 0 ~ -0.2



Ds ≤ 10 : 0 ~ -0.009  
10 < Ds ≤ 18 : 0 ~ -0.011  
18 < Ds ≤ 30 : 0 ~ -0.013  
30 < Ds : 0 ~ -0.016

(mm)

Order No.	Stock	Size (mm)				No. of Flutes
		Tool Dia.	Flute Length	Overall Length	Shank Dia.	
HQL10	●	10	45	100	10	4
HQL12	●	12	55	110	12	4
HQL14	●	14	55	110	12	4
HQL15	●	15	55	110	12	4
HQL16	●	16	65	125	16	4
HQL18	●	18	65	125	16	4
HQL20	●	20	75	140	20	4
HQL22	●	22	75	140	20	5
HQL25	●	25	90	165	25	5
HQL28	●	28	90	165	25	5
HQL30	●	30	90	165	25	6
HQL32	●	32	110	190	32	6
HQL35	●	35	110	190	32	6
HQL40	●	40	125	205	32	6
HQL45	●	45	125	230	42	6
HQL50	●	50	150	255	42	6

● : Stocked Items.

เอ็นมิลล์

## ROUGHING END MILL

HQLS



Ø20 or less Ø2~28 Ø30 or more  
Center cut

Long



Ø12 : 0 ~ -0.1  
Ø14 ~ Ø16 : 0 ~ -0.15  
Ø18 ~ Ø50 : 0 ~ -0.2



Ds ≤ 10 : 0 ~ -0.009  
10 < Ds ≤ 18 : 0 ~ -0.011  
18 < Ds ≤ 30 : 0 ~ -0.013  
30 < Ds : 0 ~ -0.016

(mm)

Order No.	Stock	Size (mm)				No. of Flutes
		Tool Dia.	Flute Length	Overall Length	Shank Dia.	
HQLS12	●	12	30	150	10	4
HQLS14	●	14	30	150	12	4
HQLS16	●	16	30	150	12	4
HQLS18	●	18	35	180	16	4
HQLS20	●	20	40	200	16	4
HQLS22	●	22	40	225	20	5
HQLS25	●	25	45	225	20	5
HQLS28	●	28	45	250	25	5
HQLS30	●	30	45	250	25	6
HQLS40	●	40	65	300	32	6
HQLS50	●	50	75	320	42	6

● : Stocked Items.